

Mahdi Miri Disfani

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

3,596
citations

159585

30
h-index

138484

58
g-index

74
all docs

74
docs citations

74
times ranked

2045
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Geotechnical and Geoenvironmental Properties of Recycled Construction and Demolition Materials in Pavement Subbase Applications. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1077-1088. | 2.9 | 363 |
| 2 | Physical properties and shear strength responses of recycled construction and demolition materials in unbound pavement base/subbase applications. <i>Construction and Building Materials</i> , 2014, 58, 245-257. | 7.2 | 218 |
| 3 | Calcium carbide residue: Alkaline activator for clay-fly ash geopolymer. <i>Construction and Building Materials</i> , 2014, 69, 285-294. | 7.2 | 183 |
| 4 | Suitability of recycled construction and demolition aggregates as alternative pipe backfilling materials. <i>Journal of Cleaner Production</i> , 2014, 66, 75-84. | 9.3 | 157 |
| 5 | Recycled crushed glass in road work applications. <i>Waste Management</i> , 2011, 31, 2341-2351. | 7.4 | 154 |
| 6 | Laboratory Evaluation of the Use of Cement-Treated Construction and Demolition Materials in Pavement Base and Subbase Applications. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, . | 2.9 | 151 |
| 7 | Flexural beam fatigue strength evaluation of crushed brick as a supplementary material in cement stabilized recycled concrete aggregates. <i>Construction and Building Materials</i> , 2014, 68, 667-676. | 7.2 | 150 |
| 8 | Reclaimed Asphalt Pavement and Recycled Concrete Aggregate Blends in Pavement Subbases: Laboratory and Field Evaluation. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, 349-357. | 2.9 | 140 |
| 9 | Environmental risks of using recycled crushed glass in road applications. <i>Journal of Cleaner Production</i> , 2012, 20, 170-179. | 9.3 | 133 |
| 10 | Recycled construction and demolition materials in permeable pavement systems: geotechnical and hydraulic characteristics. <i>Journal of Cleaner Production</i> , 2015, 90, 183-194. | 9.3 | 115 |
| 11 | Stabilization of Demolition Materials for Pavement Base/Subbase Applications Using Fly Ash and Slag Geopolymers: Laboratory Investigation. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, . | 2.9 | 107 |
| 12 | Impact of particle shape on breakage of recycled construction and demolition aggregates. <i>Powder Technology</i> , 2017, 308, 1-12. | 4.2 | 102 |
| 13 | Modulus of rupture evaluation of cement stabilized recycled glass/recycled concrete aggregate blends. <i>Construction and Building Materials</i> , 2015, 84, 146-155. | 7.2 | 99 |
| 14 | Engineering and environmental properties of foamed recycled glass as a lightweight engineering material. <i>Journal of Cleaner Production</i> , 2015, 94, 369-375. | 9.3 | 80 |
| 15 | Resilient Moduli Response of Recycled Construction and Demolition Materials in Pavement Subbase Applications. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1920-1928. | 2.9 | 79 |
| 16 | Geotechnical Performance of Recycled Glass-Waste Rock Blends in Footpath Bases. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 653-661. | 2.9 | 73 |
| 17 | Impact of field conditions on the strength development of a geopolymer stabilized marine clay. <i>Applied Clay Science</i> , 2019, 167, 33-42. | 5.2 | 70 |
| 18 | Spent coffee grounds as a non-structural embankment fill material: engineering and environmental considerations. <i>Journal of Cleaner Production</i> , 2014, 72, 181-186. | 9.3 | 69 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Durability against wetting and drying cycles of sustainable Lightweight Cellular Cemented construction material comprising clay and fly ash wastes. <i>Construction and Building Materials</i> , 2015, 77, 41-49. | 7.2 | 68 |
| 20 | Recycled-Glass Blends in Pavement Base/Subbase Applications: Laboratory and Field Evaluation. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, . | 2.9 | 64 |
| 21 | Spent Coffee Grounds as Fly Ash Geopolymer Used as an Embankment Structural Fill Material. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, . | 2.9 | 63 |
| 22 | Select chemical and engineering properties of wastewater biosolids. <i>Waste Management</i> , 2011, 31, 2522-2526. | 7.4 | 55 |
| 23 | Laboratory Evaluation of the Geotechnical Characteristics of Wastewater Biosolids in Road Embankments. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1682-1691. | 2.9 | 41 |
| 24 | Swell-shrink Cycles of Lime Stabilized Expansive Subgrade. <i>Procedia Engineering</i> , 2016, 143, 615-622. | 1.2 | 37 |
| 25 | Strength Development and Microfabric Structure of Construction and Demolition Aggregates Stabilized with Fly Ash-Based Geopolymers. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, . | 2.9 | 37 |
| 26 | Progressive Internal Erosion in a Gap-Graded Internally Unstable Soil: Mechanical and Geometrical Effects. <i>International Journal of Geomechanics</i> , 2018, 18, . | 2.7 | 37 |
| 27 | Engineering and Environmental Assessment of Recycled Construction and Demolition Materials Used with Geotextile for Permeable Pavements. <i>Journal of Environmental Engineering, ASCE</i> , 2015, 141, . | 1.4 | 36 |
| 28 | Piezometer measurements of prefabricated vertical drain improvement of soft soils under land reclamation fill. <i>Engineering Geology</i> , 2013, 162, 33-42. | 6.3 | 32 |
| 29 | Engineering properties of lightweight cellular cemented clay-fly ash material. <i>Soils and Foundations</i> , 2015, 55, 471-483. | 3.1 | 32 |
| 30 | Impact of compaction method on mechanical characteristics of unbound granular recycled materials. <i>Road Materials and Pavement Design</i> , 2018, 19, 912-934. | 4.0 | 32 |
| 31 | Mechanical Consequences of Suffusion on Undrained Behaviour of a Gap-Graded Cohesionless Soil - An Experimental Approach. <i>Geotechnical Testing Journal</i> , 2017, 40, 20160145. | 1.0 | 32 |
| 32 | Water-Void to Cement Ratio Identity of Lightweight Cellular-Cemented Material. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, . | 2.9 | 31 |
| 33 | Small-Strain Behavior of Cement-Stabilized Recycled Concrete Aggregate in Pavement Base Layers. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, . | 2.9 | 30 |
| 34 | Performance evaluation of semi-flexible permeable pavements under cyclic loads. <i>International Journal of Pavement Engineering</i> , 2020, 21, 336-346. | 4.4 | 28 |
| 35 | Shear and Compression Characteristics of Recycled Glass-Tire Mixtures. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, . | 2.9 | 27 |
| 36 | Mechanical behaviour and load bearing mechanism of high porosity permeable pavements utilizing recycled tire aggregates. <i>Construction and Building Materials</i> , 2018, 168, 794-804. | 7.2 | 27 |

