Zhanping You

List of Publications by Year
in descending order

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473 papers	17,283 citations	15880 67 h-index	36203 101 g-index
483 all docs	483 docs citations	483 times ranked	5346 citing authors

#	Article	IF	Citations
1	Nanoclay-modified asphalt materials: Preparation and characterization. Construction and Building Materials, 2011, 25, 1072-1078.	3.2	349
2	Developments of nano materials and technologies on asphalt materials â€“ A review. Construction and Building Materials, 2017, 143, 633-648.	3.2	285
3	Rheological Properties and Chemical Bonding of Asphalt Modified with Nanosilica. Journal of Materials in Civil Engineering, 2013, 25, 1619-1630.	1.3	278
4	Performance of Warm Mix Asphalt containing SasobitÂ®: State-of-the-art. Construction and Building Materials, 2013, 38, 530-553.	3.2	276
5	Chemical Characterization of Biobinder from Swine Manure: Sustainable Modifier for Asphalt Binder. Journal of Materials in Civil Engineering, 2011, 23, 1506-1513.	1.3	274
6	Discrete Element Modeling to Predict the Modulus of Asphalt Concrete Mixtures. Journal of Materials in Civil Engineering, 2004, 16, 140-146.	1.3	220
7	Rheological properties and chemical analysis of nanoclay and carbon microfiber modified asphalt with Fourier transform infrared spectroscopy. Construction and Building Materials, 2013, 38, 327-337.	3.2	212
8	Laboratory evaluation on high temperature viscosity and low temperature stiffness of asphalt binder with high percent scrap tire rubber. Construction and Building Materials, 2012, 26, 583-590.	3.2	206
9	The mechanical properties of asphalt mixtures with Recycled Concrete Aggregates. Construction and Building Materials, 2010, 24, 230-235.	3.2	201
10	Chemical characterization and oxidative aging of bio-asphalt and its compatibility with petroleum asphalt. Journal of Cleaner Production, 2017, 142, 1837-1847.	4.6	201
11	Discrete Element Modeling of Asphalt Concrete: Microfabric Approach. Transportation Research Record, 2001, 1757, 111-118.	1.0	191
12	High temperature performance evaluation of bio-oil modified asphalt binders using the DSR and MSCR tests. Construction and Building Materials, 2015, 76, 380-387.	3.2	190
13	Fourier Transform Infrared Spectroscopy characterization of aging-related properties of original and nano-modified asphalt binders. Construction and Building Materials, 2015, 101, 1078-1087.	3.2	179
14	Mechanical performance of asphalt mixtures modified by bio-oils derived from waste wood resources. Construction and Building Materials, 2014, 51, 424-431.	3.2	176
15	Viscoelastic Model for Discrete Element Simulation of Asphalt Mixtures. Journal of Engineering Mechanics - ASCE, 2009, 135, 324-333.	1.6	172
16	Prediction of Creep Stiffness of Asphalt Mixture with Micromechanical Finite-Element and Discrete-Element Models. Journal of Engineering Mechanics - ASCE, 2007, 133, 163-173.	1.6	168
17	Effect of deicing solutions on the tensile strength of micro- or nano-modified asphalt mixture. Construction and Building Materials, 2011, 25, 195-200.	3.2	161
18	Three-Dimensional Discrete Element Models for Asphalt Mixtures. Journal of Engineering Mechanics - ASCE, 2008, 134, 1053-1063.	1.6	156

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19	The impact of bio-oil as rejuvenator for aged asphalt binder. Construction and Building Materials, 2019, 196, 134-143.	3.2	153
20	Dynamic modulus simulation of the asphalt concrete using the X-ray computed tomography images. Materials and Structures/Materiaux Et Constructions, 2009, 42, 617-630.	1.3	150
21	Performance of asphalt binder blended with non-modified and polymer-modified nanoclay. Construction and Building Materials, 2012, 35, 159-170.	3.2	143
22	Evaluation of Low-Temperature Binder Properties of Warm-Mix Asphalt, Extracted and Recovered RAP and RAS, and Bioasphalt. Journal of Materials in Civil Engineering, 2011, 23, 1569-1574.	1.3	142
23	Partial replacement of asphalt binder with bio-binder: characterisation and modification. International Journal of Pavement Engineering, 2012, 13, 515-522.	2.2	135
24	Visualization and Simulation of Asphalt Concrete with Randomly Generated Three-Dimensional Models. Journal of Computing in Civil Engineering, 2009, 23, 340-347.	2.5	130
