Afshin Asadi,

BSc (Civil Eng), MSc, PhD (Geotech), CMEngNZ, CPEng, FICE

Geotechnical Team Lead, Senior Research Investigator

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- Fellow of the UK Institution of Civil Engineers (FICE).
- Chartered Member of Engineering New Zealand (CMEngNZ), Chartered Professional Engineer (CPEng) in New Zealand.
- Holds Auckland Council Producer Statement Authorship (Geotechnical PS1 & PS2).
- Holds a Ph.D. in Geotechnical Engineering with extensive experience in delivering geotechnical consulting services and supervising geotechnical research and investigations.
- Privileged to serve as a geotechnical reviewer for renowned and prestigious geotechnical journals worldwide.
- Holds a New Zealand Certificate in Adult and Tertiary Teaching, and taught geotechnical earthquake engineering and geotechnical engineering at universities, and conducted practical, New Zealand-oriented training sessions for geotechnical engineers.
- Published a rich number of technical papers focusing on environmentally-friendly ground improvement techniques and sustainable geotechnics.
- Recipient of prestigious geotechnical investigation funds, including the Marie Skłodowska-Curie Actions fund from the European Commission, the Japan Society for the Promotion of Science (JSPS) fund, and the Australia Endeavour fund, for contributions in the field of sustainable geotechnics.
- Proudly served as an evaluator for the assessment of proposals in the prestigious HORIZON-MSCA-PF-2022 call

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WORK HISTORY

Wilton Joubert Consulting Engineers

Auckland, Whangarei, & Christchurch, New Zealand
November 2021-present

Senior Geotechnical Team Leader

- A chartered professional engineer (CPEng) and chartered member of engineering New Zealand (CMEngNZ)
- Lead geotechnical team at Auckland, Christchurch, Whangarei, Hamilton, and Kerikeri
- Provide geotechnical design and analysis for residential buildings, including groundwater drawdown analysis, liquefaction analysis, settlement analysis, bearing capacity calculation for shallow and deep foundations, slope stability analysis, shallow and deep investigation, CPT and SPT interpretation, and RFI response preparation
- Review geotechnical review and authorization

for building and resource consent
- Delivered training sessions
- worked with WALLAP, PLAXIS, CPeT-IT, Cliq, Settle3D, etc.

European Research Executive Agency
October 2024- December 2024
Remote work

ECI 2024 Reviewer and Rapporteur Project BIGALPS
- Role: Reviewer & Rapporteur
- Project: Bio-Inspired Geotechnical Applications to Launch Pan-European Solutions
- Focus Areas: Market uptake for slope stability, foundation soil, and erosion control
- Geographic scope: France and Romania

European Research Executive Agency)
October 2022-December 2022
Remote work

MSCA PF 2022 Evaluator
- as "the expert" evaluated the proposals in the area of sustainable geotechnics submitted in response to the call-HORIZON-MSCA-2022-PF-01

Auckland University of Technology (AUT) & AUT venture

Auckland, New Zealand
November 2021-**present**

Industry Technical Advisor & Senior Research Subcontractor
Research funded by the NZ Transport Agency
Utilization of waste glass and pumice using Alkaline activation for ground improvement

International College of Auckland

Civil Engineering Discipline,
Auckland
March 2017-November 2021

Senior Lecturer and Program Leader
- Taught geotechnical earthquake engineering according to the New Zealand Building Codes and Standards to civil engineering students at level 7
- Planned and delivered learning sessions, facilitated interactive learning sessions, managed learning events, and designed and evaluated assessment materials
- Led civil engineering program at level 7, met the requirements evaluated by the NZQA quality assurance
- Supervised final year project in the area of geotechnical engineering
- Acted as an external member of the advisory committee of geotechnical postgraduate students
- Performed editorial duties for the most prestigious geotechnical journals

