Shuaicheng Guo

List of Publications by Year
in descending order

64 papers	2,775 citations	201674 27 h-index	175258 52 g-index
64 all docs	64 docs citations	64 times ranked	1734 citing authors

#	Article	IF	Citations
1	Evaluation of properties and performance of rubber-modified concrete for recycling of waste scrap tire. Journal of Cleaner Production, 2017, 148, 681-689.	9.3	234
2	A review on durability of fiber reinforced polymer (FRP) bars reinforced seawater sea sand concrete. Construction and Building Materials, 2020, 256, 119484.	7.2	211
3	A review on the deterioration and approaches to enhance the durability of concrete in the marine environment. Cement and Concrete Composites, 2020, 113, 103695.	10.7	177
4	Mechanical, durability, and microstructural properties of macro synthetic polypropylene (PP) fiber-reinforced rubber concrete. Journal of Cleaner Production, 2019, 234, 1351-1364.	9.3	167
5	Durability performance of rubberized mortar and concrete with NaOH-Solution treated rubber particles. Construction and Building Materials, 2017, 153, 496-505.	7.2	136
6	Investigation of properties and performances of Polyvinyl Alcohol (PVA) fiber-reinforced rubber concrete. Construction and Building Materials, 2018, 193, 631-642.	7.2	118
7	Mechanical property, nanopore structure and drying shrinkage of metakaolin-based geopolymer with waste glass powder. Journal of Cleaner Production, 2020, 242, 118502.	9.3	104
8	Evaluation of laboratory performance of self-consolidating concrete with recycled tire rubber. Journal of Cleaner Production, 2018, 180, 823-831.	9.3	100
9	A review on the tensile behavior of fiber-reinforced polymer composites under varying strain rates and temperatures. Construction and Building Materials, 2021, 294, 123565.	7.2	82
10	Mechanical behavior and durability of coral aggregate concrete and bonding performance with fiber-reinforced polymer (FRP) bars: A critical review. Journal of Cleaner Production, 2021, 289, 125652.	9.3	75
11	Improvements on high-temperature stability, rheology, and stiffness of asphalt binder modified with waste crayfish shell powder. Journal of Cleaner Production, 2020, 264, 121745.	9.3	65
12	Mechanical and durability performance evaluation of crumb rubber-modified epoxy polymer concrete overlays. Construction and Building Materials, 2019, 203, 469-480.	7.2	64
13	New innovations in pavement materials and engineering: A review on pavement engineering research 2021. Journal of Traffic and Transportation Engineering (English Edition), 2021, 8, 815-999.	4.2	59
14	Atomic force microscope study of the aging/rejuvenating effect on asphalt morphology and adhesion performance. Construction and Building Materials, 2019, 205, 642-655.	7.2	58
15	A critical review of corrosion development and rust removal techniques on the structural/environmental performance of corroded steel bridges. Journal of Cleaner Production, 2019, 233, 126-146.	9.3	57
16	The effects of aging in seawater and SWSSC and strain rate on the tensile performance of GFRP/BFRP composites: A critical review. Construction and Building Materials, 2021, 282, 122534.	7.2	55
17	Fresh and mechanical performance and freeze-thaw durability of steel fiber-reinforced rubber self-compacting concrete (SRSCC). Journal of Cleaner Production, 2020, 277, 123180.	9.3	54
18	Performance and optimization of bio-oil/Buton rock asphalt composite modified asphalt. Construction and Building Materials, 2020, 264, 120235.	7.2	54

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19	Characteristics of Water-Foamed Asphalt Mixture under Multiple Freeze-Thaw Cycles: Laboratory Evaluation. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	53
20	Effect of alkalinity on the shear performance degradation of basalt fiber-reinforced polymer bars in simulated seawater sea sand concrete environment. Construction and Building Materials, 2021, 299, 123957.	7.2	53
21	Atomic-structure, microstructure and mechanical properties of glass powder modified metakaolin-based geopolymer. Construction and Building Materials, 2020, 254, 119303.	7.2	47
22	Reduced alkali-silica reaction damage in recycled glass mortar samples with supplementary cementitious materials. Journal of Cleaner Production, 2018, 172, 3621-3633.	9.3	45
23	Preparation of nano-xylan and its influences on the anti-fungi performance of straw fiber/HDPE composite. Industrial Crops and Products, 2021, 171, 113954.	5.2	42
24	A critical review on the performance of portland cement concrete with recycled organic components. Journal of Cleaner Production, 2018, 188, 92-112.	9.3	39
25	External sulfate attack on concrete under combined effects of flexural fatigue loading and drying-wetting cycles. Construction and Building Materials, 2020, 249, 118224.	7.2	36
26	Shear creep parameters of simulative soil for deep-sea sediment. Journal of Central South University, 2014, 21, 4682-4689.	3.0	33
27	Rapid microwave irradiation synthesis of carbon nanotubes on graphite surface and its application on asphalt reinforcement. Composites Part B: Engineering, 2017, 124, 134-143.	12.0	33
28	Ultrasonic scattering measurement of air void size distribution in hardened concrete samples. Construction and Building Materials, 2016, 113, 415-422.	7.2	29
29	Experimental investigation of physical properties and accelerated sunlight-healing performance of flake graphite and exfoliated graphite nanoplatelet modified asphalt materials. Construction and Building Materials, 2017, 134, 412-423.	7.2	29
30	Strength and durability of dry-processed stone matrix asphalt containing cement pre-coated scrap tire rubber particles. Construction and Building Materials, 2019, 214, 475-483.	7.2	26
31	Characteristics of calcareous sand filler and its influence on physical and rheological properties of asphalt mastic. Construction and Building Materials, 2021, 301, 124112.	7.2	26
32	Transverse low-velocity impact performance of BFRP bars after exposure to the saline-alkaline environment. Construction and Building Materials, 2021, 307, 124650.	7.2	26
33	Enhancement mechanism of the organic nano-montmorillonite and its effect on the properties of wood fiber/HDPE composite. Industrial Crops and Products, 2021, 169, 113634.	5.2	25
34	Leaching evaluation and performance assessments of asphalt mixtures with recycled cathode ray tube glass: A preliminary study. Journal of Cleaner Production, 2021, 279, 123716.	9.3	24
35	Property Analysis of Exfoliated Graphite Nanoplatelets Modified Asphalt Model Using Molecular Dynamics (MD) Method. Applied Sciences (Switzerland), 2017, 7, 43.	2.5	23
36	Evaluation of cathode ray tube (CRT) glass concrete with/without surface treatment. Journal of Cleaner Production, 2019, 226, 85-95.	9.3	23

