

Shaopeng Wu

List of Publications by Year in descending order

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253
papers

10,996
citations

24978

57
h-index

45213

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253
docs citations

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times ranked

3885
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of aging on the evolution of structure, morphology and rheology of base and SBS modified bitumen. <i>Construction and Building Materials</i> , 2009, 23, 1005-1010.	3.2	380
2	Utilization of steel slag as aggregates for stone mastic asphalt (SMA) mixtures. <i>Building and Environment</i> , 2007, 42, 2580-2585.	3.0	312
3	Physical, chemical and rheological properties of waste edible vegetable oil rejuvenated asphalt binders. <i>Construction and Building Materials</i> , 2014, 66, 286-298.	3.2	261
4	A review on hydronic asphalt pavement for energy harvesting and snow melting. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 48, 624-634.	8.2	257
5	Experimental investigation of basic oxygen furnace slag used as aggregate in asphalt mixture. <i>Journal of Hazardous Materials</i> , 2006, 138, 261-268.	6.5	249
6	Effect of organo-montmorillonite on aging properties of asphalt. <i>Construction and Building Materials</i> , 2009, 23, 2636-2640.	3.2	213
7	Investigation of the conductivity of asphalt concrete containing conductive fillers. <i>Carbon</i> , 2005, 43, 1358-1363.	5.4	190
8	Preparation and properties of montmorillonite modified asphalts. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 447, 233-238.	2.6	185
9	Utilization of recycled brick powder as alternative filler in asphalt mixture. <i>Construction and Building Materials</i> , 2011, 25, 1532-1536.	3.2	181
10	Potential of recycled fine aggregates powder as filler in asphalt mixture. <i>Construction and Building Materials</i> , 2011, 25, 3909-3914.	3.2	167
11	High temperature properties of rejuvenating recovered binder with rejuvenator, waste cooking and cotton seed oils. <i>Construction and Building Materials</i> , 2014, 59, 10-16.	3.2	164
12	Effect of ageing on rheological properties of storage-stable SBS/sulfur-modified asphalts. <i>Journal of Hazardous Materials</i> , 2010, 182, 507-517.	6.5	159
13	Effect of hydration and silicone resin on Basic Oxygen Furnace slag and its asphalt mixture. <i>Journal of Cleaner Production</i> , 2016, 112, 392-400.	4.6	157
14	Investigation of rheological and fatigue properties of asphalt mixtures containing polyester fibers. <i>Construction and Building Materials</i> , 2008, 22, 2111-2115.	3.2	154
15	The temperature effects in aging index of asphalt during UV aging process. <i>Construction and Building Materials</i> , 2015, 93, 1125-1131.	3.2	151
16	Study on the graphite and carbon fiber modified asphalt concrete. <i>Construction and Building Materials</i> , 2011, 25, 1807-1811.	3.2	136
17	Study of ice and snow melting process on conductive asphalt solar collector. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3241-3250.	3.0	131
18	Effect of montmorillonite on properties of styrene-butadiene-styrene copolymer modified bitumen. <i>Polymer Engineering and Science</i> , 2007, 47, 1289-1295.	1.5	123