University Putra Malaysia

Associate Professor, Grade UDQ9 Research Fellow,

Department of Civil Engineering,
Serdang, Malaysia
Dec 2011- Dec 2016

Grade UDQ10 Research Fellow, and Postdoctoral Fellow

- prepared geotechnical research proposals and received a rich number of allocations nationally and internationally.
- Managed geotechnical laboratory
- conducted a wide range of advanced saturated and unsaturated soil mechanics testing and determined unsaturated and saturated soil parameters.
- taught special topics to postgraduate students in the areas of groundwater flow analysis, slope stability analysis, stress and deformation analysis in soil, settlement analysis, and constitutive modeling of soil.
- supervised undergraduate, Master, and PhD students in geotechnical research, projects, and publication.
- published a rich number of peer-reviewed geotechnical papers
- mentored to new geotechnical researchers
- Assisted in research commercialization.
- Assisted in building networks and linkages with external collaborators.
- carried out research activities, including consultation in the areas of geotechnical engineering.

University of Wollongong

Centre for Geomechanics and Railway Engineering, Faculty of Engineering, Wollongong, Australia
May 2012-Nov 2012

Australia's Endeavour Fellow

- Assisted in conducting and determining of geotechnical and dynamic soil properties of treated soil

Hokkaido University

Faculty of Engineering, Sustainable Resources Engineering, and Geoenvironmental Engineering, Sapporo, Japan
May 2014-July 2014

JSPS invited Fellow

- Conducted collaborative ground improvement research, discussions, and opinion exchanges with geotechnical researchers in Japan.

Lecturer & Civil Engineer
Iran,
2002-2007

- Provided structural and geotechnical design in the state of Esfahan.
- Licensed Civil Engineer in the State of Isfahan, Iran, (Membership No. 203003166 & License No. 203001861), Construction Engineering Organization of Isfahan Province, Isfahan, Iran.
- Lectured civil engineering subjects, Azad University of Khorasgan

QUALIFICATIONS

Southern Institute of Technology
Auckland, New Zealand
2018-2020

New Zealand Certificate in Adult and Tertiary Teaching Programme (Level 5)

Papers: Quality Assurance assessment, Critically evaluate and improve own professional knowledge and practice in tertiary education and training, Plan for delivery of learning sessions, Manage learning events, Establish a culturally safe and inclusive learning environment for adults in New Zealand's cultural setting, Facilitate interactive learning sessions, Design and evaluate assessment materials, Facilitate learner-led interactive learning sessions for tertiary learners.

University Putra Malaysia

Serdang, Malaysia
June 2010

Doctor of Philosophy (Geotechnical Engineering)

Thesis: Electro-osmotic properties and effects of pH on geotechnical behaviour of peat
Papers: Earth structures, Retaining structures, groundwater hydraulics, special topics in advanced soil mechanics and constitutive modelling

Iran University of Science and Technology

Tehran, Iran

Master of Engineering (Civil Engineering-Environmental Engineering)

Thesis: Effects of Municipal solid waste leachate on geotechnical behaviour of soil

Azad University of Najaf-Abad
Esfahan, Iran

Bachelor of Civil Engineering
Papers: Soil Mechanics, Foundation Engineering, geotechnical engineering, Soil mechanics laboratory, etc.

PROFESSIONAL MEMBERSHIP

❏ Fellow of the Institution of Civil Engineers in UK (FICE, Membership number 71898825) Chartered Professional Engineer (CPEng) and a Chartered Member of Engineering New Zealand (CHMEngNZ) (Membership number 1029965)

❏ Advisory Board Member of *Environmental Geotechnics*, ICE Publishing, Institution of Civil Engineering, UK

❏ Editorial Board Member of *Environmental Geotechnics*, ICE Publishing, Institution of Civil Engineering, UK

❏ Editorial Board Member for *Proceedings of the Institution of Civil Engineers* - Civil Engineering, ICE Publishing, Institution of Civil Engineering, UK

❏ Licensed Engineer in the State of Isfahan, Iran, (Membership No. 203003166 & License No. 203001861), Construction Engineering Organization of Isfahan Province, Isfahan, Iran.

