

Henglong Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

3,654
citations

117453

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	The behaviour of rejuvenated SBS-modified asphalt incorporating catalytic-reactive compounded rejuvenator. <i>Road Materials and Pavement Design</i> , 2022, 23, 433-444.	2.0	19
2	Aging Resistances Evaluation of Multi-dimensional Nanomaterials Modified Asphalt by Characterizing Binders Recovered from Aged Asphalt Mixtures. <i>Journal of Testing and Evaluation</i> , 2022, 50, 105-116.	0.4	2
3	Comparative Evaluation of Aging Effect Difference between Aging Patterns for Asphalt Binder and Mixture. <i>Journal of Testing and Evaluation</i> , 2022, 50, 20210168.	0.4	0
4	Molecular dynamics insight into the adsorption and distribution of bitumen subfractions on Na-montmorillonite surface. <i>Fuel</i> , 2022, 310, 122380.	3.4	8
5	Evaluation on long-term performance of emulsified asphalt cold recycled mixture incorporating fly ash by mechanistic and microscopic characterization. <i>Construction and Building Materials</i> , 2022, 319, 126120.	3.2	10
6	Research on the anti-aging mechanism of SBS-modified asphalt compounded with multidimensional nanomaterials based on atomic force microscopy. <i>Construction and Building Materials</i> , 2022, 317, 125808.	3.2	19
7	A Novel Rejuvenating Method for Structural and Performance Recovery of Aged SBS-Modified Bitumen. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1565-1577.	3.2	28
8	Influence of zinc oxide/expanded vermiculite composite on the rheological and anti-aging properties of bitumen. <i>Fuel</i> , 2022, 315, 123165.	3.4	19
9	Chemical characteristics analyze of SBS-modified bitumen containing composite nanomaterials after aging by FTIR and GPC. <i>Construction and Building Materials</i> , 2022, 324, 126522.	3.2	10
10	Comparative investigation of mechanical and cooling performance between thermochromic road materials prepared by wet/dry process: For low-carbon production and sustainable service. <i>Journal of Cleaner Production</i> , 2022, 360, 132158.	4.6	5
11	Investigation on microstructure and aging resistance of bitumen modified by zinc oxide/expanded vermiculite composite synthesized with different methods. <i>Fuel</i> , 2022, 324, 124590.	3.4	8
12	Improvement of thermal and optical responses of short-term aged thermochromic asphalt binder by warm-mix asphalt technology. <i>Journal of Cleaner Production</i> , 2021, 279, 123675.	4.6	72
13	Performance of thermochromic asphalt. , 2021, , 33-59.		1
14	An improved method for separating styrene-butadiene-styrene triblock copolymer (SBS) and bitumen matrix from SBS modified bitumen. <i>Fuel</i> , 2021, 286, 119314.	3.4	9
15	Improvement of short-term aging resistance of styrene-butadiene rubber modified asphalt by Sasobit and epoxidized soybean oil. <i>Construction and Building Materials</i> , 2021, 271, 121870.	3.2	38
16	Long-term photo oxidation aging investigation of temperature-regulating bitumen based on thermochromic principle. <i>Fuel</i> , 2021, 286, 119403.	3.4	19
17	Effect of crumb rubber percentages and bitumen sources on high-temperature rheological properties of less smell crumb rubber modified bitumen. <i>Construction and Building Materials</i> , 2021, 277, 122248.	3.2	24
18	Influence of multi-dimensional nanomaterials composite form on thermal and ultraviolet oxidation aging resistances of SBS modified asphalt. <i>Construction and Building Materials</i> , 2021, 273, 122054.	3.2	23