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19	Effect of montmorillonite organic modification on ultraviolet aging properties of SBS modified bitumen. <i>Construction and Building Materials</i> , 2012, 27, 553-559.	3.2	118
20	Laboratory Study on Ultraviolet Radiation Aging of Bitumen. <i>Journal of Materials in Civil Engineering</i> , 2010, 22, 767-772.	1.3	114
21	Investigation of the dynamic and fatigue properties of fiber-modified asphalt mixtures. <i>International Journal of Fatigue</i> , 2009, 31, 1598-1602.	2.8	108
22	Investigation of asphalt mixture containing demolition waste obtained from earthquake-damaged buildings. <i>Construction and Building Materials</i> , 2012, 29, 466-475.	3.2	108
23	Ravelling investigation of porous asphalt concrete based on fatigue characteristics of bitumen-stone adhesion and mortar. <i>Materials & Design</i> , 2009, 30, 170-179.	5.1	107
24	Laboratory investigation of the properties of asphalt modified with epoxy resin. <i>Journal of Applied Polymer Science</i> , 2009, 113, 3557-3563.	1.3	104
25	Effects of steel slag fillers on the rheological properties of asphalt mastic. <i>Construction and Building Materials</i> , 2017, 145, 383-391.	3.2	102
26	Environmental performance and functional analysis of chip seals with recycled basic oxygen furnace slag as aggregate. <i>Journal of Hazardous Materials</i> , 2021, 405, 124441.	6.5	99
27	Research on Ultra Violet (UV) aging depth of asphalts. <i>Construction and Building Materials</i> , 2018, 160, 620-627.	3.2	97
28	Inhibiting effect of Layered Double Hydroxides on the emissions of volatile organic compounds from bituminous materials. <i>Journal of Cleaner Production</i> , 2015, 108, 987-991.	4.6	96
29	Self-healing performance of asphalt mixtures through heating fibers or aggregate. <i>Construction and Building Materials</i> , 2017, 150, 673-680.	3.2	93
30	Snow and ice melting properties of self-healing asphalt mixtures with induction heating and microwave heating. <i>Applied Thermal Engineering</i> , 2018, 129, 871-883.	3.0	93
31	Performance characterization and enhancement mechanism of recycled asphalt mixtures involving high RAP content and steel slag. <i>Journal of Cleaner Production</i> , 2022, 336, 130484.	4.6	92
32	Effects of fibers on the dynamic properties of asphalt mixtures. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2007, 22, 733-736.	0.4	91
33	Recycling of basic oxygen furnace slag in asphalt mixture: Material characterization & moisture damage investigation. <i>Construction and Building Materials</i> , 2012, 36, 467-474.	3.2	90
34	Laboratory investigation of compaction characteristics and performance of warm mix asphalt containing chemical additives. <i>Construction and Building Materials</i> , 2012, 37, 239-247.	3.2	88
35	Laboratory investigation into thermal response of asphalt pavements as solar collector by application of small-scale slabs. <i>Applied Thermal Engineering</i> , 2011, 31, 1582-1587.	3.0	87
36	Investigation of the graphene oxide and asphalt interaction and its effect on asphalt pavement performance. <i>Construction and Building Materials</i> , 2018, 165, 572-584.	3.2	87

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37	Investigating self healing behaviour of pure bitumen using Dynamic Shear Rheometer. Fuel, 2011, 90, 2710-2720.	3.4	82
38	Analysis of the Relationships between Waste Cooking Oil Qualities and Rejuvenated Asphalt Properties. Materials, 2017, 10, 508.	1.3	82
39	Preparation of expanded graphite/polyethylene glycol composite phase change material for thermoregulation of asphalt binder. Construction and Building Materials, 2018, 169, 513-521.	3.2	82
40	Investigation of the optimal self-healing temperatures and healing time of asphalt binders. Construction and Building Materials, 2016, 113, 1029-1033.	3.2	80
41	Properties evaluation of asphalt-based composites with graphite and mine powders. Construction and Building Materials, 2008, 22, 121-126.	3.2	79
42	Rheological properties for aged bitumen containing ultraviolet light resistant materials. Construction and Building Materials, 2012, 33, 133-138.	3.2	79
43	Effect of LDHs on the aging resistance of crumb rubber modified asphalt. Construction and Building Materials, 2014, 67, 239-243.	3.2	77
44	Characteristics of bonding behavior between basic oxygen furnace slag and asphalt binder. Construction and Building Materials, 2014, 64, 60-66.	3.2	76
45	Influence of graphite on the thermal characteristics and anti-ageing properties of asphalt binder. Construction and Building Materials, 2014, 68, 220-226.	3.2	72
46	Effects of two biomass ashes on asphalt binder: Dynamic shear rheological characteristic analysis. Construction and Building Materials, 2014, 56, 7-15.	3.2	70
47	Environmental aspects and pavement properties of red mud waste as the replacement of mineral filler in asphalt mixture. Construction and Building Materials, 2018, 180, 605-613.	3.2	70
48	Utilization of gneiss coarse aggregate and steel slag fine aggregate in asphalt mixture. Construction and Building Materials, 2015, 93, 911-918.	3.2	69
49	Experimental investigation of related properties of asphalt binders containing various flame retardants. Fuel, 2006, 85, 1298-1304.	3.4	67
50	Evaluation of Aging Resistance of Graphene Oxide Modified Asphalt. Applied Sciences (Switzerland), 2017, 7, 702.	1.3	66
51	Enhanced heat release and self-healing properties of steel slag filler based asphalt materials under microwave irradiation. Construction and Building Materials, 2018, 193, 32-41.	3.2	65
52	Influence of sodium and organo-montmorillonites on the properties of bitumen. Applied Clay Science, 2010, 49, 69-73.	2.6	64
53	The Utilization of Graphene Oxide in Traditional Construction Materials: Asphalt. Materials, 2017, 10, 48.	1.3	64
54	Flammability and rheological behavior of mixed flame retardant modified asphalt binders. Fuel, 2008, 87, 120-124.	3.4	61

