List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Experimental and Numerical Investigation of Fracture Behaviors of Steel Fiber–Reinforced Rubber Self-Compacting Concrete. Journal of Materials in Civil Engineering, 2022, 34, .	2.9	29
2	Discussion on molecular dynamics (MD) simulations of the asphalt materials. Advances in Colloid and Interface Science, 2022, 299, 102565.	14.7	63
3	Investigation of the mechanical and shrinkage properties of plastic-rubber compound modified cement mortar with recycled tire steel fiber. Construction and Building Materials, 2022, 334, 127391.	7.2	18
4	Laboratory shear bond test for chip-seal under varying environmental and material conditions. International Journal of Pavement Engineering, 2021, 22, 1107-1115.	4.4	13
5	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
6	A numerical study on rutting behaviour of direct coal liquefaction residue modified asphalt mixture. Road Materials and Pavement Design, 2021, 22, 1454-1468.	4.0	7
7	Integrated experimental and numerical study on flexural properties of cross laminated timber made of low-value sugar maple lumber. Construction and Building Materials, 2021, 280, 122508.	7.2	8
8	Mechanical Property Evaluation of Hybrid Mixed-Species CLT Panels with Sugar Maple and White Spruce. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	9
9	Flexural and shear performance of CLT panels made from salvaged beetle-killed white spruce. Construction and Building Materials, 2021, 302, 124381.	7.2	6
10	A Review on Utilization of Electronic Waste Plastics for Use Within Asphaltic Concrete Materials: Development, Opportunities and Challenges for Successful Implementation. , 2020, , 737-749.		2
11	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
12	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
13	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
14	Experimental and molecular dynamics simulation study on thermal, transport, and rheological properties of asphalt. Construction and Building Materials, 2020, 265, 120358.	7.2	48
15	Performance Evaluations of Pavement Underlying Chip-Seal: Laboratory Testing on Pavement Cores. , 2020, , .		0
16	Reliability Assessment of Electrical Grids Subjected to Wind Hazards and Ice Accretion with Concurrent Wind. Journal of Structural Engineering, 2020, 146, .	3.4	15
17	Stability and rheology of asphalt-emulsion under varying acidic and alkaline levels. Journal of Cleaner Production, 2020, 256, 120417.	9.3	16
18	Atomic-structure, microstructure and mechanical properties of glass powder modified metakaolin-based geopolymer. Construction and Building Materials, 2020, 254, 119303.	7.2	47

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19	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
20	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
21	Mechanical and durability performance evaluation of crumb rubber-modified epoxy polymer concrete overlays. Construction and Building Materials, 2019, 203, 469-480.	7.2	64
22	Investigation of adhesion and interface bond strength for pavements underlying chip-seal: Effect of asphalt-aggregate combinations and freeze-thaw cycles on chip-seal. Construction and Building Materials, 2019, 203, 322-330.	7.2	45
23	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
24	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
25	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
26	High-Frequency Fatigue Performance of Cracked Mortar after Epoxy Grouting Reinforcement. International Journal of Geomechanics, 2019, 19, 04019035.	2.7	8
27	Evaluation of cathode ray tube (CRT) glass concrete with/without surface treatment. Journal of Cleaner Production, 2019, 226, 85-95.	9.3	23
28	Evaluation of contact angle between asphalt binders and aggregates using Molecular Dynamics (MD) method. Construction and Building Materials, 2019, 212, 727-736.	7.2	36
29	Nanomodified asphalt mixture with enhanced performance. , 2019, , 187-201.		1
30	Numerical and Experimental Study of Internal Curing Effects on Permeability of Mortar Samples. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	2
31	Effect of calcium and lithium on alkali-silica reaction kinetics and phase development. Cement and Concrete Research, 2019, 115, 220-229.	11.0	20
32	Study on Rubberized Concrete Reinforced with Different Fibers. ACI Materials Journal, 2019, 116, .	0.2	2
33	Evaluation of laboratory performance of self-consolidating concrete with recycled tire rubber. Journal of Cleaner Production, 2018, 180, 823-831.	9.3	100
34	Neutron scattering measurement of water content and chemical composition of alkali-glass powder reacted gel. Materials Characterization, 2018, 136, 165-174.	4.4	0
35	A new approach of quantitatively analyzing water states by neutron scattering in hardened cement paste. Materials Characterization, 2018, 136, 134-143.	4.4	1
36	Modulus simulation of asphalt binder models using Molecular Dynamics (MD) method. Construction and Building Materials, 2018, 162, 430-441.	7.2	43