❏ Member of New Zealand Geotechnical Society

❏ Member of the Life Cycle Association of New Zealand

❏ Member of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

❏ Member of the International Society of Environmental Geotechnology (ID 200083)

❑ 2022-present Auckland Council Producer Statement Author, Auckland Council, Credential ID PSA125512

AWARDS AND HONORS

2017 Marie Skłodowska-Curie Actions Individual Fellowship (experienced category), London South Bank University, London, United Kingdom
Topic: Bio-cementation for railway earthworks — BioRail
2014 Invitational Fellowship (Short-term S) Japan Society for the Promotion of Science (JSPS), Division of Sustainable Resources Engineering, Hokkaido University, Sapporo, Japan
Topic: Electro-bio-stabilization of soil
2011: Australia Awards-Endeavour Fellowship University of Wollongong, NSW, Australia
Topic: Soil Chemical Stabilization and dynamic properties of treated soil
2018: Outstanding reviewer - Journal of Cleaner Production
2018: Outstanding reviewer-Tunneling and Underground Space Technology incorporating Trenchless Technology Research
2017: Outstanding reviewer - Transportation Geotechnics

EDITORIAL DUTIES

EDITORIAL BOARD MEMBER FOR THE FOLLOWING JOURNALS

- ❑ 2022-Present Advisory Board Member of Editorial Board Member of *Environmental Geotechnics*, ICE Publishing, Institution of Civil Engineering, UK
- ❑ 2017-2022 Editorial Board Member of *International Journal of Geosynthetics and Ground Engineering*, Springer
- ❑ 2013-Present Editorial Board Member of *Environmental Geotechnics*, ICE Publishing, Institution of Civil Engineering, UK
- ❑ 2015-Present Member of GEOMATE Technical Program Committee (GEOMATE TPC)
- ❑ 2023-Present Advisory Board Member of Editorial Board Member of Environmental Geotechnics, ICE Publishing, Institution of Civil Engineering, UK
- ❑ 2022- present Editorial Board Member for Proceedings of the Institution of Civil Engineers - Civil Engineering, ICE Publishing, Institution of Civil Engineering, UK

REVIEWER FOR THE FOLLOWING JOURNALS

- ❑ *Ground Improvement: Referees, Published Online: February 21, 2024 https://doi.org/10.1680/jgrim.2024.177.1.70*
- ❑ *Environmental Geotechnics. (2024). Referees 2023, Environmental Geotechnics, 11(1), 63. https://doi.org/10.1680/jenge.2024.11.1.63*
- ❑ *Proceedings of the Institution of Civil Engineers -Ground Improvement (Published Online: March 2023)*
- ❑ *Journal of Geotechnical and Geoenvironmental Engineering, 2023*
- ❑ *Environmental Geotechnics: Referees 2022, Volume 10 Issue 1, February 2023, pp. 98-99*
- ❑ *Géotechnique Letters: Referees (Published Online: April 01, 2022)*
- ❑ *Proceedings of the Institution of Civil Engineers -Ground Improvement (Published Online: January 20, 2022)*
- ❑ *Proceedings of the Institution of Civil Engineers -Geotechnical Engineering (Published Online: February 16, 2022)*
- ❑ *Journal of Materials in Civil Engineering, ASCE, Volume 34 Issue 4 - April 2022*
- ❑ *Geotechnical and Geological Engineering (Published: 18 April 2022)*

