CURRICULUM VITAE

PERSONAL DETAILS

NAME: **PROF ARUL ARULRAJAH**
CURRENT POST: **PROFESSOR OF GEOTECHNICAL ENGINEERING**
AFFILIATION: SWINBURNE UNIVERSITY OF TECHNOLOGY, MELBOURNE, AUSTRALIA

ACADEMIC QUALIFICATIONS

PhD (Civil Engineering), Curtin University of Technology, Perth, 2005
MEngSc (Civil Engineering), University of Malaya, Malaysia, 2003
BSc (Civil Engineering), Purdue University, U.S.A, 1992

EMPLOYMENT HISTORY

Position held	Organisation	Department	Year appointed
Professor of Geotechnical Engineering, Swinburne University of Technology, Australia	Swinburne University of Technology	Civil Engineering	January 2015
Associate Professor of Geotechnical Engineering, Swinburne University of Technology, Australia	Swinburne University of Technology	Civil Engineering	January 2010
Senior Lecturer	Swinburne University of Technology	Civil Engineering	June 2006
Project Manager	Connell Wagner Pty Ltd, Melbourne	Geotechnical Engineering	November 2004
Lead Geotechnical Engineer	Ranhill Consulting, Malaysia	Geotechnical Engineering	June 2000
Senior Geotechnical Engineer	Dr Nik & Associates, Malaysia	Geotechnical Engineering	October 1997
Geotechnical Engineer	SPECS Consultants, Singapore	Geotechnical Engineering	June 1992

RESEARCH AND SCHOLARSHIP EXPERIENCE

- Arulrajah has been involved as a Chief Investigator in 42 research projects totalling AUD$15.7 Million which includes 8 ARC Linkage grants, 1 ARC Training Centre, 3 ARC LIEF grants, 17 competitive state government grants, and 2 international grants. He is the project leader in 23 projects totalling AUD$6 Million. He has also been a PI for a major overseas research project in Thailand on recycled materials in roads, totalling a further AUD$715,000. His current research is in the field of Geotechnical Engineering and includes the usage of reclaimed demolition materials, biosolids, dredged clay spoils, field instrumentation and waste materials in Geotechnical Engineering applications.

- Arulrajah's research work has achieved national and international recognition. His contributions bridge the gap between academic inquiry and industrial practice, contributing to knowledge and practice in Geotechnical Engineering. This direction has been enthusiastically supported by industry and a number of large industry funded projects have been initiated on the basis of this research.

- Arulrajah has actively led the renewal of the geotechnical laboratory at Swinburne with more than AUD$1.5M spent on equipment renewal with 60 pieces of new equipment procured through various research grants and university equipment grants. The procurement of these equipments has resulted in a state of the art geotechnical laboratory at Swinburne for teaching and research.

- Arulrajah is the author of 1 book, 5 book chapters, 350+ journal papers and 100+ conference papers to date. His journal papers have been published in international journals and are predominantly classified as Q1 (Scimago). He has a H-index of 75 in Google Scholar and 66 in Scopus.

- Arulrajah has supervised 22 PhD students as the Principal Coordinating Supervisor and 7 others as an Associate Supervisor. Arulrajah is currently the principal coordinating supervisor of 7 PhD students.

MAJOR GRANTS (Prof. Arul Arulrajah - as Chief Investigator)

Title of Research Project	Source (year)	Cash (AUD$)
Building green roads with gasified municipal solid waste composites **A Arulrajah,** A Zhou, S Horpibulsuk and M Griffin	ARC Linkage LP220200548 (2023-2026)	**$816,971** ARC = $562,823 Industry = $210,000 Swinburne = $44,148
Biocemented recycled glass columns: green technology for ground improvement **A Arulrajah,** A Zhou, J Chu, S Horpibulsuk and K Verumandy	ARC Linkage LP220100099 (2023-2026)	**$755,148** ARC = $510,000 Industry = $201,000 Swinburne = $44,148
Fatigue life and biodegradation of biomass waste composites in roads **A Arulrajah,** G Narsilio, S Horpibulsuk, J Chu, M Leong and S Darmawan	ARC Linkage LP200301154 (2021-2024)	**$833,618** ARC = $561,656 Industry = $186,000 Swinburne = $85,962
Biocementation of recycled sand and demolition wastes in pavements **A Arulrajah,** G Narsilio, J Chu, S Horpibulsuk and T-A Kua	ARC Linkage LP200100052 (2020-2023)	**$692,962** ARC = $442,000 Industry = $165,000 Swinburne = $85,962
Harnessing renewable energy from low-carbon geothermal pavements **A Arulrajah,** G Narsilio, S Horpibulsuk, MW Bo and M Leong	ARC Linkage LP170100072 (2018-2020)	**$584,388** ARC = $354,342 Industry =$150,000 Swinburne = $80,046
Development of deep soil mixing technology utilizing industrial by-products **A Arulrajah**, M. Disfani, S. Horpibulsuk, M.W. Bo, S. Darmawan, M. Leong	ARC Linkage LP150100043 (2015-2018)	**$410,000** ARC = $275,000 Industry =$135,000
Effect of geopolymer cement stabilization on the fatigue life of pavement sub-bases with recycled demolition aggregates. **A Arulrajah**, J. Sanjayan and M.W. Bo	ARC Linkage LP120100107 (2012-2015)	**$208,000** ARC = $142,000 Industry = $66,000
Sustainable usage of dredged clay materials as land reclamation fills. Sivakugan, **A Arulrajah**, Bo, Ameratunga and Atkinson	ARC Linkage LP0989164 (2009-2011)	**$103,000** ARC = $79,000 Industry = $24,000
ARC Training Centre for Advanced Technologies in Rail Track Infrastructure B Indraratna, K Tieu, D Airey, D Thambiratnam, **A Arulrajah**, J Wilson, Z Jiang, J Zhao, M Meylan, D Williams, H Nikraz, M Dhanasekar, R Dippenaar, C Rujikiatkamjorn, P Perez, D Wexler,H Zhu, O Mirza, J Li, T Yu, K Maeda, T Neville, R Kelly, L Palmer-Cannon, R Austin, J Han, L Yao, M Leong, M Rahme, J Grant, J Buckley, T Clarke & R Jansz.	ARC ITTC IC170100006 (2017-2020)	**$5,738,000** ARC = $3,938,000 Industry = $1,800,000 Swinburne allocation = $734,000 (ARC = $434,000 Industry = $100,000 Swinburne=$200,000)
National facility for cyclic testing of high-speed rail B Indraratna, S Sloan, M Cassidy, S Daichao, C Rujikiatkamjorn, K Tieu, J Carter, A Fourie, N Khalili, A Bouazza, J Kodikara, K Kwok,	ARC LIEF LE140100010	**$900,000**

M Dhanasekar, P Mendis, D Williams, B Uy, **A Arulrajah**, H Khabbaz, M Shahin, A Remennikov, JAH Carraro, J Wilson, K Krabbenhoft, C Gaudin, S Nimbalkar, C Leo, A Russell, P Meehan and N Grady.		
X-ray microscopy facility for imaging geo-materials. W Gates, A Haque, B Indraratna, S Liyanapathirana, **A Arulrajah**, C Selomulya, J Sanjayan, K Krabbenhoft, C Rujikiatkamjorn, R Cas, C Leo, E Oh, A Evans, A Lyamin, G Narsilio and S Yuen.	ARC LIEF LE130100006 (2013)	**$500,000**
Hybrid testing facility for structures under extreme loads. R Al-Mahaidi, J Wilson, J Sanjayan, E Gad, X Zhao, B Uy, S Foster, B Samali, N Haritos, M Mahendran, M Griffith, Y Xie, C Yang, S Fragomeni, N Lloyd, M Bradford, R Gilbert, N Lam, Y Xiang, M Dhanasekar, B Rolfe, C Duffield, P Ranjith, **A Arulrajah**, V Rangan, Y Bai and M Guerrieri	ARC LIEF LE110100052 (2011)	**$870,000**
Chemical stabilisation of recycled concrete in pavement bases using green polymers F Maghool, **A Arulrajah** and M Senanayake	SmartCrete CRC (2024-2027)	**$480,000**
Ground improvement using recycled concrete aggregates as semi-rigid inclusion columns F Maghool and **A Arulrajah**	SmartCrete CRC (2021-2024)	**$440,000**
Foamed bitumen stabilisation of pavements using glass fines and plastics **A Arulrajah**, F Maghool and A Mohammadinia	Sustainability Victoria (2019-2021)	**$189,975**
Innovative road design for sustainable infrastructure development S Horpibulsuk, **A Arulrajah,** A Suddepong, M Hoy, Yaowarat, G Sukmak, P Sukmak, P Voottipruex, A Phummiphan & T Takaikaew	National Science & Tech Development Agency, Thailand (2020-2024)	**$715,000**
Effectiveness of Dewatering in Western Dump Slope in the Mae Moh Mine Using Deep Well Dewatering System S Horpibulsuk, **A Arulrajah**, A Suddepong, Hoy & Udomchai	National Science & Tech Development Agency, Thailand (2021-2022)	**$500,000**
Recovered plastics and glass fines in rail track substructures **A Arulrajah** and A Mohammadinia	Sustainability Victoria (2019-2021)	**$192,950**
Recycled glass with brick/concrete blends in municipal pavement applications **A Arulrajah** and F Maghool	Sustainability Victoria (2019-2020)	**$176,000**
Field demonstration of plastics and glass fines in concrete footpaths Y Wong, A Mohammadinia & **A Arulrajah**	Sustainability Victoria (2019-2020)	**$72,000**
Evaluation of engineering properties of water treatment clay for brick making Y Wong and **A Arulrajah**	Repurpose-It Pty Ltd (2020)	**$8,500**
Soft computing based modelling of recycled waste materials in transportation geotechnics A Mohammadinia and **A Arulrajah**	Stretford Civil Constructions Pty Ltd (2019)	**$41,000**

Performance and design life of equine air and polyurethance topped flexiroc pavement as a base for sporting fields F Maghool and **A Arulrajah**	Turf One Pty Ltd (2019)	**$29,000**
The effect of curing regime on the engineering behaviour of polymer-stabilized granular material for use in lagoon-bases F Maghool and **A Arulrajah**	Urbnsurf Developments Pty Ltd (2018)	**$100,000**
Tyre-derived aggregate as a supplementary material in pavement subbases **A Arulrajah**	Tyre Stewardship Australia (2016)	**$132,000**
Glass fines in cement treated crushed rock pavement applications **A Arulrajah**	Sustainability Victoria (2016)	**$100,000**
Recycled plastics and glass fines in concrete footpaths Y Wong and **A Arulrajah**	Sustainability Victoria (2016)	**$120,000** SV = $100,000 Industry = $20,000
Soil movement in hydraulic structures with piled foundations under extreme weather events: an experimental and numerical modelling approach. Disfani, M.M., **Arulrajah, A.**, Evans, R. and Ong, D.	SUT Melbourne-Sarawak Research (2013-2016)	**$157,000**
Crushed glass as a supplementary material in cement treated crushed concrete pavement applications **A Arulrajah**, MM Disfani and S Horpibulsuk	Sustainability Victoria (2014)	**$60,000**
Crushed brick as a supplementary material in cement treated crushed concrete pavement applications **A Arulrajah**, MM Disfani and J Sanjayan	Sustainability Victoria (2013-2016)	**$60,000**
End-of-life options for waste paint in Australia MM Disfani and **A Arulrajah**	Sustainability Vic (2013)	**$31,000**
Demolition wastes for stone columns **A Arulrajah**, MM Disfani, MW Bo and M Leong	Dept. of Business and Innovation, (2013-14)	**$32,000**
Development of an advanced laboratory testing method for the measurement of soil suction under a range of overburden pressures. MM Disfani and **A Arulrajah**	IPC Global (2012-2013)	**$30,000**
Geotechnical characteristics of biosolids for use as stabilised fill. **A Arulrajah**, MM Disfani and S Horpibulsuk	City West Water (2014)	**$15,000**
Laboratory testing of biosolids for lagoon embankments. **A Arulrajah,** J Piratheepan and M Disfani	Geotesta Pty Ltd (2010)	**$10,000**
Field testing and field monitoring of recycled crushed glass in trial road pavements. **A Arulrajah**, B Vuong, J Wilson and M Imteaz	National Packaging Cov. (09-11)	**$95,000**
Laboratory testing of recycled crushed glass for road construction applications.	Sustainability Vic (2009-2010)	**$126,000**

A Arulrajah, B. Vuong, J Wilson and M Imteaz.		
Laboratory and field evaluation of reclaimed demolition material in footpaths and shared paths (Phases 1 to 4). **A Arulrajah,** B Vuong and J Wilson	Municipal Association of Vic (2009-2012)	**$105,000**
Geotechnical characteristics of biosolids as stabilized fill. **A Arulrajah,** MW Bo, J Wilson, R Evans and J Lamborn.	Smart Water Fund (2007-2009)	**$275,000**
Engineering properties and suitability of recycled brick for pavement and drainage. **A Arulrajah** and J Wilson	Sustainability Vic (2007-2008)	**$120,000**
Finite element modeling of a stabilized biosolids embankment. **A Arulrajah**	Swinburne RDS Grant (2007)	**$30,000**
Resilient modulus and permanent deformation response of waste dolerite as wearing course material for mine haul roads", MM Disfani, J Piratheepan & **A Arulrajah**	Hatch (2013)	**$16,000**
		$15,655,512

Awards and Accolades

National and International awards:

- ***Telford Premium Prize (2021), Institution of Civil Engineers, United Kingdom*** - Awarded for one of the best paper published in the ICE's journals in 2020, in which he was the first and corresponding author.
- ***Chair Professor Award (2020), National Science and Technology Development Agency, Thailand*** - For outstanding innovation and research on the usage of recycled wastes in pavement engineering, with the goal of fulfilling the flagship Zero Waste Thailand policy. Conferred by Her Royal Highest Princess Maha Chakri Siridhon.
- ***Distinguished Professor, Suranaree University of Technology, Thailand (2020)*** - A lifetime honorary position for collaborative research with Suranaree University of Technology. This includes grants (ARC, Victorian, Thailand projects), high-quality journal publications and joint PhD student supervision.
- ***Editorial Board Member Award, Soils and Foundations (2020)*** – In recognition of outstanding contribution as an editorial board member for Soils and Foundations.
- ***Finalist, Victorian Premier's Sustainability Award (2020) – Built Environment Category***; for "Recycled waste plastics and glass fines in concrete footpath".
- ***Australian Pavement and Recycling Association (Auststab) - Highly Commended Award for Excellence in Sustainability (2018)***: Chemical and granular stabilisation of pavements using recycled materials.
- ***Finalist, The Australian Innovation Challenge (2014) - Manufacturing, Construction and Infrastructure category***; for "Green roads and footpaths using recycled materials".
- ***Australian Pavement and Recycling Association (Auststab) - Highly Commended Award for Excellence in Research and Education (2012)***: cementitious and granular stabilisation of recycled waste materials.
- ***Telford Premium Prize (2010), Institution of Civil Engineers, United Kingdom*** - Awarded for one of the best paper published in the ICE's journals in 2009, in which he was the first and corresponding author.
- ***Shamsher Prakash Prize for Excellence in the Practice of Geotechnical Engineering (2010)*** – For excellence in the practice, research and teaching of geotechnical engineering.
- ***Smart Water Fund (Wastewater Authorities in Victoria) Certificate of Recognition (2007) -*** For innovative biosolids management initiative on the usage of biosolids in geotechnical engineering applications.

Swinburne Awards:

- ***Swinburne Outstanding Researcher Award (2019) –*** For research grants, publications and other qualitative indicators.
- ***Swinburne Research Impact Award (2018)*** – for research on "Recycled materials in Geotechnical Engineering applications".
- ***Swinburne Vice-Chancellor's Industry Engagement Award (2012)*** - For highly successful industry-linked research activity in the fields of civil and geotechnical engineering, ongoing provision of specialised industry consulting services.
- ***Swinburne Vice-Chancellor's Research Award (2009)*** – For prolific success in competitive and industry research grants on the biosolids, waste and recycled materials in Geotechnical Engineering applications.
- ***Swinburne Vice-Chancellor's Sustainability Award (2008)*** - For research into the sustainable usage of waste and reclaimed materials in Civil Engineering applications.
- ***Swinburne Vice-Chancellor's Early-Career Research Award (2007)*** - For developing highly effective research collaborations with industry, and for associated success in winning research grants and in publication.

Industry awards:

- ***DST Consulting Engineers (Canada) Research Collaboration Award (2012)*** - in recognition of his international research collaboration works in geotechnical engineering.

Best paper awards:

- ***Best Paper Award (2019)***: 9th Intl. Conference on Geotechnique, Construction Materials and Environment, Tokyo, Japan.
- ***Best Paper Award (2018)***: 8th Intl. Conference on Geotechnique, Construction Materials and Environment, KL, Malaysia.
- ***Best Paper Award (2016)***: 6th Intl. Conference on Geotechnique, Construction Materials and Environment, Bangkok, Thailand.
- ***Best Paper Award (2016)***: 6th International Symposium on Rural Roads, Bangkok, Thailand.
- ***Best Paper Award (2016)***: International Conference on Energy Materials and Applications, Seoul.
- ***Best Paper Award (2014)***: 9th Intl Conference on Lowland Technologies, Saga, Japan.

Journal reviewer awards:

- ***Reviewer of Excellence Award, Computers and Geotechnics, Elsevier (2018)***
- ***Outstanding Reviewer Award, Computers and Geotechnics, Elsevier (2012)***

Patents:

Provisional Patent# 2019904276: A cured ceramic composition and method of producing coffee bricks.

LIST OF PUBLICATIONS

Q: Quartile ranking where Q1 is the highest quartile (SCImago Journal Rank).
IF: Impact factor from Journal Citations Report 2022 (Thomson Reuters; Web of Science).

BOOKS

1. Sivakugan, N., **Arulrajah, A.** & Bo, M.W. (2011). Laboratory Testing of Soils, Rocks and Aggregates, J. Ross Publishing, 1st Edition, Fort Lauderdale, FL, USA, ISBN: 978-1-60427-047-1.
2. Narsilio, G., **Arulrajah, A.** and Kodikara, J. (editors) (2012). "Ground engineering in a changing world", Proceedings of the 11th Australia-New Zealand Conference on Geomechanics, Melbourne, Australia, July, ISBN 978-0-646-54310-7.

BOOK CHAPTERS

1. Xue, Y., **Arulrajah, A.**, Horpibulsuk, S., Jian, C. and Narsilio, G. (2023). Recycled sands from demolition wastes as a natural sand substitute material in pavement construction. *Lecture Notes in Civil Engineering,* Springer. **[ARC LP200100052].**
2. Lin, Y., Maghool, F. and **Arulrajah, A.** (2023). Environmental impact of crushed concrete and recycled aluminium salt slag as used in civil infrastructure construction, *Lecture Notes in Civil Engineering*, Springer.
3. Karnam, P., Kumar, B., Balunaini, U. and **Arulrajah, A.** (2023). "Interfacial direct shear behavior of aluminum slag and uniaxial geogrids", *Green Materials in Civil Engineering*. Elsevier.
4. Yaghoubi, E., Disfani M.M., **Arulrajah A.**, Kodikara, J. and Al-Taie A. (2022) Hydro-Mechanical Behavior of Unsaturated Unbound Pavement Materials Under Repeated and Static Loading. In: Tutumluer E., Nazarian S., Al-Qadi I., Qamhia I.I. (eds) Advances in Transportation Geotechnics IV. *Lecture Notes in Civil Engineering*, vol 3. Springer.
5. Al-Taie A., Disfani M.M., Evans R., **Arulrajah A.**, Yaghoubi E. (2022) Impact of Lime Stabilization on Swelling and Soil Water Retention Behavior of Expansive Subgrade. In: Tutumluer E., Nazarian S., Al-Qadi I., Qamhia I.I. (eds) Advances in Transportation Geotechnics IV. *Lecture Notes in Civil Engineering*, vol 164. Springer. https://doi.org/10.1007/978-3-030-77230-7_58.
6. Cheng, J., Ni, J., Shen, J., Wang, B., and **Arulrajah, A.** (2018). "Performance evaluation of jacking force models for tunnel bore conditions characterisation", *Tunnelling in Soft Ground, Ground Conditioning and Modification Techniques*, pp. 34-46, Springer, ISBN: 978-3-319-95782-1.
7. **Arulrajah, A.**, Disfani, M.M. and Horpibulsuk, S. (2017). "Sustainable usage of construction and demolition materials in roads and footpaths", *Sustainability Issues in Civil Engineering*, Part 1, Chapter 1, pp. 3-13, Springer, ISBN: 978-981-10-1928-9.
8. Bo, M.W., **Arulrajah, A.**, Choa, V. Horpibulsuk, S., Disfani, M.M (2015). "Deep compaction of granular fills in a land reclamation project by dynamic and vibratory compaction techniques", *Ground Improvement Case Histories*, Vol. 2, Chapter 8, Elsevier, ISBN 978-0-08-100192-9.
9. Bo, M.W., Fabius, M., **Arulrajah, A.** and Horpibulsuk, S. (2015). "Environmentally friendly slope stabilization using a soil nail and root system in Canada", *Ground Improvement Case Histories*, Vol. 3, Chapter 21, Elsevier, ISBN 978-0-08-100191-2-00021-6.
10. **Arulrajah, A.**, Bo, M.W., Chu, J. and Nikraz, H. (2008). "Application of prefabricated vertical drains to the Changi land reclamation project, Singapore", *Geosynthetics in Civil and Environmental Engineering*, pp. 651-655, Springer, DOI: 10.1007/978-3-540-69313-0_120, Shanghai, China.

JOURNAL PUBLICATIONS

1. Doan, T., **Arulrajah, A.**, Lin, Y., Horpibulsuk, S., Chu, J. and Darmawan, S. (2024). "Chemical stabilization of demolition waste in pavement bases using one-part fly ash and slag based geopolymers", *Transportation Geotechnics*, Vol. 45, Article No. 101192, pp. 1-17. **[ARC LP200301154]. (Q1; IF = 5.3)**.
2. Verumandy, K., **Arulrajah, A.**, Mirzababaei, M. and Rajeev, P. (2024). "Static load testing of instrumented screw piles in soft soil deposits", *International Journal of Geosynthetics and Ground Engineering*, Vol. 10, Article No. 10, pp. 1-17, doi: 10.1007/s40891-023-00519-x **(Q1; IF = 2.9)**.
3. Lin, Y., Maghool, F., **Arulrajah, A.** and Horpibulsuk, S. (2024). "Feasibility of recycled concrete aggregate stabilized with one-part geopolymers as semi-rigid inclusion columns", *Construction & Building Materials*, Vol. 424, Article No. 135825, pp. 1-17. **(Q1; IF = 7.4)**.
4. Gu, X., Makasis, N., Narsilio, G., **Arulrajah, A.** and Horpibulsuk, S. (2024). "Impact of rainfall on the thermal performance of geothermal permeable pavement systems", *Transportation Geotechnics*, Vol. 45, Article No. 101194, pp. 1-16. **[ARC LP170100072]. (Q1; IF = 5.3)**.
5. Hoy, M., Suddeepong, A., Horpibulsuk, S., Akkharawongthattane, K., **Arulrajah, A.**, Buritatum, A., Horpibulsuk, J. and Rashid, A. (2024), "Improved performance of natural rubber latex modified asphalt concretes with various types of aggregates", *Journal of Materials in Civil Engineering*, Article No. XXXX, pp. 1-XX. **(Q1; IF = 3.2)**.
6. Hoy, M., Ro, B., Horpibulsuk, S., Suddeepong, A., Buritatum, A., **Arulrajah, A.**, Yaowarat, T., Chinkulkijniwat, A. and Horpibulsuk, J. (2024). "Flexural fatigue performance of hemp fiber reinforced concrete using recycled concrete aggregates as a sustainable rigid pavement", *Journal of Materials in Civil Engineering*, Article No. XXXX, pp. 1-XX. **(Q1; IF = 3.2)**.
7. Yaowarat, T., Suddeepong, A., Hoy, M., Horpibulsuk, S., Buritatum, A., Yeantong, C., Phunpeng, V. and **Arulrajah, A.** (2024). "Improved mechanistic performance of natural rubber latex modified pavement concretes in sulfate environments", *International Journal of Pavement Engineering*, Vol. XX, Article No, XXX, No. XXX, pp. 1-XX. **(Q1; IF = 3.8)**.
8. Hoy, M., Doan, C., Horpibulsuk, S., Suddeepong, A., Udomchai, A., Buritatum, A., Chaiwan, A., Domcommul, P. and **Arulrajah, A.** (2024). "Investigation of a large-scale waste dump failure at the Mae Moh mine in Thailand", *Engineering Geology*, Vol. 329, Article No. 107400, pp. 1-14. **(Q1; IF = 7.4)**.
9. Laomuad, A., Suddeepong, A., Horpibulsuk, S., Buritatum, A., Yaowarat, T., Akkharawongwhatthana, K., Ponsri, N., Phunpeng, V., Chinkulkijniwat, A. and **Arulrajah, A.** (2024). "Evaluating Polyethylene Terephthalate in Asphalt Concrete with Reclaimed Asphalt Pavement for Enhanced Performance", *Construction & Building Materials*, Vol. 422 , Article No. 135749, pp. 1-9. **(Q1; IF = 7.4)**.
10. Bai, Y., Arulrajah, A., Horpibulsuk, S. and Chu, J. (2023). "Gasified olive stone biochar as a green construction fill material", *Construction & Building Materials*, Vol. 403, Article No. 133003, pp. 1-14. **[ARC LP200301154]. (Q1; IF = 7.4)**.
11. Xue, Y., **Arulrajah, A.**, Horpibulsuk, S. and Chu, J. (2023). "Strength and stiffness performance of geopoly,mer stabilized washed recycled sands derived from demolition wastes in pavement subgrades", *Construction & Building Materials*, Vol. 369 , Article No. 130618, pp. 1-14. **[ARC LP200100052]. (Q1; IF = 7.4)**.
12. Fouladi, A., **Arulrajah, A.**, Chu, J. and Horpibulsuk, S. (2023). "Application of microbially induced calcite precipitation (MICP) technology in construction materials: a comprehensive review of waste stream contributions", *Construction & Building Materials*, Vol. 388, Article No. 131546, pp. 1-12. **[ARC LP200100052]. (Q1; IF = 7.4)**.
13. Ghorbani, B., **Arulrajah, A.**, Narsilio, G., Horpibulsuk, S. and Buritatum, A. (2023). "Geothermal pavements: Experimental testing, prototype testing and numerical analysis of recycled demolition wastes, *Sustainability,* Vol. 15, Article No. 2680, pp.1-14. **[ARC LP200301154] (Q2; IF = 3.9)**.
14. Senanayake, M., **Arulrajah, A.**, Maghool, F. and Horpibulsuk, S. (2022). "Wheel-tracking performance of recycled concrete aggregate with recycled glass and brick in unbound pavements under elevated loads", *Smart Construction and Sustainable Cities*, Vol. 1, Article No. 6, pp. 1-12. **[ARC LP200100052]**.
15. Lin, Y., Maghool, F., **Arulrajah, A.** and Horpibulsuk, S. (2023). "Alkali activation of recycled concrete and aluminium salt slag aggregates for semi-rigid column inclusions", *Construction & Building Materials*, Vol. 366, Article No. 130106, pp. 1-17. **(Q1; IF = 7.4)**.
16. Sukmak, G., Sukmak, P., Horpibulsuk, S., **Arulrajah, A.** and Horpibulsuk, J. (2023). "Generalized strength prediction equation for cement stabilized clayet soils", *Applied Clay Science*, Vol. 231, Article No. 106761, pp. 1-9. **(Q1; IF = 5.6)**.
17. Motamedi, Y., Makasis, N., Duber, S., Narsilio, G., **Arulrajah, A.** and Horpibulsuk, S. (2023). "Field investigation on geothermal pavements", *Geomechanics for Energy and the Environment*, Vol. 35, Article No. 100475, pp. 1-16. doi: 10.1016/j.gete.2023.100475 **[ARC LP170100072] (Q1; IF = 5.1)**.