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37	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
38	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
39	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
40	Cepstrum-based operational modal analysis of wind turbines with and without external flaps. Journal of Renewable and Sustainable Energy, 2018, 10, 063303.	2.0	0
41	Investigation of properties and performances of Polyvinyl Alcohol (PVA) fiber-reinforced rubber concrete. Construction and Building Materials, 2018, 193, 631-642.	7.2	118
42	Rheological Performance of Bio-Char Modified Asphalt with Different Particle Sizes. Applied Sciences (Switzerland), 2018, 8, 1665.	2.5	33
43	Advanced Pavement Technologies. Journal of Materials in Civil Engineering, 2018, 30, 02018001.	2.9	0
44	Nonlinear Fatigue Damage of Cracked Cement Paste after Grouting Enhancement. Applied Sciences (Switzerland), 2018, 8, 1105.	2.5	4
45	Design and simulation of Macro-Fiber composite based serrated microflap for wind turbine blade fatigue load reduction. Materials Research Express, 2018, 5, 055505.	1.6	7
46	Characteristics of Water-Foamed Asphalt Mixture under Multiple Freeze-Thaw Cycles: Laboratory Evaluation. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	53
47	Advanced Paving Materials and Technologies. Applied Sciences (Switzerland), 2018, 8, 588.	2.5	1
48	Assessment of nanoparticles dispersion in asphalt during bubble escaping and bursting: Nano hydrated lime modified foamed asphalt. Construction and Building Materials, 2018, 184, 391-399.	7.2	31
49	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
50	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
51	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
52	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
53	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
54	Design and Simulation of Active External Trailing-Edge Flaps for Wind Turbine Blades on Load Reduction. Journal of Aerospace Engineering, 2017, 30, .	1.4	8

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55	Durability performance of rubberized mortar and concrete with NaOH-Solution treated rubber particles. Construction and Building Materials, 2017, 153, 496-505.	7.2	136
56	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
57	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
58	Evaluation of Recovered Fracture Strength after Light-Healing of Graphite-Modified Asphalt Mixtures with Integrated Computational-Experimental Approach. Journal of Materials in Civil Engineering, 2017, 29, 04016289.	2.9	5
59	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
60	Property Analysis of Exfoliated Graphite Nanoplatelets Modified Asphalt Model Using Molecular Dynamics (MD) Method. Applied Sciences (Switzerland), 2017, 7, 43.	2.5	23
61	Investigation of the asphalt–aggregate interaction using molecular dynamics. Petroleum Science and Technology, 2017, 35, 586-593.	1.5	22
62	Rheological properties, low-temperature cracking resistance, and optical performance of exfoliated graphite nanoplatelets modified asphalt binder. Construction and Building Materials, 2016, 113, 988-996.	7.2	85
63	Ultrasonic scattering measurement of air void size distribution in hardened concrete samples. Construction and Building Materials, 2016, 113, 415-422.	7.2	29
64	Review on heterogeneous model reconstruction of stone-based composites in numerical simulation. Construction and Building Materials, 2016, 117, 229-243.	7.2	67
65	Investigation of microwave healing performance of electrically conductive carbon fiber modified asphalt mixture beams. Construction and Building Materials, 2016, 126, 1012-1019.	7.2	68
66	Aerodynamic Analysis of Flow-Control Devices for Wind Turbine Applications Based on the Trailing-Edge Slotted-Flap Concept. Journal of Aerospace Engineering, 2016, 29, .	1.4	10
67	Integrated computational–experimental approach for evaluating recovered fracture strength after induction healing of asphalt concrete beam samples. Construction and Building Materials, 2016, 106, 700-710.	7.2	23
68	Molecular dynamics simulation of physicochemical properties of the asphalt model. Fuel, 2016, 164, 83-93.	6.4	126
69	Investigation of internal curing effects on microstructure and permeability of interface transition zones in cement mortar with SEM imaging, transport simulation and hydration modeling techniques. Construction and Building Materials, 2015, 76, 366-379.	7.2	47
70	Surface-dependence of interfacial binding strength between zinc oxide and graphene. RSC Advances, 2015, 5, 65719-65724.	3.6	15
71	Integrated Experimental-Numerical Approach for Estimating Asphalt Mixture Induction Healing Level through Discrete Element Modeling of a Single-Edge Notched Beam Test. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	36
72	Fourier Transform Infrared Spectroscopy characterization of aging-related properties of original and nano-modified asphalt binders. Construction and Building Materials, 2015, 101, 1078-1087.	7.2	179