- *Géotechnique ICE* reviewers (Jan 2021)
- *Géotechnique Letters ICE*: (March 2021) Referees 2020
- Proceedings of The Institution of Civil Engineers ICE-*Ground Improvement*: Referees 2020 (Feb 2021)
- *Geotechnical Research*: Referees 2020 (March 2021)
- *Journal of Geotechnical and Geoenvironmental Engineering, ASCE,* Vol. 146, Issue 12 (Dec 2020)
- *Journal of Materials in Civil Engineering, ASCE,* Vol. 33, Issue 3 (March 2021)
- *Geotechnical Engineering ICE*: Referees Proceedings of the Institution of Civil Engineers - Geotechnical Engineering (Feb 2021)
- Acknowledgement of Reviewers for 2020. *Geotechnical and Geological Engineering* (2021).
- *Journal of Materials in Civil Engineering* ASCE, Vol. 32, Issue 4 (April 2020)
- *Proceedings of the Institution of Civil Engineers ICE - Ground Improvement*: Referees 2019, Volume 173 Issue 1, Feb 2020, pp. 62-62
- *Environmental Geotechnics ICE*: Referees 2019, Volume 7 Issue 1, February 2020, pp. 96-97
- *Geotechnical Research ICE*: Referees 2019 (March 202)
- Acknowledgement of Reviewers, *Geotechnical and Geological Engineering* April (2020)
- Journal of Geotechnical and Geoenvironmental Engineering *ASCE,* /Volume 146 Issue 1 - January 2020
- Acknowledgement of Reviewers, *Geotechnical and Geological Engineering* April (2019) 37: 1095
- *Proceedings of the Institution of Civil Engineers ICE- Ground Improvement*: Referees 2018, Volume 172 Issue 1, 2019
- My Elsevier reviews profile
- *Journal of Materials in Civil Engineering, ASCE,* Volume 31 Issue 1 - January 2019: Reviewers
- *Journal of Geotechnical and Geoenvironmental Engineering, ASCE,* /Volume 144 Issue 12 - December 2018
- *Proceedings of the Institution of Civil Engineers ICE-Ground Improvement*: Referees 2017
- ICE-*Environmental Geotechnics*: Referees 2017
- Journal of Materials in Civil Engineering, *ASCE*: Reviewers 2017
- *Geotechnical and Geological Engineering*, Springer: Acknowledgement of Reviewers 2017: February 2018, Volume 36, Issue 1, pp 697–704
- *Journal of Materials in Civil Engineering, ASCE*: Reviewers 2016
- *Journal of Rock Mechanics and Geotechnical Engineering*: Reviewer Acknowledgement: Referees 2016
- *Proceedings of the Institution of Civil Engineers ICE-Ground Improvement*: Referees 2015
- *Journal of Rock Mechanics and Geotechnical Engineering*: Reviewer Acknowledgement: Referees 2015
- *Proceedings of the Institution of Civil Engineers ICE-Ground Improvement*: Referees 2014
- *Proceedings of the Institution of Civil Engineers ICE- Ground Improvement*: Referees 2013
- *Proceedings of the Institution of Civil Engineers ICE - Geotechnical Engineering*; Referees 2012
- *Proceedings of the Institution of Civil Engineers ICE- Geotechnical Engineering*: Referees 2011

PUBLICATIONS

BOOKS

- **2022:** Environmental Geotechnology: Meeting Challenges Through Need-based Instrumentation, World Scientific Publishing, Singapore. 325 p.2
- 2014: Geotechnics of Organic Soils and Peat, CRC Press. 250p

- 2016: Soil Mechanics and Foundation Engineering

BOOK CHAPTER

- Slope Safety Preparedness in Southeast Asia for Effects of Climate Change, CRC Press, 400p.

