Abbas Mohajerani

List of Publications by Year
in descending order

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65 papers	3,334 citations	201658 27 h-index	149686 56 g-index
66 all docs	66 docs citations	66 times ranked	2958 citing authors

#	Article	IF	Citations
1	The urban heat island effect, its causes, and mitigation, with reference to the thermal properties of asphalt concrete. Journal of Environmental Management, 2017, 197, 522-538.	7.8	552
2	Recycling waste rubber tyres in construction materials and associated environmental considerations: A review. Resources, Conservation and Recycling, 2020, 155, 104679.	10.8	294
3	Practical recycling applications of crushed waste glass in construction materials: A review. Construction and Building Materials, 2017, 156, 443-467.	7.2	279
4	Effects of recycled concrete aggregates on properties of asphalt concrete. Resources, Conservation and Recycling, 2006, 48, 1-12.	10.8	192
5	Nanoparticles in Construction Materials and Other Applications, and Implications of Nanoparticle Use. Materials, 2019, 12, 3052.	2.9	161
6	A practical proposal for solving the worldâ€™s cigarette butt problem: Recycling in fired clay bricks. Waste Management, 2016, 52, 228-244.	7.4	122
7	Microplastics and pollutants in biosolids have contaminated agricultural soils: An analytical study and a proposal to cease the use of biosolids in farmlands and utilise them in sustainable bricks. Waste Management, 2020, 107, 252-265.	7.4	97
8	Recycling of Waste Materials for Asphalt Concrete and Bitumen: A Review. Materials, 2020, 13, 1495.	2.9	96
9	Recycling waste materials in geopolymer concrete. Clean Technologies and Environmental Policy, 2019, 21, 493-515.	4.1	89
10	Amazing Types, Properties, and Applications of Fibres in Construction Materials. Materials, 2019, 12, 2513.	2.9	86
11	Analysis and design methods of screw piles: A review. Soils and Foundations, 2016, 56, 115-128.	3.1	78
12	The toxicity and valorization options of cigarette butts. Waste Management, 2020, 104, 104-118.	7.4	73
13	Variation in physical and mechanical properties of fired-clay bricks incorporating ETP biosolids. Journal of Cleaner Production, 2016, 119, 76-85.	9.3	72
14	Physico-mechanical properties of asphalt concrete incorporated with encapsulated cigarette butts. Construction and Building Materials, 2017, 153, 69-80.	7.2	67
15	Possible use of biosolids in fired-clay bricks. Construction and Building Materials, 2015, 91, 86-93.	7.2	59
16	Strength and Microstructural Study of Recycled Asphalt Pavement: Slag Geopolymer as a Pavement Base Material. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	52
17	Recycling cigarette butts in lightweight fired clay bricks. Proceedings of Institution of Civil Engineers: Construction Materials, 2011, 164, 219-229.	1.1	51
18	Effect of heating rate on gas emissions and properties of fired clay bricks and fired clay bricks incorporated with cigarette butts. Applied Clay Science, 2015, 104, 269-276.	5.2	47

#	Article	IF	Citations
19	Characterisation of fired-clay bricks incorporating biosolids and the effect of heating rate on properties of bricks. Construction and Building Materials, 2017, 142, 11-22.	7.2	46
20	Expanded polystyrene geofoam in pavement construction. Construction and Building Materials, 2017, 157, 438-448.	7.2	46
21	Leachate analysis of green and fired-clay bricks incorporated with biosolids. Waste Management, 2017, 66, 134-144.	7.4	41
22	A Proposal for Recycling the Worldâ€™s Unused Stockpiles of Treated Wastewater Sludge (Biosolids) in Fired-Clay Bricks. Buildings, 2019, 9, 14.	3.1	38
23	Energy savings, thermal conductivity, micro and macro structural analysis of fired clay bricks incorporating cigarette butts. Construction and Building Materials, 2021, 283, 122755.	7.2	38
24	Composite piles: A review. Construction and Building Materials, 2016, 107, 394-410.	7.2	37
25	Chromated copper arsenate timber: A review of products, leachate studies and recycling. Journal of Cleaner Production, 2018, 179, 292-307.	9.3	36
26	Possible Recycling of Cigarette Butts as Fiber Modifier in Bitumen for Asphalt Concrete. Materials, 2020, 13, 734.	2.9	34
27	Recycling of Cigarette Butts in Fired Clay Bricks: A New Laboratory Investigation. Materials, 2020, 13, 790.	2.9	31
28	Bricks: An Excellent Building Material for Recycling Wastes â€“ A Review. , 2011, , .		27
29	Moisture content limits of Iron Ore Fines to prevent liquefaction during transport: Review and experimental study. International Journal of Mineral Processing, 2016, 148, 137-146.	2.6	26
30	Physical, mechanical and chemical properties of biosolids and raw brown coal fly ash, and their combination for road structural fill applications. Journal of Cleaner Production, 2017, 166, 1-11.	9.3	24
31	Fired-Clay Bricks Incorporating Biosolids: Comparative Life-Cycle Assessment. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	24
32	Leachate Analysis of Heavy Metals in Cigarette Butts and Bricks Incorporated with Cigarette Butts. Materials, 2020, 13, 2843.	2.9	24
33	Determination of the transportable moisture limit of iron ore fines for the prevention of liquefaction in bulk carriers. Marine Structures, 2015, 40, 193-224.	3.8	23
34	Resilient modulus of fine-grained soil and a simple testing and calculation method for determining an average resilient modulus value for pavement design. Transportation Geotechnics, 2016, 7, 59-70.	4.5	23
35	Possible simplified method for the determination of the resilient modulus of unbound granular materials. Road Materials and Pavement Design, 2016, 17, 841-858.	4.0	21
36	Properties and environmental impact of the mosaic sludge incorporated into fired clay bricks. Construction and Building Materials, 2018, 183, 300-310.	7.2	21