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73	Chemo-physical analysis and molecular dynamics (MD) simulation of moisture susceptibility of nano hydrated lime modified asphalt mixtures. Construction and Building Materials, 2015, 101, 536-547.	7.2	92
74	Transmission X-Ray Microscope Nanoscale Characterization and 3D Micromechanical Modeling of Internal Frost Damage in Cement Paste. Journal of Nanomechanics & Micromechanics, 2014, 4, .	1.4	9
75	Computational investigation of pore permeability and connectivity from transmission X-ray microscope images of a cement paste specimen. Construction and Building Materials, 2014, 68, 240-251.	7.2	32
76	Side-groove influenced parameters for determining fracture toughness of self-healing composites using a tapered double cantilever beam specimen. Theoretical and Applied Fracture Mechanics, 2014, 74, 23-29.	4.7	14
77	Mechanical performance of asphalt mixtures modified by bio-oils derived from waste wood resources. Construction and Building Materials, 2014, 51, 424-431.	7.2	176
78	2D cohesive zone modeling of crack development in cementitious digital samples with microstructure characterization. Construction and Building Materials, 2014, 54, 584-595.	7.2	35
79	Numerical investigation of internal frost damage of digital cement paste samples with cohesive zone modeling and SEM microstructure characterization. Construction and Building Materials, 2014, 50, 266-275.	7.2	15
80	Investigation of internal frost damage in cementitious materials with micromechanics analysis, SEM imaging and ultrasonic wave scattering techniques. Construction and Building Materials, 2014, 50, 478-485.	7.2	23
81	Modeling stability of flap-enabled HAWT blades using spinning finite elements. , 2014, , .		0
82	Investigation of induction healing effects on electrically conductive asphalt mastic and asphalt concrete beams through fracture-healing tests. Construction and Building Materials, 2013, 49, 729-737.	7.2	87
83	Investigation of Internal Frost Damage in Concrete with Thermodynamic Analysis, Microdamage Modeling, and Time-Domain Reflectometry Sensor Measurements. Journal of Materials in Civil Engineering, 2013, 25, 1248-1259.	2.9	18
84	Micromechanical analysis and finite element modeling of electromechanical properties of active piezoelectric structural fiber (PSF) composites. , 2013, , .		0
85	Integration of computational model and SEM imaging technology to investigate internal frost damage in cementitious materials. Proceedings of SPIE, 2013, , .	0.8	0
86	Damage investigation of single-edge notched beam tests with concrete specimens using acoustic emission techniques. Proceedings of SPIE, 2013, , .	0.8	0
87	Investigation of electromechanical properties of piezoelectric structural fiber composites with micromechanics analysis and finite element modeling. Mechanics of Materials, 2012, 53, 29-46.	3.2	27
88	Tailored Extended Finite-Element Model for Predicting Crack Propagation and Fracture Properties within Idealized and Digital Cementitious Material Samples. Journal of Engineering Mechanics - ASCE, 2012, 138, 89-100.	2.9	10
89	Damage investigation of single-edge notched beam tests with normal strength concrete and ultra high performance concrete specimens using acoustic emission techniques. Construction and Building Materials, 2012, 31, 231-242.	7.2	45
90	Review of advances in understanding impacts of mix composition characteristics on asphalt concrete (AC) mechanics. International Journal of Pavement Engineering, 2011, 12, 385-405.	4.4	25

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91	Investigation of Fracture Behavior of Heterogeneous Infrastructure Materials with Extended-Finite-Element Method and Image Analysis. Journal of Materials in Civil Engineering, 2011, 23, 1662-1671.	2.9	36
92	Development of Micromechanics Models and Innovative Sensor Technologies to Evaluate Internal Frost Damage of Concrete. Transportation Research Record, 2011, 2240, 50-58.	1.9	6
93	Micromechanics models and innovative sensor technologies to evaluate internal-frost damage of concrete. Proceedings of SPIE, 2011, , .	0.8	2
94	Two- and three-dimensional micromechanical viscoelastic finite element modeling of stone-based materials with X-ray computed tomography images. Construction and Building Materials, 2011, 25, 1102-1114.	7.2	89
95	Nanoclay-modified asphalt materials: Preparation and characterization. Construction and Building Materials, 2011, 25, 1072-1078.	7.2	349
96	Three-Dimensional Micromechanical Finite-Element Network Model for Elastic Damage Behavior of Idealized Stone-Based Composite Materials. Journal of Engineering Mechanics - ASCE, 2011, 137, 410-421.	2.9	12
97	Micromechanical analysis of constitutive properties of active piezoelectric structural fiber (PSF) composites. , 2011, , .		0
98	Three-Dimensional Microstructural-Based Discrete Element Viscoelastic Modeling of Creep Compliance Tests for Asphalt Mixtures. Journal of Materials in Civil Engineering, 2011, 23, 79-87.	2.9	61
99	Micromechanical viscoelastoâ€plastic models and finite element implementation for rateâ€independent and rateâ€dependent permanent deformation of stoneâ€based materials. International Journal for Numerical and Analytical Methods in Geomechanics, 2010, 34, 1321-1345.	3.3	3
100	Prediction of Dynamic Modulus and Phase Angle of Stone-Based Composites Using a Micromechanical Finite-Element Approach. Journal of Materials in Civil Engineering, 2010, 22, 618-627.	2.9	38
101	Stiffness of Sand Mastic versus Stiffness of Asphalt Binder Using Three-Dimensional Discrete Element Method. , 2010, , .		1
102	A Microstructure-Based Approach for Simulating Viscoelastic Behaviors of Asphalt Mixtures. , 2010, , .		2
103	Micromechanical analysis of damping performance of piezoelectric structural fiber composites. Proceedings of SPIE, 2010, , .	0.8	1
104	An eXtended Finite Element Model for Characterization of Concrete Fracture Properties with Compact Tension Tests. , 2010, , .		1
105	Air void effect on an idealised asphalt mixture using two-dimensional and three-dimensional discrete element modelling approach. International Journal of Pavement Engineering, 2010, 11, 381-391.	4.4	14
106	Determining the specific gravities of coarse aggregates utilizing vacuum saturation approach. Construction and Building Materials, 2009, 23, 1316-1322.	7.2	11
107	Viscoelastic Model for Discrete Element Simulation of Asphalt Mixtures. Journal of Engineering Mechanics - ASCE, 2009, 135, 324-333.	2.9	172
108	Micromechanical finite element framework for predicting viscoelastic properties of asphalt mixtures. Materials and Structures/Materiaux Et Constructions, 2008, 41, 1025-1037.	3.1	56