PEER-REVIEWED PAPERS

- Kalatehjari, R., Khaksar Najafi, E., **Asadi, A.**, & Brook, M. (2024). New Zealand pumicite as a precursor in producing alkaline cement with aluminate-based activators. Case Studies in Construction Materials, 40, e04008. Elsevier. https://doi.org/10.1016/j.cscm.2024.e04008
- Mohamadzadeh Romiani, H.; Keykha, H.A.; Chegini, S.; **Asadi, A.**; Kawasaki, S. (2024). Utilizing Magnesium Carbonate Induced by CO2 to Modify the Performance of Plastic Clay. Minerals, 14, 876. https://doi.org/10.3390/min14090876
- R Kalatehjari, **A Asadi** (2024) A Sustainable Method for Stabilisation of Pumice Soil in Road Construction using Waste Glass in an Alkali Activation Process, Waka Kotahi, New Zealand Transport Agency.Report Hoe ki angitū Innovation Fund.
- Abdeldjouad, L., Dheyab, W., Gamil, Y., **Asadi, A**., & Shukla, S. K. (2023). Thermal Curing Effects on Alkali-Activated Treated Soils with Palm Oil Fuel Ash. Case Studies in Construction Materials, e02455. Elsevier.
- Keykha, H. A., Zangani, A., Romiani, H. M., **Asadi, A**., Kawasaki, S., & Radmanesh, N. (2023). Characterizing Microbial and CO2-Induced Carbonate Minerals: Implications for Soil Stabilization in Sandy Environments. Minerals, 13(7), 976.
- Singh, D. N., **Asadi, A.,** & Goli, V. S. N. S. (2022). Environmental Geotechnology: Meeting Challenges Through Needs-based Instrumentation. World Scientific.
- Emmanuel, E., Anggraini, V., Raghunandan, M. E., **Asadi, A.,** & Bouazza, A. (2022). Improving the engineering properties of a soft marine clay with forsteritic olivine. European Journal of Environmental and Civil Engineering, 26(2), 519-546.
- Emmanuel, E., Yong, L. L., **Asadi, A.,** & Anggraini, V. (2022). Full-factorial two-level design in optimizing the contents of olivine and coir fiber for improving the strength property of a soft marine clay. Journal of Natural Fibers, 19(2), 546-561.
- Emmanuel, E., Anggraini, V., & **Asadi, A**. (2022). An investigation on the breakage behavior of olivine sand particles: An attainable region technique. Advanced Powder Technology, 33(2), 103422.
- Keykha, H. A., Romiani, H. M., Zebardast, E., **Asadi, A**., & Kawasaki, S. (**2021**). CO2-induced carbonate minerals as soil stabilizing agents for dust suppression. *Aeolian Research*, *52*, 100731.
- Romiani, H. M., Keykha, H. A., Talebi, M., **Asadi, A**., & Kawasaki, S. (**2021**). Green soil improvement: using carbon dioxide to enhance the behaviour of clay. Proceedings of the Institution of Civil Engineers-Ground Improvement, 1-26.
- Saffari, P., Nie, W., **Asadi, A.**, Fu, S., Jian, W., Wang, G., & Deng, Y. (2020). A Comparative Study of Shear Strength Equations for Unsaturated Granitic Residual Soil. *Advances in Civil Engineering Materials*, Advance online publication. Retrieved from https://doi.org/10.1520/ACEM20190184
- Tang, C. S., Paleologos, E. K., Vitone, C., Du, Y. J., Li, J. S., Jiang, N. J., **Asadi, A**.,... & Dominijanni, A. (2020). Environmental Geotechnics: Challenges and Opportunities in the Post COVID-19 World. *Environmental Geotechnics*, 1-21.
- Emmanuel, E., Anggraini, V., Raghunandan, M. E., & **Asadi, A.** (2020). Utilization of Marine Clay as a Bottom Liner Material in Engineered Landfills. *Journal of Environmental Chemical Engineering*, 104048.
- Saffari, P., Nie, W., Noor, M.J.M., **Asadi, A.**, Liu, J., Zhang, X. (2020). Collapse behaviour of unsaturated remoulded granitic residual soil. *Bull Eng Geol Environ*. https://doi.org/10.1007/s10064-020-01789-9