18. Hoy, M., Nhieu, D., Suddeepong, A., Horpibulsuk, S., Arulrajah, A., Deng, Y. and Udomchai, A. (2023). "Stiffness, rutting and fatigue performance evaluation of cement-natural rubber latex stabilized recycled concrete aggregate", *International Journal of Pavement Engineering*, Vol. 24, Article No, 2276204, No. 2, pp. 1-10. **(Q1; IF = 3.8)**.
19. Nhieu, D., Hoy, M., Horpibulsuk, S., Karntatam, K., **Arulrajah, A.**, Horpibulsuk, J. (2023). "Cement-natural rubber latex stabilized recycled concrete aggregate as a pavement base material", *Road Materials and Pavement Design*, Vol. 24, No. 6, pp. 1-16. **(Q1; IF = 3.7)**.
20. Boonsung, A., Horpibulsuk, S., Pathompongpairoj, A., Sawatwutichaikul, A., Choenklang, P., **Arulrajah, A.** (2023). "Compressive strength and morphology of rigid polyurethane foam for road construction", *Journal of Materials in Civil Engineering*, Article No. XXX, pp. 1-XX. **(Q1; IF = 3.2)**.
21. Buritatum, A., Suddeepong, A., Horpibulsuk, Yaowarat, T., Hoy, M., and **Arulrajah, A.** and Rashid, A. (2023). "Mechanistic performance and distress model of bottom ash modified porous asphalt concretes with various Thailand's aggregates", *Journal of Materials in Civil Engineering*, Vol. XX, No. XX, Article No. XXXXX, pp. 1-X. **(Q1; IF = 3.2)**.
22. Buritatum, A., Aiamsri, K., Yaowarat, T., Suddeepong, A., Horpibulsuk, S. **Arulrajah, A.** and Kou, H. (2023). "Improved fatigue performance and cost effectiveness of natural rubber latex modified cement stabilised pavement base at raised temperature", *Journal of Materials in Civil Engineering*, Article No.04022461, pp. 1-16. **(Q1; IF = 3.2)**.
23. Suddeepong, A., Buritatum, A., Horpibulsuk, S., Yaowarat, T., Hoy, M., **Arulrajah, A.** and Horpibulsuk, J. (2023). "Fatigue performance evaluation of bottom ash modified asphalt concretes using various aggregate types", Clean Technologies and Environmental Policy, doi: 10.1007/s10098-023-02646-5, pp. 1-14. **(Q2; IF = 4.3).)**.
24. Hoy, M., Srijaroen, C., Horpibulsuk, S., Phunpeng, V., Rachan, R. and **Arulrajah, A.**, (2023). "Innovative solution: Soil cement column walls as a temporary retaining structure for excavation in soft Bangkok clay", *Smart Construction and Sustainable Cities,* Vol. 1, pp.1-19.
25. Hoy, M., Tran, N., Suddeepong, A., Horpibulsuk, S., Buritatum, A., Yaowarat, T. and **Arulrajah, A.** (2023). "Wetting-drying durability performance of cement-stabilized recycled materials and lateritic soil using natural rubber latex", *Construction & Building Materials*, Vol. 403, Article No. 133108, pp. 1-14. **(Q1; IF = 7.4)**.
26. Hoy, M., Tran, Q., Suddeepong, A., Horpibulsuk, S., Mobkrathok, M., Chinkulkijniwat, A. and **Arulrajah, A.** (2023). "Improved fatigue properties of cement-stabilized recycled materials-lateritic soil using natural rubber latex for sustainable pavement applications", *Transportation Geotechnics*, Vol. 40, Article No. 100959, pp. 1-11. **(Q1; IF = 5.3)**.
27. Hoy, M., Nhieu, D., Horpibulsuk, S., Suddeepong, A., Chinkulkijniwat, A., Buritatum, A. and **Arulrajah, A.** (2023). "Effect of wetting and drying cycles on mechanical strength of cement-natural rubber latex stabilized, recycled concrete aggregate", *Construction & Building Materials*, Vol. 394, Article No. 132301, pp. 1-8. **(Q1; IF = 7.4)**.
28. Buritatum, A., Suddeepong, A., Akkharawongwhatthana, Horpibulsuk, S. Yaowarat, T., Hoy, M., **Arulrajah, A.** and Rashid, A. (2023). "Hemp fiber modified asphalt concrete with reclaimed asphalt pavement for low traffic roads", *Sustainability,* Vol. 15, Article No. 6860, pp.1-17. **(Q2; IF = 3.9)**.
29. Hoy, M., Samrandee, V., Samrandee, W., Suddeepong, A., Phummiphan, I., Horpibulsuk, S., Buritatum, A., **Arulrajah, A.** and Yeanyong, C. (2023). "Evaluation of asphalt pavement maintenance using recycled asphalt pavement with asphalt binders", *Construction & Building Materials*, Vol. 406, Article No. 133425, pp. 1-11. **(Q1; IF = 7.4)**.
30. Buritatum, A., Suddeepong, A., Horpibulsuk, Akkharawongwhatthana, S. Pongsri N., Yaowarat, T., Hoy, M., and **Arulrajah, A.** (2023). "Mechanistic performance of hybrid asphalt concretes with recycled aggregates and hemp fiber for low traffic roads", *Journal of Materials in Civil Engineering*, Vol. XX, No. XX, Article No. XXXXX, pp. 1-X. **(Q1; IF = 3.2)**.
31. Samingthong, W., Hoy, M., Ro, B., Horpibulsuk, S., Yosthasaen, T., Sudeepong, A., Buritatum, A., Yaowarat, T. and **Arulrajah, A.** (2023). "Natural rubber latex-modified concrete with PET and crumb rubber replacements for sustainable rigid pavements", *Sustainability,* Vol. 15, Article No. 14147, pp.1-16. **(Q2; IF = 3.9)**.
32. **Arulrajah, A.**, Maghool, F., Haghighi, H. and Horpibulsuk, S. (2022). "Cement treated recycled glass and crushed rock blends: modulus of rupture and stiffness properties", *International Journal of Pavement Engineering*, Vol. 23, No. 3, pp. 851-861. **(Q1; IF = 3.8)**.
33. **Arulrajah, A.,** Mohammadinia, A., Haghighi, H., and Horpibulsuk, S. (2022). "Effect of moisture sensitivity on the light stabilization of demolition materials in pavement bases", *Road Materials and Pavement Design*, Vol. 23, No. 4, pp. 787-801, doi: 10.1080/14680629.2020.1843525. **[ARC IC170100006] (Q1; IF = 3.7)**.
34. Xue, Y., **Arulrajah, A.**, Narsilio, G., Horpibulsuk, S. and Chu, J. (2022). "Washed recycled sand derived from construction and demolition wastes as engineering fill materials", *Construction & Building Materials*, Vol. 358 , Article No. 129433, pp. 1-11. **[ARC LP200100052]. (Q1; IF = 7.4)**.

35. Senanayake, M., **Arulrajah, A.**, Maghool, F. and Horpibulsuk, S. (2022). "Evaluation of rutting resistance and geotechnical properties of cement stabilized recycled glass, brick and concrete triple blends", *Transportation Geotechnics*, Vol. 34, Article No. 100755, pp. 1-11. **(Q1; IF = 5.3)**.

36. Baghban, H., **Arulrajah, A.**, Narsilio, G. and Horpibulsuk, S. (2022). "Assessing the performance of geothermal pavement constructed using demolition wastes by experimental and CFD simulation techniques", *Geomechanics for Energy and the Environment*, Vol. 29, Article No. 100271, pp. 1-13, doi: 10.1016/j.gete.2021.100271. **[ARC LP170100072] (Q1; IF = 5.1)**.

37. Maghool, F., **Arulrajah, A.**, Ghorbani, B. and Horpibulsuk, S. (2022). "Strength and permanent deformation properties of demolition wastes, glass and plastics stabilized with foamed bitumen for pavement bases", *Construction & Building Materials*, Vol. 284, Article No. 126108, pp. 1-12. **(Q1; IF = 7.4)**.

38. Yaghoubi, M., **Arulrajah, A.** and Horpibulsuk, S. (2022). "Engineering behaviour of a geopolymer stabilised high-water content soft clay", *International Journal of Geosynthetics and Ground Engineering*, Vol. 8, No. 3, Article No. 45. **(Q2; IF = 2.9)**.

39. Zhang, Z., Wong, Y., **Arulrajah, A.**, Sofi, M. and Sabri, Y. (2022). "Reaction mechanism of alkali-activated brick clay mill residues", *Construction & Building Materials*, Vol. 341, Article No. 127817, pp. 1-15. **(Q1; IF = 7.4)**.

40. Ghorbani, B., Yaghoubi, E., **Arulrajah, A.** and Fragomeni, S. (2022). "Long-term performance analysis of demolition waste blends in pavement bases using experimental and machine learning techniques", *International Journal of Geomechanics*, Vol. 23, No. 6, Article No. 04023058, pp. 1-13. **[ARC LP200100052] (Q1; IF = 3.7)**.

41. Oskooei, P. Mohammadinia, A., **Arulrajah, A.** and Horpibulsuk, S. (2022). "Application of artificial neural network models for predicting the resilient modulus of demolition materials", *International Journal of Pavement Engineering*, Vol 23, No. 4, pp. 1121-1133, DOI: 10.1080/10298436.2020.1791863. **[ARC IC170100006] (Q1; IF = 3.8)**.

42. Kumar, B., Balunaini, U., **Arulrajah, A.** and Evans, R. (2022). "Evaluation of interaction properties if uniaxial geogrids with waste foundry sand", *Geosynthetics International*, Vol. 30, No. 2, pp. 169-183, DOI: 10.1680/jgein.21.00005a. **(Q1; IF = 4.5)**.

43. Kumar, B., Balunaini, U., **Arulrajah, A.** and Evans, R. (2022). "Large-size pullout and interface direct shear tests on waste foundry sand with different geogrids", *Geosynthetics International*, Vol. XX, No. XX, pp. xxx-xxx. DOI: xxxx. **(Q1; IF = 4.5)**.

44. Kumar, A., Wong, Y and **Arulrajah, A.** (2022). "Recycling of glass fines and plastics in clay bricks at low temperatures", *Proceedings of the Institution of Civil Engineers-Waste and Resource Management*, Article No. 2200014, pp. 1-9, DOI: 10.1680/jwarm.22.00014 **(Q4)**.

45. Liu, X., Zhou, A., Li, J. and **Arulrajah, A.** (2022). "Shear-induced anisotrophy in granular materials under various saturation states", *Computers and Geotechnics*, Article No. 104606, pp. 1-8. **(Q1; IF = 5.3)**.

46. Chinkulkijniwat, A., Salee, R., Horpibulsuk, S., **Arulrajah, A.** and Hoy, M. (2022). "Landslide rainfall threshold for landslide warning in Northern Thailand", *Geomatics, Natural Hazards and Risk*, Vol 13, No. 1, pp. 2425-2441. **(Q1; IF = 4.2)**.

47. Gu, X., Makasis, N., Motamedi, Y., Narsilio, G., **Arulrajah, A.** and Horpibulsuk, S. (2022). "Geothermal pavements: field observations, numerical modelling and long-term performance", *Geotechnique*, Vol. 72, No. 9, pp. 832-846. DOI: 10.1680/jgeot.20.P.296. **[ARC LP170100072] (Q1; IF = 5.8)**.

48. Motamedi, Y., Makasis, N., Gu, X., Narsilio, G., **Arulrajah, A.** and Horpibulsuk, S. (2022). "Numerical investigation of geothermal pavements: design optimisation and boundary conditions", *Transportation Geotechnics*, Vol. 37, Article No. 100843, pp. 1-12. **[ARC LP170100072] (Q1; IF = 5.3)**.

49. Buritatum, A., Suddeepong, A., Horpibulsuk, S., Udomchai, A., **Arulrajah, A.,** Mohammadinia, A., Horpibulsuk, J. and Hoy, M. (2022). "Improvement of tensile properties of cement stabilized soil using natural rubber latex", *Journal of Materials in Civil Engineering*, Vol. 34, No. 4, Article No. 04022028, pp. 1-16. **(Q1; IF = 3.2)**.

50. Hoy, M., Udomchai, A., Yeanyong, C., Horpibulsuk, S. and **Arulrajah, A.** (2022). "Stability investigation of the flood protection structure at Nava Nakorn industrial estate, Thailand", *Engineering Failure Analysis*, Vol. 137, No.106279, pp. 1-11. **(Q1; IF = 4.0)**.

51. Tran, N.Q., Hoy, M., Suddeepong, A., Horpibulsuk, S., Kantathum, K., and **Arulrajah, A.**, (2022). "Improved mechanical and microstructure of cement-stabilized lateritic soil using recycled materials replacement and natural rubber latex for pavement applications", *Construction and Building Materials*, Vol. 347, Article No. 128547, pp. 1-13. **(Q1; IF = 7.4)**.

52. Buritatum, A., Suddeepong, A., Hoy, M., Horpibulsuk, S., Udomchai, A., **Arulrajah, A.** and Horpibulsuk, J. (2022). "Evaluation of durability against wetting and drying cycles of cement-natural rubber latex stabilized unpaved road under

cyclic tensile loading", *International Journal of Pavement Engineering*, pp. 1-13, Vol. 23, No. 12, pp. 4442-4453. **(Q1; IF = 3.8)**.

53. Suddeepong, A., Buritatum, A., Hoy, M., Horpibulsuk, S., Takaikaew, T., Horpibulsuk, J., and **Arulrajah, A.**, (2022). "Natural rubber latex modified concrete pavements: evaluation and design approach", *Journal of Materials in Civil Engineering*, Vol, 34, No. 9, Article No.04022215, pp. 1-13. **(Q1; IF = 3.2)**.
54. Suddeepong, A., Buritatum, A., Dasdawan, S., Horpibulsuk, S., Yaowarat, T., Hoy, M., and **Arulrajah, A.**, (2022). "Mechanical performance of porous asphalt concrete incorporating bottom ash as fine aggregate", *Journal of Materials in Civil Engineering*, Vol. 35, No. 6, Article No. 04023129, pp. 1-15. **(Q1; IF = 3.2)**.
55. Buritatum, A., Suddeepong, A., Horpibulsuk, S., Akkharawongwhatthana, K., Yaowarat, T., Hoy, M., Bunsong, C. and **Arulrajah, A.** (2022). "Improved performance of asphalt concretes using bottom ash as an alternative aggregate", *Sustainability,* Vol. 14, Article No. 7033, pp.1-23. **(Q2; IF = 3.9)**.
56. **Arulrajah, A.**, Perera, S., Wong, Y., Horpibulsuk, S. and Maghool, F. (2021). "Stabilization of PET plastic-demolition waste blends using fly ash and slag-based geopolymers for light traffic road bases/subases", *Construction & Building Materials*, Vol. 284, Article No. 122809, pp. 1-14. **(Q1; IF = 7.4)**.
57. **Arulrajah, A.**, Maghool, F., Yaghoubi, M., Phetchuay, C. and Horpibulsuk, S. (2021). "Temperature and duration impact on the strength development of geopolymerized granulated blast furnace slag for usage as a construction material", *Journal of Materials in Civil Engineering*, Vol. 33, No. 2, Article No. 04020474, pp. 1-10. **(Q1; IF = 3.2)**.
58. **Arulrajah, A.**, Ghorbani, B., Narsilio, G., Horpibulsuk, S. and Leong, M. (2021). "Thermal performance of geothermal pavements constructed with demolition wastes", *Geomechanics for Energy and the Environment*, Article No. 100253, pp. 1-11. **[ARC LP170100072] (Q1; IF = 5.1)**.
59. Baghban, H., **Arulrajah, A.**, Narsilio, G. and Horpibulsuk, S. (2021). "Evaluating the effective thermal conductivity of geothermal pavements constructed using demolition wastes by DEM and 3D printing techniques", *Acta Geotechnica*, Vol. 17, No. 5, pp. 1681-1697, DOI: 10.1007/s11440-021-01320-8. **[ARC LP170100072] (Q1; IF = 5.7)**.
60. Ghorbani, B., **Arulrajah, A.**, Narsilio, G., Horpibulsuk, S. and Bo, M.W. (2021). "Thermal and mechanical properties of demolition wastes by experimental and machine learning techniques", *Construction & Building Materials*, Vol. 280, Article No. 122499, pp. 1-12. **[ARC LP170100072] (Q1; IF = 7.4)**.
61. Ghorbani, B., **Arulrajah, A.**, Narsilio, G., Horpibulsuk, S. and Leong, M. (2021). "Resilient moduli of demolition wastes in geothermal pavements: experimental testing and ANFIS modelling", *Transportation Geotechnics*, Vol. 29, Article No. 100592, pp. 1-13. **[ARC LP170100072] (Q1; IF = 5.3)**.
62. Ghorbani, B., **Arulrajah, A.**, Narsilio, G., Horpibulsuk, S. and Bo, M.W. (2021). "Shakedown analysis of PET blends with demolition waste as pavement base/subbase materials using experimental and neural network methods", *Transportation Geotechnics*, Vol. 27, Article No. 100481, pp. 1-9. **[ARC LP170100072] (Q1; IF = 5.3)**.
63. Baghban, H., **Arulrajah, A.**, Narsilio, G. and Horpibulsuk, S. (2021). "DEM simulation of the thermo-geomechanical effect of recycled concrete aggregate assemblies in geothermal pavement bases", *Transportation Geotechnics*, Vol. 28, Article No. 100528, pp. 1-12. **[ARC LP170100072] (Q1; IF = 5.3)**.
64. Imteaz, M. and **Arulrajah, A.** (2021). "Removal of heavy metals from contaminated foundry sand through repeated soil-washing", *International Journal of Sustainable Engineering*, Vol. 14, No. 1, pp. 39-45. **(Q2; IF = 3.7)**.
65. Imteaz, M.A., **Arulrajah, A.** and Yilmaz, A.G. (2021). "Pollutant treatment efficiencies through rainwater tank, recycled foamed glass and geofabrics", *International Journal of Sustainable Engineering*, Vol. 14, No. 5, pp. 963-969, DOI: 10.1080/19397038.2020.1838660. (**Q2; IF = 3.7)**.
66. Zhang, Z., Wong, Y. and **Arulrajah, A.** (2021). "Feasibility of producing non-fired compressed masonry units from brick clay mill residues by alkali activation", *Journal of Cleaner Production*, Vol. 306, Article No. 126916, pp. 1-15. **(Q1; IF = 11.1)**.
67. Oskooei, P. Mohammadinia, A., **Arulrajah, A.** and Horpibulsuk, S. (2021). "Crushing behavior of recycled waste materials: Experimental analysis and DEM simulation", *Construction & Building Materials*, Vol. 299, Article No. 124226, pp. 1-11. **(Q1; IF = 7.4)**.
68. Naeini, M., Mohammadinia, A., **Arulrajah, A.** and Horpibulsuk, S. (2021). "Stress-dilatancy responses of recovered plastics and demolition waste blends as a construction material", *Construction & Building Materials*, Vol. 297, Article No. 123762, pp. 1-13. **(Q1; IF = 7.4)**.
69. Ghorbani, B., Yaghoubi, Y., **Arulrajah, A.** (2021). "Thermal and mechanical characteristics of recycled concrete aggregates mixed with plastic wastes: experimental investigation and mathematical modeling", *Acta Geotechnica*, Vol. 17, No. 7, pp. 3017-3032, DOI: 10.1007/s11440-021-01370-y. **(Q1; IF = 5.7).**

70. Naeini, M., Mohammadinia, A., **Arulrajah, A.** and Horpibulsuk, S. (2021). "Cyclic behavior of semi-rigid recovered plastic blends in railway track substructure", *Transportation Geotechnics,* Article No. 100514, pp. 1-13. **[ARC IC170100006] (Q1; IF = 5.3)**.
71. Oskooei, P. Mohammadinia, A., **Arulrajah, A.** and Horpibulsuk, S. (2021). "DEM modeling and experimental analysis of the breakage behavior of recycled crushed brick particles", *Transportation Geotechnics*, Article No. 100586, pp. 1-16. **[ARC IC170100006] (Q1; IF = 5.3)**.
72. Oskooei, P. Mohammadinia, A., **Arulrajah, A.** (2021). "Discrete element modeling of cemented recycled concrete aggregates under unconfined and k0 loading conditions", *Transportation Geotechnics*, Vol. 26, Article No. 100450, pp. 1-13. **[ARC IC170100006] (Q1; IF = 5.3)**.
73. Yaghoubi, E., Sudarsanan, N. and **Arulrajah, A.** (2021). "Stress-strain response analysis of demolition wastes as aggregate base course of pavements", *Transportation Geotechnics*, Article No. 100599, pp. 1-14. **(Q1; IF = 5.3)**.
74. Prabhakara, B., Balunaini, U. and **Arulrajah, A.** (2021). "Development of a unique test apparatus to conduct axial and transverse pullout testing on geogrid reinforcements", *Journal of Materials in Civil Engineering*, Vol 33, No. 1, Article No. 04020406, pp. 1-11. **(Q1; IF = 3.2)**.
75. Jallu, M., Saride, S., **Arulrajah, A.**, and Evans, R. (2021). "Effect of curing time on performance of fly ash geopolymer stabilized RAP bases", *Journal of Materials in Civil Engineering*, Article No. 04021001, pp. 1-10. **(Q1; IF = 3.2)**.
76. Lin, Y., Maghool, F., **Arulrajah, A.** and Horpibulsuk, S. (2021). "Engineering characteristics and environmental risks of utilizing recycled aluminum salt slag and recycled concrete as a sustainable geomaterial", *Sustainability,* Vol. 13, Article No. 10633, pp.1-18. **(Q2; IF = 3.9)**.
77. Yaghoubi, E., Disfani, M., **Arulrajah, A.** and Al-Taie, A. (2021). "A prediction model for the loading-wetting volumetric behavior of unsaturated granular materials", *Soils and Foundations*, Vol. 61, No. 3, pp. 623-641. **(Q1; IF = 3.7)**.
78. Imteaz, M., Mohammadinia, A. and **Arulrajah, A.** (2021). "Environmental suitability, carbon footprint and cost savings of recycled plastic for railway applications", *International Journal of Sustainable Engineering*, Vol. 14, No. 4, pp. 725-734. DOI 10.1080/19397038.2021.1929551. **(Q2; IF = 3.7)**.
79. Prabhakara, B., Balunaini, U., **Arulrajah, A.** and Evans, R. (2021). "Axial pullout resistance and interface direct shear strength properties of geogrids in pond ash", *International Journal of Geosynthetics and Ground Engineering*, Vol. 7, No. 2, pp. 1-14. **[Editor's Choice Paper] (Q2; IF = 2.9)**.
80. Naeini, M., Mohammadinia, A., **Arulrajah, A.** and Horpibulsuk, S. (2021). "Recycled glass blends with recycled concrete aggregates in sustainable railway geotechnics", *Sustainability,* Vol. 13, Article No. 2463, pp. 1-18. **[ARC IC170100006] (Q2; IF = 3.9)**.
81. Maghool, F., Senanayake, M., **Arulrajah, A.** and Horpibulsuk, S. (2021). "Permanent deformation and rutting resistance of demolition waste triple blends in unbound pavement applications", *Materials*, Vol. 14, No. 798, pp. 1-15. **(Q2; IF = 3.748)**.
82. Chung, L., Wong, Y. and **Arulrajah, A.** (2021). "The application of spent coffee grounds and tea wastes as additives in alkali-activated bricks", Waste and Biomass Valorization, doi: 10.1007/s12649-021-01453-7. **(Q2; IF = 3.2)**.
83. Sukprasert, S., Hoy, M., Horpibulsuk, S., **Arulrajah, A.**, Safuan, A. and Nazir R. (2021). "Fly ash based geopolymer stabilization of silty clay/blast furnace slag blends for subgrade applications", *Road Materials and Pavement Design*, Vol. 22, No. 2, pp. 357-371, 10.1080/14680629.2019.1621190. **(Q1; IF = 3.7)**.
84. Suksiripattanapong, C., Horpibulsuk, S., Yeanyong, C. and **Arulrajah, A.** (2021). "Evaluation of polyvinyl alcohol and high calcium fly ash based geopolymer for the improvement of soft Bangkok clay", *Transportation Geotechnics*, Vol. 22, Article No. 100476, pp. 1-12. **(Q1; IF = 5.3)**.
85. Takaikaew, T., Hoy, M., Horpibulsuk, S., **Arulrajah, A.**, Mohammadinia, A., Horpibulsuk, J. (2021). "Performance improvement of asphalt concretes using fiber reinforcement: laboratory and field studies", *Heliyon*, Vol. 7, e07015, pp. 1-12. **(Q1; IF = 4.0)**.
86. Liu, X., Zhou, A., Shen, S-L., Li, J. and **Arulrajah, A.** (2021). "Modelling unsaturated soil-structure interfacial behavior using DEM", *Computers and Geotechnics*, Article No. 104305, pp. 1-12. **(Q1; IF = 5.3)**.
87. Ngo, D., Horpibulsuk, S., Buritatun, A., Samingthong, W., **Arulrajah, A.** and Kulariyasup, W. (2021). "Hydraulic transmissivity of geocomposite concined with soils", *Measurement*, Vol. 175, Article No. 109106, pp. 1-8. **(Q1; IF = 5.6)**.
88. Motamedi, Y., Makasis, N., Gu, X., Narsilio, G., **Arulrajah, A.** and Horpibulsuk, S. (2021). "Investigating the thermal behaviour of geothermal pavements using thermal response test (TRT)", *Transportation Geotechnics*, Vol. 29, Article No. 100576, pp. 1-12. **(Q1; IF = 5.3)**.