25	Aging Influence on Rheology Properties of Petroleum-Based Asphalt Modified with Biobinder. Journal of Materials in Civil Engineering, 2014, 26, 358-366.	1.3	126
26	Molecular dynamics simulation of physicochemical properties of the asphalt model. Fuel, 2016, 164, 83-93.	3.4	126
27	A Wireless, Passive Embedded Sensor for Real-Time Monitoring of Water Content in Civil Engineering Materials. IEEE Sensors Journal, 2008, 8, 2053-2058.	2.4	124
28	Warm mix asphalt technology: An up to date review. Journal of Cleaner Production, 2020, 268, 122128.	4.6	120
29	Effectiveness of Vegetable Oils as Rejuvenators for Aged Asphalt Binders. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	119
30	Emission analysis of recycled tire rubber modified asphalt in hot and warm mix conditions. Journal of Hazardous Materials, 2019, 365, 942-951.	6.5	119
31	Preparation of composite shape-stabilized phase change materials for highway pavements. Construction and Building Materials, 2013, 42, 114-121.	3.2	118
32	Asphalt Binders Blended with a High Percentage of Biobinders: Aging Mechanism Using FTIR and Rheology. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	117
33	Analysis of interfacial adhesion properties of nano-silica modified asphalt mixtures using molecular dynamics simulation. Construction and Building Materials, 2020, 255, 119354.	3.2	111
34	Analysis on fatigue crack growth laws for crumb rubber modified (CRM) asphalt mixture. Construction and Building Materials, 2013, 47, 1342-1349.	3.2	109
35	Laboratory performance of warm mix asphalt containing recycled asphalt mixtures. Construction and Building Materials, 2014, 64, 141-149.	3.2	107
36	High temperature performance of SBS modified bio-asphalt. Construction and Building Materials, 2017, 144, 99-105.	3.2	107

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37	High-temperature rheological behavior and fatigue performance of lignin modified asphalt binder. Construction and Building Materials, 2020, 230, 117063.	3.2	107
38	Modification mechanism of asphalt binder with waste tire rubber and recycled polyethylene. Construction and Building Materials, 2016, 126, 66-76.	3.2	105
39	Environmental and mechanical performance of crumb rubber modified warm mix asphalt using Evotherm. Journal of Cleaner Production, 2017, 159, 346-358.	4.6	99
40	Laboratory investigation on chemical and rheological properties of bio-asphalt binders incorporating waste cooking oil. Construction and Building Materials, 2018, 167, 348-358.	3.2	96
41	Effect of short-term ageing temperature on bitumen properties. Road Materials and Pavement Design, 2017, 18, 108-117.	2.0	95
42	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.	3.2	92
43	Using bio-based rejuvenator derived from waste wood to recycle old asphalt. Construction and Building Materials, 2018, 189, 568-575.	3.2	92
44	Effect of warm mixture asphalt (WMA) additives on high failure temperature properties for crumb rubber modified (CRM) binders. Construction and Building Materials, 2012, 35, 281-288.	3.2	91
45	Rheological properties of asphalts modified by waste tire rubber and reclaimed low density polyethylene. Construction and Building Materials, 2015, 83, 143-149.	3.2	90
46	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.	3.2	87
47	Mechanical Properties of Porous Asphalt Pavement Materials with Warm Mix Asphalt and RAP. Journal of Transportation Engineering, 2012, 138, 90-97.	0.9	86
48	Investigation of the rheological modification mechanism of crumb rubber modified asphalt (CRMA) containing TOR additive. Construction and Building Materials, 2014, 67, 225-233.	3.2	86
49	Discrete element modeling of realistic particle shapes in stone-based mixtures through MATLAB-based imaging process. Construction and Building Materials, 2017, 143, 169-178.	3.2	86
50	Rheological properties, low-temperature cracking resistance, and optical performance of exfoliated graphite nanoplatelets modified asphalt binder. Construction and Building Materials, 2016, 113, 988-996.	3.2	85
51	Normalization of fatigue characteristics for asphalt mixtures under different stress states. Construction and Building Materials, 2018, 177, 33-42.	3.2	81