- Elkhebu, A., Zainorabidin, A., **Asadi, A**., Bakar, I. H., Huat, B. B., Abdeldjouad, L., & Dheyab, W. (2020). Effect of incorporating multifilament polypropylene fibres into alkaline activated fly ash soil mixtures. *Soils and Foundations.* doi: 10.1016/j.sandf.2019.11.015
- Emmanuel, E., Anggraini, V., **Asadi, A**., & Raghunandan, M. E. (2020). Interaction of landfill leachate with olivine-treated marine clay: Suitability for bottom liner application. Environmental Technology & Innovation, 17, 100574. doi: 10.1016/j.eti.2019.100574
- Abdeldjouad, L., **Asadi**, A., Ball, R., Nahazanan, H., & Huat, B. B. (2019). Application of alkali-activated palm oil fuel ash reinforced with glass fibers in soil stabilization. *Soils and Foundations*. doi: 10.1016/j.sandf.2019.07.008
- Emmanuel, E., Anggraini, V., Raghunandan, M. E., **Asadi, A**., & Bouazza, A. (2019). Improving the engineering properties of a soft marine clay with forsteritic olivine. *European Journal of Environmental and Civil Engineering*, 1–28. doi: 10.1080/19648189.2019.1665593
- Abdeldjouad, L., **Asadi, A.**, Nahazanan, H., Huat, B. B. K., Dheyab, W., & Elkhebu, A. G. (2019). Effect of Clay Content on Soil Stabilization with Alkaline Activation. *International Journal of Geosynthetics and Ground Engineering*, *5*(1). doi: 10.1007/s40891-019-0157-y
- Aminu, I., Asadi, A., O'Kelly, B. C., Huat, B. B. K., & Reul, O. (2018). Ultra Lightweight foundation system for peaty ground. *Environmental Geotechnics*, 1–10. doi: 10.1680/jenge.17.00075
- Keykha, H. A., Mohamadzadeh, H., Asadi, A., & Kawasaki, S. (2018). Ammonium-Free Carbonate-Producing Bacteria as an Ecofriendly Soil Biostabilizer. *Geotechnical Testing Journal*, *42*(1), 20170353. doi: 10.1520/gtj20170353
- Keykha, H. A., Asadi, A., Huat, B. B. K., & Kawasaki, S. (2018). Laboratory Conditions for Maximal Calcium Carbonate Precipitation Induced by Sporosarcina pasteurii and Sporosarcina aquimarina Bacteria. *Environmental Geotechnics*, 1–20. doi: 10.1680/jenge.16.00009
- Farzadnia, N., Bahmani, S. H., Asadi, A., & Hosseini, S. (2018). Mechanical and microstructural properties of cement pastes with rice husk ash coated with carbon nanofibers using a natural polymer binder. *Construction and Building Materials*, *175*, 691–704. doi: 10.1016/j.conbuildmat.2018.04.205
- Saffari, P., Noor, M. J. M., Ashaari, Y., & Asadi, A. (2018). Shear Strength of Unsaturated Malaysian Granitic Residual Soil. *Journal of Testing and Evaluation*, *47*(1), 20170305. doi: 10.1520/jte20170305
- Bakhshipour, Z., Asadi, A., Sridharan, A., & Huat, B. B. (2017). Acid Rain Intrusion Effects on the Compressibility Behaviour of Residual Soils. *Environmental Geotechnics*, 1–38. doi: 10.1680/jenge.15.00081
- Keykha, H. A., Asadi, A., & Zareian, M. (2017). Environmental Factors Affecting the Compressive Strength of Microbiologically Induced Calcite Precipitation-Treated Soil. *Geomicrobiology Journal*, *34*(10), 889–894. doi: 10.1080/01490451.2017.1291772
- Alsafi, S., Farzadnia, N., Asadi, A., & Huat, B. K. (2017). Collapsibility potential of gypseous soil stabilized with fly ash geopolymer; characterization and assessment. *Construction and Building Materials*, *137*, 390–409. doi: 10.1016/j.conbuildmat.2017.01.079
- Pourakbar, S., Asadi, A., Huat, B. B. K., Cristelo, N., & Fasihnikoutalab, M. H. (2017). Application of Alkali-Activated Agro-Waste Reinforced with Wollastonite Fibers in Soil Stabilization. *Journal of Materials in Civil Engineering*, *29*(2), 04016206. doi: 10.1061/(asce)mt.1943-5533.0001735
- Keykha, H. A., & Asadi, A. (2017). Solar Powered Electro-Bio-Stabilization of Soil with Ammonium Pollution Prevention System. *Advances in Civil Engineering Materials*, *6*(1), 20170001. doi: 10.1520/acem20170001
- Fasihnikoutalab, M. H., Asadi, A., Unluer, C., Huat, B. K., Ball, R. J., & Pourakbar, S. (2017). Utilization of Alkali-Activated Olivine in Soil Stabilization and the Effect of Carbonation on Unconfined Compressive Strength and Microstructure. *Journal of Materials in Civil Engineering*, *29*(6), 06017002. doi: 10.1061/(asce)mt.1943-5533.0001833