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|----|---|------|-----------|
| 37 | Fine recycled glass: a sustainable alternative to natural aggregates. <i>International Journal of Geotechnical Engineering</i> , 2011, 5, 255-266. | 2.0 | 26 |
| 38 | Predicting effective thermal conductivity in sands using an artificial neural network with multiscale microstructural parameters. <i>International Journal of Heat and Mass Transfer</i> , 2021, 170, 120997. | 4.8 | 26 |
| 39 | Long-term settlement prediction for wastewater biosolids in road embankments. <i>Resources, Conservation and Recycling</i> , 2013, 77, 69-77. | 10.8 | 25 |
| 40 | Post-breakage changes in particle properties using synchrotron tomography. <i>Powder Technology</i> , 2018, 325, 530-544. | 4.2 | 25 |
| 41 | Impact of three-dimensional sphericity and roundness on heat transfer in granular materials. <i>Powder Technology</i> , 2019, 355, 770-781. | 4.2 | 25 |
| 42 | Densification of Land Reclamation Sands by Deep Vibratory Compaction Techniques. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, . | 2.9 | 24 |
| 43 | Evaluating the in-situ hydraulic conductivity of soft soil under land reclamation fills with the BAT permeameter. <i>Engineering Geology</i> , 2014, 168, 98-103. | 6.3 | 24 |
| 44 | Utilization of Alkali-Activated Fly Ash for Construction of Deep Mixed Columns in Loose Sands. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, . | 2.9 | 24 |
| 45 | Suitability of Using Recycled Glass-Crushed Rock Blends for Pavement Subbase Applications. , 2011, , . | | 22 |
| 46 | Displacement-Based Approach for the Assessment of Overturning Stability of Rectangular Rigid Barriers Subjected to Point Impact. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, . | 2.9 | 18 |
| 47 | Quantifying the impact of rigid interparticle structures on heat transfer in granular materials using networks. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118514. | 4.8 | 17 |
| 48 | Geotechnical Properties of Lightly Stabilized Recycled Demolition Materials in Base/Sub-Base Applications. , 2015, , . | | 15 |
| 49 | Field performance monitoring of waste tire-based permeable pavements. <i>Transportation Geotechnics</i> , 2020, 24, 100384. | 4.5 | 15 |
| 50 | Discussion of "Development of an Internal Camera-Based Volume Determination System for Triaxial Testing" by S. E. Salazar, A. Barnes and R. A. Coffman. The Technical Note Was Published in <i>Geotechnical Testing Journal</i> , Vol. 38, No. 4, 2015. [DOI: 10.1520/GTJ20140249]. <i>Geotechnical Testing Journal</i> , 2016, 39, 20150153. | 1.0 | 15 |
| 51 | Network analysis of heat transfer in sphere packings. <i>Powder Technology</i> , 2020, 362, 790-804. | 4.2 | 14 |
| 52 | Post-erosion mechanical response of internally unstable soil of varying size and flow regime. <i>Canadian Geotechnical Journal</i> , 2021, 58, 531-539. | 2.8 | 14 |
| 53 | Development of a void ratio-moisture ratio-net stress framework for the prediction of the volumetric behavior of unsaturated granular materials. <i>Soils and Foundations</i> , 2019, 59, 443-457. | 3.1 | 12 |
| 54 | Impact of Compaction Methods on Resilient Response of Unsaturated Granular Pavement Material. <i>Procedia Engineering</i> , 2016, 143, 323-330. | 1.2 | 11 |