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37	Possible use of cigarette butt fiber modified bitumen in stone mastic asphalt. Construction and Building Materials, 2020, 263, 120134.	7.2	21
38	Effect of Organic Content in Biosolids on the Properties of Fired-Clay Bricks Incorporated with Biosolids. Journal of Materials in Civil Engineering, 2017, 29, .	2.9	20
39	Determination of CBR for fine-grained soils using a dynamic lightweight cone penetrometer. International Journal of Pavement Engineering, 2015, 16, 180-189.	4.4	19
40	Liquefaction Incidents of Mineral Cargoes on Board Bulk Carriers. Advances in Materials Science and Engineering, 2016, 2016, 1-20.	1.8	18
41	Bulk cargo liquefaction incidents during marine transportation and possible causes. Ocean Engineering, 2017, 141, 125-142.	4.3	18
42	Estimation of resilient modulus of unbound granular materials using Clegg impact value and field stress levels. Transportation Geotechnics, 2016, 7, 115-129.	4.5	16
43	Variation of the geotechnical properties of Iron Ore Fines under cyclic loading. Ocean Engineering, 2016, 126, 411-431.	4.3	15
44	A new practical method for determining the LA abrasion value for aggregates. Soils and Foundations, 2017, 57, 840-848.	3.1	15
45	Environmental impacts and leachate analysis of waste rubber incorporated in construction and road materials: A review. Science of the Total Environment, 2022, 835, 155269.	8.0	14
46	Geotechnical properties of steel slag aggregates: Shear strength and stiffness. Soils and Foundations, 2019, 59, 1591-1601.	3.1	13
47	Implementation of Recycling Cigarette Butts in Lightweight Bricks and a Proposal for Ending the Littering of Cigarette Butts in Our Cities. Materials, 2020, 13, 4023.	2.9	13
48	Use of bitumen encapsulated cigarette butts in stone mastic asphalt. Construction and Building Materials, 2020, 261, 120530.	7.2	13
49	A study of gas emissions during the firing process from bricks incorporating biosolids. Waste Management, 2018, 74, 413-426.	7.4	12
50	Properties Improvement of Fired Clay Bricks Incorporating with Cigarette Butts. Advanced Materials Research, 0, 535-537, 1723-1730.	0.3	11
51	An overview of the behaviour of iron ore fines cargoes, and some recommended solutions for the reduction of shifting incidents during marine transportation. Ocean Engineering, 2019, 182, 451-474.	4.3	11
52	Possible estimation of resilient modulus of fine-grained soils using a dynamic lightweight cone penetrometer. International Journal of Pavement Engineering, 2017, 18, 473-484.	4.4	10
53	Cyclic Behavior of Iron Ore Fines on Board Bulk Carriers: Scale Model Analysis. Journal of Materials in Civil Engineering, 2017, 29, .	2.9	10
54	Laboratory scale reproduction and analysis of the behaviour of iron ore fines under cyclic loading to investigate liquefaction during marine transportation. Marine Structures, 2018, 59, 482-509.	3.8	10

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55	Recycling Crushed Waste Beer Bottle Glass in Fired Clay Bricks. Buildings, 2021, 11, 483.	3.1	8
56	Physical and Mechanical Properties of Fired Clay Bricks Incorporated with Cigarette Butts: Comparison between Slow and Fast Heating Rates. Applied Mechanics and Materials, 0, 421, 201-204.	0.2	7
57	Engineering and Leachate Characteristics of Granulated Blast-Furnace Slag as a Construction Material. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	7
58	Slope stability evaluation of iron ore fines during marine transport in bulk carriers. Canadian Geotechnical Journal, 2018, 55, 258-278.	2.8	5
59	Polycyclic Aromatic Hydrocarbons (PAHs) in Fired Clay Bricks Incorporating Cigarette Butts. Materials, 2021, 14, 2032.	2.9	5
60	Clegg impact hammer: an equipment for evaluation of the strength characteristics of pavement materials, turf, and natural and artificial playing surfaces: a review. Road Materials and Pavement Design, 2020, 21, 467-485.	4.0	4
61	A practical technique for the compaction control of sand in road construction: using a dynamic lightweight cone penetrometer. Road Materials and Pavement Design, 2021, 22, 200-214.	4.0	3
62	Bitumen and Paraffin Wax Encapsulated Cigarette Butts: Physical Properties and Leachate Analysis. International Journal of Pavement Research and Technology, 0, , 1.	2.6	3
63	Recycling Waste Cigarette Butts in Dense Graded Asphalt. Journal of Materials in Civil Engineering, 2021, 33, 04021313.	2.9	3
64	Thermal conductivity and environmental aspects of cigarette butt modified asphalt. Case Studies in Construction Materials, 2021, 15, e00569.	1.7	2
65	Recycling Cigarette Butts in Ceramic Tiles. Buildings, 2022, 12, 17.	3.1	1