- Anggraini, V., Asadi, A., Syamsir, A., & Huat, B. B. (2017). Three point bending flexural strength of cement treated tropical marine soil reinforced by lime treated natural fiber. *Measurement*, *111*, 158–166. doi: 10.1016/j.measurement.2017.07.045
- Bakhshipour, Z., Asadi, A., Huat, B. B., Sridharan, A., & Kawasaki, S. (2016). Effect of acid rain on geotechnical properties of residual soils. *Soils and Foundations*, *56*(6), 1008–1020. doi: 10.1016/j.sandf.2016.11.006
- Bakhshipour, Z., Asadi, A., Huat, B. B. K., & Sridharan, A. (2016). Long-Term Intruding Effects of Acid Rain on Engineering Properties of Primary and Secondary Kaolinite Clays. *International Journal of Geosynthetics and Ground Engineering*, *2*(3). doi: 10.1007/s40891-016-0059-1
- Bahmani, S. H., Farzadnia, N., Asadi, A., & Huat, B. B. (2016). The effect of size and replacement content of nanosilica on strength development of cement treated residual soil. *Construction and Building Materials*, *118*, 294–306. doi: 10.1016/j.conbuildmat.2016.05.075
- Fasihnikoutalab, M. H., Asadi, A., Huat, B. K., Westgate, P., Ball, R. J., & Pourakbar, S. (2016). Laboratory-scale model of carbon dioxide deposition for soil stabilisation. *Journal of Rock Mechanics and Geotechnical Engineering*, *8*(2), 178–186. doi: 10.1016/j.jrmge.2015.11.001
- Fasihnikoutalab, M. H., Asadi, A., Huat, B. K., Ball, R. J., Pourakbar, S., & Singh, P. (2017). Utilisation of carbonating olivine for sustainable soil stabilisation. *Environmental Geotechnics*, *4*(3), 184–198. doi: 10.1680/jenge.15.00018
- Anggraini, V., Asadi, A., Farzadnia, N., Jahangirian, H., & Huat, B. B. K. (2016). Effects of coir fibres modified with Ca(OH)2and Mg(OH)2nanoparticles on mechanical properties of lime-treated marine clay. *Geosynthetics International*, *23*(3), 206–218. doi: 10.1680/jgein.15.00046
- Pourakbar, S., Huat, B. B. K., Asadi, A., & Fasihnikoutalab, M. H. (2016). Model Study of Alkali-Activated Waste Binder for Soil Stabilization. *International Journal of Geosynthetics and Ground Engineering*, *2*(4). doi: 10.1007/s40891-016-0075-1
- Anggraini, V., Asadi, A., Farzadnia, N., Jahangirian, H., & Huat, B. B. K. (2016). Reinforcement Benefits of Nanomodified Coir Fiber in Lime-Treated Marine Clay. *Journal of Materials in Civil Engineering*, *28*(6), 06016005. doi: 10.1061/(asce)mt.1943-5533.0001516
- Pourakbar, S., Asadi, A., Huat, B. B., & Fasihnikoutalab, M. H. (2015). Soil stabilisation with alkali-activated agro-waste. *Environmental Geotechnics*. doi: 10.1680/jenge.15.00009
- Anggraini, V., Asadi, A., Huat, B. B. K., & Nahazanan, H. (2015). Performance of Chemically Treated Natural Fibres and Lime in Soft Soil for the Utilisation as Pile-Supported Earth Platform. *International Journal of Geosynthetics and Ground Engineering*, *1*(3). doi: 10.1007/s40891-015-0031-5
- Pourakbar, S., Asadi, A., Huat, B. B., & Fasihnikoutalab, M. H. (2015). Stabilization of clayey soil using ultrafine palm oil fuel ash (POFA) and cement. *Transportation Geotechnics*, *3*, 24–35. doi: 10.1016/j.trgeo.2015.01.002
- Anggraini, V., Huat, B. B. K., Asadi, A., & Nahazanan, H. (2014). Effect of Coir Fibers on the Tensile and Flexural Strength of Soft Marine Clay. *Journal of Natural Fibers*, *12*(2), 185–200. doi: 10.1080/15440478.2014.912973
- Anggraini, V., Asadi, A., Huat, B. B. K., & Syamsir, A. (2015). Numerical Simulation of Cement-Treated Soil Reinforced with Coir Fiber Subjected to Flexural Loading. *Forensic Engineering 2015*. doi: 10.1061/9780784479711.089
- Keykha, H. A., Huat, B. B. K., Asadi, A., Zareian, M., & Kawasaki, S. (2015). Electrokinetic properties of pasteurii and aquimarina bacteria. *Environmental Geotechnics*, *2*(3), 181–188. doi: 10.1680/envgeo.13.00072
- Keykha, H. A., Huat, B. B. K., & Asadi, A. (2015). Electro-biogrouting stabilisation of soft soil. *Environmental Geotechnics*, *2*(5), 292–300. doi: 10.1680/envgeo.13.00068
- Anggraini, V., Asadi, A., Huat, B. B., & Nahazanan, H. (2015). Effects of coir fibers on tensile and compressive strength of lime treated soft soil. *Measurement*, *59*, 372–381. doi: 10.1016/j.measurement.2014.09.059