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|----|--|-----|-----------|
| 55 | Effect of Swell–Shrink Cycles on Volumetric Behavior of Compacted Expansive Clay Stabilized Using Lime. <i>International Journal of Geomechanics</i> , 2020, 20, 04020212. | 2.7 | 11 |
| 56 | Lightly Stabilized Loose Sands with Alkali-Activated Fly Ash in Deep Mixing Applications. <i>International Journal of Geomechanics</i> , 2021, 21, . | 2.7 | 11 |
| 57 | Recycled Aggregate Mixtures for Backfilling Sewer Trenches in Nontrafficable Areas. <i>International Journal of Geomechanics</i> , 2022, 22, . | 2.7 | 11 |
| 58 | Impact of suffusion on the cyclic and post-cyclic behaviour of an internally unstable soil. <i>Geotechnique Letters</i> , 2019, 9, 218-224. | 1.2 | 10 |
| 59 | Experimental and Analytical Investigation of a RC Wall with a Gabion Cushion Subjected to Boulder Impact. <i>International Journal of Impact Engineering</i> , 2021, 151, 103823. | 5.0 | 10 |
| 60 | Suitability of swelling and collapse theory proposed based on virgin compression surface. <i>Soils and Foundations</i> , 2021, 61, 113-128. | 3.1 | 6 |
| 61 | Impact of particle shape on networks in sands. <i>Computers and Geotechnics</i> , 2021, 137, 104258. | 4.7 | 6 |
| 62 | Changes to Grain Properties due to Breakage in a Sand Assembly using Synchrotron Tomography. <i>EPJ Web of Conferences</i> , 2017, 140, 07004. | 0.3 | 5 |
| 63 | A prediction model for the loading-wetting volumetric behavior of unsaturated granular materials. <i>Soils and Foundations</i> , 2021, 61, 623-641. | 3.1 | 4 |
| 64 | Experiments and Dimensional Analysis of Waste Tire-Based Permeable Pavements. <i>Geosynthetics International</i> , 0, , 1-34. | 2.9 | 4 |
| 65 | Discussion of “Fines Classification Based on Sensitivity to Pore-Fluid Chemistry” by Junbong Jang and J. Carlos Santamarina. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, . | 3.0 | 3 |
| 66 | Sustainable Usage of Construction and Demolition Materials in Roads and Footpaths. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2017, , 3-13. | 0.4 | 3 |
| 67 | Battered minipile response to low-frequency cyclic lateral loading in very dense sand. <i>Acta Geotechnica</i> , 2022, 17, 4033-4050. | 5.7 | 3 |
| 68 | Compressibility Behavior of Soft–Rigid Granular Mixtures Bound with Polyurethane Binder. <i>International Journal of Geomechanics</i> , 2022, 22, . | 2.7 | 2 |
| 69 | In Situ Testing of Soft Soil at a Case Study Site with the Self-Boring Pressuremeter. <i>Geotechnical Testing Journal</i> , 2011, 34, 355-363. | 1.0 | 1 |
| 70 | Deep Compaction of Granular Fills in a Land Reclamation Project by Dynamic and Vibratory Compaction Techniques. , 2015, , 263-274. | | 1 |
| 71 | Discussion of “Stress-Strain Behavior of Granular Soils Subjected to Internal Erosion” by C. Chen, L. M. Zhang, and D. S. Chang. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, 07017019. | 3.0 | 0 |
| 72 | Mechanical Performance of Tire-Derived Aggregate Permeable Pavements Under Live Traffic Loads. <i>Lecture Notes in Civil Engineering</i> , 2022, , 515-528. | 0.4 | 0 |