52	Towards an understanding of diffusion mechanism of bio-rejuvenators in aged asphalt binder through molecular dynamics simulation. Journal of Cleaner Production, 2021, 299, 126927.	4.6	80
53	The determination of mechanical performance of laboratory produced hot mix asphalt mixtures using controlled RAP and virgin aggregate size fractions. Construction and Building Materials, 2012, 26, 655-662.	3.2	78
54	Automated pixel-level pavement distress detection based on stereo vision and deep learning. Automation in Construction, 2021, 129, 103788.	4.8	78

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55	Performance evaluation of high-elastic asphalt mixture containing deicing agent Mafilon. Construction and Building Materials, 2015, 94, 494-501.	3.2	76
56	Measurement and modeling of skid resistance of asphalt pavement: A review. Construction and Building Materials, 2020, 260, 119878.	3.2	76
57	Optimization of bio-asphalt using bio-oil and distilled water. Journal of Cleaner Production, 2017, 165, 281-289.	4.6	75
58	Research on properties of bio-asphalt binders based on time and frequency sweep test. Construction and Building Materials, 2018, 160, 786-793.	3.2	75
59	Using discrete element models to track movement of coarse aggregates during compaction of asphalt mixture. Construction and Building Materials, 2018, 189, 338-351.	3.2	75
60	A simple stepwise method to determine and evaluate the initiation of tertiary flow for asphalt mixtures under dynamic creep test. Construction and Building Materials, 2009, 23, 3398-3405.	3.2	73
61	Effect of silane coupling agent on improving the adhesive properties between asphalt binder and aggregates. Construction and Building Materials, 2018, 169, 591-600.	3.2	72
62	Impacts of recycled crumb rubber powder and natural rubber latex on the modified asphalt rheological behaviour, bonding, and resistance to shear. Construction and Building Materials, 2020, 234, 117357.	3.2	72
63	Effects of coarse aggregate angularity on the microstructure of asphalt mixture. Construction and Building Materials, 2018, 183, 472-484.	3.2	70
64	A review on compatibility between crumb rubber and asphalt binder. Construction and Building Materials, 2021, 297, 123820.	3.2	70
65	Evaluation of the effect of bio-oil on the high-temperature performance of rubber modified asphalt. Construction and Building Materials, 2018, 191, 692-701.	3.2	69
66	Discrete-Element Modeling: Impacts of Aggregate Sphericity, Orientation, and Angularity on Creep Stiffness of Idealized Asphalt Mixtures. Journal of Engineering Mechanics - ASCE, 2011, 137, 294-303.	1.6	68
67	Investigation of microwave healing performance of electrically conductive carbon fiber modified asphalt mixture beams. Construction and Building Materials, 2016, 126, 1012-1019.	3.2	68
68	Review on heterogeneous model reconstruction of stone-based composites in numerical simulation. Construction and Building Materials, 2016, 117, 229-243.	3.2	67
69	The properties of asphalt binder blended with variable quantities of recycled asphalt using short term and long term aging simulations. Construction and Building Materials, 2012, 26, 552-557.	3.2	66
70	Thermal Storage Stability of Bio-Oil Modified Asphalt. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	66
71	Preliminary Dynamic Modulus Criteria of HMA for Field Rutting of Asphalt Pavements: Michiganâ€™s Experience. Journal of Transportation Engineering, 2011, 137, 37-45.	0.9	65
72	Lab assessment and discrete element modeling of asphalt mixture during compaction with elongated and flat coarse aggregates. Construction and Building Materials, 2018, 182, 573-579.	3.2	65

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73	Improvements on high-temperature stability, rheology, and stiffness of asphalt binder modified with waste crayfish shell powder. Journal of Cleaner Production, 2020, 264, 121745.	4.6	65
74	Rheological properties and micro-characteristics of polyurethane composite modified asphalt. Construction and Building Materials, 2020, 234, 117395.	3.2	63
75	Discussion on molecular dynamics (MD) simulations of the asphalt materials. Advances in Colloid and Interface Science, 2022, 299, 102565.	7.0	63
76	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.	1.3	61