89. Srijaroen, C., Hoy, M., Horpibulsuk, S., Rachan, R. and **Arulrajah, A.** (2021). "Soil-cement screw pile: alternative plie for low- and medium-rise buildings in soft Bangkok clay", *Journal of Construction Engineering and Management*, Article No. 04020173, pp. 1-13. **(Q1; IF = 5.1)**.

90. Sukmak, P., Sukmak, G., Horpibulsuk, S., Kassawat, S., Suddeepong, A. and **Arulrajah, A.** (2021). "Improved mechanical properties of cement stabilized soft clay using garnet residues and tire derived aggregates for subgrade applications", *Sustainability,* Vol. 13, Article No. 11692. **(Q2; IF = 3.9)**.

91. Sukmak, G., Sukmak, P., Horpibulsuk, S., Hoy, M. and **Arulrajah, A.** (2021). "Experimental and numerical investigations of the load bearing capacity of cohesive-frictional soils reinforced with full-wrap around geotextiles", *Applied Sciences*, Vol. 11, Article No. 2973, pp. 1-24, DOI: 10.3390/app11072973 **(Q2; IF = 2.7)**.

92. Udomchai, A., Hoy, M., Suddeepong, A., Phuangsombat, A., Horpibulsuk, S., **Arulrajah, A.** and Thanh, N. (2021). "Generalized interface shear strength equation for recycled materials reinforced with geogrids", *Sustainability*, Vol. 13, Article No. 9446, pp. 1-16. **(Q2; IF = 3.9)**.

93. Suddeepong, A., Hoy, M., Nuntasena, C. Horpibulsuk, S., Kantatham, K. and **Arulrajah, A.** (2021). "Evaluation of interface shear strength of natural kenaf geogrid and recycled concrete aggregate for sustainable pavement applications", *Journal of Natural Fibers*, pp. 1-18, DOI: 10.1080/15440478.2021.1904485. **(Q2; IF = 3.5)**.

94. Yaowarat, T., Suddeepong, A., Hoy, M., Horpibulsuk, S., Takaikaew, T., Vichitcholchai, N., **Arulrajah, A.**, and Chinkulkijniwat, A. (2021). "Improvement of flexural strength of concrete pavements using natural rubber latex", *Construction & Building Materials*, Vol. 282, Article No. 122704, pp. 1-11. **(Q1; IF = 7.4)**.

95. Ngo, D., Horpibulsuk, S., Suddeepong, Samingthong, W., Udomchai, A., Doncommul, P., **Arulrajah, A.** and Bo, M.W. (2021). "Full scale consolidation test on ultra-soft soil improved by prefabricated vertical drains in Mae Moh Mine, Thailand", *Geotextiles and Geomembranes,* Vol. 49, No. 1, pp. 72-80, DOI: 10.1016/j.geotexmem.2020.09.005. **(Q1; IF = 5.2)**.

96. Buritatum, A., Horpibulsuk, S., Udomchai, A., Sudeepong, A., Takaikaew, T., Horpibulsuk, J. and **Arulrajah, A.** (2021). "Durability improvement of cement stabilized pavement base using natural rubber latex", *Transportation Geotechnics*, Vol 28, Article No. 100518. **(Q1; IF = 5.3)**.

97. 24 authors including **Arulrajah, A.** (2021). "Geotechnical and Geoenvironmental Engineering Education During the Pandemic", *Environmental Geotechnics*. Vol. 8, No. 3, pp. 233-243. **(Q2; IF= 2.2)**.

98. **Arulrajah, A.**, Naeini, M., Mohammadinia, A., Horpibulsuk, S. and Leong, M. (2020). "Recovered plastic and demolition waste blends as railway capping materials", *Transportation Geotechnics*, Vol. 22, Article No. 100320, pp. 1-9. **[ARC IC170100006] (Q1; IF = 5.3)**.

99. **Arulrajah, A.**, Baghban, H., Narsilio, G., Horpibulsuk, S. and Leong, M. (2020). "Discrete element analysis of recycled concrete aggregate responses during repeated loading triaxial testing", *Transportation Geotechnics*, Vol. 23, Article No. 100356, pp. 1-11. **[ARC LP170100072] (Q1; IF = 5.3)**.

100. **Arulrajah, A.**, Maghool, F., Mohammadinia, A. and Mirzababaei, M. (2020). "Wheel tracker testing of recycled concrete and tyre aggregates in Australia", *Geotechnical Research,* Vol. 1, No. 1, pp. 49-57. ***Awarded the Telford Premium Prize 2021 by Institution of Civil Engineers, United Kingdom***. **(Q2; IF = 1.9)**.

101. Perera, S., **Arulrajah, A.**, Wong, Y., Horpibulsuk, S. and Maghool, F. (2020). "Evaluation of shear strength properties of unbound PET plastic in blends with demolition wastes", *Construction & Building Materials*, Vol. 262, Article No. 120545, pp. 1-11. **(Q1; IF = 7.4)**.

102. Yaghoubi, E., **Arulrajah, A.**, Yaghoubi, M. and Horpibulsuk, S. (2020). "Shear strength properties and stress-strain behaviour of waste foundry sand", *Construction & Building Materials*, Vol. 249, Article No. 118761, pp. 1-8. **[ARC IC170100006] (Q1; IF = 7.4)**.

103. Jallu, M., **Arulrajah, A.**, Saride, S. and Evans, R. (2020). "Flexural fatigue behaviour of fly ash geopolymer stabilized geogrid reinforced RAP bases", *Construction & Building Materials*, Vol 254, Article No. 119263, pp. 1-9. **[ARC IC170100006] (Q1; IF = 7.4)**.

104. Ghorbani, B., **Arulrajah, A.**, Narsilio, G. and Horpibulsuk, S. (2020). "Experimental investigation and modelling the deformation properties of demolition wastes subjected to freeze-thaw cycles using ANN and SVR", *Construction & Building Materials*, Vol. 258, Article No. 119688, pp. 1-11. **[ARC LP170100072] (Q1; IF = 7.4)**.

105. Maghool, F., **Arulrajah, A.**, Horpibulsuk, S., Mirzababaei, M. and Suksiripattanapong, C., (2020). "Interface shear strength properties of geogrid-reinforced steel slags using a large-scale direct shear testing apparatus", *Geotextiles and Geomembranes*, Vol. 48, pp. 625-633. **(Q1; IF = 5.2)**.

106. Ghorbani, B., **Arulrajah, A.**, Narsilio, G., Horpibulsuk, S. and Bo, M.W. (2020). "Dynamic characterization of recycled glass-recycled concrete blends using experimental analysis and ANN 15 odelling", *Soil Dynamics and Earthquake Engineering*, Vol. 142, Article No, 106544, pp. 1-14. **[ARC LP170100072] (Q1; IF = 4.0)**.

107. Mohammadinia, A., **Arulrajah, A.,** D'Amico, A. and Horpibulsuk, S. (2020). "Alkali activation of lime kiln dust and fly ash blends for the stabilization of demolition wastes", *Road Materials and Pavement Design*, Vol. 21, No. 6, pp. 1514-1528. DOI: 10.1080/14680629.2018.1555095. **(Q1; IF = 3.7)**.

108. Ghorbani, B., **Arulrajah, A.**, Narsilio, G. and Horpibulsuk, S. (2020). "Experimental and ANN analysis of temperature effects on the permanent deformation properties of demolition wastes", *Transportation Geotechnics*, Vol. 24, Article No. 100365, pp. 1-10, DOI: 10.1016/j.trgeo.2020.10036. **[ARC LP170100072] (Q1; IF = 5.3)**.

109. Ghorbani, B., **Arulrajah, A.**, Narsilio, G., Horpibulsuk, S. and Bo, M.W. (2020). "Hybrid formulation of resilient modulus for cohesive subgrade soils utilizing CPT test parameters", *Journal of Materials in Civil Engineering*, Vol. 32, No. 9, Article No. 06020011, pp. 1-6. **[ARC LP170100072] (Q1; IF = 3.2)**.

110. N. Sudarsanan, **Arulrajah, A.**, Rajagopal, K and Amrithalingam, V. (2020). "Fatigue performance of geosynthetic reinforced asphalt concrete beams", *Journal of Materials in Civil Engineering*, Vol. 32, No. 8, Article No. 04020206. **(Q1; IF = 3.2)**.

111. Ghorbani, B., **Arulrajah, A.**, Narsilio, G., Horpibulsuk, S. and Bo, M.W. (2020). "Development of genetic-based models for predicting the resilient modulus of cohesive pavement subgrade soils", *Soils and Foundations*, Vol. 60, pp. 398-412, DOI: 10.1016/j.sandf.2020.02.010. **[ARC LP170100072] (Q1; IF = 3.7)**.

112. Yaghoubi, M., **Arulrajah, A.**, Disfani, M.M., Horpibulsuk, S. and Leong, M. (2020). "Compressibility and strength development of geopolymer stabilized columns under stress", *Soils and Foundations*, DOI: 10.1016/j.sandf.2020.07.005. **[ARC LP150100043] (Q1; IF = 3.7)**.

113. Imteaz, M., **Arulrajah, A.**, Ahsan, A. and Maghool, F. (2020). "Environmental and geotechnical suitability of recycling waste materials from plasterboard manufacturing", *Waste Management and Research*, Vol 38, No. 4, pp. 383-391. **(Q1; IF = 3.9)**.

114. Yaowarat, T., Horpibulsuk, S., **Arulrajah, A.**, Maghool, F., Mirzababaei, M. and Rashid, A. (2020). "Cement stabilization of recycled concrete aggregate modified with polyvinyl alcohol", *International Journal of Pavement Engineering*, Vol. 23, No. 2, pp. 349-357. DOI: 10.1080/10298436.2020.1746311. **(Q1; IF = 3.8)**.

115. Mohammadinia, A., Naeini, M., **Arulrajah, A.**, Horpibulsuk, S., and Leong, M. (2020). "Shakedown analysis of recycled materials as railway capping layer under cyclic loading", *Soil Dynamics and Earthquake Engineering,* Vol. 139, Article No. 106423, pp. 1-12. **[ARC IC170100006]** (**Q1; IF = 4.0**).

116. Disfani, M.M., Mohammadinia, A., **Arulrajah, A.**, Horpibulsuk, S. and Leong, M. (2020). "Lightly Stabilized Loose Sands with Alkali-activated Fly ash in Deep Mixing Applications", *International Journal of Geomechanics*, Article No. 04021011, pp. 1-11. **[ARC LP150100043] (Q1; IF = 3.7)**.

117. Donrak, J., Horpibulsuk, S., **Arulrajah, A.**, Kou, H-L and Chinkulkijniwat, A. (2020). "Wetting-drying cycles durability of cement stabilized marginal lateritic soil/melamine debris blends for pavement applications", *Road Materials and Pavement Design*, Vol. 21, No. 2, pp. 500-518. **(Q1; IF = 3.7)**.

118. Wong, Y, Perera, S., Zhang, Z., **Arulrajah, A.** and Mohammadinia, A. (2020). "Field study on concrete footpath with recycled plastic and crushed glass as filler materials", *Construction & Building Materials*, Vol. 243, Article No. 118277, pp. 1-8. **[ARC IC170100006] (Q1; IF = 7.4)**.

119. Al-Taie, Disfani, M.M., Evans, R. and **Arulrajah, A.** (2020). "Effect of swell-shrink cycles on volumetric behaviour of compacted expansive clay stabilized using lime", *International Journal of Geomechanics*, Vol. 20, No. 11, Article No. 04020212, pp. 1-12. **(Q1; IF = 3.7)**.

120. Yaowarat, T., Sudsaynate, W., Horpibulsuk, S., Chinkulkijniwat, A., **Arulrajah, A.**, Horpibulsuk, J. (2020). "Mechanical properties of fly ahs-asphalt emulsion geopolymer stabilized crushed rock for sustainable pavement base", *Journal of Materials in Civil Engineering*, Vol. 33, No. 9. **(Q1; IF = 3.2)**.

121. Hasita, S., Rachan, R., Suddeepong, A., Horpibulsuk, S., **Arulrajah, A.** and Mohammadinia, A. (2020). "Performance improvement of asphalt concretes using steel slag as a replacement material", *Journal of Materials in Civil Engineering*, Vol. 32, No. 8, Article No. 04020227, pp. 1-10. **[IC170100006] (Q1; IF = 3.2)**.

122. Ngo, D., Horpibulsuk, S., Suddeepong, A., Hoy, M., Chinkulkijniwat, A., **Arulrajah, A.** and Chaiwan, A. (2020). "Compressibility of ultra-soft soil in the Mae Moh Mine, Thailand", *Engineering Geology,* Vol. 271, Article No. 105594, pp. 1-11. **(Q1; IF = 7.4)**.

123. Mohajerani, A, Kurmus, H., Tran, L., Arachchillegedar, C., Mirzababaei, M. and **Arulrajah, A.** (2020). "Clegg impact hammer: as equipment for evaluation of the strength characteristics of pavement materials, turf, natural and artificial playing surfaces: a review", *Road Materials and Pavement Design*, Vol. 21, No. 2, pp. 467-485 **(Q1; IF = 3.7)**.

124. Hasita, S., Hoy, M., Sudddeepong, A., Horpibulusk, S., Yeanyong, C., **Arulrajah, A.** and Mohammadinia, A. (2020). "Performance and toxic leaching evaluation of dense-graded asphalt concrete using steel slag as aggregate, *Journal of Materials in Civil Engineering*, Vol. 33, No. 1, Article No. 04020432, pp. 1-10. **(Q1; IF = 3.2)**.

125. Sukmak, P., Horpibulsuk, S., Sukmak, G., Kassawat, S., Kunchariyakun, K. and **Arulrajah, A.** (2020). "Strength and microstructure of clay geopolymer non-load bearing masonry units using fine-clay brick waste and palm oil fuel ash", *Journal of Materials in Civil Engineering*, Vol. 33, No. 8. **(Q1; IF = 3.2)**.

126. Sukmak, G., Sukmak, P., Horpibulsuk, S., Yaowarat, T., Kunchariyakun, K., Patarapaiboolchai, O. and **Arulrajah, A.** (2020). "Physical and mechanical properties of natural rubber modified cement paste", *Construction & Building Materials*, Vol. 244, Article No. 118319, pp. 1-10. **(Q1; IF = 7.4)**.

127. Buritatun, A., Takaikaew, T., Horpibulsuk, S., Udomchai, A., Hoy, M., Vichitcholchai, N., **Arulrajah, A.** (2020). "Mechanical strength improvement of cement stabilized soil using natural rubber latex for pavement base applications", *Journal of Materials in Civil Engineering*, Vol.32, No.12, pp. 04020372(1-10), DOI: 10.1061/(ASCE)MT.1943-5533.0003471. **(Q1; IF = 3.2)**.

128. Ngo, D., Horpibulsuk, S., Suddeepong, A., Hoy, M., Udomchai, A., Doncommul, P., Rachan, R. and **Arulrajah, A.** (2020). "Consolidation behavior of dredged ultra-soft soil improved with prefabricated vertical drain at the Mae Moh Mine, Thailand", *Geotextiles and Geomembranes,* Vol. 48, pp. 561-571. **(Q1; IF = 5.2)**.

129. Mohajerani, A., Burnett, L., Smith, J., Markovski, S., Rodwell,G., Rahman,M., Kurmus, H., Mirzababaei, M., **Arulrajah, A.**, Horpibulsuk, S. and Maghool, F. (2020). "Recycling waste rubber tyres in construction materials and associated environmental considerations: a review", *Resources, Conservation & Recycling*, Vol. 155, Article No. 104679, 1-17. **(Q1; IF = 13.2)**.

130. **Arulrajah, A.**, Perera, S., Wong, Y., Horpibulsuk, S. and Maghool, F. (2019). "Stiffness and flexural strength evaluation of cement stabilized PET blends with demolition wastes", *Construction & Building Materials*, Vol. 239, Article No. 117819, pp. 1-13. **(Q1; IF = 7.4)**.

131. **Arulrajah, A.**, Mohammadinia, A., Maghool, F. and Horpibulsuk, S. (2019). "Tyre derived aggregates and waste rock blends: resilient moduli characteristics", *Construction & Building Materials*, Vol. 201, pp. 207-217. **(Q1; IF = 7.4)**.

132. Yaghoubi, M., **Arulrajah, A.**, Disfani, M.M., Horpibulsuk, S., Darmawan, S. and Wang, J. (2019). "Impact of field conditions on the strength development of a geopolymer stabilized marine clay", *Applied Clay Science*, Vol. 167, pp. 33-42. DOI: 10.1016/j.clay.2018.10.005. **[ARC LP150100043] (Q1; IF = 5.6)**.

133. Mohammadinia, A., **Arulrajah, A.**, Phummiphan, Horpibulsuk, S. and Mirzababaei, M. (2019). "Flexural fatigue strength of demolition aggregates stabilized with alkali-activated calcium carbide residue", *Construction & Building Materials*, Vol. 199, pp. 115-123. **(Q1; IF = 7.4)**.

134. Mohammadinia, A., **Arulrajah, A.**, Horpibulsuk, S. and Shourijeh, P. (2019). "Impact of potassium cations on the light chemical stabilization of construction and demolition wastes", *Construction & Building Materials*, Vol. 203, pp. 69-74. **(Q1; IF = 7.4)**.

135. Perera, S., **Arulrajah, A.**, Wong, Y., Horpibulsuk, S. and Maghool, F. (2019). "Utilizing recycled PET blends with demolition wastes as construction materials", *Construction & Building Materials*, Vol. 221, pp. 200-209. **(Q1; IF = 7.4)**.

136. Mohammadinia, A., **Arulrajah, A.**, Disfani, M. and Darmawan, S. (2019). "Small strain behaviour of cement treated recycled concrete aggregate in pavement base layers", *Journal of Materials in Civil Engineering*, Vol. 31, No. 5, Article No. 04019044 **[ARC LP120100107] (Q1; IF = 3.2)**.

137. Maghool, F., **Arulrajah, A.**, Horpibulsuk, S. and Mohajerani, A. (2019). "Engineering and leachate characteristics of granulated blast furnace slag as a construction material", *Journal of Materials in Civil Engineering*, Vol. 32, No. 7, Article No. 04020153-1-10. **(Q1; IF = 3.2)**.

138. Maghool, F., **Arulrajah, A.**, Suksiripattanapong, C., Horpibulsuk, S. and Mohajerani, A. (2019). "Geotechnical properties of steel slag aggregates: shear strength and stiffness", *Soils and Foundations*, Vol. 59, pp. 1591-1601. **(Q1; IF = 3.7)**.

139. Mohammadinia, A., Wong, Y., **Arulrajah, A.** and Horpibulsuk, S. (2019). "Strength evaluation of utilizing recycled plastic waste and recycled crushed glass in concrete footpaths", *Construction & Building Materials*, Vol. 197, pp. 489-496. **(Q1; IF = 7.4)**.

140. Naeini, M., Mohammadinia, A., **Arulrajah, A.**, Horpibulsuk, S. and Leong, M. (2019). "Stiffness and strength characteristics of demolition wastes, glass and plastics in railway capping layers, *Soils and Foundations*, Vol. 59, No. 6, pp. 2238-2253. **[ARC IC170100006] (Q1; IF = 3.7)**.

141. Yaghoubi, E., Disfani, M., **Arulrajah, A.** and Kodikara, J. (2019). "Development of a void ratio-moisture-net stress framework for prediction if the volumetric behaviour of unsaturated granular materials, *Soils and Foundations*,Vol. 59, pp. 443-457. **(Q1; IF = 3.7)**.

142. Moe, K., Bo, M.W., **Arulrajah, A.**, Horpibulsuk, S. and Hoy, M. (2019). "Stiffness parameters from cone pressuremeter tests at Changi East, Singapore", *Ground Improvement*, 10.1680/jgrim.19.00021. **(Q2; IF = 1.2)**.

143. Xie, Z-F., Shen, S.L., **Arulrajah, A**. and Horpibulsuk, S. (2019). "Environmentally sustainable groundwater control during dewatering with barriers: a case study in Shanghai", *Underground Space*, Vol. 6, pp. 12-23. DOI: 10.1016/j.undsp.2019.10.005. **(Q1; IF = 6.4)**.

144. Chaidachatorn, K., Suebsuk, J., Horpibulsuk, S. and **Arulrajah, A.** (2019). "Extended water/cement ratio law for cement mortar containing recycled asphalt pavement", *Construction & Building Materials*, Vol. 196, pp. 457-467. **(Q1; IF = 7.4)**.

145. Zhang, N., Shen, J.S-L., Lin, C., **Arulrajah, A.** and Chai, J-C. (2019). "Investigation on the large ground collapse and countermeasures during mountain tunnelling in Hangzhou: a case study", *Bulletin of Engineering Geology and the Environment*, Vol. 78, pp. 991-1003. **(Q1; IF = 4.2)**.

146. Al-Taie, Disfani, M.M., Evans, R., **Arulrajah, A.** and Horpibulsuk, S. (2019). "Collapse and swell of lime stabilized expansive clays in void ratio-mixture ratio-net stress space", *International Journal of Geomechanics*, Vol. 19, No. 9, Article No. 04019105. **(Q1; IF = 3.7)**.

147. Al-Taie, Disfani, M.M., Evans, R., **Arulrajah, A.** and Horpibulsuk, S. (2019). "Volumetric Behavior and Soil Water Characteristic Curve of Untreated and Lime Stabilized Reactive Clay", *International Journal of Geomechanics*, Vol. 19, No. 2, Article No. 04018192. **(Q1; IF = 3.7)**.

148. Suksiripattanapong, C., Horpibulsuk, S., Udomchai, A., **Arulrajah, A.**, Tangsutthinon, T. (2019). "Pullout resistance mechanism of bearing reinforcement embedded in coarse-grained soils: laboratory and field investigations", *Transportation Geotechnics*, Vol. 22, Article No. 100297, pp. 1-13. **(Q1; IF = 5.3)**.

149. Mohammadinia, A., Disfani, M., Connoly, D., **Arulrajah, A.**, Horpibulsuk, S. and Darmawan, S. (2019). "Utilization of alkali-activated fly ash for construction of deep mixed columns in loose sands", *Journal of Materials in Civil Engineering*, Vol. 31, No. 10, Article No. 04019233. **[ARC LP150100043] (Q1; IF = 3.2)**.

150. Mehdizadeh, A., Disfani, M.M, Evans, R. and **Arulrajah, A.** (2019). "Influence of Suffusion on Cyclic Resistance and Post-cyclic Behaviour of a Gap-graded Cohesionless Soil", *Geotechnique Letters*, Vol. 9, No. 3, pp. 1-7. **(Q1; IF = 2.1)**.

151. Mohajerani, A., Hui, S-Q., Mirzababaei, M., **Arulrajah, A.**, Horpibulsuk, S., Kadir, A., Rahman, M. and Maghool, F. (2019). "Amazing types, properties and applications of fibres in construction materials", *Materials*, Vol. 12, Article No. 2513. **(Q2; IF = 3.4)**.

152. Donrak, J., Horpibulsuk, S., Hoy, M., **Arulrajah, A.**, Mirzababaei, M., Safuan, A. (2019). "Environmental assessment of cement stabilized marginal lateritic soil/melamine debris blends for pavement applications", *Environmental Geotechnics*. DOI: 10.1680/jenge.18.00195. **(Q2; IF = 2.2)**.

153. Chanjutturas, K., Hoy, M., Horpibulsuk, S., **Arulrajah, A**. and Rashid, A. (2019). "Solidification and stabilization of metal plating sludge with fly ash geopolymers", *Environmental Geotechnics*, DOI: 10.1680/jenge.19.00050. **(Q2; IF = 2.2)**.