- Bahmani, S. H., Huat, B. B., Asadi, A., & Farzadnia, N. (2014). Stabilization of residual soil using SiO2 nanoparticles and cement. *Construction and Building Materials*, *64*, 350–359. doi: 10.1016/j.conbuildmat.2014.04.086
- Keykha, H. A., Huat, B. B. K., & Asadi, A. (2014). Electrokinetic Stabilization of Soft Soil Using Carbonate-Producing Bacteria. *Geotechnical and Geological Engineering*, *32*(4), 739–747. doi: 10.1007/s10706-014-9753-8
- Huat, B. B. K., Prasad, A., Asadi, A., & Kazemian, S. (2014). *Geotechnics of organic soils and peat*. London: Crc Press.
- Nahazanan, H., Clarke, S., Asadi, A., Md.yusoff, Z., & Huat, B. K. (2013). Effect of inundation on shear strength characteristics of mudstone backfill. *Engineering Geology*, *158*, 48–56. doi: 10.1016/j.enggeo.2013.03.003
- Roozbahani, M. M., Huat, B. B., & Asadi, A. (2013). The effect of different random number distributions on the porosity of spherical particles. *Advanced Powder Technology*, *24*(1), 26–35. doi: 10.1016/j.apt.2012.01.006
- Roozbahani, M. M., Huat, B. B., & Asadi, A. (2012). Effect of rectangular containers sides on porosity for equal-sized sphere packing. *Powder Technology*, *224*, 46–50. doi: 10.1016/j.powtec.2012.02.018
- Asadi, A., Huat, B. B., Hanafi, M. M., Mohamed, T., & Shariatmadari, N. (2011). Chemico-geomechanical sensitivities of tropical peat to pore fluid pH related to controlling electrokinetic environment. *Journal of the Chinese Institute of Engineers*, *34*(4), 481–487. doi: 10.1080/02533839.2011.576491
- Asadi, A., Huat, B. B. K., Hanafi, M. M., Mohamed, T. A., & Shariatmadari, N. (2010). Physicochemical sensitivities of tropical peat to electrokinetic environments. *Geosciences Journal*, *14*(1), 67 -75. doi: 10.1007/s12303-010-0008-2
- Kazemian, S., Asadi, A., Huat, B. B. K., Prasad, A., & Rahim, I. B. A. (2009). Settlement Problems in Peat Due to Their High Compressibility and Possible Solution Using Cement Columns. *Forensic Engineering 2009*. doi: 10.1061/41082(362)26
- Asadi, A., Huat, B. B. K., Hanafi, M. M., Mohamed, T. A., & Shariatmadari, N. (2009). Role of organic matter on electroosmotic properties and ionic modification of organic soils. *Geosciences Journal*, *13*(2), 175–181. doi: 10.1007/s12303-009-0017-1

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