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55	Conductive asphalt concrete: A review on structure design, performance, and practical applications. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 755-769.	1.4	61
56	Effect of freezing-thawing and ageing on thermal characteristics and mechanical properties of conductive asphalt concrete. <i>Construction and Building Materials</i> , 2017, 140, 239-247.	3.2	60
57	Biochar removes volatile organic compounds generated from asphalt. <i>Science of the Total Environment</i> , 2020, 745, 141096.	3.9	60
58	Performance characteristics of asphalt mixture with basic oxygen furnace slag. <i>Construction and Building Materials</i> , 2013, 38, 796-803.	3.2	59
59	Enhancement mechanism of skid resistance in preventive maintenance of asphalt pavement by steel slag based on micro-surfacing. <i>Construction and Building Materials</i> , 2020, 239, 117870.	3.2	59
60	Research on the conductive asphalt concrete's piezoresistivity effect and its mechanism. <i>Construction and Building Materials</i> , 2009, 23, 2752-2756.	3.2	58
61	Experimental investigation on related properties of asphalt mastic containing recycled red brick powder. <i>Construction and Building Materials</i> , 2011, 25, 2883-2887.	3.2	58
62	Investigation of sodium stearate organically modified LDHs effect on the anti aging properties of asphalt binder. <i>Construction and Building Materials</i> , 2018, 172, 509-518.	3.2	57
63	Induction heating of asphalt mastic for crack control. <i>Construction and Building Materials</i> , 2013, 41, 345-351.	3.2	56
64	Research on the Mechanical, Thermal, Induction Heating and Healing Properties of Steel Slag/Steel Fibers Composite Asphalt Mixture. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1088.	1.3	56
65	Investigation into stress states in porous asphalt concrete on the basis of FE-modelling. <i>Finite Elements in Analysis and Design</i> , 2007, 43, 333-343.	1.7	55
66	A comparative study of the induction heating behaviors of hot and warm mix asphalt. <i>Construction and Building Materials</i> , 2017, 144, 663-670.	3.2	55
67	Investigation of the properties of asphalt and its mixtures containing flame retardant modifier. <i>Construction and Building Materials</i> , 2009, 23, 2277-2282.	3.2	54
68	Synthesis and characterization of organic intercalated layered double hydroxides and their application in bitumen modification. <i>Materials Chemistry and Physics</i> , 2015, 152, 54-61.	2.0	52
69	Life cycle energy consumption by roads and associated interpretative analysis of sustainable policies. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110823.	8.2	52
70	Influence of surface treated fly ash with coupling agent on asphalt mixture moisture damage. <i>Construction and Building Materials</i> , 2012, 30, 340-346.	3.2	51
71	UV and Thermal Aging of Pure Bitumen-comparison Between Laboratory Simulation and Natural Exposure Aging. <i>Road Materials and Pavement Design</i> , 2008, 9, 103-113.	2.0	50
72	Influence of demolition waste used as recycled aggregate on performance of asphalt mixture. <i>Road Materials and Pavement Design</i> , 2013, 14, 679-688.	2.0	50