154. Cheng, W-C., Wu, H-L., Shen, S-L., Lin, M-Y. and **Arulrajah, A.**, (2019). Variation of hydro-environment during past four decades with underground sponge city planning to control of flash flooding in Wuhan, China: An Overview, *Tunnelling and Underground Space Technology*, Vol. 5, No. 2, pp. 184-198. **(Q1; IF = 6.9)**.

155. Marzieh, K., Shourijeh, P., Binesh, S., Mohammadinia, A. and **Arulrajah, A.** (2019). "Utilization of recycled concrete aggregates for light-stabilization of clay soils", *Construction & Building Materials*, Vol. 227, Article No. 116792, pp. 1-11. **(Q1; IF = 7.4)**.

156. Poltue, T., Sudeepong, A., Horpibulsuk, S., Samingthong, W. and **Arulrajah, A.** (2019). "Strength development of recycled concrete aggregate stabilized with fly ash-rice husk ash based geopolymer as pavement base material", *Road Materials and Pavement Design*, Vol. 21, No. 8, pp. 2344-2355. DOI: 10.1080/14680629.2019.1593884. **(Q1; IF = 3.7)**.

157. Sudla, P., Donrak, J., Hoy, M, Horpibulsuk, S., **Arulrajah, A.**, Rashid. A, Nazir, R. Samingthng, W. (2019). "Laboratory Investigation of Cement Stabilized Marginal Lateritic Soil by Crushed Slag/Fly Ash Replacement for Pavement Applications", *Journal of Materials in Civil Engineering*, Vol. 32, No. 2, Article No. 04019353 **(Q1; IF = 3.2)**.

158. Hasita, S., Suddeepong, A., Horpibulsuk, S., Samingthong, W., **Arulrajah, A.** and Chinkulkijniwat, A. (2019). "Properties of asphalt concrete using aggregates comprising of limestone and steel slag blends", *Journal of Materials in Civil Engineering*, Vol. 32, No. 7, Article No. 06020007 **(Q1; IF = 3.2)**.

159. Sukmak, G., Sukmak, P., Joongklang, A., Udomchai, A., **Arulrajah, A.** and Yeanyong, C. (2019). "Predicting pullout resistance of bearing reinforcement embedded in cohesive-frictional soils", Article No. 04019379, pp. 1-9. *Journal of Materials in Civil Engineering*, Vol. 32, No. 3, Article No. 04019379 **(Q1; IF = 3.2)**.

160. Mohajerani, A., Suter, D., Jeffrey-Bailey, T., Song, T., **Arulrajah, A.**, Horpibulsuk, S. Law, D. (2019). "Recycling waste materials in geopolymer concrete", *Clean Technologies and Environmental Policy,* Vol. 21, No. 3, pp. 493-515. DOI: 10.1007/s10098-018-01660-2 **(Q2; IF = 4.3)**.

161. Xia, W-Y., Du, Y.J., Li, F.-S., Li, C-P., Yan, X.-L., **Arulrajah, A.**, Wang, F., Song, D.-J. (2019). "In-situ solidification/stabilization of heavy metals contaminated site soil using a dry jet mixing method and new hydroxyapatite based binder", *Journal of Hazardous Materials*, Vol. 369, pp. 257-267 **(Q1; IF = 13.6)**.

162. Cheng, W-C., Wang, L., Xue, Z-F., Ni, J., Rahman, M. and **Arulrajah, A.** (2019). "Lubrication performance of pipejacking in soft alluvial deposits", *Tunnelling and Underground Space Technology*, Vol. 91, Article No. 102991. **(Q1; IF = 6.9)**.

163. Suebsuk, J., Horpibulsuk, S., Suksan, A., Suksiripattanapong, C., Phoo-ngernkham, T. and **Arulrajah A.** (2019). "Strength prediction of cement stabilised reclaimed asphalt pavement and lateritic soil blends", *International Journal of Pavement Engineering*, Vol. 20, No. 3, pp. 332-338. **(Q1; IF = 3.8)**.

164. Sukmak, P., Sukmak, G, Horpibulsuk, S., Setkit, M., Kassawat, S. and **Arulrajah, A.** (2019). "Palm oil fuel ash-soft soil geopolymer for subgrade applications: mechanical and microstructural evaluation", *Road Materials and Pavement Design*, Vol. 20, No.1, DOI: 10.1080/14680629.2017.1375967. **(Q1; IF = 3.7)**.

165. Sukmak, P., Kunchariyakun, K., Sukmak, G., Horpibulsuk, S., Kassawat, S., **Arulrajah, A.** (2019). "Strength and microstructure of palm oil fuel ash-fly ash soft soil geopolymer masonry units", *Journal of Materials in Civil Engineering*, Vol. 31, No. 8, Article No 04019164, pp. 1-13. **(Q1; IF = 3.2)**.

166. Mohajerani, A., Burnett, L., Smith, J., Kurmus, H., Milas, J., **Arulrajah, A.**, Horpibulsuk, S. and Kadir, A. (2019). "Nanoparticles in construction materials and other applications and implications of nanoparticle use", *Materials*, Vol. 12, Article No. 3052. **(Q2; IF = 3.4)**.

167. Xia, W-Y., Du, Y.J., Li, F.-S., Guo, G.-L., Yan, X.-L., Li, C-P., **Arulrajah, A.**, Wang, F., Wang, S. (2019). "Field evaluation of a new hydroxyapatite based binder for ex-situ solidification/stabilization of a heavy metal contaminated site soil around a Pb-Zn smelter", *Construction & Building Materials*, Vol. 210, pp. 278-288. **(Q1; IF = 7.4)**.

168. **Arulrajah, A.**, Imteaz, M., Horpibulsuk, S., Du, Y.J. and Shen, S.L. (2018). "Recycled concrete aggregate/municipal glass blends as a low-carbon resource material for footpaths", *Road Materials and Pavement Design*, Vol. 19, No. 3, pp. 727-740. **(Q1; IF = 3.7)**.

169. **Arulrajah, A.**, Yaghoubi, M., Disfani, M.M., Horpibulsuk, S., Bo, M.W. and Leong, M. (2018). "Evaluation of fly ash and slag based geopolymers for the improvement of a soft marine clay by deep soil mixing", *Soils and Foundations*, Vol. 58, pp. 1358-1370. **[ARC LP150100043] (Q1; IF = 3.7).**

170. **Arulrajah, A.**, Maghool, F., Horpibulsuk, S., Bo, M.W. and Shen, S-L. (2018). "Laboratory evaluation of biosolids stabilized with demolition wastes as an embankment fill material", *Lowland Technology Intl.*, Vol. 20, No. 2, pp. 155-160. **(Q3)**.

171. Mohammadinia, A., **Arulrajah, A.**, D'Amico, A. and Horpibulsuk, S. (2018). "Alkali-activation of fly ash and cement kiln dust mixtures for stabilization of demolition aggregates", *Construction & Building Materials*, Vol. 186, pp. 71-78. **(Q1; IF = 7.4)**.

172. Mirzababaei, M., **Arulrajah, A.**, Horpibulsuk, S., Khayat, N and Soltani, A. (2018). "Stabilization of soft clay using short fibers and poly vinyl alcohol", *Geotextiles and Geomembranes,* Vol. 46, pp. 646-655. **(Q1; IF = 5.2)**.

173. Mirzababaei, M., **Arulrajah, A.**, Haque, H., Nimbalkar, S. and Mohajerani, A. (2018). "Effect of fiber reinforcement on shear strength and void ratio of soft clay", *Geosynthetics International*, Vol. 25, No. 4, pp. 471-480. DOI: 10.1680/jgein.18.00023. **(Q1; IF = 4.5)**.

174. Sudarsanan, N., **Arulrajah, A.**, Karpurapu, R and Amrithalingam, V. (2018). "Digital image correlation technique for measurement of crack propagation in reinforced asphalt concrete beams under fatigue loading", *Journal of Materials in Civil Engineering*, Vol. 31, No. 8. DOI: 10.1061/(ASCE)MT.1943-5533.0002743 **(Q1; IF = 3.2)**.

175. Yaghoubi, M., **Arulrajah, A.**, Disfani, M.M., Horpibulsuk, S., Bo, M.W. and Darmawan, S. (2018). "Effects of industrial by-product based geopolymers on the strength development of a soft soil", *Soils and Foundations*, Vol. 58, pp. 716-728. **[ARC LP150100043] (Q1; IF = 3.7)**.

176. Imteaz, M., **Arulrajah, A.**, Horpibulsuk, S. and Ahsan, A. (2018). "Environmental suitability and carbon footprint savings of recycled tyre crumbs for road applications", *International Journal of Environmental Research*, Vol. 12, No. 5, pp. 693-702. **(Q2; IF = 3.2)**.

177. Bo, M.W., **Arulrajah, A.**, Choa, V. and Horpibulsuk, S. (2018). "Research oriented ground improvement projects in Changi, Singapore", *Lowland Technology International*, Vol. 20, No. 2, pp. 141-154. **(Q3)**.

178. Zhang, Z., Wong, Y., **Arulrajah, A.** and Horpibulsuk, S. (2018). "A review of studies on bricks using alternative materials and approaches", *Construction & Building Materials*, Vol. 188, pp. 1101-1118. **(Q1; IF = 7.4)**.

179. Ren, D-J., Shen, S-L, **Arulrajah, A.** and Cheng, J. (2018). "Prediction model of TBM disc cutter wear during tunnelling in heterogeneous ground", *Rock Mechanics and Rock Engineering*, Vol. 51, No. 11, pp. 3599-3611. 10.1007/s00603-018-1549-3. **(Q1; IF = 6.2)**.

180. Yaghoubi, E., Disfani, M., **Arulrajah, A.** and Kodikara, J. (2018). "Impact of Compaction Method on Mechanical Characteristics of Unbound Granular Recycled Materials", *Road Materials and Pavement Design*, Vol. 19, No. 4, pp. 912-934. **(Q1; IF = 3.7)**.

181. Yaowarat, T., Horpibulsuk, S., **Arulrajah, A.**, Mirzababaei, M. and Rashid, A.S.A. (2018). "Compressive and flexural strength of polyvinyl alcohol modified pavement concrete using recycled concrete aggregates", *Journal of Materials in Civil Engineering*, Vol. 30, No. 4, Article No. 04018046, pp. 1-8. **(Q1; IF = 3.2)**.

182. Hoy, M., Horpibulsuk, S., **Arulrajah, A.** and Mohajerani, A. (2018). "Strength and microstructural study of recycled asphalt pavement-slag geopolymer as a pavement base material", *Journal of Materials in Civil Engineering*, Vol. 30, No. 8, Article No. 04018177. **(Q1; IF = 3.2)**.

183. Yaowarat, T., Horpibulsuk, S., **Arulrajah, A.**, Mohammadinia, A. and Chinkulkijniwat, A. (2018). "Recycled concrete aggregate modified with polyvinyl alcohol and fly ash for concrete pavement applications", *Journal of Materials in Civil Engineering*, Vol. 31, No. 7, Article No. 04019103. **(Q1; IF = 3.2)**.

184. Kua, T-A., Imteaz, M., **Arulrajah, A.** and Horpibulsuk, S. (2018). "Environmental and economic viability of Alkali Activated Material (AAM) comprising slag, fly ash and spent coffee ground", *International Journal of Sustainable Engineering*, Vol. 12, No. 4, pp. 223-232, DOI: 10.1080/19397038.2018.1492043. **(Q1; IF = 3.7**).

185. Lyu, H-M., Shen, J. and **Arulrajah, A.** (2018). "Assessment of geohazards and preventative countermeasures using AHP incorporated with GIS in Lanzhou, China", *Sustainability*, Vol. 10, No. 2, Article 304, pp. 1-21. **(Q2; IF = 3.9)**.

186. Yuan, Y., Xu, Y-S, **Arulrajah, A.** and Yuan, D. (2018). "Ground Response due to Construction of Shallow Pipe-jacked Tunnels in Sandy soil: Laboratory investigation", *Journal of Testing and Evaluation*, Vol. 48, No. 5, Article No.. JTE20170217 **(Q3)**.

187. Phummiphan, I., Horpibulsuk, S., Rachan, R., **Arulrajah, A.**, Shen, S-L., Chindaprasirt, P. (2018). "High calcium fly ash geopolymer stabilized lateritic soil and granulated blast furnace slag blends as a pavement base material, *Journal of Hazardous Materials*, Vol. 341, pp. 257-267 **(Q1; IF = 13.6)**.

188. Lyu, H-M, Shen, J., Sun, W-J and **Arulrajah, A.** (2018). "Flood risk assessment in metro systems in mega-cities using AHP and I-AHP incorporated into GIS: a comparative study", *Science of the Total Environment*, Vol. 626, pp. 1012-1025. **(Q1; IF = 9.8)**.

189. Zhang, N., Shen, J., Zhou, A. and **Arulrajah, A.** (2018). "Tunnelling induced geohazards in mylonitic rock faults with rich groundwater: a case study in Guangzhou", *Tunnelling and Underground Space Technology*, Vol 74, pp. 262-272. **(Q1; IF = 6.9)**.

190. Afshar, T., Disfani, M.M., Narsilio, G. and **Arulrajah, A.** (2018). "Post-breakage changes in particle properties using synchrotron tomography", *Powder Technology*, Vol. 325, pp. 530-544. **(Q1; IF = 5.2)**.

191. Jia, R., Lei, H., Hino, T. and **Arulrajah, A.** (2018). "Environmental changes in Ariake Sea of Japan ant their relationships with Isahaya Bay reclamation", *Marine Pollution Bulletin*, Vol. 135, pp. 832-844. **(Q1; IF = 7.001)**.

192. Al-Taie, Disfani, M.M., Evans, R., **Arulrajah, A.** and Horpibulsuk, S. (2018). "Impact of curing on behaviour of basaltic expansive clay", *Road Materials and Pavement Design*, Vol. 19, No. 3, pp. 624-654. **(Q1; IF = 3.7)**.

193. Wang, Z-N., Chen, J., Cheng, W-C, **Arulrajah, A.** and Horpibulsuk, S. (2018). "Investigation into the tempo-spatial distribution of recent fire hazards in China", *Natural Hazards*, Vol. 92, pp. 1889-1907. (**Q1; IF = 3.7)**.

194. Sudla, P., Horpibulsuk, S., Chinkulkijniwat, A., **Arulrajah, A.**, Liu, M. and Hoy, M. (2018). "Marginal lateritic soil/crushed slag blends as an engineering fill material", *Soils and Foundations*, Vol. 58, pp. 786-795. **(Q1; IF = 3.7)**.

195. Lyu, H-M, Shen, J., Cheng, W-C and **Arulrajah, A.** (2018). "Investigation of Collapsed Building Incidents on Soft Marine Deposit: Both from Social and Technical Perspectives", *Land,* Vol 7, No. 20, pp. 1-12. **(Q2; IF = 3.9)**.

196. Njock, P., Chen, J. Modoni, G., **Arulrajah, A.** and Kim, Y-H. (2018). "A review of jet grouting practice and development", *Arabian Journal of Geosciences*, Vol. 43, pp. 1543-1560. **(Q2; IF = 1.95)**.

197. Xu, Y-S., Shen, J., Zhou, A-N. and **Arulrajah, A.** (2018). "Geological and hydrogeological environment with geohazards during undergraound construction in Hangzhou: a review", *Arabian Journal of Geosciences*, Vol. 11: 544, pp. 1-18. **(Q2; IF = 1.95)**.

198. Lyu, H-M., Xu, Y-S., Cheng, W-C. and **Arulrajah, A.** (2018). "Flooding hazards across Southern China and and prospective sustainability measures", *Sustainability*, Vol. 10, Paper no. 1682. **(Q2; IF = 3.9)**.

199. Elbaz, K., Shen, S-L, Cheng, W-C and **Arulrajah, A.** (2018). "Cutter-disc consumption during earth-pressure-balance tunnelling in a mixed strata", *Proceedings of the Institution of Civil Engineers-Geotechnical Engineering*, Vol. 171, No. 4, pp. 363-376. **(Q2; IF = 2.2)**.

200. Meng, W., Xu, Y, Cheng, W.C., **Arulrajah, A.** (2018). "Landslide event on June 24 in Sichuan Province, China: preliminary investigation and analysis", *Geosciences,* Vol. 8, No. 2, Article 39, pp. 2-11. **(Q2; IF = 2.7)**.

201. Udomchai, A., Hoy, M., Horpibulsuk, S., Chinkulkijniwat, A. and **Arulrajah, A.** (2018). "Failure of riverbank protection structure and remedial approach: a case study in Suraburi province, Thailand", *Engineering Failure Analysis*, Vol. 91, pp. 243-254. **(Q1; IF = 4.0)**.

202. Suddeepong, A., Sari, N, Horpibulsuk, S., Chinkulkijniwat, A., **Arulrajah, A.** (2018). "Interface shear behaviours between recycled concrete aggregate and geogrids for pavement applications", *International Journal of Pavement Engineering*, Vol. 21, No. 2, pp. 228-235. **(Q1; IF = 3.8)**.

203. Suddeepong, A., Intra, A., Horpibulsuk, S., Suksiripattanapong, C., **Arulrajah, A.** and Shen, S-L. (2018). "Durability against wetting-drying cycles for cement-stabilized reclaimed asphalt pavement blended with crushed rock", *Soils and Foundations*, Vol. 58, No. 2, pp. 333-343. **(Q1; IF = 3.7)**.

204. Ren, D., Xu, Y., Shen, J., Zhou, A. and **Arulrajah, A.** (2018). "Prediction of ground deformation during pipe-jacking considering multiple factors", *Applied Sciences*, Vol. 8, DOI:10.3390/app8071051. **(Q2; IF = 2.7)**.

205. Takaikaew, T, Tepsriha, P., Horpibulsuk, S., Hoy, M., Kaloush, K. and **Arulrajah, A.** (2018). "Performance of fiber-reinforced asphalt concretes with various asphalt binders in Thailand", *Journal of Materials in Civil Engineering,* Vol. 30, No. 8, Article No. 04018193, pp. 1-11. **(Q1; IF = 3.2)**.

206. **Arulrajah, A.**, Kua, T.A., Suksiripattanapong, C., Horpibulsuk, S. and Shen, S.L. (2017). "Compressive strength and microstructural properties of spent coffee grounds-bagasse ash based geopolymers with slag supplements", *Journal of Cleaner Production*, Vol. 162, pp. 1491-1501. **(Q1; IF = 11.1)**.

207. **Arulrajah, A.**, Kua, T.A., Horpibulsuk, S., Mirzababaei, M. and Chinkulkijniwat, A. (2017). "Recycled glass as a supplementary filler material in spent coffee grounds geopolymers", *Construction & Building Materials*, Vol. 151, pp. 18-27. **(Q1; IF = 7.4)**.

208. **Arulrajah, A.,** Mohammadinia, A., D'Amico, A. and Horpibulsuk, S. (2017). "Effect of lime kiln dust as an alternative binder in the stabilization of construction and demolition materials", *Construction & Building Materials*, Vol. 152, pp. 999-1007. **(Q1; IF = 7.4)**.

209. **Arulrajah, A.,** Mohammadinia, A., D'Amico, A. and Horpibulsuk, S. (2017). "Cement kiln dust and fly ash blends as an alternative binder for the stabilization of demolition aggregates", *Construction & Building Materials*, Vol. 145, pp. 218-225. **(Q1; IF = 7.4)**.

210. **Arulrajah, A.**, Yaghoubi, E., Wong, Y. and Horpibulsuk, S. (2017). "Recycled plastic granules and demolition wastes as construction materials: resilient moduli and strength characteristics", *Construction & Building Materials*, Vol. 147, pp. 639-647. **(Q1; IF = 7.4)**.

211. **Arulrajah, A.**, Kua, T.A., Suksiripattanapong, C., Horpibulsuk, S. (2017). "Stiffness and strength properties of spent coffee grounds-recycled glass geopolymers", *Road Materials and Pavement Design*, Vol. 20, No. 3, pp. 623-638. **(Q1; IF = 3.7)**.

212. Mohammadinia, A., **Arulrajah, A.**, Horpibulsuk, S. and Chinkulkijniwat, A. (2017). "Effect of fly ash on properties of crushed brick and reclaimed asphalt in pavement base/subbase applications", *Journal of Hazardous Materials*, Vol. 321, pp. 547-556. **[ARC LP120100107] (Q1; IF = 13.6)**.

213. Mohammadinia, A., **Arulrajah, A.**, Haghighi, H. and Horpibulsuk, S. (2017). "Effect of lime stabilization on the mechanical and micro-scale properties of recycled demolition materials", *Sustainable Cities and Society*, Vol. 30, pp. 58-65. **[ARC LP120100107] (Q1; IF = 11.7)**.

214. Kua, T-A., **Arulrajah, A.**, Mohammadinia, A., Horpibulsuk, S. and Mirzababaei, M (2017). "Stiffness and deformation properties of spent coffee grounds based geopolymers", *Construction & Building Materials*, Vol. 138, pp. 79-87. **(Q1; IF = 7.4)**.

215. Mirzababaei, M., **Arulrajah, A.**, Horpibulsuk, S. and Aldava, M. (2017). "Shear strength of a fibre-reinforced clay at large shear displacement when subjected to different stress histories", *Geotextiles and Geomembranes*, Vol. 45, pp. 422-429. **(Q1; IF = 5.2)**.

216. Haghighi, H, **Arulrajah, A.**, Mohammadinia, A. and Horpibulsuk, S. (2018). "A new approach for determining resilient moduli of marginal pavement base materials using the staged repeated load CBR test method", *Road Materials and Pavement Design*, Vol. 19, No. 8, DOI: 10.1080/14680629.2017.1352532. **(Q1; IF = 3.7)**.

217. Maghool, F., **Arulrajah, A.**, Horpibulsuk, S. and Du, Y-J. (2017). "Laboratory evaluation of ladle furnace slag in unbound pavement base/subbase applications", *Journal of Materials in Civil Engineering,* Vol. 29, No. 2, Article No. 04016197, pp. 1-9. **(Q1; IF = 3.2)**.

218. Yaghoubi, E., **Arulrajah, A.**, Wong, Y. and Horpibulsuk, S. (2017). "Stiffness properties of recycled concrete aggregate/polyethylene plastic granules in unbound pavement applications", *Journal of Materials in Civil Engineering*, Vol. 24, No. 4, Article No. 04016271, pp. 1-7. **(Q1; IF = 3.2)**.

219. Klaas, D., Imteaz, M. and **Arulrajah, A.** (2017). "Development of groundwater vulnerability zones in a data-scarce eogenetic karst area using Head-Guided Zonation and particle-tracking simulation methods", *Water Research*, Vol. 122, pp. 17-26. **(Q1; IF = 12.8)**.

220. Cheng, W-C., Ni, J.C., **Arulrajah, A.**, Huang, H-W. and Shen, J. S-L. (2017). "A simple approach for characterising tunnel bore conditions based upon pipe-jacking data", *Tunnelling and Underground Space Technology*, Vol. 71, pp. 494-504. **(Q1; IF = 6.9)**.

221. Suksiripattanapong, C., Kua, T-A, **Arulrajah, A.**, Maghool, F. and Horpibulsuk, S. (2017). "Strength and microstructure properties of spent coffee grounds stabilized with rice husk ash and slag geopolymers", *Construction & Building Materials*, Vol. 146, pp. 312-320. **(Q1; IF = 7.4)**.

222. Afshar, T., Disfani, M.M., **Arulrajah, A.**, Narsilio, G.A., and Emam, S. (2017). "Impact of particle shape on breakage of recycled construction and demolition aggregates", *Powder Technology*, Vol. 308, pp. 1-12. **(Q1; IF = 5.2)**.

223. Mirzababaei, M., Mohamed, M., **Arulrajah, A.**, Horpibulsuk, S. and Anggraini, V. (2017). "Practical approach to predict the shear strength of fibre-reinforced clay", *Geosynthetics International*, Vol. 25, No. 1, pp. 50-66. **(Q1; IF = 4.5)**.

224. Ren, D-J., Shen, J. S., **Arulrajah, A.** (2017). "Evaluation of ground loss ratio with moving trajectories induced in DOT tunnelling", *Canadian Geotechnical Journal*, Vol. 55, No. 6, pp. 894-902.). **(Q1; IF = 3.6)**.

225. Yaghoubi, E., Disfani, M., **Arulrajah, A.** and Kodikara, J. (2018). "Impact of Compaction Method on Mechanical Characteristics of Unbound Granular Recycled Materials", *Road Materials and Pavement Design*, Vol. 19, No. 4, DOI: 10.1080/14680629.2017.1283354. **(Q1; IF = 3.7)**.

226. Disfani, M., Tsang, H-H., **Arulrajah, A.** and Yaghoubi, E. (2017). "Shear and compression characteristics of recycled glass-tire mixtures", *Journal of Materials in Civil Engineering*, Vol. 29, No. 6, Article No. 06017003. **(Q1; IF = 3.2)**.

227. Yuan, Y., Xu, Y-S. and **Arulrajah, A.** (2017). "Sustainable measures for mitigation of flooding hazards: a case study in Shanghai, China", *Water*, Vol. 9, No. 310, pp. 1-16. **(Q2; IF = 3.4)**.

228. Imteaz, M., Altheeb, N., **Arulrajah, A.**, Horpibulsuk, S. and Ahsan, A. (2017). "Environmental benefits and recycling options for wood chips from furniture industries", *Proceedings of the Institution of Civil Engineers-Waste and Resource Management*, Vol. 170, No. 2, pp. 85-91. **(Q4)**.

229. Phummiphan, I., Horpibulsuk, S., Rachan, R., **Arulrajah, A.**, Shen, S-L., Chindaprasirt, P. (2017). "High calcium fly ash geopolymer stabilized lateritic soil and granulated blast furnace slag blends as a pavement base material, *Journal of Hazardous Materials*, Vol. 341, pp. 257-267. DOI: 10.1016/j.jhazmat.2017.07.067. **(Q1; IF = 13.6)**.