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19	A novel method for determining the time-temperature superposition relationship of SBS modified bitumen: Effects of bitumen source, modifier type and aging. <i>Construction and Building Materials</i> , 2021, 280, 122549.	3.2	22
20	Performance evaluation of polyurethane/epoxy resin modified asphalt as adhesive layer material for steel-UHPC composite bridge deck pavements. <i>Construction and Building Materials</i> , 2021, 291, 123364.	3.2	45
21	Mini-Review on the Application of Nanomaterials in Improving Anti-Aging Properties of Asphalt. <i>Energy & Fuels</i> , 2021, 35, 11017-11036.	2.5	69
22	Investigation of anti-aging mechanism of multi-dimensional nanomaterials modified asphalt by FTIR, NMR and GPC. <i>Construction and Building Materials</i> , 2021, 305, 124809.	3.2	33
23	Synthesis, characterization and utilization of zinc oxide/expanded vermiculite composite for bitumen modification. <i>Fuel</i> , 2021, 306, 121731.	3.4	14
24	A novel warm-mix additive for SBR modified asphalt binder: Effects of Sasobit/epoxidized soybean oil compound on binder rheological and long-term aging performance. <i>Journal of Cleaner Production</i> , 2021, 326, 129405.	4.6	13
25	Effect of Aging on the Rheological Behaviors of SBS-Modified Asphalt with Thermochromic Materials. <i>Journal of Testing and Evaluation</i> , 2021, 49, 4032-4039.	0.4	3
26	Synergetic Effect of Multi-Dimensional Nanomaterials on Aging Resistance of Asphalt. <i>Journal of Testing and Evaluation</i> , 2021, 49, 2028-2034.	0.4	1
27	New innovations in pavement materials and engineering: A review on pavement engineering research 2021. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2021, 8, 815-999.	2.0	59
28	Effect of multi-dimensional nanomaterials on the aging behavior of asphalt by atomic force microscope. <i>Construction and Building Materials</i> , 2020, 260, 120389.	3.2	40
29	Determination of time-temperature superposition relationship of SBS modified asphalt based on special rheological phenomenon caused by SBS-formed structure in asphalt matrix. <i>Construction and Building Materials</i> , 2020, 260, 119835.	3.2	22
30	Effect of Thermochromic Materials on the Properties of SBS-Modified Asphalt Mixture. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	6
31	Investigation of ultraviolet radiation aging gradient in asphalt binder. <i>Construction and Building Materials</i> , 2020, 246, 118501.	3.2	54
32	An innovative and smart road construction material: thermochromic asphalt binder. , 2020, , 691-716.		3
33	Effect of catalytic-reactive rejuvenator on structure and properties of aged SBS modified asphalt binders. <i>Construction and Building Materials</i> , 2020, 246, 118531.	3.2	29
34	Effect of multi-scale nanocomposites on performance of asphalt binder and mixture. <i>Construction and Building Materials</i> , 2020, 243, 118307.	3.2	29
35	Application of functionalized nanomaterials in asphalt road construction materials. , 2020, , 865-907.		3
36	Effect of liquid anti-stripping agents on moisture sensitivity of crumb rubber modified asphalt binders and mixtures. <i>Construction and Building Materials</i> , 2019, 225, 112-119.	3.2	14