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73	Evaluation of mechanical properties and aging index of 10-year field aged asphalt materials. <i>Construction and Building Materials</i> , 2017, 155, 1158-1167.	3.2	50
74	Test evaluation of rutting performance indicators of asphalt mixtures. <i>Construction and Building Materials</i> , 2017, 155, 1215-1223.	3.2	50
75	Investigation of physicochemical and rheological properties of SARA components separated from bitumen. <i>Construction and Building Materials</i> , 2020, 235, 117437.	3.2	50
76	Analysis of Characteristics of Electrically Conductive Asphalt Concrete Prepared by Multiplex Conductive Materials. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 871-879.	1.3	49
77	The Mechanical Resistance of Asphalt Mixture with Steel Slag to Deformation and Skid Degradation Based on Laboratory Accelerated Heavy Loading Test. <i>Materials</i> , 2022, 15, 911.	1.3	48
78	Bitumenâ€‘stone adhesive zone damage model for the meso-mechanical mixture design of ravelling resistant porous asphalt concrete. <i>International Journal of Fatigue</i> , 2011, 33, 1490-1503.	2.8	47
79	Effect of fiber types on relevant properties of porous asphalt. <i>Transactions of Nonferrous Metals Society of China</i> , 2006, 16, s791-s795.	1.7	46
80	Laboratory investigation of the properties of asphalt and its mixtures modified with flame retardant. <i>Construction and Building Materials</i> , 2008, 22, 1037-1042.	3.2	44
81	Investigation of temperature characteristics of recycled hot mix asphalt mixtures. <i>Resources, Conservation and Recycling</i> , 2007, 51, 610-620.	5.3	43
82	Rheological evaluation of bitumen containing different ultraviolet absorbers. <i>Construction and Building Materials</i> , 2012, 29, 591-596.	3.2	43
83	Experimental investigation of bituminous plug expansion joint materials containing high content of crumb rubber powder and granules. <i>Materials & Design</i> , 2012, 37, 137-143.	5.1	42
84	Study of the Diffusion of Rejuvenators and Its Effect on Aged Bitumen Binder. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 397.	1.3	42
85	Investigation of the flow and self-healing properties of UV aged asphalt binders. <i>Construction and Building Materials</i> , 2018, 174, 401-409.	3.2	42
86	Study on the effective composition of steel slag for asphalt mixture induction heating purpose. <i>Construction and Building Materials</i> , 2018, 178, 542-550.	3.2	42
87	Study on the gradient heating and healing behaviors of asphalt concrete induced by induction heating. <i>Construction and Building Materials</i> , 2019, 208, 638-645.	3.2	42
88	Self-monitoring electrically conductive asphalt-based composite containing carbon fillers. <i>Transactions of Nonferrous Metals Society of China</i> , 2006, 16, s512-s516.	1.7	41
89	Investigation of self healing behaviour of asphalt mixes using beam on elastic foundation setup. <i>Materials and Structures/Materiaux Et Constructions</i> , 2012, 45, 777-791.	1.3	41
90	Effects of aging on the properties of modified asphalt binder with flame retardants. <i>Construction and Building Materials</i> , 2010, 24, 2554-2558.	3.2	40