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37	Microwave-healing performance of modified asphalt mixtures with flake graphite and exfoliated graphite nanoplatelet. Construction and Building Materials, 2018, 187, 865-875.	7.2	22
38	Influence of calcium content on the atomic structure and phase formation of alkaliâ€activated cement binder. Journal of the American Ceramic Society, 2019, 102, 1479-1494.	3.8	21
39	Effect of calcium and lithium on alkali-silica reaction kinetics and phase development. Cement and Concrete Research, 2019, 115, 220-229.	11.0	20
40	Laboratory performance evaluation of both flake graphite and exfoliated graphite nanoplatelet modified asphalt composites. Construction and Building Materials, 2017, 149, 515-524.	7.2	19
41	Development of fatigue damage model of asphalt mixtures based on small-scale accelerated pavement test. Construction and Building Materials, 2020, 260, 119930.	7.2	19
42	Internal curing effect of saturated coral coarse aggregate in high-strength seawater sea sand concrete. Construction and Building Materials, 2022, 331, 127280.	7.2	19
43	Investigation on the freeze-thaw damage to the jointed plain concrete pavement under different climate conditions. Frontiers of Structural and Civil Engineering, 2018, 12, 227-238.	2.9	18
44	Design of pH-responsive SAP polymer for pore solution chemistry regulation and crack sealing in cementitious materials. Composites Part B: Engineering, 2020, 199, 108262.	12.0	18
45	Ultrasonic Techniques for Air Void Size Distribution and Property Evaluation in Both Early-Age and Hardened Concrete Samples. Applied Sciences (Switzerland), 2017, 7, 290.	2.5	16
46	X-ray CT characterization and fracture simulation of ASR damage of glass particles in alkaline solution and mortar. Theoretical and Applied Fracture Mechanics, 2017, 92, 76-88.	4.7	15
47	Kinetic analysis and thermodynamic simulation of alkaliâ€silica reaction in cementitious materials. Journal of the American Ceramic Society, 2019, 102, 1463-1478.	3.8	13
48	Microstructure characterization of alkali-glass particle and alkali-glass powder reacted gels with neutron scattering and imaging techniques. Materials Characterization, 2017, 131, 98-107.	4.4	11
49	Performance Evaluation of the Polyurethane-Based Composites Prepared with Recycled Polymer Concrete Aggregate. Materials, 2020, 13, 616.	2.9	11
50	Surface-treated fish scale powder with silane coupling agent in asphalt for performance improvement: Conventional properties, rheology, and morphology. Journal of Cleaner Production, 2021, 311, 127772.	9.3	11
51	Improvement on the high-temperature stability and anti-aging performance of the rubberized asphalt binder with the Lucobit additive. Construction and Building Materials, 2021, 299, 124304.	7.2	11
52	Investigation on high-temperature resistance to permanent deformation of waste leather modified asphalt. Construction and Building Materials, 2021, 282, 122541.	7.2	10
53	High-Frequency Fatigue Performance of Cracked Mortar after Epoxy Grouting Reinforcement. International Journal of Geomechanics, 2019, 19, 04019035.	2.7	8
54	Evaluation and improvement on the freeze-thaw durability performance of the polyurethane stabilized Pisha sandstone for water and soil conservation. Cold Regions Science and Technology, 2020, 177, 103065.	3.5	8

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55	Nonlinear Fatigue Damage of Cracked Cement Paste after Grouting Enhancement. Applied Sciences (Switzerland), 2018, 8, 1105.	2.5	4
56	Flexural and Shear Bond Performance of Polyurethane-Mortar Interface under Micro- and Macroscale. Journal of Materials in Civil Engineering, 2019, 31, .	2.9	4
57	Hierarchical Structure and Mechanical Properties of Fish Scales from Lutjanidae with Different Habitat Depths. Journal of Fish Biology, 2021, , .	1.6	4
58	Effect of brucite fibers and early strength agent on cement stabilized macadam in Alpine regions. International Journal of Pavement Research and Technology, 2019, 12, 315-324.	2.6	3
59	Influence of surface roughness on the adhesion force between the titanium plate and deep-sea sediment. Marine Georesources and Geotechnology, 2021, 39, 1516-1524.	2.1	3
60	Study on Rubberized Concrete Reinforced with Different Fibers. ACI Materials Journal, 2019, 116, .	0.2	2
61	A new approach of quantitatively analyzing water states by neutron scattering in hardened cement paste. Materials Characterization, 2018, 136, 134-143.	4.4	1
62	Nanomodified asphalt mixture with enhanced performance. , 2019, , 187-201.		1
63	Dynamic flexural behavior of AR-glass textile reinforced concrete under low-velocity impact loading. Journal of Sustainable Cement-Based Materials, 2023, 12, 49-67.	3.1	1
64	Neutron scattering measurement of water content and chemical composition of alkali-glass powder reacted gel. Materials Characterization, 2018, 136, 165-174.	4.4	0