230. Hoy, M., Rachan, R., Horpibulsuk, S., **Arulrajah, A.** and Mirzababaei, M. (2017). "Effect of wetting-drying cycles on compressive strength and microstructure of recycled asphalt pavement-fly ash geopolymer", *Construction & Building Materials*, Vol. 144, pp. 624-634. **(Q1; IF = 7.4)**.

231. Afshar, T., Disfani, M.M., Narsilio, G. and **Arulrajah, A.** (2017). "Post-breakage changes in particle properties using synchrotron tomography", *Powder Technology*, Vol. 325, pp. 530-544. **(Q1; IF = 5.2)**.

232. Mehdizadeh, A., Disfani, M., Evans, R., and **Arulrajah, A.** (2017). "Progressive Internal Erosion in a gap-graded internally unstable soil - Mechanical and Geometrical Effects", *International Journal of Geomechanics,* Vol. 18, No. 3, Article No. 04017160. **(Q1; IF= 3.7)**.

233. Al-Taie, Disfani, M.M., Evans, R., **Arulrajah, A.** and Horpibulsuk, H. (2018). "Impact of curing on behaviour of basaltic expansive clay", *Road Materials and Pavement Design*, Vol. 19, No. 3, DOI: 10.1080/14680629.2016.1267660. **(Q1; IF = 3.7)**.
234. Du, Y-J., Zhou, M., Wang, F., **Arulrajah, A.** and Horpibulsuk, S. (2017). "Earth pressures on the trenched HDPE pipes in fine-grained soils during construction phase: full-scale field trial and finite element modelling", *Transportation Geotechnics*, Vol. 12, pp. 56-69. **(Q1; IF = 5.3)**.
235. Zhao, X-H., Cheng, W-C., Shen, S-L., **Arulrajah, A.** (2017). "Platform collapse incident of a power plant in Jiangxi, China", *Natural Hazards*, Vol. 87, pp. 1259-1265. (**Q1; IF = 3.7)**.
236. Phummiphan, I., Horpibulsuk, S., Phoo-ngernkham, T., **Arulrajah, A.** and Shen, S-L. (2017). "Marginal lateritic soil stabilized with calcium carbide residue and fly ash geopolymers as a sustainable pavement base material", *Journal of Materials in Civil Engineering*, Vol. 29, No. 2, Article No. 04016195, pp. 1-10. (**Q1; IF = 3.2)**.
237. Mehdizadeh, A., Disfani, M., Evans, R. and **Arulrajah, A.** (2017). "Mechanical consequences of suffusion on undrained behaviour of a gap-graded cohesionless soil - an experimental approach", *Geotechnical Testing Journal*, ASTM, Vol. 40, No. 6, pp. 1026-1042. DOI: 10.1520/GTJ20160145. **(Q2; IF = 1.6)**.
238. Kong, D-J, Wu, H-N, Chai, J-C, **Arulrajah, A.** (2017). "State of the art review of geosynthetic clay liners", *Sustainability*, Vol. 9, No. 2110; DOI:10.3390/su9112110. **(Q2; IF = 3.9)**.
239. Cheng, W-C., Cui, Q-L., Shen, J., **Arulrajah, A.** and Yuan, D-J. (2017). "Fractal predictions of grouting volume for treating karst caverns along a shield tunnelling alignment", *Applied Sciences*, Vol. 7, No. 7, 652, pp. 1-15. **(Q2; IF = 2.6)**.
240. Bo, M.W., Choa, V., Chu, J., **Arulrajah, A.** and Horpibulsuk, S. (2017). "Laboratory investigation on the compressibility of Singapore marine clay", *Marine Georesources and Geotechnology*, Vol. 35, No. 6, pp. 847-856. **(Q2; IF = 2.2)**.
241. Njock, P.G.A, Shen, J., Modoni, G. and **Arulrajah, A.** (2017). "Recent advances in horizontal jet grouting (HJG): an overview", *Arabian Journal of Science and Engineering*, Vol. 43, No. 4, pp. 1543-1560. DOI: 10.1007/s13369-017-2752-3. **(Q2; IF = 2.9)**.
242. Mohajerani, A., Vajna J., Homan Cheung, T.H., Kurmus, H., **Arulrajah, A.**, Horpibulsuk S. (2017). "Practical Recycling Applications of Crushed Waste Glass in Construction Materials: A Review", *Construction & Building Materials,* Vol. 156, pp. 443-467. **(Q1; IF = 7.4)**.
243. Yubonchit, S., Chinkulkijniwat, A., Horpibulsuk, S., Jothityangkoon, C., **Arulrajah, A.** and Suddeepong, A. (2017). "Influence Factors Involving Rainfall-Induced Shallow Slope Failure: A Numerical Study", *International Journal of Geomechanics*, Vol. 17, No. 7, Article No. 04016158. **(Q1; IF = 3.7)**.
244. Chinkulkijniwat, A., Horpibulsuk, S., Van, D.B., Udomchai, A., Goodary, R. and **Arulrajah, A.** (2017). "Influential factors affecting drainage design considerations for mechanical stabilised earth walls using geocomposites", *Geosynthetics International*, Vol. 24, No. 3, pp. 224-241. **(Q1; IF = 4.5)**.
245. Udomchai, A., Horpibulsuk, S., Suksiripattanapong, C., Mavong, N, Rachan, R. and **Arulrajah, A.** (2017). "Performance of the bearing reinforcement earth wall as a retaining structure in the Mae Moh mine, Thailand", *Geotextiles and Geomembranes*, Vol. 45, No. 4, pp. 350-360. **(Q1; IF = 5.2)**.
246. Suksiripattanapong, C., Horpibulsuk, S., Phetchuay, C., Suebsuk, J., Phoo-ngernkham, T. and **Arulrajah, A.** (2017). "Water treatment sludge-calcium carbide residue geopolymers as non-bearing masonry units", *Journal of Materials in Civil Engineering*, Vol. 29, No. 9, Article No. 04017095. **(Q1; IF = 3.2)**.
247. Siriphun, S., Horpibulsuk, S., Chotisakul, S., Suddeepong, A., Chinkulkijniwat, A. and **Arulrajah, A.** (2019). "Effect of cumulative traffic and statistical predictive modeling of field skid resistance", *Road Materials and Pavement Design*, Vol. 20, No. 2, DOI: 10.1080/14680629.2017.1385511. **(Q1; IF = 3.7)**.
248. Horpibulsuk, S., Udomchai, A., Joongklang, A., Chinkulkijniwat, A., Mavong, N. Suddeepong, A. and **Arulrajah, A.** (2017). "Pullout resistance mechanism of bearing reinforcement embedded in residual clayey soils", *Geosynthetics International*, Vol. 24, No. 3, pp. 255-263. **(Q1; IF = 4.5)**.
249. Wang, G-F., Lyu, H-M, Shen, J.S., Lu, L-H., Li, G. and **Arulrajah, A.** (2017). "Evaluation of environmental risk due to metro system construction in Jinan, China", *International Journal of Environmental Research and Public Health*, Vol. 14, No. 1114, pp. 1-22. **(Q2; IF = 4.6)**.
250. **Arulrajah, A.**, Yaghoubi, E., Imteaz, M. and Horpibulsuk, S. (2016). "Recycled waste foundry sand as a sustainable subgrade fill and pipe-bedding construction material: engineering and environmental evaluation", *Sustainable Cities and Society*, Vol. 28, pp. 343-349. **(Q1; IF = 11.7)**.

251. **Arulrajah, A.**, Mohammadinia, M., Horpibulsuk, S. and Samingthong, W. (2016). "Influence of class F fly ash and curing temperature on strength development of fly ash-recycled concrete aggregate blends", *Construction & Building Materials*, Vol. 127, pp. 743-750. **[ARC LP120100107] (Q1; IF = 7.4)**.

252. **Arulrajah, A.**, Mohammadinia, A., Phummiphan, I., Horpibulsuk, S. and Samingthong, W. (2016). "Stabilization of recycled demolition aggregates by geopolymers comprising calcium carbide residue, fly ash and slag precursors", *Construction & Building Materials*, Vol. 114, pp. 864-873. **[ARC LP120100107] (Q1; IF = 7.4)**.

253. **Arulrajah, A.**, Kua, T-A., Horpibulsuk, S., Phetchuay, C., Suksiripattanapong, C. and Du, Y-J. (2016). "Strength and microstructure evaluation of recycled glass-fly ash geopolymer as low-carbon masonry units", *Construction & Building Materials*, Vol. 114, pp. 400-406. **(Q1; IF = 7.4)**.

254. **Arulrajah, A.**, Kua, T-A, Phetchuay, C. Horpibulsuk, S., Maghoolpilehrood, F. and Disfani, M.M. (2016). "Spent coffee grounds-fly ash geopolymer used as an embankment structural fill material", *Journal of Materials in Civil Engineering,* Vol. 28, No. 5, Article No. 04015197. **(Q1; IF = 3.2)**.

255. Kua, T-A., **Arulrajah, A.**, Horpibulsuk, S., Du, Y-J. and Shen, S-L. (2016). "Strength assessment of spent coffee grounds-geopolymer cement utilizing slag and fly ash precursors", *Construction & Building Materials*, Vol. 115, pp. 565-575. **(Q1; IF = 7.4)**.

256. Mohammadinia, A., **Arulrajah, A.**, Sanjayan, J., Disfani, M.M., Bo, M.W. and Darmawan (2016). "Stabilisation of demolition materials for pavement base/subbase applications using fly-ash and slag geopolymers: laboratory investigation", *Journal of Materials in Civil Engineering,* Vol. 28, No. 7, Article No. 04016033, pp. 1-9. **[ARC LP120100107]. (Q1; IF = 3.2)**.

257. Mohammadinia, A., **Arulrajah, A.**, Sanjayan, J., Disfani, M.M., Bo, M.W. and Darmawan (2016). "Strength development and microfabric structure of construction and demolition aggregates stabilized with fly ash based geopolymers", *Journal of Materials in Civil Engineering,* Vol. 28, No. 11, Article No. 04016141, pp. 1-8. **[ARC LP120100107]. (Q1; IF = 3.2)**.

258. Bo, M.W., **Arulrajah, A.**, Horpibulsuk, S., Chinkulkijniwat, A. and Leong, M. (2016). "Laboratory measurements of factors affecting discharge capacity of prefabricated vertical drain materials", *Soils and Foundations*, Vol. 56, No. 1, pp. 129-137. **[ARC LP0989164] (Q1; IF = 3.7)**.

259. Kua, T-A., **Arulrajah, A.**, Horpibulsuk, S., Du, Y-J. and Suksiripattanapong, C. (2016). "Engineering and environmental evaluation of spent coffee grounds stabilized with industrial by-products as a road subgrade material", *Clean Technologies and Environmental Policy,* Vol. 19, No. 1, pp. 63-75. **(Q2; IF = 4.3)**.

260. Maghool, F., **Arulrajah, A.**, Du, Y-J., Horpibulsuk, S. and Chinkulkijniwat, A. (2016). "Environmental impacts of utilizing waste steel slag aggregates as recycled road construction materials", *Clean Technologies and Environmental Policy*, Vol. 19, No. 4, pp. 949-958. **(Q2; IF = 4.3)**.

261. Bo, M.W., **Arulrajah, A.**, Sukmak, P., Horpibulsuk, S., Leong, M. (2016). "Mineralogy and geotechnical properties of ultra-soft soil from a nearshore mine tailings sedimentation pond", *Marine Georesources and Geotechnology*, Vol. 34, No. 8, pp 782-791. **(Q2; IF = 2.2)**.

262. Phetchuay, C., Horpibulsuk, S., **Arulrajah, A.**, Suksiripattanpong, C. and Udomchai, A. (2016). "Strength development in soft marine clay stabilized by fly ash and calcium carbide residue based geopolymer", *Applied Clay Science*, Vol. 127-128, pp. 134-142. **Q1; IF = 5.6)**.

263. Hoy, M., Horpibulsuk, S. and **Arulrajah, A.** (2016). "Strength development of recycled asphalt pavement-fly ash geopolymer as a road construction material", *Construction & Building Materials*, Vol. 117, pp. 209-219. **[ARC LP120100107]. (Q1; IF = 7.4)**.

264. Sarir, P., Shen, S-L., **Arulrajah, A.**, Horpibulsuk, S. (2016). "Concrete wedge and coarse sand coating shear connection system in GFRP concrete composite deck", *Construction & Building Materials*, Vol. 114, pp. 650-655. **(Q1; IF = 7.4)**.

265. Piratheepan, J., Sothilingam, P., **Arulrajah, A.**, Disfani, M.M. and Pathmanathan, R. (2016). "Experimental study on contact erosion failure in pavement embankment with dispersive clay", *Journal of Materials in Civil Engineering*, ASCE, Vol. 28, No. 4, Article No. 04015179. (**Q1; IF = 3.2)**.

266. Klaas, D., Imteaz, M. and **Arulrajah, A.** (2016). "Evaluating the impacts of grid cell properties in spatial discretization of groundwater model for a tropical karst catchment in Rote Island, Indonesia", Hydrology Research**,** DOI: 10.2166/nh.2016.250. **(Q1; IF = 2.7)**.

267. Elbaz, K., Shen, J.S., **Arulrajah, A.** and Horpibulsuk, S. (2016). "Geohazards induced by anthropic activities of geoconstruction: a review of recent failure cases", *Arabian Journal of Geosciences*, Vol. 9, Article 708, pp. 1-11. **(Q2; IF = 1.95)**.

268. Rahman, A., Imteaz, M., **Arulrajah, A.** (2016). "Suitability of reclaimed asphalt pavement and recycled crushed brick as filter media in bioretention applications", *International Journal of Environment and Sustainable Development*, Vol. 15, No. 1, pp. 32-48. **(Q3)**.

269. Donrak, J., Rachan, R., Horpibulsuk, S., **Arulrajah, A.**, Du, Y.J. (2016). "Improvement of marginal lateritic soil using melamine debris replacement for sustainable engineering fill materials", *Journal of Cleaner Production*, Vol. 134, pp. 515-522. **(Q1; IF = 11.1)**.

270. Liu, F., Shen, S-L., Hou, D-W., **Arulrajah, A.**, Horpibulsuk, S. (2016). "Enhancing behaviour of large volume underground concrete structure using expansive agents", *Construction & Building* Materials, Vol. 114, pp. 49-55. **(Q1; IF = 7.4)**.

271. Bo, M.W., Wong, K.S., Choa, V., **Arulrajah, A.** and Horpibulsuk, S. (2016). "Step loading compression of ultra-soft soil under radial drainage conditions", *Marine Georesources and Geotechnology*, Vol. 34, No. 7, pp. 648-658. **(Q2; IF = 2.2)**.

272. Hoy, M., Horpibulsuk, S., Rachan, R., Chinkulkijniwat, A. and **Arulrajah, A.** (2016). "Recycled asphalt pavement-fly ash geopolymer as a sustainable pavement base material: strength and toxic leaching investigations", *Science of the Total Environment*, Vol. 573, pp. 19-26. **(Q1; IF = 9.8)**.

273. Sukmak, K., Sukmak, P., Horpibulsuk, S., Chinkulkijniwat, A., **Arulrajah, A.** and Shen, S.L. (2016). "Pullout resistance of bearing reinforcement embedded in marginal lateritic soil at molding water contents", *Geotextiles and Geomembranes,* Vol. 44, pp. 475-483. **(Q1; IF = 5.2)**.

274. Horpibulsuk, S., Suksiripattananapong, C., Samingthong, W., Rachan, R. and **Arulrajah, A.** (2016). "Durability of wetting-drying cycles of water treatment sludge-fly ash geopolymer, water treatment sludge-cement and silty-clay cement systems", *Journal of Materials in Civil Engineering*, ASCE, Vol. 28, No. 1, Article No. 04015078. **(Q1; IF = 3.2)**.

275. Du, Y-J, Jiang, N-J. Liu, S-Y, Horpibulsuk, S. and **Arulrajah, A.** (2016) "Field evaluation of soft highway subgrade soil stabilized with calcium carbide residue", *Soils and Foundations*, Vol. 56, No. 2., pp. 301-414. **(Q1; IF = 3.7)**.

276. Jiang, N-J., Du, Y-J, Liu, S-Y, Wei, M-L, Horpibulsuk, S. and **Arulrajah, A.** (2016) "Multi-scale laboratory evaluation of the physical, mechanical and microstructural properties of soft highway subgrade soil stabilized with calcium carbide residue", *Canadian Geotechnical Journal*, Vol. 53, No. 3, pp. 373-383. **(Q1; IF = 3.6)**.

277. Phummiphan, I., Horpibulsuk, S., Sukmak, P., Chinkulkijniwat, A., **Arulrajah, A.** and Shen, S-L. (2016). "Stabilization of marginal lateritic soil using high calcium fly ash based geopolymer", *Road Materials and Pavement Design*, Vol. 17, No. 4, pp. 877-891. **(Q1; IF = 3.7)**.

278. Chinkulkijniwat, A., Yubonchit,S., Horpibulsuk, S., Jothityangkoon,C., Jeeptaku,C. and **Arulrajah, A.** (2016). "Hydrological Responses and Stability Analysis of Shallow Slopes With Cohesionless Soil subjected to Continuous Rainfall", *Canadian Geotechnical Journal*, Vol. 53, No. 12, pp. 2001-2013. DOI: 10.1139/cgj-2016-0143. **(Q1; IF = 3.6)**.

279. Chinkulkijniwat, A., Horpibulsuk, S., Yubonchit, S., Rakkob, T. Goodary, R. and **Arulrajah, A.** (2016). "Laboratory approach for faster determination of the loading-collapse yield curve of compacted soils", *Journal of Materials in Civil Engineering*, Vol. 28, No. 3., pp. 04015148 (1-8). **(Q1; IF = 3.2)**.

280. Suksiripattanapong, C., Horpibulsuk, S., Chinkulkijniwat, A., Chai, J.C., Shen S-L and **Arulrajah, A.** (2016). "Numerical and sensitivity analysis of bearing reinforcement earth (BRE) wall", *KSCE Journal of Civil Engineering*, pp. 1-14, DOI: 10.1007/s12205-016-0576-4. **(Q2; IF = 2.2)**.

281. **Arulrajah, A.**, Disfani, M.M., Haghighi, H., Mohammadinia, A. and Horpibulsuk, S. (2015). "Modulus of rupture evaluation of cement stabilized recycled glass/recycled concrete aggregate blends", *Construction & Building Materials*, Vol. 84, pp. 146-155. **[ARC LP120100107] (Q1; IF = 7.4)**.

282. **Arulrajah, A.**, Disfani, M.M, Maghoolpilehrood, F., Horpibulsuk, S., Udonchai, A. Imteaz, M. and Du, Y-J. (2015). "Engineering and environmental properties of foamed recycled glass as a lightweight fill material", *Journal of Cleaner Production*, Vol. 94, pp. 369-375. **(Q1; IF = 11.1)**.

283. Mohammadinia, A., **Arulrajah, A.**, Sanjayan, J., Disfani, M.M., Bo, M.W. and Darmawan (2015). "Laboratory evaluation of the use of cement-treated construction and demolition materials in pavement base/subbase applications", *Journal of Materials in Civil Engineering,* Vol. 27, No. 6, Article No. 04014186. pp. 1-12. **[ARC LP120100107] (Q1; IF = 3.2)**.

284. Bo, M.W., **Arulrajah, A.**, Sukmak, P. and Horpibulsuk, S. (2015). "Mineralogy and geotechnical properties of Singapore marine clay at Changi", *Soils and Foundations*, Vol. 55, No. 3, pp. 600-613**. [ARC LP0989164] (Q1; IF = 3.7)**.

285. Bo, M.W., **Arulrajah, A.,** Horpibulsuk, S. and Leong, M. (2015). "Quality management of prefabricated vertical drain materials in mega land reclamation projects: a case study", *Soils and Foundations*, Vol. 54, No. 4, pp. 895-905. **[ARC LP0989164] (Q1; IF = 3.7)**.

286. Rahman, M.A., Imteaz, M., **Arulrajah, A.**, Piratheepan, J. and Disfani, M.M. (2015). "Recycled construction and demolition materials in permeable pavement systems: geotechnical and hydraulic characteristics", *Journal of Cleaner Production*, Vol. 90, pp. 183-194. **(Q1; IF = 11.1)**.

287. Piratheepan, J., Sothilingam, P., **Arulrajah, A.**, Disfani, M.M. and Pathmanathan, R. (2015). "Laboratory model test on contact erosion of dispersive soil beneath pavement layers", *Geotechnical Testing Journal*, ASTM, Vol. 38, No. 6, pp. 906-914. **(Q2; IF = 1.6)**.

288. Chen, M., Shen, S-L., **Arulrajah, A.**, Wu, H-N., Hou, D-W., Xu, Y-S. (2015). "Laboratory evaluation on the effectiveness of polypropylene fibers on the strength of fiber-reinforced and cement-stabilized Shanghai soft clay", *Geotextiles and Geomembranes*, Vol. 43, No. 6, pp. 515-523. **(Q1; IF = 5.2)**.

289. Neramitkornburi, A., Horpibulsuk, S., Shen, S.L., **Arulrajah, A.** and Disfani, M.M. (2015). "Engineering properties of lightweight cellular cemented clay-fly ash material", *Soils and Foundations*, Vol. 55, No. 2, pp. 471-483. **(Q1; IF = 3.7)**.

290. Suksiripattanapong, C., Horpibulsuk, S., Chanpraset, P., Patimapon, S., **Arulrajah, A.** (2015). "Compressive strength development in fly ash geopolymer masonry units manufactured from water treatment sludge", *Construction & Building Materials*, Vol. 82, pp. 20-30. **(Q1; IF = 7.4)**.

291. Neramitkornburi, A., Horpibulsuk, S., Shen, S.L., Chinkulkijniwat, A., **Arulrajah, A.**, Disfani, M.M. (2015). "Durability against wetting-drying cycles of sustainable lightweight cellular cemented construction material comprising clay and fly ash wastes", *Construction & Building Materials*, Vol. 77, pp. 41-49. **(Q1; IF = 7.4)**.

292. Sukmak, K., Sukmak, P., Horpibulsuk, S., Han, J., Shen, S-L. and **Arulrajah, A.** (2015). "Effect of fine content on the pullout resistance mechanism of bearing reinforcement embedded in cohesive-frictional soils", *Geotextiles and Geomembranes*, Vol. 43, pp. 107-117. **(Q1; IF = 5.2)**.

293. Suksiripattananapong, C., Horpibulsuk, S., Boongrasan, S., Udomchai, A. Chinkulkijniwat, A. and **Arulrajah, A.** (2015). "Unit weight, strength and microstructure of a water treatment sludge-fly ash lightweight cellular geopolymer", *Construction & Building Materials*, Vol. 94, pp. 807-816. **(Q1; IF = 7.4)**.

294. Rahman, M.A., Imteaz, M., **Arulrajah, A.**, Disfani, M.M. and Horpibulsuk, S. (2015). "Engineering and environmental assessment of recycled construction and demolition materials used with geotextile for permeable pavements", *Journal of Environmental Engineering*, ASCE, pp. 04015019(1-8). **(Q2; IF = 2.2)**.

295. Horpibulsuk, S., Kampala, A., Phetchuay, C. and **Arulrajah, A.** (2015). "Calcium carbide residue – a cementing agent for sustainable soil stabilization", *Geotechnical Engineering*, Journal of the SEAGS & AGSSEA, Vol. 46, No. 1, pp. 22-27. **(Q4)**.

296. **Arulrajah, A.**, Abdullah, A., Bo, M.W. and Leong, M. (2015). "Geosynthetic applications in a high-speed railway: a case study", *Ground Improvement*, Proceedings of the Institution of Civil Engineers UK, Vol. 168, No. 1, pp. 3-13. **(Q3)**.

297. Evans, R., **Arulrajah, A.** and Horpibulsuk, S. (2015). "Detecting Gilgai relief beneath sealed flexible pavements using road profile and road roughness measurements", *Indian Geotechnical Journal*, Vol. 45, No. 4, pp. 431-440. **(Q3)**.

298. **Arulrajah, A.**, Horpibulsuk, S., Maghoolpilehrood, F., Samingthong, W., Du, Y-J. and Shen, S-L. (2015). "Evaluation of interface shear strength properties of geogrid-reinforced foamed recycled glass using a large-scale direct shear testing apparatus", *Advances in Materials Science and Engineering*, Vol. 2015, Article No. 235428. **(Q2, IF = 2.56)**.

299. **Arulrajah, A.**, Narsilio, G., Kodikara, J. and Orense, R. (2015). "Key issues in environmental geotechnics: Australia and New Zealand", *Environmental Geotechnics*, Proceedings of the Institution of Civil Engineers (UK), Vol. 2, No. EG6, pp. 326-330. **(Q2; IF = 2.2)**.

300. Disfani, M.M., **Arulrajah, A.,** Maghoolpilehrood, F., Bo, M.W. and Narsilio, G. A. (2015). "Geotechnical characteristics of stabilised aged biosolids", *Environmental Geotechnics*, Vol. 2, Issue EG5, pp. 269-279. **(Q2; IF= 2.2)**.

301. **Arulrajah, A.**, Maghoolpilehrood, F., Disfani, M.M. and Horpibulsuk, S. (2014). "Spent coffee grounds as a non-structural embankment fill material: engineering and environmental considerations", *Journal of Cleaner Production*, Vol. 72, pp. 181-186. **(Q1; IF = 11.1)**.

302. **Arulrajah, A.**, Disfani, M., Horpibulsuk, S., Suksiripattanapong, C. and Prongmanee, N. (2014). "Physical properties and shear strength responses of recycled construction and demolition materials in unbound pavement base/subbase applications", *Construction & Building Materials*, Vol. 58, pp. 245–257. **[ARC LP120100107] (Q1; IF = 7.4)**.