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37	Influence of layered silicate types on physical, rheological and aging properties of SBS modified asphalt with multi-dimensional nanomaterials. <i>Construction and Building Materials</i> , 2019, 228, 116735.	3.2	19
38	Effect of gradations on the final and long-term performance of asphalt emulsion cold recycled mixture. <i>Journal of Cleaner Production</i> , 2019, 217, 95-104.	4.6	34
39	Influence of SBS Modifier on Aging Behaviors of SBS-Modified Asphalt. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	54
40	Rheological and aging behaviors of base and SBS modified asphalt with thermochromic microcapsule. <i>Construction and Building Materials</i> , 2019, 200, 1-9.	3.2	34
41	Rheological performance investigation and sustainability evaluation of asphalt binder with thermochromic powders under solar radiation. <i>Solar Energy Materials and Solar Cells</i> , 2019, 191, 175-182.	3.0	40
42	Effect of liquid ASAs on the rheological properties of crumb rubber modified asphalt. <i>Construction and Building Materials</i> , 2019, 194, 238-246.	3.2	26
43	Long-term performance and microstructure of asphalt emulsion cold recycled mixture with different gradations. <i>Journal of Cleaner Production</i> , 2019, 215, 944-951.	4.6	47
44	Investigation of the aging behaviors of multi-dimensional nanomaterials modified different bitumens by Fourier transform infrared spectroscopy. <i>Construction and Building Materials</i> , 2018, 167, 536-542.	3.2	29
45	Evaluation of aging behaviors of asphalt binders through different rheological indices. <i>Fuel</i> , 2018, 221, 78-88.	3.4	299
46	Influence of Base Asphalt and SBS Modifier on the Weathering Aging Behaviors of SBS Modified Asphalt. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	48
47	Influence of different anti-stripping agents on the rheological properties of asphalt binder at high temperature. <i>Construction and Building Materials</i> , 2018, 164, 317-325.	3.2	33
48	Synthesis and characteristics of pectiniform polyurethane- ϵ -modified polycarboxylate at room temperature. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45873.	1.3	3
49	Physical, rheological and chemical characterization of aging behaviors of thermochromic asphalt binder. <i>Fuel</i> , 2018, 211, 850-858.	3.4	157
50	Physical and rheological evaluation of aging behaviors of SBS modified asphalt with thermochromic powders. <i>Construction and Building Materials</i> , 2018, 193, 135-141.	3.2	16
51	Effect of thermochromic materials on physical and aging properties of SBS modified asphalt. <i>Petroleum Science and Technology</i> , 2018, 36, 2119-2124.	0.7	7
52	Short-term aging resistance investigations of polymers and polyphosphoric acid modified asphalt binders under RTFOT aging process. <i>Construction and Building Materials</i> , 2018, 191, 787-794.	3.2	28
53	Rheological and anti-aging performance of SBS modified asphalt binders with different multi-dimensional nanomaterials. <i>Construction and Building Materials</i> , 2018, 188, 409-416.	3.2	52
54	Investigation of aging performance of SBS modified asphalt with various aging methods. <i>Construction and Building Materials</i> , 2017, 145, 445-451.	3.2	144

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55	Effect of nano-zinc oxide and organic expanded vermiculite on rheological properties of different bitumens before and after aging. <i>Construction and Building Materials</i> , 2017, 146, 30-37.	3.2	34
56	Rheological characteristics of alternative modified binders. <i>Construction and Building Materials</i> , 2017, 144, 442-450.	3.2	16
57	Synergetic effect of multi-dimensional nanomaterials for anti-aging properties of SBS modified bitumen. <i>Construction and Building Materials</i> , 2017, 144, 423-431.	3.2	45
58	Effect of different rejuvenators on the properties of aged SBS modified asphalt. <i>Petroleum Science and Technology</i> , 2017, 35, 72-78.	0.7	22
59	Physical and aging properties of different bitumens with multi-scale nanomaterials. <i>Petroleum Science and Technology</i> , 2017, 35, 1389-1395.	0.7	6
60	Evaluation of aging behaviors of asphalt with different thermochromic powders. <i>Construction and Building Materials</i> , 2017, 155, 1198-1205.	3.2	50
61	Effect of Nanozinc Oxide and Organic Expanded Vermiculite Compound on Antiaging Properties of SBR Modified Bitumen. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	1.3	19
62	Influence of multi-dimensional nanomaterials on the aging behavior of bitumen and SBS modified bitumen. <i>Petroleum Science and Technology</i> , 2017, 35, 1931-1937.	0.7	7
63	Aging rheological characteristics of SBR modified asphalt with multi-dimensional nanomaterials. <i>Construction and Building Materials</i> , 2017, 151, 388-393.	3.2	58
64	Low Temperature Performance Characteristics of Reclaimed Asphalt Pavement (RAP) Mortars with Virgin and Aged Soft Binders. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 304.	1.3	19
65	Physical, Rheological, and Aging Properties of Bitumen Containing Organic Expanded Vermiculite and Nano-Zinc Oxide. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	1.3	34
66	Effect of Rectorite and Its Organic Modification on Properties of Bitumen. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	21
67	Effect of nano-zinc oxide on ultraviolet aging properties of bitumen with 60/80 penetration grade. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 3249-3257.	1.3	56
68	Rheological examination of aging in bitumen with inorganic nanoparticles and organic expanded vermiculite. <i>Construction and Building Materials</i> , 2015, 101, 884-891.	3.2	71
69	Effect of Different Inorganic Nanoparticles on Physical and Ultraviolet Aging Properties of Bitumen. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	30
70	Properties of Bitumen Containing Various Amounts of Organic Montmorillonite. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	21
71	Influence of surface modification on physical and ultraviolet aging resistance of bitumen containing inorganic nanoparticles. <i>Construction and Building Materials</i> , 2015, 98, 735-740.	3.2	102
72	Effect of organic layered silicate on microstructures and aging properties of styrene-butadiene-styrene copolymer modified bitumen. <i>Construction and Building Materials</i> , 2014, 68, 31-38.	3.2	48