77	Micromechanical Modeling Approach to Predict Compressive Dynamic Moduli of Asphalt Mixtures Using the Distinct Element Method. , 0, .		61
78	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.	1.7	60
79	Preparation and anti-icing properties of a superhydrophobic silicone coating on asphalt mixture. Construction and Building Materials, 2018, 189, 227-235.	3.2	60
80	Three-dimensional discrete element modeling of asphalt concrete: Size effects of elements. Construction and Building Materials, 2012, 37, 775-782.	3.2	59
81	A comprehensive review of theory, development, and implementation of warm mix asphalt using foaming techniques. Construction and Building Materials, 2017, 152, 115-133.	3.2	59
82	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.	2.0	59
83	Evaluation of aggregate resistance to wear with Micro-Deval test in combination with aggregate imaging techniques. Wear, 2015, 338-339, 288-296.	1.5	57
84	A simple treatment of electronic-waste plastics to produce asphalt binder additives with improved properties. Construction and Building Materials, 2016, 110, 79-88.	3.2	57
85	Shear property, high-temperature rheological performance and low-temperature flexibility of asphalt mastics modified with bio-oil. Construction and Building Materials, 2018, 174, 30-37.	3.2	57
86	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.	4.6	57
87	Characterization of Low Temperature Crack Resistance of Crumb Rubber Modified Asphalt Mixtures Using Semi-Circular Bending Tests. Journal of Testing and Evaluation, 2016, 44, 20150145.	0.4	57
88	Micromechanical finite element framework for predicting viscoelastic properties of asphalt mixtures. Materials and Structures/Materiaux Et Constructions, 2008, 41, 1025-1037.	1.3	56
89	Role of mineral filler in asphalt mixture. Road Materials and Pavement Design, 2022, 23, 247-286.	2.0	56
90	The performance of asphalt binder with trichloroethylene: Improving the efficiency of using reclaimed asphalt pavement. Journal of Cleaner Production, 2019, 232, 205-212.	4.6	55

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91	Research on properties of bitumen mortar containing municipal solid waste incineration fly ash. Construction and Building Materials, 2019, 218, 657-666.	3.2	54
92	Characteristics of compound asphalt modified by waste tire rubber (WTR) and ethylene vinyl acetate (EVA): Conventional, rheological, and microstructural properties. Journal of Cleaner Production, 2020, 258, 120732.	4.6	54
93	Properties of Modified Asphalt Binders Blended with Electronic Waste Powders. Journal of Materials in Civil Engineering, 2012, 24, 1261-1267.	1.3	53
94	Characterization of the rate of change of rheological properties of nano-modified asphalt. Construction and Building Materials, 2015, 98, 437-446.	3.2	53
95	Characteristics of Water-Foamed Asphalt Mixture under Multiple Freeze-Thaw Cycles: Laboratory Evaluation. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	53
96	Application of phase change material in asphalt mixture â€“ A review. Construction and Building Materials, 2020, 263, 120219.	3.2	53
97	Study on the rubber-modified asphalt mixturesâ€™ cracking propagation using the extended finite element method. Construction and Building Materials, 2013, 47, 223-230.	3.2	52
98	Rheological Behavior and Sensitivity of Wood-Derived Bio-Oil Modified Asphalt Binders. Applied Sciences (Switzerland), 2018, 8, 919.	1.3	52
99	Characterising the asphalt concrete fracture performance from X-ray CT Imaging and finite element modelling. International Journal of Pavement Engineering, 2018, 19, 307-318.	2.2	51
100	3D discrete element models of the hollow cylindrical asphalt concrete specimens subject to the internal pressure. International Journal of Pavement Engineering, 2010, 11, 429-439.	2.2	50
101	Compaction characteristics of asphalt mixture with different gradation type through Superpave Gyratory Compaction and X-Ray CT Scanning. Construction and Building Materials, 2016, 129, 243-255.	3.2	50
102	Laboratory performance of warm mix asphalt binder containing polyphosphoric acid. Construction and Building Materials, 2016, 106, 218-227.	3.2	50
103	New Predictive Equations for Dynamic Modulus and Phase Angle Using a Nonlinear Least-Squares Regression Model. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	48