303. **Arulrajah, A.**, Ali, M.M.Y., Disfani, M.M. and Horpibulsuk, S. (2014) "Recycled glass blends in pavement base/subbase applications: laboratory and field evaluation", *Journal of Materials in Civil Engineering*, ASCE, Vol. 26, No. 7, pp. 04014025 (1-12). **(Q1; IF = 3.2)**.

304. **Arulrajah, A.**, Piratheepan, J., Disfani, M.M. (2014). "Reclaimed asphalt pavement/recycled concrete aggregate blends in pavement subbase applications: laboratory and field evaluation", *Journal of Materials in Civil Engineering*, ASCE, Vol. 25, No. 12, pp.1920-1928. **(Q1; IF = 3.2)**.

305. **Arulrajah, A.**, Rahman, M.A., Piratheepan, J., Bo, M.W., and Imteaz, M. (2014). "Evaluation of interface shear strength properties of geogrid-reinforced construction and demolition materials using a modified large scale direct shear testing apparatus", *Journal of Materials in Civil Engineering*, ASCE, Vol. 26, No. 5., pp. 974-982. **(Q1; IF = 3.2)**.

306. Disfani, M.M., **Arulrajah, A.**, Haghighi, H., Mohammadinia, A. and Horpibulsuk, S. (2014). "Flexural beam fatigue strength evaluation of crushed brick as a supplementary material in cement stabilized recycled concrete aggregates", *Construction & Building Materials*, Vol. 68, pp. 667-676. **[ARC LP120100107] (Q1; IF = 7.4)**.

307. Bo, M.W., **Arulrajah, A.**, Leong, M., Horpibulsuk, S. and Disfani, M.M. (2014). "Evaluating the in-situ hydraulic conductivity of soft soil under land reclamation fills with the BAT permeameter", *Engineering Geology*, Vol. 168, pp. 98-103. **[ARC LP0989164] (Q1; IF = 7.4)**.

308. Bo, M.W., **Arulrajah, A.**, Horpibulsuk, S., Leong, M., and Disfani, M.M. (2014). "Densification of land reclamation sands by deep vibratory compaction techniques", *Journal of Materials in Civil Engineering*, ASCE, Vol. 26, No. 8, Article No. 06014016. **[ARC LP0989164] (Q1; IF = 3.2)**.

309. Rahman, M.A., **Arulrajah, A.**, Piratheepan, J., Bo, M.W. and Imteaz, M. (2014). "Resilient modulus and permanent deformation responses of geogrid-reinforced construction and demolition materials", *Journal of Materials in Civil Engineering*, ASCE, Vol. 26, No. 3, pp. 512-519. **(Q1; IF = 3.2)**.

310. Rahman, A., Imteaz, M., **Arulrajah, A.** and Disfani, M.M. (2014). "Suitability of recycled construction and demolition aggregates as alternative pipe backfilling materials", *Journal of Cleaner Production*, Vol. 66, pp. 75-84. **[ARC LP120100107] (Q1; IF = 11.1)**.

311. Horpibulsuk, S., Suddeepong, A., Suksiripattanapong, C., Chinkulkijniwat, A., **Arulrajah, A.** and Disfani, M.M. (2014). "Water void to cement ratio identity of lightweight cellular-cemented material", *Journal of Materials in Civil Engineering*, ASCE, Vol. 26, Article no. 06014021. **(Q1; IF = 3.2)**.

312. Phetchuay, C., Horpibulsuk, S., Suksiripattanapong, C., Chinkulkijniwat, A., **Arulrajah, A.** and Disfani, M.M. (2014). "Calcium carbide residue: alkaline activator for clay-fly ash geopolymer", *Construction & Building Materials*, Vol. 69, pp. 285-294. **(Q1; IF = 7.4)**.

313. Horpibulsuk, S., Munsrakest, V., Udomchai, A., Chinkulkijniwat, A. and **Arulrajah, A.** (2014). "Strength of sustainable non-bearing masonry units manufactured from calcium carbide residue and fly ash", *Construction & Building Materials*, Vol. 71, pp. 210-215. **(Q1; IF = 7.4)**.

314. **Arulrajah, A.** and Imteaz, M.A. (2014). "Sustainable reuse potential of municipal sewage sludge in south-east Australia", *International Journal of Environment and Waste Management*, Vol. 14, No. 4 pp. 311-322. **(Q3)**.

315. **Arulrajah, A.**, Bo, M.W., Leong, M. and Disfani, M.M. (2013). "Piezometer measurements of prefabricated vertical drain improvement of soft soils under land reclamation fill", *Engineering Geology*, Vol. 162, pp. 33-42. **[ARC LP0989164] (Q1; IF = 7.4)**.

316. **Arulrajah, A.**, Piratheepan, J., Disfani, M.M. and Bo, M.W. (2013). "Geotechnical and geoenvironmental properties of recycled construction and demolition materials in pavement subbase applications", *Journal of Materials in Civil Engineering*, ASCE, Vol. 25, No. 8, pp. 1077-1088. **(Q1; IF = 3.2)**.

317. **Arulrajah, A.**, Ali, M.M.Y., Disfani, M.M., Piratheepan, J. and Bo, M.W. (2013). "Geotechnical performance of recycled glass-waste rock blends in footpath bases", *Journal of Materials in Civil Engineering*, ASCE, Vol. 25, No. 5, pp. 653–661. **(Q1; IF = 3.2)**.

318. **Arulrajah, A.**, Disfani, M.M., Suthagaran, V. and Bo, M.W. (2013). "Laboratory evaluation of the geotechnical characteristics of wastewater biosolids in road embankments", *Journal of Materials in Civil Engineering*, ASCE, Vol. 25, No. 11, pp. 1682-1691. **(Q1; IF = 3.2)**.

319. **Arulrajah, A.**, Piratheepan, J., Disfani, M.M. and Bo, M.W. (2013). "Resilient moduli response of recycled construction and demolition materials in pavement subbase applications", *Journal of Materials in Civil Engineering*, ASCE, Vol. 25, No. 12, pp. 1920-1928. **(Q1; IF = 3.2)**.

320. Disfani, M.M., **Arulrajah, A.**, Suthagaran, V. and Bo, M.W. (2013). "Long-term settlement prediction for wastewater biosolids in road embankments", *Resource, Conservation and Recycling*, Vol. 77, pp. 69-77. **(Q1; IF = 13.2)**.

321. Maghoolpilehrood, F., Disfani, M.M. and **Arulrajah, A.** (2013). "Geotechnical characteristics of aged biosolids stabilized with cement and lime", *Australian Geomechanics*, Vol. 48, No. 3, pp. 113-120. **(Q3)**.

322. **Arulrajah, A.**, Rahman, M.A., Piratheepan, J., Bo, M.W. and Imteaz, M.A. (2013). "Interface shear strength testing of geogrid-reinforced construction and demolition materials", *Advances in Civil Engineering Materials*, ASTM, Paper ID ACEM20120055, Vol. 2, No. 1, pp. 189-200. **(Q2; IF = 1.4**).

323. Piratheepan, J., **Arulrajah, A.** and Disfani, M.M. (2013). "Large scale direct shear testing of recycled construction and demolition materials", *Advances in Civil Engineering Materials*, ASTM, Paper ID ACEM20120009, Vol. 2, No. 1, pp. 189-200. **(Q2; IF = 1.4)**.

324. **Arulrajah, A.**, Piratheepan, J., Bo, M.W. and Sivakugan, N. (2012). "Geotechnical characteristics of recycled crushed brick blends for pavement sub-base applications", *Canadian Geotechnical Journal*, Vol. 49, No. 7, pp. 796-811. **(Q1; IF = 3.6)**.

325. **Arulrajah, A.**, Ali, M.M.Y., Piratheepan, J. and Bo, M.W. (2012). "Geotechnical properties of waste excavation rock in pavement sub-base applications", *Journal of Materials in Civil Engineering*, ASCE, Vol. 24, No. 7, pp. 924-932. **(Q1; IF = 3.2)**.

326. **Arulrajah, A.**, Piratheepan, J., Ali, M.M.Y. and Bo, M.W. (2012). "Geotechnical properties of recycled concrete aggregate in pavement sub-base applications", *Geotechnical Testing Journal*, ASTM, Vol. 35, No. 5, DOI: 10.1520/GTJ103402. **(Q2; IF = 1.6)**.

327. Disfani, M.M., **Arulrajah, A.**, Bo, M.W. and Sivakugan, N. (2012). "Environmental Risks of using Recycled Crushed Glass in Road Applications", *Journal of Cleaner Production*, Vol. 20, No. 1, pp. 170-179. **(Q1; IF = 11.1)**.

328. Piratheepan, J., Gnanendran, C.T., and **Arulrajah, A.** (2012). "Determination of *c* and phi from IDT and unconfined compression testing and numerical analysis", *Journal of Materials in Civil Engineering*, ASCE, Vol. 24, No. 9, pp. 1153-1164. **(Q1; IF = 3.2)**.

329. Imteaz, M., Ali, M.M.Y. and **Arulrajah, A.** (2012). "Possible environmental impacts of recycled glass used as a pavement base material", *Waste Management and Research*, Vol. 30, No. 9, pp. 917-921. (**Q1; IF = 3.9)**.

330. Bo, M.W., M-F, Chang, **Arulrajah, A.** and Choa, V. (2012). "Ground investigations for Changi East Reclamation Projects", *Geotechnical and Geological Engineering*, Vol. 30, No. 1, pp. 45-62. **(Q2; IF = 1.7)**.

331. Hossain, I., Imteaz, M., Hossain, M. and **Arulrajah, A.** (2012). "Continuous simulation of suspended sediment through a stream section", *International Journal of Water*, Vol. 7, No. 3, pp. 206-222. **(Q4)**.

332. Ali, Y.M.M., Newman, G., **Arulrajah, A.** and Disfani, M.M. (2012). "Blending of recycled glass and crushed rock in road pavements", *Quarry*, Vol. 20, No. 9, pp. 41-56. **(Q4)**.

333. **Arulrajah, A.**, Piratheepan, J., Aatheesan, T. and Bo, M.W. (2011). "Geotechnical properties of recycled crushed brick in pavement applications", *Journal of Materials in Civil Engineering*, Vol. 23, No. 10, pp. 1444-1452. **(Q1; IF = 3.2)**.

334. **Arulrajah, A.**, Bo, M.W., Piratheepan, J. and Disfani, M.M. (2011). "In-situ testing of soft soil at a case study site with the self-boring pressuremeter", *Geotechnical Testing Journal*, Vol. 34, No. 4, pp. 355-363. **(Q2; IF = 1.6)**.

335. **Arulrajah, A.**, Disfani, M.M., V. Suthagaran and Imteaz, M. (2011). "Select chemical and engineering properties of wastewater biosolids", *Waste Management*, Vol. 31, No. 12, pp. 2522-2526. **(Q1; IF = 8.1)**.

336. Disfani, M., **Arulrajah, A.**, Bo, M.W. and Hankour, R. (2011). "Recycled crushed glass in road work applications", *Waste Management*, Vol. 31, No. 11, pp. 2341-2351. **(Q1; IF = 8.1)**.

337. Gnanendran, C.T., Piratheepan, J., Ramanunjam, J and **Arulrajah, A.** (2011). "Accelerated laboratory pavement model test on cemented base and clay subgrade", *Geotechnical Testing Journal*, ASTM, Vol. 34, No. 4, pp. 297-309. **(Q2; IF = 1.6)**.

338. Ali, Y.M.M., Newman, G., **Arulrajah, A.** and Disfani, M.M. (2011). "Application of recycled glass-crushed rock blends in road pavements", *Australian Geomechanics*, Vol. 46, No. 1, pp. 113-121. **(Q3)**.

339. Bo, M.W., Choa, V., Wong, K.S. and **Arulrajah, A.** (2011). "Laboratory validation of ultra-soft soil deformation model", *Geotechnical and Geological Engineering*, Springer, Vol. 29, No. 1, pp. 65-74. **(Q2; IF = 1.7)**.

340. Disfani, M.M., **Arulrajah, A.**, Ali, Y.M.M. and Bo, M.W. (2011). "Fine recycled glass: A sustainable alternative to natural aggregates", *International Journal of Geotechnical Engineering*, Vol. 5, No.3, pp. 255-266. **(Q2; IF = 1.9)**.

341. Aatheesan, T, **Arulrajah, A.**, Bo, M.W., Vuong, B. and Wilson, J. (2010). "Crushed brick blends with crushed rock for pavement systems", *Proceedings of the institution of civil engineers-Waste and Resource Management*, Vol. 163, No.1, pp. 29-35. **(Q4)**.

342. Suthagaran, V., **Arulrajah, A.** and Bo, M.W. (2010). "Geotechnical laboratory testing of biosolids", *International Journal of Geotechnical Engineering*, Vol 4, No. 3, pp. 407-415. **(Q2; IF = 1.9)**.

343. **Arulrajah, A.** and Bo, M.W. (2010). "Finite element modeling of soft soil treated with prefabricated vertical drains", *International Journal of Geotechnical Engineering*, Vol 4, No. 2, pp. 165-179. **(Q2; IF = 1.9)**.

344. **Arulrajah, A.** and Bo, M.W. (2010). "Field instrumentation case study at a pilot site in the Changi land reclamation project", *International Journal of Geotechnical Engineering*, Vol 4, No. 2, pp. 181-194. **(Q2; IF = 1.9)**.

345. **Arulrajah, A.**, Abdullah, A., Bo, M.W. and Bouazza, A. (2009). "Ground improvement techniques for railway embankments", *Ground Improvement*, Vol. 162, No. 1, pp. 3-14. ***Awarded the Telford Premium Prize 2010 by Institution of Civil Engineers, United Kingdom.*** **(Q2; IF = 1.2)**.

346. **Arulrajah, A**., Bo, M.W., Chu, J. and Nikraz, H. (2009). "Instrumentation at the Changi land reclamation project, Singapore", *Proceedings of the Institution of Civil Engineers-Geotechnical Engineering*, Vol. 162, No.1, pp. 33-40. **(Q2; IF = 2.2)**.

347. Chu, J., Bo, M.W. and **Arulrajah, A.** (2009). "Reclamation of a slurry pond in Singapore", *Proceedings of the Institution of Civil Engineers-Geotechnical Engineering,* Vol. 162, No.1, pp. 13-20. **(Q2; IF = 2.2)**.

348. Chu, J., Bo, M.W. and **Arulrajah, A**. (2009). "Soil improvement works for an offshore land reclamation", *Proceedings of the Institution of Civil Engineers-Geotechnical Engineering,* Vol. 162, No.1, pp. 21-32. **(Q2; IF = 2.2).**

349. Bo, M.W., Na, Y.M., **Arulrajah, A.** and Chang, M.F. (2009). "Densification of granular soil by dynamic compaction", *Ground Improvement*, Volume 162, No. 3, August, pp. 121-132. **(Q2; IF = 1.2)**.

350. **Arulrajah, A**., Bo, M.W. and Nikraz, H. (2009). "In-situ dissipation testing of soft soil under reclamation fills", *Australian Geomechanics*, Vol. 44, No. 1, March, pp. 69-79. **(Q3)**.

351. Aatheesan, T., **Arulrajah, A.**, Newman, G., Bo, M.W., and Wilson, J. (2009). "Crushed brick blends with crushed concrete for pavement subbase and drainage applications", *Australian Geomechanics*, Vol. 44, No.2, pp. 65-72. **(Q3)**.

352. Suthagaran, V., **Arulrajah, A.**, Bo, M.W. and Wilson, J. (2009). "Stabilisation of biosolids with admixtures for potential use as an embankment fill material", *Australian Geomechanics*, Vol.44, No. 3, pp.63-70. **(Q3)**.

353. **Arulrajah, A.** and Bo, M.W. (2008). "Factors affecting consolidation related prediction of Singapore marine clay by observational methods", *Geotechnical and Geological Engineering*, Vol. 26, No. 4, pp. 417-430. **(Q2; IF = 1.7)**.

354. **Arulrajah, A.** and Bo, M.W. (2008). "Characteristics of Singapore marine clay at Changi", *Geotechnical and Geological Engineering*, Springer, Volume 26, No. 4, pp. 431-441. **(Q2; IF = 1.7)**.

355. **Arulrajah, A**., Bo, M.W., Nikraz, H. and Balasubramaniam, A.S (2007). "Dissipation Testing of Singapore Marine Clay by Piezocone Tests", *Geotechnical and Geological Engineering*, Kluwer Academic Publishers, Volume 25, No. 1, pp. 647-656. (**Q2; IF = 1.7)**.

356. Bo, M.W., **Arulrajah, A** & Nikraz, H (2007). "Preloading and prefabricated vertical drains design for foreshore land reclamation projects: a case study", *Proceedings of the Institution of Civil Engineers-Ground Improvement*, 11(2), pp. 67-76. **(Q2; IF = 1.2)**.

357. **Arulrajah, A.**, Nikraz, H. and Bo, M.W. (2006). "Assessment of Marine Clay Improvement under Reclamation Fills by In-Situ Testing Methods", *Geotechnical and Geological Engineering*, Volume 24, No. 2, pp. 219-226. (**Q2; IF = 1.7)**.

358. **Arulrajah, A.**, Nikraz, H. and Bo, M.W. (2006). "In-Situ Pore Water Pressure Dissipation Testing of Marine Clay under Reclamation Fills", *Geotechnical and Geological Engineering*, Volume 24, No. 1, pp. 29-43. (**Q2; IF = 1.7)**.

359. **Arulrajah, A**., Bo, M.W., Nikraz, H. and Hashim, R. (2006). "Pre-Reclamation In-Situ Testing of Soft Soil", *Australian Geomechanics: Journal of the Australian Geomechanics Society*, Vol. 41, No. 4, December, pp. 57-68. (**Q3)**.

360. **Arulrajah, A.**, Nikraz, H. and Bo, M.W. (2005). "Finite Element Modeling of Marine Clay Deformation under Reclamation Fills", *Proceedings of the Institution of Civil Engineers (UK), Ground Improvement*, July, Vol. 9, No. 3, pp. 105-118. **(Q2; IF = 1.2)**.

361. **Arulrajah, A.**, Nikraz, H. and M. W. Bo (2005). "In-Situ Testing of Singapore Marine Clay at Changi", *Geotechnical and Geological Engineering*, Vol. 23, No. 2, pp. 111-130. **(Q2; IF = 1.7)**.

362. **Arulrajah, A.**, Nikraz, H. and Bo, M.W. (2004). "Factors Affecting Field Instrumentation Assessment of Marine Clay Treated With Prefabricated Vertical Drains", *Geotextiles and Geomembranes*, Elsevier, Vol. 22, No. 5, October, pp. 415-437. **(Q1; IF = 5.2)**.

363. **Arulrajah, A.** and Affendi Abdullah (2004). "Ground Improvement Techniques for the Treatment of High-Speed Railway Embankments", *Australian Geomechanics: Journal of the Australian Geomechanics Society*, Vol. 39, No. 2, June, pp. 61-72. (**Q3)**.

364. **Arulrajah, A.**, Nikraz, H. and Bo, M.W. (2004). "Factors Affecting Assessment and Back-Analysis by Piezometer Monitoring", *Australian Geomechanics: Journal of the Australian Geomechanics Society*, Vol. 39, No. 1, March, pp. 49-60. (**Q3)**.

365. **Arulrajah, A.**, Bo, M.W. and Nikraz, H. (2004). "Field Instrumentation Monitoring of Land Reclamation projects on Marine Clay Foundations", *Australian Geomechanics: Journal of the Australian Geomechanics Society*, Vol. 39, No. 1, March, pp. 69-78. (**Q3)**.

366. **Arulrajah, A.**, Nikraz, H. and Bo, M.W. (2004). "Observational Methods of Assessing Improvement of Marine Clay", *Proceedings of the Institution of Civil Engineers: Ground Improvement*, 8(4), pp. 151-169. **(Q2; IF = 1.2)**.

367. **Arulrajah, A.** and Nikraz, H. (2004). "Field Instrumentation Assessment of Offshore Land Reclamation Works", *Journal of the International Society of Offshore and Polar Engineering (IJOPE)*, Vol. 14, No. 4, December, pp. 315-320. **(Q3)**.

368. **Arulrajah, A.**, Bo, M.W., Nikraz, H. and Hashim, R. (2004) "Piezocone Dissipation Testing of Singapore Marine Clay at Changi", *Geotechnical Engineering, Journal of the Southeast Asian Geotechnical Society*, Vol. 35, No. 3, pp. 119-126. **(Q3)**.

369. **Arulrajah,A.**, Nikraz, H. and Bo, M.W. (2003). "Factors Affecting Field Settlement Assessment and Back-Analysis by the Asaoka and Hyperbolic Methods", *Australian Geomechanics: Journal of the Australian Geomechanics Society*, Vol. 38, No. 2, June, pp. 29-37. (**Q3)**.

370. Bo M. W., M. F. Chang, **Arulrajah, A** and Choa, V. (2000). "Undrained Shear Strength of Singapore Marine Clay from In-Situ Tests", *Geotechnical Engineering*, Vol. 31, No. 2, August, pp. 91-107. (**Q3)**.

371. Bo M. W., V. Choa, **Arulrajah, A** and Na, Y.M. (1999). "One-Dimensional Compression of Slurry with Radial Drainage", *Soils and Foundations*, Vol. 39, No. 4, pp. 9-17. **(Q1; IF = 3.7)**.

372. Bo M.W., **Arulrajah, A** and Choa, V. (1998). "The Hydraulic Conductivity of Singapore Marine Clay at Changi", *Quarterly Journal of Engineering Geology and Hydrogeology*, Vol. 31, pp. 291-299. **(Q2; IF = 1.4)**.

REFEREED CONFERENCE PUBLICATIONS

1. Lin, Y., Maghool, F., **Arulrajah, A.,** and Horpibulsuk, S. (2023). "Environmental impact of crushed concrete and recycled aluminium salt slag as used in civil infrastructure construction", 2nd International Conference on Construction Resources for Environmentally Sustainable Technologies, Fukuoka, Japan.
2. Xue, Y., **Arulrajah, A.**, Horpibulsuk, S., Jian, C. and Narsilio, G. (2023). "Recycled sands from demolition wastes as a natural sand substitute material in pavements", 2nd International Conference on Construction Resources for Environmentally Sustainable Technologies, Fukuoka, Japan.
3. Krishnan, K. Wong, Y., Mukhlis, R. Zhang, Z. and **Arulrajah, A.** (2023). "Rubber crumbs in alkali activated clay roof tiles at low temperature". World academy of science, engineering and technology, Singapore.
4. Gu, X., Narsilio, G., Motamedi, Y., Makasis, N., **Arulrajah, A.** and Horpibulsuk, S. (2021). "Geothermal pavements: 3D numerical modelling for the long-term thermal performance", Proceedings of the 20th International Conference on Soil Mechanics and Geotechnical Engineering, Sydney, Australia.
5. Gu, X., Makasis, N., Motamedi, Y., **Arulrajah, A.**, Horpibulsuk, S. and Narsilio, G. (2021). "Geothermal pavements: An experimental and numerical study on thermal performance", Civil Infrastructures Confronting Severe Weathers and Climate Conference, 65-82, Nanchang, China.
6. Motamedi, Y. Makasis, N., **Arulrajah, A.**, Horpibulsuk, S. and Narsilio, G. (2020). "Thermal performance of the ground in geothermal pavements", E3S Web of Conferences, Vol. 205, 06015.
7. Yaghoubi, M., Arulrajah, A., Disfani, M.M., Horpibulsuk, S., Darmawan, S. and Bo, M.W. (2019). Utilising Novel Green Binders in Ground Improvement Applications. *13th Australia New Zealand Conference on Geomechanics*, Perth, Australia. **[ARC LP150100043]**
8. Yaghoubi, M. **Arulrajah, A.**, Disfani, M.M., Horpibulsuk, S. and Darmawan, S. (2018). "Industrial by-product-based binders for use in deep soil mixing technique", *8th Intl. Conference on Geotechnique, Construction Materials and Environment*, Kuala Lumpur, Malaysia. **[ARC LP150100043] (Best Paper Award)**.
9. Yaghoubi, M**. Arulrajah, A.**, Disfani, M.M., Horpibulsuk, S., Bo, M.W. and Leong, M. (2017). "Utilisation of alkaline activated industrial by-products in deep soil mixing", 7th Intl. Conference of Geotechnique, Construction Materials and Environment, Mie, Japan. **[ARC LP150100043]**
10. Maghool, F., **Arulrajah, A.**, Horpibulsuk, S. and Du, Y-J. (2017). "Geotechnical and geoenvironmental properties of ladle furnace slag and electric arc furnace slag in unbound pavement base/subbase applications", *19th ICSMGE*, Seoul, Korea.
11. Mohammadinia, A., **Arulrajah, A.**, Disfani, M., Darmawan, S. and Bo, M.W. (2017). "Alkali-activated stabilized demolition wastes for geotechnical applications", 19th ICSMGE, Seoul, Korea.
12. Mehdizadeh, A., Disfani, M., Evans, R., Arulrajah, A. amd Ong, D.E.L. (2017). "Application of image processing in internal erosion investigation", *19th ICSMGE*, Seoul, Korea.
13. Lyu, H.M., Shen, S.L., **Arulrajah A.**, Cheng, W.C. (2017). "Assessment of flooding risk in Guangzhou, China", *International Conference on Civil Engineering*, Nakhon Ratchasima, Thailand **(Invited Lecture)**.