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109	DEM Models of Idealized Asphalt Mixtures. , 2008, , .		2
110	Three-Dimensional Discrete Element Models for Asphalt Mixtures. Journal of Engineering Mechanics - ASCE, 2008, 134, 1053-1063.	2.9	156
111	Micromechanical Finite Element Models for Micro-Damage and Complex Constitutive Behavior of Asphalt Mixes. , 2008, , .		0
112	Two Dimensional and Three Dimensional Discrete Element Models for HMA. , 2008, , .		1
113	Dynamic Moduli for M-E Design of Asphalt Pavements. , 2008, , .		2
114	A Three-Dimensional Micro-Frame Element Network Model for Damage Behavior of Asphalt Mixtures. , 2008, , .		0
115	Aggregate Effect on Asphalt Mixture Properties by Modeling Particle-to-Particle Interaction. , 2007, , .		5
116	Investigation of Linear and Damage-Coupled Viscoelastic Properties of Sustainable Asphalt Mixture Using a Micromechanical Finite Element Approach. , 2007, , .		1
117	Dynamic complex modulus predictions of hot-mix asphalt using a micromechanical-based finite element model. Canadian Journal of Civil Engineering, 2007, 34, 1519-1528.	1.3	42
118	Review of advances in micromechanical modeling of aggregate–aggregate interactions in asphalt mixtures. Canadian Journal of Civil Engineering, 2007, 34, 239-252.	1.3	34
119	Prediction of Creep Stiffness of Asphalt Mixture with Micromechanical Finite-Element and Discrete-Element Models. Journal of Engineering Mechanics - ASCE, 2007, 133, 163-173.	2.9	168
120	A micromechanical finite element model for linear and damage-coupled viscoelastic behaviour of asphalt mixture. International Journal for Numerical and Analytical Methods in Geomechanics, 2006, 30, 1135-1158.	3.3	60
121	A comparison of micro-mechanical modeling of asphalt materials using finite elements and doublet mechanics. Mechanics of Materials, 2005, 37, 641-662.	3.2	48
122	Development and Implementation of a Finite Element Model for Asphalt Mixture to Predict Compressive Complex Moduli at Low and Intermediate Temperatures. , 2005, , 21.		4
123	Prediction of Damage Behaviors in Asphalt Materials Using a Micromechanical Finite-Element Model and Image Analysis. Journal of Engineering Mechanics - ASCE, 2005, 131, 668-677.	2.9	84
124	A Micromechanical Viscoelasto-Plastic Model for Asphalt Mixture. , 2005, , 12.		3
125	Parametric Model Study of Microstructure Effects on Damage Behavior of Asphalt Samples. International Journal of Pavement Engineering, 2004, 5, 19-30.	4.4	28
126	Microstructural Simulation of Asphalt Materials: Modeling and Experimental Studies. Journal of Materials in Civil Engineering, 2004, 16, 107-115.	2.9	83

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127	Simulation of Asphalt Materials Using Finite Element Micromechanical Model with Damage Mechanics. Transportation Research Record, 2003, 1832, 86-95.	1.9	63