104	Experimental and molecular dynamics simulation study on thermal, transport, and rheological properties of asphalt. Construction and Building Materials, 2020, 265, 120358.	3.2	48
105	Preparation process of bio-oil and bio-asphalt, their performance, and the application of bio-asphalt: A comprehensive review. Journal of Traffic and Transportation Engineering (English Edition), 2020, 7, 137-151.	2.0	48
106	Small and large strain rheological characterizations of polymer- and crumb rubber-modified asphalt binders. Construction and Building Materials, 2017, 144, 168-177.	3.2	47
107	Laboratory evaluation on comprehensive performance of polyurethane rubber particle mixture. Construction and Building Materials, 2019, 224, 29-39.	3.2	47
108	Use of tung oil as a rejuvenating agent in aged asphalt: Laboratory evaluations. Construction and Building Materials, 2020, 239, 117783.	3.2	47

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109	Spectral element method for dynamic response of transversely isotropic asphalt pavement under impact load. Road Materials and Pavement Design, 2018, 19, 223-238.	2.0	46
110	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.	3.2	45
111	Use of reacted and activated rubber in ultra-thin hot mixture asphalt overlay for wet-freeze climates. Journal of Cleaner Production, 2019, 232, 369-378.	4.6	45
112	Assessment and mechanism analysis of municipal solid waste incineration bottom ash as aggregate in cement stabilized macadam. Journal of Cleaner Production, 2020, 244, 118750.	4.6	45
113	Effect of a lignin-based polyurethane on adhesion properties of asphalt binder during UV aging process. Construction and Building Materials, 2020, 247, 118547.	3.2	45
114	Determination of Specific Heat Capacity on Composite Shape-Stabilized Phase Change Materials and Asphalt Mixtures by Heat Exchange System. Materials, 2016, 9, 389.	1.3	44
115	3D Voxel-Based Approach to Quantify Aggregate Angularity and Surface Texture. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	44
116	Effects of preheating conditions on performance and workability of hot in-place recycled asphalt mixtures. Construction and Building Materials, 2019, 226, 288-298.	3.2	44
117	Exploring the Interactions of Chloride Deicer Solutions with Nanomodified and Micromodified Asphalt Mixtures Using Artificial Neural Networks. Journal of Materials in Civil Engineering, 2012, 24, 805-815.	1.3	43
118	Laboratory moisture susceptibility evaluation of WMA under possible field conditions. Construction and Building Materials, 2015, 101, 57-64.	3.2	43
119	Innovation of aggregate angularity characterization using gradient approach based upon the traditional and modified Sobel operation. Construction and Building Materials, 2016, 120, 442-449.	3.2	43
120	Modulus simulation of asphalt binder models using Molecular Dynamics (MD) method. Construction and Building Materials, 2018, 162, 430-441.	3.2	43
121	The anti-icing and mechanical properties of a superhydrophobic coating on asphalt pavement. Construction and Building Materials, 2018, 190, 83-94.	3.2	43
122	Macro-micro degradation process of fly ash concrete under alternation of freeze-thaw cycles subjected to sulfate and carbonation. Construction and Building Materials, 2018, 181, 369-380.	3.2	43
123	Dynamic complex modulus predictions of hot-mix asphalt using a micromechanical-based finite element model. Canadian Journal of Civil Engineering, 2007, 34, 1519-1528.	0.7	42
124	Evaluation of Fatigue Models of Hot-Mix Asphalt through Laboratory Testing. Transportation Research Record, 2009, 2127, 36-42.	1.0	42
125	Accelerated Discrete-Element Modeling of Asphalt-Based Materials with the Frequency-Temperature Superposition Principle. Journal of Engineering Mechanics - ASCE, 2011, 137, 355-365.	1.6	42
126	Study on microstructure of rubberized recycled hot mix asphalt based X-ray CT technology. Construction and Building Materials, 2016, 121, 177-184.	3.2	42

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127	Effect of tack coat dosage and temperature on the interface shear properties of asphalt layers bonded with emulsified asphalt binders. Construction and Building Materials, 2017, 141, 86-93.	3.2	42