14. Horpibulsuk, S., Hoy, M., Rachan, R., Witchayaphong, P. and **Arulrajah, A.** (2017). "Fly ash geopolymer stabilized recycled asphalt pavement as a sustainable base material", 7th *International conference on Geotechnique, Construction Materials and Environment*, Mie, Japan. **(Keynote Lecture)**.
15. Horpibulsuk, S., Hoy, M., Witchayaphong, P., Rachan, R. and **Arulrajah, A.** (2017). "Recycled asphalt pavement – fly ash geopolymer as a sustainable stabilized pavement material", *International Conference on Informatics, Technology and Engineering*, Bali, Indonesia. **(Keynote Lecture).**
16. Mirzababaei, M., **Arulrajah, A.** and Ouston, M. (2017). "Polymers for stabilization of soft clay soils", International Scientific Conference on Transportation Geotechnics *Procedia Engineering*, Vol. 189, pp. 25-32.
17. Mohammadinia, A., Disfani, M.M., **Arulrajah, A.** and Darmawan, S. (2017). "Small-strain behaviour of artificially cemented sand in deep mixing application", *Piled Foundations and Ground Improvement Technology for the Modern Building and Infrastructure Sector Conference*, pp. 452-461, Melbourne, Australia.
18. Afshar, T. Disfani, M., **Arulrajah, A.** and Narsilio, G.A. (2017). "Microstructural analysis of particle crushing in Construction and Demolition materials using synchrotron tomography", 19th ICSMGE, Seoul, Korea.
19. Afhsar, T., Disfani, M.M., Narsilio, G.A. and **Arulrajah, A.** (2017) "Changes to Grain Properties due to Breakage in a Sand Assembly using Synchrotron Tomography", *Powders and Grains,* Montpellier, France.
20. **Arulrajah, A.** (2016). "Case studies of recycled materials in pavements and footpaths", *2nd World Congress and Exposition on Recycled Materials*, Berlin, Germany.
21. **Arulrajah, A.**, Horpibulsuk, S. and Maghool, G. (2016). "Recycled construction and demolition materials in pavement and footpath bases", *6th Intl Symposium on Rural Roads*, Bangkok, Thailand. **(Invited Lecture**).
22. Maghool, F., **Arulrajah, A.**, Horpibulsuk, S., Du, Y-J and Chinkulkijniwat, A. (2016). "Geotechnical properties of ladle furnace slag in roadworks applications", *6th International conference on Geotechnique, Construction Materials and Environment*, Bangkok, Thailand. **(Best Paper Award)**.
23. Phummiphan, I, Hoy, M.L., Horpibulsuk, S. and **Arulrajah, A.** (2016). "Strength evaluation of reclaimed asphalt pavement stabilized by fly ash, calcium carbide residue and slag geopolymer in pavement applications", *6th International Symposium on Rural Roads*, Bangkok, Thailand. **(Best Paper Award)**.
24. Hoy, M., Horpibulsuk, S. and **Arulrajah, A.** (2016). "Evaluation of fly ash based geopolymer stabilized recycled asphalt pavement as a sustainable pavement material", *International Conference on Energy Materials and Applications*, Seoul, S. Korea. **(Best Paper Award)**.
25. Van, D.B., Chinkulkijniwat, A., Horpibulsuk, S., **Arulrajah, A.**, Yubonchit, S., Udomchai, A., Limrat, I. and Bhattarai, T.R. (2016). "Influence of nonwoven geotextile on the hydraulic response of mechanical stabilized earth wall", *6th International conference on Geotechnique, Construction Materials and Environment*, Bangkok, Thailand. **(Best Paper Award)**.
26. Hoy, M., Horpibulsuk, S., Rachan, R. and **Arulrajah, A.** (2016). "Stabilization of recycled asphalt pavement by fly ash as a sustainable pavement material", *Sixth International Symposium on Rural Roads*, Bangkok, Thailand.
27. Kua, T.A., **Arulrajah, A.**, Horpibulsuk, S. amd Du, Y-J. (2016). "Spent coffee ground-fly ash geopolymer: strength analysis as a recycled road subgrade material", *6th International conference on Geotechnique, Construction Materials and Environment*, Bangkok, Thailand.
28. Yaghoubi, E., Disfani, M.M., **Arulrajah, A.** and Kodikara, J. (2016). "Impact of compaction methods on resilient response of unsaturated granular pavement material", *Advances in Transportation Geotechnics 3*, Procedia Engineering, Vol. 143, pp. 323-330, Guimaraes, Portugal.
29. Premkumar, S., Piratheepan, J., Rajeev, P. and **Arulrajah, A.** (2016). "Stabilizing dispersive soil using brown coal fly ash and hydrated lime" *Geo-Chicago*, pp. 874-884, Chicago, USA.
30. Al-Taie, A., Disfani, M.M., Evans, R., **Arulrajah, A.** and Horpibulsuk, S. (2016). "Swell-shrink cycles of lime stabilized expansive subgrade", *Advances in Transportation Geotechnics 3*, Procedia Engineering, Vol. 143, pp. 615-622, Guimaraes, Portugal.
31. Mohammadinia,A., **Arulrajah, A.**, Sanjayan,J., Disfani, M.M., Bo, M.W. and Darmawan, S. (2015). "Geotechnical properties of lightly stabilized recycled demolition materials in base/subbase applications", International Foundations Congress and Equipment Exposition 2015, San Antonio, Texas, USA.
32. Mohammadinia,A., **Arulrajah, A.**, Sanjayan,J., Disfani, M.M., Bo, M.W. and Darmawan, S. (2015). "Geotechnical characteristics of cement-treated recycled materials in base and subbase applications", 12th Australia New Zealand Conference on Geomechanics, ANZ 2015, Wellington, New Zealand.
33. Evans, R.P. and **Arulrajah, A.** (2015). "Identifying waveband roughness on highway pavements using power spectral density analysis", 9th International Conference on Managing Pavement Assets, Washington DC.

34. Maghoolpilehrood, F., Disfani, M.M. and **Arulrajah, A.** (2015). "Geotechnical properties of biosolids stabilised with lime and cement", 12th Australia New Zealand Conference on Geomechanics, ANZ 2015, Wellington, New Zealand.
35. Afshar, T., Disfani, M.M., **Arulrajah, A.** and Narsilio, G.A. (2015). "Discrete element modelling of recycled waste rock: particle shape simulations and effects", 12th Australia New Zealand Conference on Geomechanics, ANZ 2015, Wellington, New Zealand.
36. Suksiripattanpong, C., **Horpibulsuk, S**., and Arulrajah, A. (2015), "Unit weight and strength of lightweight water treatment sludge fly ash geopolymer", *Proceedings of 5th Thailand Rock Mechanics Symposium*, 22 – 23 January 2015.
37. Al-Taie, A.Y., Disfani, M.M., Evans, R., Arulrajah, A. and Horpibulsuk, S. (2015). "Determination of optimum lime content for volcanic expansive clays", 15th Pan-American Geotechnical Conference, Buenos Aires.
38. Horpibulsuk, S., Udomchai, A., Joongklang, A., Mavong, N., Nikompakdi, P., **Arulrajah, A.** and Disfani, M.M. (2015). "Pullout mechanism of the bearing reinforcement embedded in claystone soil of Mae Moh mine", 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Fukuoka, Japan.
39. **Arulrajah, A.**, Disfani, M.M. and Horpibulsuk, S. (2014). "Green roads and footpaths using recycled C&D materials", *International Conference on Advances in Civil Engineering for Sustainable Development*, Nakhon Ratchasima, Thailand. **(Keynote Lecture)**.
40. **Arulrajah, A.** and Disfani, M.M. (2014). "Sustainable usage of recycled construction and demolition materials in pavement bases/subbases", *International Conference on Sustainable Civil Infrastructure*, Hyderabad, India. **(Keynote Lecture)**.
41. Horpibulsuk, S., Suksiripattanapong, C., Chanprasert, P., Sukmak, P. **Arulrajah, A.** (2014). "A novel green construction material from water treatment sludge", *9th International Symposium on Lowland Technology*, Saga, Japan. **(Best Paper Award)**.
42. Mohammadinia,A., **Arulrajah, A**., Sanjayan,J., Disfani, M.M., Bo, M.W. and Darmawan, S. (2014). "Unconfined compression testing of cement-treated demolition materials in base and subbase applications", 4th International Conference on Geotechnique, Construction Materials and Environment, Geomate 2014, Brisbane, Australia.
43. Rahman, M.A., **Arulrajah, A.**, Piratheepan, J., Bo, M.W. and Imteaz, M. (2014). "Effect of geogrids on interface shear strength properties of recycled crushed brick", *Geocongress 2014*, Atlanta, USA. pp. 3615-3624.
44. Afshar, T., Disfani, M.M., **Arulrajah, A.** and Narsilio, G.A. (2014). "Discrete element modelling of recycled waste rock under monotonic loading, 67th Canadian Geotechnical Conference, GeoRegina 2014, Regina, Saskatchewan.
45. Suksiripattanapong, C., Chanprasert, P., Sukmak, P., Horpibulsuk, S. and **Arulrajah, A.** (2014). "Compressive behavior of sludge-fly ash geopolymer", 7th International Congress on Environmental Geotechnics, Melbourne.
46. Suksiripattanapong, C., Horpibulsuk, S., Chai, J.C., Shen, S.L. and **Arulrajah, A.** (2014). "Numerical study on lateral movement pattern of bearing reinforcement earth (BRE) wall", *9th Intl Symposium on Lowland Technology*, Saga, Japan.
47. Bo M.W. and **Arulrajah, A.** (2013). "Planning and implementation of a mega geotechnical engineering project in Singapore", 7th International Conference on Case Histories in Geotechnical Engineering, Chicago, USA.
48. Abdullah, A., **Arulrajah, A.** and Tan, S.A. (2012). "Track sub-structure analysis for a high-speed train in Malaysia", Proceedings of the International Conference on Ground Improvement and Ground Control, Wollongong, Australia.
49. Ali, Y.M.M., Piratheepan, J., Disfani, M.W. and **Arulrajah, A.** (2012). "Sustainable application of recycled glass blended with crushed rock", Proceedings of the 11th ANZ Conference on Geomechanics, Melbourne, Australia.
50. Disfani, M., Haghighi, H., Ali, Y.M.M., **Arulrajah, A.** (2012). "Performance of recycled glass-biosolids blends under repeated loading", Proceedings of the 11th ANZ Conference on Geomechanics, Melbourne, Australia.
51. Piratheepan, J. and **Arulrajah, A.** (2012). "Laboratory testing of reclaimed asphalt pavement-crushed rock for footpath applications", 8th International Conference on the Environmental and Technical Implications of Construction with Alternative Materials (Wascon 2012), Gothenburg, Sweden.
52. Ali, Y.M.M. and **Arulrajah, A.** (2012). "Potential use of recycled crushed concrete-recycled glass blends in pavement subbase applications", Geocongress 2012, Oakland,
53. Bo, M.W. and **Arulrajah, A.** (2011). "Use of Recycled Waste in Highway Engineering", 5th Intl Conference on Geotechnical and Highway Engineering, Semarang, Indonesia. **(Keynote lecture)**.
54. Disfani, M., Ali, Y.M.M., **Arulrajah, A.** and M.W. Bo (2011). "Recycled glass-biosolids blends: An alternative material for road embankments", International Conference on Advances in Geotechnical Engineering, Perth, Australia.
55. Ganesalingam, D., **Arulrajah, A.**, Ameratunga, J. and Boyle, P.J. (2011). "Geotechnical properties of reconstituted dredged mud", Pan-American and Canadian Geotechnical Society Geotechnical Conference, Toronto, Canada.

56. Lovisa, J., **Arulrajah, A.**, Ameratunga, J., Boyle, P., Sivakugan, N. and Read, W.W. (2011). "Effects of initial excess pore pressures on consolidation of dredged slurry", 14th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Hong Kong, China.
57. Ali, Y.M.M., **Arulrajah, A.**, Disfani, M. and Piratheepan, J. (2011). "Suitability of using recycled glass-crushed rock blends in pavement sub-base applications", Geo-frontiers 2011, Dallas, USA.
58. Evans, R. and Arulrajah, A. (2011). "A new method for aligning and synchronizing road profile data for better road roughness growth analysis", 8th International Conference on Managing Pavement Assets, Santiago, Chile.
59. Bo, M.W., Fabius, F., Chu, J. and **Arulrajah, A.** (2011). "Predicting consolidation settlements using small-strain, large-strain and stress path methods", 17th International Conference on Soil Mechanics and Geotechnical Engineering, Alexandria, Egypt.
60. Ali, Y.M.M., **Arulrajah, A.**, Disfani, M. and N. Sivakugan (2010). "Compaction Testing of Recycled Glass Blended with Recycled Crushed Concrete for Footpath Applications", 6th International Congress on Environmental Geotechnics, New Delhi, India.
61. **Arulrajah, A.**, T. Aatheesan, B. Vuong and M.W. Bo (2010). "Crushed Brick Blends with Crushed Concrete as a Sub-Base Material for Pavement Construction", International Geotechnical Conference of Geotechnical Challenges in Mega-Cities, Moscow, Russia.
62. Disfani, M., **Arulrajah, A.,** Suthagaran, V. and Bo, M.W. (2009). "Geotechnical Characteristics of Recycled Glass-Biosolid Mixtures", 17th International Conference on Soil Mechanics and Geotechnical Engineering, Alexandria, Egypt.
63. Disfani, M., **Arulrajah, A.,** Suthagaran, V. and Bo, M.W. (2009). "Shear Strength Behaviour of Recycled Glass-Biosolids Mixtures", 62nd Canadian Geotechnical Conference, Halifax, Canada.
64. Disfani, M., **Arulrajah, A.** and Bo, M.W. (2009). "Suitability of various recycled glass sources as embankment fill material", 7th International Conference on the Environmental and Technical Implications of Construction with Alternative Materials (Wascon 2009), Lyon, France.
65. **Arulrajah, A.**, Bo, M.W., and Nikraz, H. (2008)."Case Study of the Changi East Land Reclamation Project, Singapore", 6th International Conference on Case Studies in Geotechnical Engineering, Washington D.C., U.S.A.
66. Suthagaran, V., **Arulrajah, A**., Lamborn, J. and Wilson, J (2008). "Geotechnical Testing to Determine the Suitability of Biosolids for Embankment Fill", Biosolids Speciality Conference IV, Adelaide.
67. Suthagaran, V., **Arulrajah, A**., Bo, M.W. and Wilson, J (2008). "Biosolids as a Construction Material for Engineered Fills", 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece.
68. Aatheesan, T., **Arulrajah, A.**, Bo, M.W. and Wilson, J. (2008). "Brick Rubble as a Sub-Base Material for Pavement Construction", 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece.
69. Aatheesan, T., **Arulrajah, A**., Wilson, JL. and Bo, M.W. (2008). Beneficial Use of Brick Rubble as Pavement Sub-base Material, 1st International Conference on Transportation Geotechnics, Nottingham, United Kingdom.
70. **Arulrajah, A.**, Bo, M.W., Nikraz, H. and Balasubramaniam, A.S. (2007). "Geotechnical Instrumentation Monitoring of Land Reclamation Projects on Soft Soil Foundations", 10th Australian New Zealand Conference on Geomechanics, Brisbane, Vol. 2, pp. 30-35.
71. **Arulrajah, A.**, Hashim, R., Bo, M.W. and Nikraz, H. (2007). "Prefabricated Vertical Drain Design for a Land Reclamation Project", 16th Southeast Asian Geotechnical Conference, Kuala Lumpur, Malaysia.
72. **Arulrajah, A.**, and Abdullah, A. (2007). "Ground Improvement of Road over Rail Approach Embankments", 16th Southeast Asian Geotechnical Conference, Kuala Lumpur, Malaysia.
73. Suthagaran, V., **Arulrajah, A.**, Bo, M.W. and Wilson, J. (2007). "Field Testing to Determine the Suitability of Biosolids for Embankment Fill", 12th European Biosolids and Organic Resources Conference, Manchester, United Kingdom.
74. Bo, M.W., **Arulrajah, A.** and Nikraz, H. (2007). "Field Instrumentation Monitoring of Soft Soil in an Offshore Land Reclamation Project, 17th International Offshore and Polar Engineering Conference, Lisbon, Portugal.
75. Abdullah, A., Ahmad, A. and **Arulrajah, A.** (2007). "A Case History on the Use of Seismic Refraction Survey in Pile Foundation Design", 16th Southeast Asian Geotechnical Conference, Kuala Lumpur, Malaysia.
76. **Arulrajah, A.**, Nikraz, H. and Bo, M.W. (2004). "Assessment of Marine Clay Improvement by Observational Methods", International Symposium on Engineering Practice and Performance of Soft Deposits, Osaka, Japan, June, pp. 269-274.
77. **Arulrajah, A.**, Bo, M.W. and Nikraz, H. (2004). "Characterization of Soft Marine Clay using the Flat Dilatometer", 2nd International Conference on International Site Characterisation, Porto, Portugal, September, pp. 287-292.
78. **Arulrajah, A.**, Nikraz, H. and Bo, M.W. (2004). "Pre-Reclamation Characteristics of Marine Clay using In-Situ Testing Methods", 2nd International Conference on International Site Characterisation, Porto, Portugal, September, pp. 1041-1046.

79. **Arulrajah, A.**, Nikraz, H. and Bo, M.W. (2004). "Comparison Between the Performance Of Pneumatic and Electric Piezometers in a Land Reclamation Project", International Conference on Geotechnical Engineering, Beirut, Lebanon, May, pp. 899-904.
80. **Arulrajah, A.**, Nikraz, H. and Bo, M.W. (2004). "Preloading and Prefabricated Vertical Drains Design for Offshore Land Reclamation Projects", International Conference on Geotechnical Engineering, Beirut, Lebanon, May, pp. 351-356.
81. **Arulrajah, A.** and Nikraz, H. (2003) "Comparison of Degree of Improvement Assessed by Observational Methods Using Field Instrumentation", 6th International Symposium on Field Measurements in GeoMechanics, Oslo, Norway, September, pp. 3-10.
82. **Arulrajah, A.** and Affendi Abdullah (2003). "Geosynthetic Applications in a High-Speed Railway Project", 13th European Conference in Soil Mechanics, Prague, Czechoslovakia, August, pp. 551-554.
83. Raju, V.R., Abdullah, A. and **Arulrajah, A.** (2003). "Ground Treatment using Dry Deep Soil Mixing for Railway Embankments in Malaysia", 2nd International Conference on Advances in Soft Soil Engineering and Technology, Putrajaya, Malaysia, July, pp. 589-600.
84. Abdullah, A., Neil, A. and **Arulrajah, A.** (2003) "Ground Treatment using Augeopile Embankment System for Railway Embankments in Malaysia", 2nd International Conference on Advances in Soft Soil Engineering and Technology, Putrajaya, Malaysia, July, pp. 703-714.
85. **Arulrajah, A.** and Affendi Abdullah (2002). "Vibro Replacement Design of High-Speed Railway Embankments", 2nd World Engineering Congress, Kuching, Malaysia, July, pp. 157-162.
86. Affendi Abdullah and **Arulrajah, A.** (2002). "Design of Foundation Treatment for Railway Embankments", Third International Conference on Ground Improvement Techniques, March, Vol. 1, pp. 195-201, Kuala Lumpur.
87. Affendi Abdullah and **Arulrajah, A.** (2002). "Statnamic Load Testing of an Instrumented Borepile", 2nd World Engineering Congress, Kuching, Malaysia, pp. 35-39.
88. Bo M. W., **Arulrajah, A** and V. Choa (1998). "Instrumentation and Monitoring of Soil Improvement Work in Land Reclamation Project", 8th Congress of the International Association of Engineering Geology, ©Balkema, Vancouver.
89. Bo M. W., **Arulrajah, A**, V. Choa and M. F. Chang (1998). "Site Characterisation for Land Reclamation Project at Changi in Singapore", First International Conference on Site Characterisation, ©Balkema, Atlanta, U.S.A.
90. Bo M. W., **Arulrajah, A**, V. Choa and Y.M. Na (1998). "Land Reclamation on Slurry-Like Soil Foundation at Changi in Singapore" International Symposium on Problematic Soils, ©Balkema, Sendai, Japan.
91. Y.M. Na, V. Choa, Bo M. W. and **Arulrajah, A**. (1998). "Use of Geosynthetics for reclamation on slurry like soil foundation", International Symposium on Problematic Soils, ©Balkema,Sendai, Japan..
92. M. F. Chang, V. Choa, L.F. Cao and **Arulrajah, A** (1998).. "Evaluating the State of Consolidation of Clay at a Reclaimed Site", 1st Intl Conf. on Site Characterisation, U.S.A.
93. Bo M. W., **Arulrajah, A** and V. Choa (1997). "Large Deformation of Slurry-Like Soil", International Symposium of Deformation and Progressive Failures in Geomechanics,.
94. Bo M. W., **Arulrajah, A** and V. Choa (1997). "Performance Verification of Soil Improvement Work with Vertical Drains", 30th Year Anniversary Symposium of the Southeast Asian Geotechnical Society, Bangkok.
95. Bo M. W., **Arulrajah, A** and V. Choa (1997). "Large Deformation due to Additional Load on Slurry-Like Foundation Soil", International Conference on Foundation Failures,.
96. Bo M. W., **Arulrajah, A**, V. Choa and Y.M. Na (1997). "Assessment of Degree of Consolidation in Soil Improvement Project", First International Conference on Ground Improvement Techniques,1997, Macau.
97. V. Choa, Bo M. W., **Arulrajah, A**, and Y.M. Na (1997). "Overview of Densification of Granular Soil by Deep Compaction Methods", 1st International Conference on Ground Improvement Techniques, Macau.
98. Y.M. Na, V. Choa, Bo M. W. and **Arulrajah, A** (1997). "Dynamic Measurements during Dynamic Compaction", 30th Year Anniversary Symposium of the Southeast Asian Geotechnical Society, Bangkok.
99. V. Choa, J.Chu, R. Bawajee, Bo M. W. and **Arulrajah, A**. (1996). "The Strength and Consolidation behaviour of Singapore Marine Clay at Changi", 12thSoutheast Asian Geotechnical Conference, Kuala Lumpur, Malaysia

KEYNOTE LECTURES

1. **Arulrajah, A.** (20XX). "Sustainable usage of recycled materials in transportation geotechnics", 1st International Conference on Sustainability in Geotechnical Engineering, Lisbon, Portugal, TBC.
2. **Arulrajah, A.** (2023). "Innovative usage of recycled waste materials in roads", 8th International Conference on Geotechnical Research and Engineering, Lisbon, Portugal.
3. **Arulrajah, A.** (2021). "Ground improvement for airports and railways: case studies", 2nd International Conference on Science and Technology, (Plenary Speaker) Suranaree University of Technology, Thailand.
4. **Arulrajah, A.** (2020). "Recent advances in the usage of recycled materials in transportation geotechnics", Australian Geomechanics Society Victorian Symposium, Melbourne, Australia.
5. **Arulrajah, A.** (2017). "Recycled glass, tyre derived aggregates and demolition materials in roads and footpaths", Sustainable valorisation of waste tyre and recycled glass, Melbourne University.
6. **Arulrajah, A.**, Maghool, F. Horpibulsuk, S., Bo, M.W. and Shen, S.L. (2017). "Laboratory evaluation of biosolids stabilized with demolition wastes as an embankment fill material", Intl Conference on Civil Engineering, Nakhon Ratchasima, Thailand.
7. **Arulrajah, A.**, Horpibulsuk, S. and Maghool, G. (2016). "Recycled construction and demolition materials in pavement and footpath bases", 6th International Symposium on Rural Roads, Bangkok, Thailand.
8. Horpibulsuk, S., Hoy, M., Rachan, R., Witchayaphong, P. and **Arulrajah, A.** (2017). "Fly ash geopolymer stabilized recycled asphalt pavement as a sustainable base material", 7th International conference on Geotechnique, Construction Materials and Environment, Mie, Japan.
9. Horpibulsuk, S., Hoy, M., Witchayaphong, P., Rachan, R. and **Arulrajah, A.** (2017). "Recycled asphalt pavement – fly ash geopolymer as a sustainable stabilized pavement material", International Conference on Informatics, Technology and Engineering, Bali, Indonesia.
10. **Arulrajah, A.** (2017). "Recycled glass, tire derived aggregates and demolition materials in green roads and footpaths", Victorian local government waste forum, Ballarat, Victoria, 1 March.
11. **Arulrajah, A.** (2016). "Case Studies of Recycled Materials in pavements and Footpaths", 2nd World Congress and Expo on Recycling, Berlin, Germany.
12. **Arulrajah, A.** (2016). "Research on recycled construction and demolition materials in pavement bases/subbases", Sustainable Land Development, Civil Design Aspects and Recycled Materials Seminar (2016), 17 February, Melbourne.
13. **Arulrajah, A.** (2015). "Recycled Demolition materials in roads and footpaths", Asia Pacific Conference on Highway Development and the Environment, Hong Kong.
14. **Arulrajah, A.**, Disfani, M.M. and Horpibulsuk, S. (2014). "Green roads and footpaths using recycled C&D materials", International Conference on Advances in Civil Engineering for Sustainable Development, Nakhon Ratchasima, Thailand.
15. **Arulrajah, A.** and Disfani, M.M. (2014). "Sustainable usage of recycled construction and demolition materials in pavement bases/subbases", International Conference on Sustainable Civil Infrastructure, Hyderabad, India.
16. **Arulrajah, A.** (2014). "Construction and demolition materials in pavement subbase and footpath applications", Pavement Design, Rehabilitation, Recycled Materials Seminar (2014). 31 July, Melbourne.
17. Bo, M.W. and **Arulrajah, A.** (2011). "Use of Recycled Waste in Highway Engineering", 5th Intl Conference on Geotechnical and Highway Engineering, Semarang, Indonesia.
18. **Arulrajah, A.** (2010). "Use of Recycled Demolition Materials for Footpaths", Institution of Public Works Engineering Australia Conference, , Melbourne.
19. **Arulrajah, A.** (2010). "Recycling Roads to Zero Waste", Statewide Local Victorian Government Forum, , Melbourne.
20. **Arulrajah, A.** (2010). "Use of Recycled Demolition Materials for Footpaths and Shared Paths", Green Roads and Footpath Forum., Melbourne, Australia.

