

Chao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

928
citations

471509

17
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

504
citing authors

#	ARTICLE	IF	CITATIONS
1	Unified failure criterion for asphalt binder under cyclic fatigue loading. <i>Road Materials and Pavement Design</i> , 2015, 16, 125-148.	4.0	110
2	Laboratory investigation on chemical and rheological properties of bio-asphalt binders incorporating waste cooking oil. <i>Construction and Building Materials</i> , 2018, 167, 348-358.	7.2	96
3	Identifying fatigue failure in asphalt binder time sweep tests. <i>Construction and Building Materials</i> , 2016, 121, 535-546.	7.2	77
4	A framework to characterize the healing potential of asphalt binder using the linear amplitude sweep test. <i>Construction and Building Materials</i> , 2017, 154, 771-779.	7.2	60
5	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.	4.2	59
6	Experimental study on rheological characteristics and performance of high modulus asphalt binder with different modifiers. <i>Construction and Building Materials</i> , 2017, 155, 26-36.	7.2	52
7	Fatigue characterization of bio-modified asphalt binders under various laboratory aging conditions. <i>Construction and Building Materials</i> , 2019, 208, 686-696.	7.2	52
8	A new comprehensive analysis framework for fatigue characterization of asphalt binder using the Linear Amplitude Sweep test. <i>Construction and Building Materials</i> , 2018, 171, 1-12.	7.2	51
9	Fatigue performance characterization and prediction of asphalt binders using the linear amplitude sweep based viscoelastic continuum damage approach. <i>International Journal of Fatigue</i> , 2019, 119, 112-125.	5.7	47
10	Effect of Co-Production of Renewable Biomaterials on the Performance of Asphalt Binder in Macro and Micro Perspectives. <i>Materials</i> , 2018, 11, 244.	2.9	41
11	Comparison of the fatigue failure behaviour for asphalt binder using both cyclic and monotonic loading modes. <i>Construction and Building Materials</i> , 2017, 151, 767-774.	7.2	36
12	A chemo-rheological approach to the healing characteristics of asphalt binders under short- and long-term oxidative aging. <i>Construction and Building Materials</i> , 2019, 221, 553-561.	7.2	32
13	Fatigue and healing performance assessment of asphalt binder from rheological and chemical characteristics. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	3.1	30
14	Performance of bio-oil modified paving asphalt: chemical and rheological characterization. <i>Materials and Structures/Materiaux Et Constructions</i> , 2019, 52, 1.	3.1	30
15	Refining the Calculation Method for Fatigue Failure Criterion of Asphalt Binder from Linear Amplitude Sweep Test. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	2.9	28
16	Application of Time-Temperature Superposition Principle on Fatigue Failure Analysis of Asphalt Binder. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	2.9	22
17	Roles of aging and bio-oil regeneration on self-healing evolution behavior of asphalts within wide temperature range. <i>Journal of Cleaner Production</i> , 2021, 329, 129712.	9.3	19
18	A comparative study for fatigue characterization of asphalt binder using the linear amplitude sweep test. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	3.1	16

#	ARTICLE	IF	CITATIONS
19	Development of paving performance index system for selection of modified asphalt binder. Construction and Building Materials, 2017, 153, 695-703.	7.2	15
20	Physico-chemo-rheological characterization of neat and polymer-modified asphalt binders. Construction and Building Materials, 2019, 199, 471-482.	7.2	12
21	Intermediate and High Temperature Performance of Biobinders with Various Oxidative Aging. Journal of Materials in Civil Engineering, 2019, 31, .	2.9	7
22	Investigating the Crack Initiation and Propagation of Asphalt Binder in Linear Amplitude Sweep Test. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	7
23	Effect of Organic-Montmorillonite on rheological performance of Bio-Asphalt composites with various oxidative aging. Construction and Building Materials, 2022, 342, 127945.	7.2	6
24	Cohesive and adhesive healing evaluation of asphalt binders by means of the LASH and BBSH tests. Construction and Building Materials, 2021, 282, 122684.	7.2	4
25	Testing Methods to Assess Healing Potential of Bituminous Binders. RILEM Bookseries, 2022, , 55-62.	0.4	4
26	Oxidative Aging Effects on Damage-Healing Performance of Unmodified and Polymer Modified Asphalt Binders. Lecture Notes in Civil Engineering, 2020, , 395-403.	0.4	4
27	Estimating the Healing Characteristic of Asphalt Binder Using the LASH Test. Journal of Materials in Civil Engineering, 2022, 34, .	2.9	4
28	Characterizing the Temperature Effects on Rutting and Fatigue Properties of Asphalt Binders Based on Time-Temperature Superposition Principle. Journal of Testing and Evaluation, 2019, 47, 2476-2496.	0.7	3
29	Study on the Mechanical Properties of Waste Cooking Oil Modified Asphalt Binder. RILEM Bookseries, 2019, , 215-219.	0.4	2
30	Characterizing Fatigue Failure Behavior of Modified Asphalt Binders from Linear Amplitude Sweep Test. DEStech Transactions on Materials Science and Engineering, 2017, , .	0.0	2
31	Rheological Properties of Asphalt Binder Compound Modified by Bio-oil and Organic Montmorillonite. RILEM Bookseries, 2022, , 1603-1609.	0.4	0