128	Micromechanical Modeling Approach to Predict Compressive Dynamic Moduli of Asphalt Mixtures Using the Distinct Element Method. Transportation Research Record, 2006, 1970, 72-83.	1.0	41
129	Comparative study on the properties of WMA mixture using foamed admixture and free water system. Construction and Building Materials, 2013, 48, 45-50.	3.2	41
130	Effects of Physio-Chemical Factors on Asphalt Aging Behavior. Journal of Materials in Civil Engineering, 2014, 26, 190-197.	1.3	41
131	Application of Discrete Element Modeling Techniques to Predict the Complex Modulus of Asphaltâ€“Aggregate Hollow Cylinders Subjected to Internal Pressure. , 0, .		41
132	Prediction models of mixturesâ€™ dynamic modulus using gene expression programming. International Journal of Pavement Engineering, 2017, 18, 971-980.	2.2	40
133	Aggregate Morphological Characterization with 3D Optical Scanner versus X-Ray Computed Tomography. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	39
134	Laboratory Testing of Rheological Behavior of Water-Foamed Bitumen. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	39
135	Strength and fatigue performance for cement-treated aggregate base materials. International Journal of Pavement Engineering, 2021, 22, 690-699.	2.2	39
136	Recycling fish scale powder in improving the performance of asphalt: A sustainable utilization of fish scale waste in asphalt. Journal of Cleaner Production, 2021, 288, 125682.	4.6	39
137	Performance evaluation of petroleum bitumen binders and mixtures modified by natural rock asphalt from Xinjiang China. Construction and Building Materials, 2017, 154, 623-631.	3.2	38
138	Correlation of DSR Results and FTIRâ€™s Carbonyl and Sulfoxide Indexes: Effect of Aging Temperature on Asphalt Rheology. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	38
139	Open-graded asphalt concrete grouted by latex modified cement mortar. Road Materials and Pavement Design, 2020, 21, 61-77.	2.0	38
140	High modulus asphalt concrete: A state-of-the-art review. Construction and Building Materials, 2020, 237, 117653.	3.2	38
141	Review on evolution and evaluation of asphalt pavement structures and materials. Journal of Traffic and Transportation Engineering (English Edition), 2020, 7, 573-599.	2.0	38
142	Homogeneity evaluation of hot in-place recycling asphalt mixture using digital image processing technique. Journal of Cleaner Production, 2020, 258, 120524.	4.6	38
143	Unified characterizing fatigue performance of rubberized asphalt mixtures subjected to different loading modes. Journal of Cleaner Production, 2021, 279, 123740.	4.6	38
144	Revealing compatibility mechanism of nanosilica in asphalt through molecular dynamics simulation. Journal of Molecular Modeling, 2021, 27, 81.	0.8	38

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145	Construction Technology of Warm and Hot Mix Epoxy Asphalt Paving for Long-Span Steel Bridge. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	37
146	Performance Test on Styrene-Butadiene-Styrene (SBS) Modified Asphalt Based on the Different Evaluation Methods. Applied Sciences (Switzerland), 2019, 9, 467.	1.3	37
147	Analysis of performance and mechanism of Buton rock asphalt modified asphalt. Journal of Applied Polymer Science, 2019, 136, 46903.	1.3	37
148	Self-healing capability of asphalt mixture containing polymeric composite fibers under acid and saline-alkali water solutions. Journal of Cleaner Production, 2020, 268, 122387.	4.6	37
149	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, .	1.3	36
150	Development of morphological properties of road surfacing aggregates during the polishing process. International Journal of Pavement Engineering, 2017, 18, 367-380.	2.2	36
151	Unified fatigue characteristics model for cement-stabilized macadam under various loading modes. Construction and Building Materials, 2019, 223, 775-783.	3.2	36
152	Fractal dimension of concrete meso-structure based on X-ray computed tomography. Powder Technology, 2019, 350, 91-99.	2.1	36
153	Evaluation of contact angle between asphalt binders and aggregates using Molecular Dynamics (MD) method. Construction and Building Materials, 2019, 212, 727-736.	3.2	36