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91	The healing properties of asphalt mixtures suffered moisture damage. <i>Construction and Building Materials</i> , 2016, 127, 418-424.	3.2	39
92	Characterization of Organic Surfactant on Montmorillonite Nanoclay to Be Used in Bitumen. <i>Journal of Materials in Civil Engineering</i> , 2010, 22, 794-799.	1.3	38
93	Investigation on Using SBS and Active Carbon Filler to Reduce the VOC Emission from Bituminous Materials. <i>Materials</i> , 2014, 7, 6130-6143.	1.3	38
94	Effect of Ultraviolet Aging on Rheology and Chemistry of LDH-Modified Bitumen. <i>Materials</i> , 2015, 8, 5238-5249.	1.3	38
95	Multi-scale performance evaluation and correlation analysis of blended asphalt and recycled asphalt mixtures incorporating high RAP content. <i>Journal of Cleaner Production</i> , 2021, 317, 128278.	4.6	38
96	Influence of organo-montmorillonites on fatigue properties of bitumen and mortar. <i>International Journal of Fatigue</i> , 2011, 33, 1574-1582.	2.8	37
97	Influence of ageing on rheology of SBR/sulfur-modified asphalts. <i>Polymer Engineering and Science</i> , 2012, 52, 71-79.	1.5	37
98	Synthesis and characterization of compartmented Ca-alginate/silica self-healing fibers containing bituminous rejuvenator. <i>Construction and Building Materials</i> , 2018, 190, 623-631.	3.2	37
99	Effect of Carbon Black Nanoparticles from the Pyrolysis of Discarded Tires on the Performance of Asphalt and its Mixtures. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 624.	1.3	36
100	A criterion of asphalt pavement rutting based on the thermal-visco-elastic-plastic model. <i>International Journal of Pavement Engineering</i> , 2022, 23, 1134-1144.	2.2	36
101	Investigation on physical and chemical parameters to predict long-term aging of asphalt binder. <i>Construction and Building Materials</i> , 2016, 122, 753-759.	3.2	35
102	Multi-stress loading effect on rutting performance of asphalt mixtures based on wheel tracking testing. <i>Construction and Building Materials</i> , 2017, 148, 1-9.	3.2	35
103	Self-monitoring application of asphalt concrete containing graphite and carbon fibers. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008, 23, 268-271.	0.4	34
104	Investigation of the effect of Mg-Al-LDH on pavement performance and aging resistance of styrene-butadiene-styrene modified asphalt. <i>Construction and Building Materials</i> , 2018, 172, 584-596.	3.2	34
105	Piezoresistivity of Graphite Modified Asphalt-Based Composites. <i>Key Engineering Materials</i> , 2003, 249, 391-396.	0.4	33
106	Surface modification of silica and its compounding with polydimethylsiloxane matrix: interaction of modified silica filler with PDMS. <i>Iranian Polymer Journal (English Edition)</i> , 2012, 21, 583-589.	1.3	33
107	Possibility of using epoxy modified bitumen to replace tar-containing binder for pavement antiskid surfaces. <i>Construction and Building Materials</i> , 2013, 48, 59-66.	3.2	33
108	Effect of Material Composition and Environmental Condition on Thermal Characteristics of Conductive Asphalt Concrete. <i>Materials</i> , 2017, 10, 218.	1.3	33

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109	Moisture-induced damage resistance of asphalt mixture entirely composed of gneiss and steel slag. <i>Construction and Building Materials</i> , 2018, 177, 332-341.	3.2	33
110	Study on the deteriorations of bituminous binder resulted from volatile organic compounds emissions. <i>Construction and Building Materials</i> , 2014, 68, 644-649.	3.2	32
111	Investigation on the pavement performance of asphalt mixture based on predicted dynamic modulus. <i>Construction and Building Materials</i> , 2016, 106, 11-17.	3.2	32
112	Implementation of modified pull-off test by UTM to investigate bonding characteristics of bitumen and basic oxygen furnace slag (BOF). <i>Construction and Building Materials</i> , 2014, 57, 61-68.	3.2	31
113	Hazardous characteristics and variation in internal structure by hydrodynamic damage of BOF slag-based thin asphalt overlay. <i>Journal of Hazardous Materials</i> , 2021, 412, 125344.	6.5	31
114	Microwave Heating of Steel Slag Asphalt Mixture. <i>Key Engineering Materials</i> , 0, 599, 193-197.	0.4	30
115	Effect of carbon fillers on electrical and road properties of conductive asphalt materials. <i>Construction and Building Materials</i> , 2014, 68, 301-306.	3.2	30
116	Microfluidic Synthesis of Ca-Alginate Microcapsules for Self-Healing of Bituminous Binder. <i>Materials</i> , 2018, 11, 630.	1.3	30
117	Evaluation on Self-healing Mechanism and Hydrophobic Performance of Asphalt Modified by Siloxane and Polyurethane. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 630-637.	0.4	30
118	Life Cycle Assessment of Biochar Modified Bioasphalt Derived from Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14568-14575.	3.2	30
119	Laboratory investigation of rejuvenator seal materials on performances of asphalt mixtures. <i>Construction and Building Materials</i> , 2012, 37, 41-45.	3.2	29
120	Recycling of Flue Gas Desulfurization residues in gneiss based hot mix asphalt: Materials characterization and performances evaluation. <i>Construction and Building Materials</i> , 2014, 73, 137-144.	3.2	29
121	Effectiveness of rejuvenator seal materials on performance of asphalt pavement. <i>Construction and Building Materials</i> , 2014, 55, 63-68.	3.2	29
122	Numerical simulation on the thermal response of heat-conducting asphalt pavements. <i>Physica Scripta</i> , 2010, T139, 014041.	1.2	28
123	Effect of chemical component characteristics of waste cooking oil on physicochemical properties of aging asphalt. <i>Construction and Building Materials</i> , 2022, 344, 128236.	3.2	27
124	Characteristics of Ceramic Fiber Modified Asphalt Mortar. <i>Materials</i> , 2016, 9, 788.	1.3	26
125	Feasibility study of BOF slag containing honeycomb particles in asphalt mixture. <i>Construction and Building Materials</i> , 2016, 124, 550-557.	3.2	26
126	Evaluation the deleterious potential and heating characteristics of basic oxygen furnace slag based on laboratory and in-place investigation during large-scale reutilization. <i>Journal of Cleaner Production</i> , 2016, 133, 78-87.	4.6	26