INVITED LECTURES

1. **Arulrajah, A.** (2020). "Why sensing and monitoring", New techniques for infrastructure sensing and monitoring, Webinar organised by Geotesta/Convue, Melbourne, 17 March.
2. **Arulrajah, A.** (2020). "Recovered plastics and glass fines in rail track substructures", Recycled materials - Innovation and trends, Sustainability Victoria, Melbourne, 19 February.
3. **Arulrajah, A.** (2019). "Green roads and footpaths using recycled construction and demolition materials", Public Seminar, NTU-JTC Industrial Infrastructure Innovation Centre, Singapore. 13 March.

4. **Arulrajah, A.** (2019). "Ground improvement for railways and pavements: case studies", National Transport Infrastructure Workshop, Sydney, 13-14 February.
5. **Arulrajah, A.** (2019). "Ground improvement for airports and railways: case studies", Geotechnical Engineering Visitor's Seminar, Suranaree University of Technology, Thailand.
6. **Arulrajah, A.** (2017). "Green roads and footpaths using recycled construction and demolition materials" Technical Committee TC307 Workshop on Sustainable Practices in Geotechnical Engineering, 19th Intl Conf on Soil Mechanics and Geotechnical Engineering, Seoul, S. Korea.
7. **Arulrajah, A.** (2010). University of Ottawa and Carleton University, "Recycled Demolition materials in Pavements", Ottawa, Canada, 14 April.
8. **Arulrajah, A.** (2009). Smart Water Conference comprising of the Victorian Wastewater Industry, "Geotechnical Characteristics of Biosolids and their suitability as Stabilized Fill", Melbourne.
9. **Arulrajah, A.** (2008). Australian Geomechanics Society (2008). "Land Reclamation and Ground Improvement at the Changi East Reclamation Project in Singapore", Melbourne.
10. **Arulrajah, A.** (2008). Australian Geomechanics Society (2008). "Land Reclamation and Ground Improvement at the Changi East Reclamation Project in Singapore", Melbourne, 2nd April.

SHORT COURSES/WORKSHOPS

1. **Arulrajah, A.** (2021). "Ground improvement techniques for waste materials in geotechnical engineering projects", 1st International Conference on Sustainability in Geotechnical Engineering, Lisbon, Portugal, TBC.
2. **Arulrajah, A.** and Mohammadinia, A. (2020). "Training of young professionals – Tips, Treats and Tricks", Workshop on Transport and Geotechnical Engineering Research, University Technology Sydney, 18 November.

PhD STUDENTS

- **PhD Completions – Principal Coordinating Supervisor**

#	Name of PhD student	Title of PhD Project	Completion	Supervisory Role
22	Parisa Oskooei	Long term performance of demolition wastes using numerical analysis and experimental methods	2021	Principal Coordinating
21	Hooman Baghban	Thermo-geomechanical behaviour of demolition wastes in geothermal pavements	2021	Principal Coordinating
20	Behnam Ghorbani	Experimental and numerical analysis of recycled demolition materials in geothermal pavements	2021	Principal Coordinating
19	Mahdi Naeni	Cyclic performance of recycled demolition wastes in railway capping layers	2021	Principal Coordinating
18	Weerakkody Sahan Perera	Plastics wastes in geotechnical and pavement applications	2021	Principal Coordinating
17	Bhargav Prabhakara (partner PhD with IITH)	Axial and transverse pullout studies on reinforcement embedded in different fill materials	2020	Principal Coordinating
16	Maheshbabu Jallu (partner PhD with IITH)	Development of fly ash stabilized recycled base material for sustainable design of pavements	2020	Principal Coordinating
15	Javad Yaghoubi	Ground improvement of soft soils by deep soil mixing using industrial by-products	2019	Principal Coordinating
14	Farshid Maghool	Steel slag aggregates as a pavement base/subbase material	2019	Principal Coordinating
13	Teerasak Yaowarat (partner PhD with Suranaree Uni. of Tech.)	Recycled concrete aggregate modified with polyvinyl alcohol and fly ash for concrete pavement applications	2019	Principal Coordinating
12	Nithin Sudarsanan	Investigation on the control of reflective cracking using geosynthetics in flexible pavements	2018	Principal Coordinating
11	Ehsan Yaghoubi	Application of stabilizing and reinforcement methods in pavement base and subbase layers with secondary materials	2017	Principal Coordinating
10	Tabassom Afshar	Micro-scale behavior of recycled construction and demolition: discrete element method simulations and physical testing	2017	Principal Coordinating
9	Teck Ang Kua	Application of spent coffee ground as a road subgrade construction material	2017	Principal Coordinating
8	Hamed Haghigi	Characterisation of non-standard granular aggregates including marginal crushed rocks and recycled crushed concrete as constructible pavement materials	2017	Principal Coordinating
7	Alireza Mohammadinia	Effect of geopolymer cement stabilisation on the fatigue life of pavement sub-bases with recycled demolition aggregates	2016	Principal Coordinating
6	Aminur Md Rahman	Interface shear strength of geogrid reinforced demolition materials	2014	Principal Coordinating
5	Robert Evans	Synchronisation of road profile data and the assessment of road roughness using wave band	2013	Principal Coordinating
4	Younus Ali	Geotechnical characteristics of recycled glass in road pavement applications	2012	Principal Coordinating
3	Mahdi Miri Disfani	Sustainable use of recycled glass-biosolids blends in road applications	2011	Principal Coordinating

2	Thurairatnam Aatheesan	Engineering properties of recycled brick rubble	2011	Principal Coordinating
1	Visvalingam Suthagaran	Geotechnical characteristics and admixture stabilization of biosolids	2010	Principal Coordinating

- **PhD Completions – Coordinating/Associate Supervisor**

#	Name of PhD student	Project Title	Completion	Supervisory Role
7	Zipeng Zhang	Glass and plastic waste added bricks produces from brick clay mill residues by alkali activation at a low temperature	2021	Coordinating
6	Asmaa Al-Taie	Volumetric Constitutive Behaviour of an Unsaturated Basaltic Expansive Clay Stabilised Using Lime	2019	Associate
5	Dua Klaas	Assessing the sustainability of groundwater resources in a tropical karstic Island (Rote Island, Indonesia) using a numerical groundwater model	2018	Associate
4	Tung Yew Wong	Behaviour of piles subject to detrimental tidal-induced riverbank soil movements	2018	Associate
3	Amirhassan Mehdizade	Multi scale investigation of post-erosion mechanical behavior of granular materials	2018	Associate
2	Premkumar Sothilingam	Pavement embankment settlement due to erosion on soft subgrades	2017	Associate
1	Iqbal Hossain	Development of an integrated catchment stream-water quality model	2012	Associate

- **Current PhD Supervision**

#	Name of PhD student	Project Title	Expected Completion	Supervisory Role
1	Amirsina Fouladi	Microbial stabilization of recycled sand in geotechnical fills	2024	Principal Coordinating
2	Yunxin (Sophie) Xu	Chemical stabilisation of recycled sand	2024	Principal Coordinating
3	Senayake Senayake	Chemical stabilisation of pavement bases containing glass fines	2025	Principal Coordinating
4	Youli Lin	Ground improvement using demolition wastes as semi-rigid inclusion columns	2023	Principal Coordinating
5	Yueji Bai	Chemical stabilisation of geotechnical fills using biomass bottom ashes	2025	Principal Coordinating
6	Tung Doan	Stabilisation of biomass and demolition waste in pavement base using alternative binders.	2025	Principal Coordinating

- **Masters (Research) Completions**

#	Name of PhD student	Project Title	Completion	Supervisory Role
2	Verumandy Kanagesperan	The effect of fluctuating pore-pressure to geotechnical strength during screw pile installation and testing	2022	Principal Coordinating
1	Leopold Chung	Utilization of spent coffee grounds in manufacturing alkali-activated unfired clay bricks and cement bricks	2021	Associate

- **Current Masters (Research) Supervision**

#	Name of PhD student	Project Title	Expected Completion	Supervisory Role
1				

ENGAGEMENT AND LEADERSHIP ACTIVITIES

- **Research Reports:**
  - 21 major industry related research reports completed and which have been disseminated by industry
  - 7 specifications on recycled materials in roads and footpaths (VicRoads, Municipal Association of Victoria etc).

- **Media Statements/Interviews**

1. Sunbury & Macedon Ranges Star Weekly. "Repurposing for a better world", 11 October 2022.
2. Infrastructure magazine. "Recycling plastic and glass into road materials", 17 June 2019.
3. Herald Sun. "Hoppers crossing home to state's first footpath made of glass and plastic", 25 March 2019.
4. Inside Waste. "Pavement constructed with recycled plastic and glass leading to a circular economy", 25 Mar 2019.
5. Australian Manufacturing. "Footpath made with recycled plastic and glass paves way for circular economy", 22 March 2019.
6. Roads and Infrastructure. "Pavement constructed with recycled plastic and glass", 22 March 2019.
7. Waste Management Review. ""Victoria first recycled concrete trial in Hoopers Crossing, 22 March 2019.
8. Waste Management Review. "Paving the way", 15 June 2018.
9. Roads and Infrastructure. "Paving the way for future construction material", 24 May 2018.
10. Inside Waste. ""New research explores potential of plastic and glass for concrete footpaths", 26 February 2018.
11. Roads and Infrastructure. "Glass and plastics could be used to build footpaths", 23 February 2018.
12. Waste Management Review. "Glass and plastics could be used to help build footpaths", 20 February 2018.
13. Sustainability Victoria. "Recovered plastics and glass can be used in concrete footpaths", 18 February 2018.
14. TripleRRR Radio. "Coffee grounds in roads", Room with a view, 20 June 2016
15. ABC Radio National. "Building the espresso expressway", Interview with Michael Mckenzie, 20 May 2016
16. Institution of Engineers Australia. "Sustainable roads built with coffee grinds", 5 May 2016.
17. ABC Radio. "Recycled coffee grounds in roads", Interview with Red Symons, 4 May 2016.
18. SBS TV. "Recycled coffee grounds could make roads smoother and greener", 3 May 2016.
19. Sustainability Victoria. "Recycled products in pavement construction", Video and research reports, 4 September 2015.
20. The Australian newspaper. "Australian Innovation Challenge Finalists: Manufacturing, Construction and Infrastructure", 25-26 October 2014.
21. Manningham Leader, Melbourne. "Support for Demolition plan", 4th September 2013.
22. Australian Paint Manufacturers Federation press release. "Australia's first trade waste paint trial underway", 18 April 2013.
23. AustStab Media Release. "Inaugural AustStab Awards of Excellence", 22 August 2012.
24. Swinburne Magazine in The Australian newspaper. "Recycled-glass Roads", Issue 14, Dec 2011.
25. ABC Radio (Adelaide). "Future Travels Down a Glass Highway", Interview: Carole Whitelock, 30 July 2010.
26. Melbourne Talk Radio. "Future Travels Down a Glass Highway", Interview with Luke Grant, 30 July 2010.
27. Herald Sun, Melbourne. "Bricks on a greener road", Cars Guide Section, 28 August 2009.
28. Engineers Australia. "Biosolids and builders waste for road fill", November 2009.
29. Swinburne Magazine in The Australian. "Future Travels Down a Glass Highway", July 2010.
30. Swinburne Media Release. "New Research Reduces Footpath Footprint", 23 June 2010.
31. The Chemical Engineer, "Embanking Biosolids – biosolids and brick waste hold the road", 5 November 2009.
32. Earthmover and Civil Contractor. "VicRoads updates road base specifications", August 2009.
33. Swinburne Media Release. "Crushed brick leads to greener roads", August 2009.
34. Inside Swinburne. "No waste spared for travel in the fast lane", June 2009.
35. Swinburne Magazine in The Australian. "No waste spared for travel in the fast lane", Issue 2, June 2008.
36. Swinburne Research. "Innovative Engineering uses of Biosolids", Volume 3, October 2007.
37. Smart Water Fund Newsletter to the Water Industry. "Engineering New Uses for Biosolids", Vol 12, Jan 2008.

- **Civil Engineering**
  - Leader of Geotechnical group within CSI (4 staff and a senior technical officer)
  - Geotechnical laboratory management.
  - VTAC Selection Officer (Civil Engineering): 2007 intake (120 offers); 2008 intake (130 offers)
  - Regular staff meetings, Webmaster for the Civil website (2008-2009)
  - International outreach:
    - Faculty International Team (2006-2008). Focusing actively on Singapore and S.E. Asia region
    - Active in promoting a MOU with Suranaree University of Technology, Thailand.
    - Active in seeking recognition of the Swinburne Engineering program by the Professional Engineers Board, Singapore and Institute of Engineers, Singapore.
    - Established contacts in Sri Lanka with the British College of Applied Studies and arranged for Swinburne International to visit the campus.
  - Sarawak HES1105 engineering programs
  - Research with international and local universities and industry organisations.
  - Industry links: VicRoads, Melbourne Water, Sustainability Victoria, Recycling industry (Alex Fraser, Delta Demolition), Connell Wagner, SKM, Coffey, Golder Associates, ARRB ETC.

Journal Editorial Board Member

1. Transportation Geotechnics (Scimago Q1): 2021 - present
2. Journal of Materials in Civil Engineering, ASCE (Scimago Q1): 2013 - 2022
3. Canadian Geotechnical Journal (Scimago Q1): 2016 - 2021
4. Soils and Foundations (Scimago Q1): 2018 - 2021
5. Computers and Geotechnics (Scimago Q1): 2016 - 2020
6. Environmental Geotechnics (Scimago Q2): 2013 - 2022
7. Ground Improvement (Scimago Q2): 2017 - present
8. Smart Construction and Sustainable Cities (new): 2022 – present
9. Biogeotechnics (new): 2024 - present

Membership of Committees

- Fellow Institution of Engineers Australia (FIEAust), Chartered & Registered Professional Engineer (NPER)
- Australian Research Council - Member of the Industry Fellowships Program Selection Advisory Committee [IFPSAC] (2022-2023)
- Member Australian Geomechanics Society
- Member of the International Society of Soil Mechanics and Geotechnical Engineering
- Australian Geomechanics Society, Victorian Chapter (Executive Committee-2008 to 2010)
- ANZ 2012 Geotechnical Conference, Editorial board and organizing committee (Executive Committee-2008 to 2012)

Professional Activities

- Deputy Training Centre Director and Technical Program Coordinator for the ARC Training Centre for Advanced Technologies in Rail Track Infrastructure (2018-2021).
- Australian Research Council - Australian Reader (ARC Ozreader, 2009 to present)
- Tyre Stewardship Australia - Research Advisory Committee (2015 to 2017)
- Journal Reviewer: Canadian Geotechnical Journal (ERA=A*), ASCE Geotechnical and Geoenvironmental Engineering journal (ERA=A*), ASCE Materials in Civil Engineering (ERA = A), Engineering Geology (ERA=A*), Computers and Geotechnics (ERA=A), ASTM Advances in Civil Engineering Materials, Geosynthetics International (ERA=B), Proceedings of the Institution of Civil Engineers (UK), Ground Improvement (ERA=B), Proceedings of the Institution of Civil Engineers (UK), Geotechnical Engineering (ERA=B), Australian Geomechanics (ERA=B), International Journal of Geotechnical Engineering (ERA=C)

- Book reviewer: Engineering your future – An Australasian Guide, John Wiley & Sons Australia, 2008.
- Conference: Technical Committee and reviewer for numerous conferences:

TEACHING AND LEARNING EXPERIENCE

- Arulrajah's teaching aim is to produce highly employable graduates who are sought after by employers for their cutting edge knowledge and learning skills. Transposing the knowledge generated by his industry background, experiences and research into student learning is a key focus of his, as this is vital in engineering disciplines where important changes take place rapidly.
- He has demonstrated his adaptability and flexibility by restructuring existing subjects and preparing new subjects as necessary to reflect changes within the Department and University structure, changes in the profession itself and new practices.
- Students have recognised and appreciated his strength in bringing real world engineering and design examples into the classroom, which have been formulated through his vast industry background developed through many years of work in Australia and overseas.
- He consistently has obtained excellent student appraisal ratings with high positive feedback in all categories for all subjects he has taught. Summary of student feedback surveys (overall mean / mean satisfaction) for teaching and unit:
    - ***CVE80007 Geotechnical Design***
        - ***2022: Teaching report = 8.8/10.0; Unit report = 9.1/10.0***
        - ***2021: Teaching report = 9.25/10.0; Unit report = 9.38/10.0***
        - ***2020: Teaching report = 9.69/10.0; Unit report = 9.54/10.0***
        - ***2019: Teaching report = 8.0/10.0; Unit report = 7.2/10.0***
        - ***2018: Teaching report = 8.5/10.0; Unit report = 8.17/10.0***
        - ***2017: Teaching report = 8.04/10.0; Unit report = 8.0/10.0***
        - ***2016: Teaching report = 8.39/10.0; Unit report = 8.47/10.0***
        - ***2015: Teaching report = 8.88/10.0; Unit report = 8.71/6.0***
        - ***2014: Teaching report = 5.55/6.0; Unit report = 5.19/6.0***
        - ***2013: Teaching report = 5.57/6.0; Unit report = 5.39/6.0***
        - ***2012: Teaching report = 5.45/6.0; Unit report = 5.29/6.0***
        - ***2011: Teaching report = 5.20/6.0; Unit report = 5.02/6.0***
        - ***2010: Teaching report = 5.38/6.0; Unit report = 5.42/6.0***
        - ***2009: Teaching report = 5.44/6.0; Unit report = insufficient responses***
    - ***HES1105 Civil Engineering Project***
        - ***2014: Teaching report = 5.17/6.0; Unit report = 4.87/6.0***
        - ***2013: Teaching report = 5.01/6.0; Unit report = 4.83/6.0***
        - ***2012: Teaching report = 5.40/6.0; Unit report = 5.02/6.0***
        - ***2011: Teaching report = 4.95/6.0; Unit report = 4.86/6.0***
        - ***2010: Teaching report = 4.99/6.0; Unit report = 4.68/6.0***
        - ***2009: Teaching report = 4.81/6.0; Unit report = 4.77/6.0***
        - ***2008: Teaching report = 5.21/6.0; Unit report = 5.02/6.0***
        - ***2007: Teaching report = 5.30/6.0; Unit report = 5.18/6.0***
    - ***HEF1000 Professional Engineering***
        - ***2008 Teaching report = 4.89/6.0***
        - ***2007 Unit report = 4.58/6.0***
- Subject convenor
    - HES1105 Civil Engineering Projects, 2006-present (150 students)
    - HES6194 Geotechnical Design, 2009-2014 (45 students)
    - HEF1000 Professional Engineering, 2007-2008 (150 students)
- Subject teaching
    - HES6194 Geotechnical Design (2009-present: lecturer and tutor)

  - HES1105 Civil Engineering Projects (2006 to 2014: lecturer and tutor)
  - HEF1000 Professional Engineering (2007-2008: lecturer and tutor)
  - HES5195 Infrastruture Management, 2006-2007 (tutor)
  - HES1115 Sustainable Engineering (Sem 2: 1 lecture)
  - Final year research projects (2006-present: tutor of 2-3 research projects/semester)
- Subject Development
  - New Master's subject HES6194 Geotechnical Design
  - Major course change for HEF1000 Professional Engineering; HES1105 Civil Engineering Projects
- IBL supervisor averaging 3 students per semester since 2006. Active in seeking IBL placements for students.
- Final year research project supervision: with 3-4 projects per semester since 2006
- Program reviews: Blackboard, Coursefinder and subject outline compliance
- Active learning and project work. Completed LTS501 (Learning and Teaching)

PhD THESIS EXAMINATION

1. Song-Shun Lin (2022). "Risk analysis and management for excavation engineering via multi-criteria decision making modelling, Shanghai Jiaotong University, China.
2. Michael Vinod (2022). "Optimising landfill settlement prediction to cater for transport infrastructure on closed landfills". *PhD Thesis*, University of Technology Sydney, Australia.
3. Sun Xinlei (2022). "Treating fine incineration bottom ash of municipal solid waste using marine clay and ground granulated blastfurnace slag for land reclamation, *PhD Thesis*, Nanyang Technological University, Singapore.
4. Xuan Lu Dai (2021). "Cracking and rutting of asphalt concrete: experimental and micromechancis-based numerical investigation", *PhD Thesis*, Monash University.
5. Jaspreet Singh Pooni (2021). "Sustainable soil stabilization for unsealed roads subjected to operational loads", RMIT University.
6. Geoffrey Jameson (2020). "Structural design of new and rehabilitated flexible road pavements", *PhD Thesis*, Monash University.
7. Amin Soltani (2018). "Mechanical behaviour of tire rubber-reinforced expansive soils", *PhD Thesis*, The University of Adeliade,
8. Huu Hung Nguyen (2018). "Effects of installation sequence of concrete rigid inclusions by ground displacement piling methid on previously installed columns", *PhD Thesis*, University of Technology Sydney, Australia.
9. Lam Kok Pang (2018). "Land reclamation and soil improvement using dredged slurry as fill", *PhD Thesis*, Nanyang Technological University, Singapore.
10. Michael Munro (2017). "Evaluation and validation of phenomena culminating in cargoes of iron ore fines shiftin during marine transportation", *PhD Thesis*, RMIT University, Australia.
11. Charmaine Cheah (2017). "Development of methodology to quantify installation damage on geotextile for coastal protection", *PhD Thesis*, Queensland University of Technology, Australia.
12. Ukwatta Pitiye (2017). "Use of biosolids in enhanced fired-clay bricks", *PhD Thesis*, RMIT University, Australia.
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21. Ana Paula Ribeiro Heitor (2012). “Assessment of post-compaction characteristics of an unsaturated silty sand”, *PhD Thesis*, University of Wollongong, Wollongong, Australia.
22. Kok Yun Lee (2012). “Continuous deterioration modeling of road pavement performance”, *PhD Thesis*, Monash University,.
23. Alaa Rashad Gabr Gabr (2012). “Repeated load testing for primary evaluation of recycled concrete aggregate in pavements”, *PhD Thesis*, University of South Australia, Adelaide, Australia.
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26. Komsun Siripun (2010). “Characterisation of base course materials in Western Australia pavements”, *PhD Thesis*, Curtin University of Technology, Perth, Australia.
27. Aeslina Abdul Kadir (2010). “Recycling cigarette butts in fired clay bricks”, *PhD Thesis*, RMIT University, Melbourne,.
28. Miftahul Fauziah (2009). “Behaviour of stiff clayey soils using fracture mechanics approach”, Curtin University of Technology,.
29. Jayantha Ranasooriya (2009). “The reliability of rock mass classification systems as underground excavation support design tools”, Curtin University of Technology, Perth, Australia.
30. Majid Ghiafeh Davoodi (2008). “Long term stability of concrete made from red sand in a marine environment”, *PhD thesis*, Curtin University of Technology, Perth, Australia.
31. Pontjo Utomo (2008). “Constitutive behaviour of hard soils-soft rocks”, *PhD Thesis*, Curtin University of Technology, Perth,.
32. Mohamed Ahmed Hafez (2007). “The influence of packing pressure and electric conductivity on strength of lime and cement stabilized soft clay”, *PhD Thesis*, University of Malaya, Malaysia.
33. Peerapong Jitsangiam (2007). “Performance, evaluation and enhancement of red sand for road bases, Embankments and Seawall Fills”, *PhD Thesis*, Curtin University of Technology, Perth, Australia.
34. Yuen Yan Chong (2007). “The engineering characteristics of Perth peat”, *PhD Thesis*, Curtin University of Technology, Perth.
35. Mark Roddy Jordan (2006). “The design, use and implementation of maintenance management systems and pavement management systems for whole life costing”, *PhD Thesis*, Curtin University of Technology, Perth, Australia.

MEngSc THESIS EXAMINATION

1. Siti Sara Seera Binti Mustapa Kamil (2012). "Model test on the effects of some root properties on pullout capacity", *MEngSc Thesis*, University of Malaya, Malaysia.
2. Damien Carl Rolfe (2011). "An investigation into a bentonite clay based geosynthetic liner in a caustic refinery environment", *MEngSc Thesis*, Curtin University of Technology, Perth, Australia.
3. Tony Matacin (2010). "A study on unbound granular pavement moisture response due to climatic influences". *MEngSc Thesis*, Monash University, Melbourne, Australia.
4. Azim Azarhoushang (2010). "Dynamic response of fixed offshore platforms to environmental loads", *MEngSc Thesis*, Curtin University of Technology, Perth, Australia.
5. Muhammed Zahid (2010). "Active earth pressure from c-phi soil subjected to surcharge and seismic loading" *MEngSc Thesis*, Edith Cowan University, Perth, Australia.
6. Chen Xinyao (2010). "Effect of shearing rate on the behavior of sand", *MEng Thesis*, Nanyang Technological University, Singapore.
7. Ebrahim Mokhtarpour (2010). "Behaviour of Bakun dam as an extra high concrete face rockfill dam in end construction", *MEngSc Thesis*, University of Malaya, Malaysia.
8. Mohammed M. Mohammed (2009). "Performance assessment of ground treatment with rapid impact compaction using in-situ testing", *MEngSc Thesis*, University of Malaya, Malaysia.
9. Mehdi Salehi (2008). "Lime-Clay Modification and its application in the construction of man-made islands", *MEngSc Thesis*, James Cook University, Townsville, Australia.
10. P. Paisar (2007). "The experimental study of heavily overconsolidated kaolin clay under biaxial condition", *MEngSc Thesis*, Curtin University of Technology, Perth, Australia.
11. Shah Khalid (2006). "Sustainable use of residual bauxite tailings (Red Sand) in concrete", *MEngSc Thesis*, Curtin University of Technology, Perth, Australia.