154	External sulfate attack on concrete under combined effects of flexural fatigue loading and drying-wetting cycles. Construction and Building Materials, 2020, 249, 118224.	3.2	36
155	Investigating the Sensitivity of Aggregate Size within Sand Mastic by Modeling the Microstructure of an Asphalt Mixture. Journal of Materials in Civil Engineering, 2011, 23, 580-586.	1.3	35
156	Sensitivity of flexible pavement design to Michiganâ€™s climatic inputs using pavement ME design. International Journal of Pavement Engineering, 2017, 18, 622-632.	2.2	35
157	Short- and long-term properties of glass fiber reinforced asphalt mixtures. International Journal of Pavement Engineering, 2021, 22, 64-76.	2.2	35
158	Influence of sea salt on the interfacial adhesion of bitumenâ€“aggregate systems by molecular dynamics simulation. Construction and Building Materials, 2022, 336, 127471.	3.2	35
159	Review of advances in micromechanical modeling of aggregateâ€“aggregate interactions in asphalt mixtures. Canadian Journal of Civil Engineering, 2007, 34, 239-252.	0.7	34
160	Impact of interlayer on the anisotropic multi-layered medium overlaying viscoelastic layer under axisymmetric loading. Applied Mathematical Modelling, 2018, 61, 726-743.	2.2	34
161	Effects of surface texture and its mineral composition on interfacial behavior between asphalt binder and coarse aggregate. Construction and Building Materials, 2020, 262, 120869.	3.2	34
162	Mechanical performance of asphalt rejuvenated with various vegetable oils. Construction and Building Materials, 2021, 293, 123485.	3.2	34

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163	Automated real aggregate modelling approach in discrete element method based on X-ray computed tomography images. International Journal of Pavement Engineering, 2017, 18, 837-850.	2.2	33
164	Fatigue behavior of epoxy asphalt concrete and its moisture susceptibility from flexural stiffness and phase angle. Construction and Building Materials, 2017, 145, 506-517.	3.2	33
165	Rheological Performance of Bio-Char Modified Asphalt with Different Particle Sizes. Applied Sciences (Switzerland), 2018, 8, 1665.	1.3	33
166	Material selections in asphalt pavement for wet-freeze climate zones: A review. Construction and Building Materials, 2019, 201, 510-525.	3.2	33
167	Moisture Susceptibility Evaluation of Nanosize Hydrated Lime-Modified Asphaltâ€“Aggregate Systems Based on Surface Free Energy Concept. Transportation Research Record, 2014, 2446, 52-59.	1.0	32
168	Quantification of physicochemical properties, activation energy, and temperature susceptibility of foamed asphalt binders. Construction and Building Materials, 2017, 153, 557-568.	3.2	32
169	High temperature performance of asphalt modified with Sasobit and Deurex. Construction and Building Materials, 2018, 164, 783-791.	3.2	32
170	Compaction temperatures of Sasobit produced warm mix asphalt mixtures modified with SBS. Construction and Building Materials, 2016, 123, 357-364.	3.2	31
171	Temperature segregation of warm mix asphalt pavement: Laboratory and field evaluations. Construction and Building Materials, 2017, 136, 436-445.	3.2	31
172	Aggregate Shape Characterization Using Virtual Measurement of Three-Dimensional Solid Models Constructed from X-Ray CT Images of Aggregates. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	31
173	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.	3.2	31
174	Effect of anisotropic characteristics on the mechanical behavior of asphalt concrete overlay. Frontiers of Structural and Civil Engineering, 2019, 13, 110-122.	1.2	31
175	Investigation of anti-icing, anti-skid, and water impermeability performances of an acrylic superhydrophobic coating on asphalt pavement. Construction and Building Materials, 2020, 264, 120702.	3.2	31
176	Application of Discrete Element Modeling Techniques to Predict the Complex Modulus of Asphaltâ€“Aggregate Hollow Cylinders Subjected to Internal Pressure. Transportation Research Record, 2005, 1929, 218-226.	1.0	30
177	The Effect of Morphological Characteristic of Coarse Aggregates Measured with Fractal Dimension on Asphalt Mixtureâ€™s High-Temperature Performance. Advances in Materials Science and Engineering, 2016, 2016, 1-9.	1.0	30
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