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73	Effect of organic layered silicates on flame retardancy and aging properties of bitumen. <i>Construction and Building Materials</i> , 2013, 40, 1151-1155.	3.2	56
74	Effect of ultraviolet aging on rheology, chemistry and morphology of ultraviolet absorber modified bitumen. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013, 46, 1123-1132.	1.3	118
75	Microstructures and thermal aging mechanism of expanded vermiculite modified bitumen. <i>Construction and Building Materials</i> , 2013, 47, 919-926.	3.2	47
76	Effect of expanded vermiculite on microstructures and aging properties of styrene-butadiene-styrene copolymer modified bitumen. <i>Construction and Building Materials</i> , 2013, 40, 224-230.	3.2	36
77	Effect of mineral filler on properties of warm asphalt mastic containing Sasobit. <i>Construction and Building Materials</i> , 2013, 48, 622-627.	3.2	57
78	Effect of polyphosphoric acid on physical properties, chemical composition and morphology of bitumen. <i>Construction and Building Materials</i> , 2013, 47, 92-98.	3.2	47
79	Effect of aging on the morphology of bitumen by atomic force microscopy. <i>Journal of Microscopy</i> , 2012, 246, 11-19.	0.8	71
80	Effect of expanded vermiculite on aging properties of bitumen. <i>Construction and Building Materials</i> , 2012, 26, 244-248.	3.2	60
81	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
82	Effect of Layered Double Hydroxides (LDHs) on Aging Properties of Bitumen. <i>Journal of Testing and Evaluation</i> , 2012, 40, 734-739.	0.4	32
83	Effect of aging on morphology of organo-montmorillonite modified bitumen by atomic force microscopy. <i>Journal of Microscopy</i> , 2011, 242, 37-45.	0.8	113
84	Effect of montmorillonite organic modification on microstructures and ultraviolet aging properties of bitumen. <i>Journal of Microscopy</i> , 2011, 244, 85-92.	0.8	31
85	Investigation of microstructures and ultraviolet aging properties of organo-montmorillonite/SBS modified bitumen. <i>Materials Chemistry and Physics</i> , 2011, 129, 769-776.	2.0	111
86	Effect of organo-montmorillonite on the morphology and aging properties of various bitumens. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 650-655.	0.4	20
87	Effects of core-shell acrylate particles on impact properties of chlorinated polyethylene/polyvinyl chloride blends. <i>Polymer Engineering and Science</i> , 2010, 50, 295-301.	1.5	15
88	Effect of organophilic montmorillonite on thermal-oxidative aging behavior of SBS modified bitumen crack filling material. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009, 24, 673-676.	0.4	6
89	Effect of organo-montmorillonite on aging properties of asphalt. <i>Construction and Building Materials</i> , 2009, 23, 2636-2640.	3.2	213
90	Comparative investigation of different blends ageing behaviours for short-term thermal oxidation ageing mechanism of SBS-modified bitumen. <i>Road Materials and Pavement Design</i> , 0, , 1-15.	2.0	1