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127	Transitions of component, physical, rheological and self-healing properties of petroleum bitumen from the loose bituminous mixture after UV irradiation. <i>Fuel</i> , 2020, 262, 116507.	3.4	26
128	Characteristics of calcareous sand filler and its influence on physical and rheological properties of asphalt mastic. <i>Construction and Building Materials</i> , 2021, 301, 124112.	3.2	26
129	Self-healing properties of asphalt concrete containing responsive calcium alginate/nano-Fe ₃ O ₄ composite capsules via microwave irradiation. <i>Construction and Building Materials</i> , 2021, 310, 125258.	3.2	26
130	Review of ultraviolet ageing mechanisms and anti-ageing methods for asphalt binders. , 2022, 2, 137-155.		26
131	Curing behavior of epoxy asphalt. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009, 24, 462-465.	0.4	25
132	VOCs characteristics and their relation with rheological properties of base and modified bitumens at different temperatures. <i>Construction and Building Materials</i> , 2018, 160, 794-801.	3.2	25
133	Study of Toxicity Assessment of Heavy Metals from Steel Slag and Its Asphalt Mixture. <i>Materials</i> , 2020, 13, 2768.	1.3	25
134	Evaluation of VOCs inhibited effects and rheological properties of asphalt with high-content waste rubber powder. <i>Construction and Building Materials</i> , 2021, 300, 124320.	3.2	25
135	Effect of Rejuvenator Sealer Materials on the Properties of Aged Asphalt Binder. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 829-835.	1.3	24
136	Effect mechanism of mixing on improving conductivity of asphalt solar collector. <i>International Journal of Heat and Mass Transfer</i> , 2014, 75, 650-655.	2.5	24
137	Utilization of silicone maintenance materials to improve the moisture sensitivity of asphalt mixtures. <i>Construction and Building Materials</i> , 2012, 33, 1-6.	3.2	23
138	Characterization of fatigue performance of asphalt mixture using a new fatigue analysis approach. <i>Construction and Building Materials</i> , 2013, 45, 45-52.	3.2	23
139	Investigation into crack healing of asphalt mixtures using healing agents. <i>Construction and Building Materials</i> , 2018, 161, 45-52.	3.2	23
140	Synthesis and Effect of Encapsulating Rejuvenator Fiber on the Performance of Asphalt Mixture. <i>Materials</i> , 2019, 12, 1266.	1.3	23
141	Field evaluation of LDHs effect on the aging resistance of asphalt concrete after four years of road service. <i>Construction and Building Materials</i> , 2019, 208, 192-203.	3.2	23
142	Feasibility assessment of CeO ₂ nanoparticles as aging-resistant agent of asphalt. <i>Construction and Building Materials</i> , 2022, 330, 127245.	3.2	23
143	The Rejuvenating Effect in Hot Asphalt Recycling by Mortar Transfer Ratio and Image Analysis. <i>Materials</i> , 2017, 10, 574.	1.3	22
144	Effect of moisture conditioning on mechanical and healing properties of inductive asphalt concrete. <i>Construction and Building Materials</i> , 2020, 241, 118139.	3.2	22

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145	Aging Mechanism and Rejuvenating Possibility of SBS Copolymers in Asphalt Binders. <i>Polymers</i> , 2020, 12, 92.	2.0	22
146	Rheology and volatile organic compounds characteristics of warm-mix flame retardant asphalt. <i>Construction and Building Materials</i> , 2021, 298, 123691.	3.2	22
147	Damage accumulation model for monotonic and dynamic shear fracture of asphalt-stone adhesion. <i>Theoretical and Applied Fracture Mechanics</i> , 2006, 46, 140-147.	2.1	21
148	Synthesis and properties of microwave and crack responsive fibers encapsulating rejuvenator for bitumen self-healing. <i>Materials Research Express</i> , 2019, 6, 085306.	0.8	21
149	Study on Recycling of Steel Slags Used as Coarse and Fine Aggregates in Induction Healing Asphalt Concretes. <i>Materials</i> , 2020, 13, 889.	1.3	21
150	Environmental and feasible analysis of recycling steel slag as aggregate treated by silicone resin. <i>Construction and Building Materials</i> , 2021, 299, 123914.	3.2	20
151	Damage and corrosion of conductive asphalt concrete subjected to freeze-thaw cycles and salt. <i>Materials Research Innovations</i> , 2013, 17, 240-245.	1.0	19
152	Mortar fatigue model for meso-mechanistic mixture design of ravelling resistant porous asphalt concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 947-961.	1.3	19
153	Self-monitoring application of conductive asphalt concrete under indirect tensile deformation. <i>Case Studies in Construction Materials</i> , 2015, 3, 70-77.	0.8	19
154	Improving blood-compatibility via surface heparin-immobilization based on a liquid crystalline matrix. <i>Materials Science and Engineering C</i> , 2016, 58, 133-141.	3.8	19
155	Silicone Resin Polymer Used in Preventive Maintenance of Asphalt Mixture Based on Fog Seal. <i>Polymers</i> , 2019, 11, 1814.	2.0	19
156	Diffusion Mechanism of Rejuvenator and Its Effects on the Physical and Rheological Performance of Aged Asphalt Binder. <i>Materials</i> , 2019, 12, 4130.	1.3	19
157	The Properties of Different Healing Agents Considering the Micro-Self-Healing Process of Asphalt with Encapsulations. <i>Materials</i> , 2021, 14, 16.	1.3	19
158	Optimization of blended mortars using steel slag sand. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2007, 22, 741-744.	0.4	18
159	Melting intercalation method to prepare lauric acid/organophilic montmorillonite shape-stabilized phase change material. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 674-677.	0.4	18
160	Morphological Discrepancy of Various Basic Oxygen Furnace Steel Slags and Road Performance of Corresponding Asphalt Mixtures. <i>Materials</i> , 2019, 12, 2322.	1.3	18
161	Microwave absorption and anti-aging properties of modified bitumen contained SiC attached layered double hydroxides. <i>Construction and Building Materials</i> , 2019, 227, 116714.	3.2	18
162	Investigation of the Effect of Induction Heating on Asphalt Binder Aging in Steel Fibers Modified Asphalt Concrete. <i>Materials</i> , 2019, 12, 1067.	1.3	17

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163	Relationship between retrographical and physical properties of aggregates. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 678-681.	0.4	16
164	Self-healing characteristics of bituminous mastics using a modified direct tension test. Journal of Intelligent Material Systems and Structures, 2014, 25, 58-66.	1.4	16
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