

Xian-Hua Chen

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

647
citations

623734

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38
all docs

38
docs citations

38
times ranked

443
citing authors

#	ARTICLE	IF	CITATIONS
1	Research on Travel Time Prediction Model of Freeway Based on Gradient Boosting Decision Tree. IEEE Access, 2019, 7, 7466-7480.	4.2	89
2	Evaluation on the cracking resistance of semi-flexible pavement mixture by laboratory research and field validation. Construction and Building Materials, 2019, 207, 387-395.	7.2	68
3	Fatigue resistance of aged asphalt binders: An investigation of different analytical methods in linear amplitude sweep test. Construction and Building Materials, 2020, 241, 118099.	7.2	44
4	Evaluation of aging resistance for high-performance crumb tire rubber compound modified asphalt. Construction and Building Materials, 2019, 218, 497-505.	7.2	36
5	Application of Mastic Asphalt Waterproofing Layer in High-Speed Railway Track in Cold Regions. Applied Sciences (Switzerland), 2018, 8, 667.	2.5	31
6	Rheological properties of SBS/CR-C composite modified asphalt binders in different aging conditions. Construction and Building Materials, 2019, 215, 1-8.	7.2	31
7	Investigation on reinforcing mechanisms of semi-flexible pavement material through micromechanical model. Construction and Building Materials, 2019, 198, 732-741.	7.2	31
8	Modelling and in-situ measurement of dynamic behavior of asphalt supporting layer in slab track system. Construction and Building Materials, 2019, 228, 116776.	7.2	30
9	Damage analysis of semi-flexible pavement material under axial compression test based on acoustic emission technique. Construction and Building Materials, 2020, 239, 117773.	7.2	25
10	Evolution of Rheological Behaviors of Styrene-Butadiene-Styrene/Crumb Rubber Composite Modified Bitumen after Different Long-Term Aging Processes. Materials, 2019, 12, 2345.	2.9	23
11	Investigation on Interface Damage between Cement Concrete Base Plate and Asphalt Concrete Waterproofing Layer under Temperature Load in Ballastless Track. Applied Sciences (Switzerland), 2020, 10, 2654.	2.5	19
12	Design principle of deck pavements for long-span steel bridges with heavy-duty traffic in China. Road Materials and Pavement Design, 2017, 18, 226-239.	4.0	16
13	Numerical study and in-situ measurement of temperature features of asphalt supporting layer in slab track system. Construction and Building Materials, 2020, 233, 117343.	7.2	16
14	Identification of damage mechanisms during splitting test on SFP at different temperatures based on acoustic emission. Construction and Building Materials, 2021, 270, 121391.	7.2	16
15	Dynamic Responses of Asphalt Concrete Waterproofing Layer in Ballastless Track. Applied Sciences (Switzerland), 2019, 9, 375.	2.5	15
16	Fatigue Resistance and Cracking Mechanism of Semi-Flexible Pavement Mixture. Materials, 2021, 14, 5277.	2.9	14
17	Characterization of Three-Dimensional Internal Structure Evolution in Asphalt Mixtures during Freeze-Thaw Cycles. Applied Sciences (Switzerland), 2021, 11, 4316.	2.5	13
18	Developing a Travel Time Estimation Method of Freeway Based on Floating Car Using Random Forests. Journal of Advanced Transportation, 2019, 2019, 1-13.	1.7	12

#	ARTICLE	IF	CITATIONS
19	Study on Storage Stability of Activated Reclaimed Rubber Powder Modified Asphalt. <i>Materials</i> , 2021, 14, 4684.	2.9	12
20	Long-Lasting Waterproofing Solution for the Subgrade of High-Speed Railway in Cold Region. <i>Journal of Testing and Evaluation</i> , 2019, 47, 1982-1994.	0.7	12
21	Effect of Clogging on the Permeability of Porous Asphalt Pavement. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-9.	1.8	10
22	Rheological Properties of Graphene/Polyethylene Composite Modified Asphalt Binder. <i>Materials</i> , 2021, 14, 3986.	2.9	10
23	Temperature features of the asphalt concrete waterproofing layer on high-speed railway in cold regions. <i>Construction and Building Materials</i> , 2021, 305, 124665.	7.2	10
24	Damage Fracture Characterization of Asphalt Mixtures Considering Freeze-Thaw Cycling and Aging Effects Based on Acoustic Emission Monitoring. <i>Materials</i> , 2021, 14, 5930.	2.9	9
25	Innovative Approach for Pavement Runoff Characterization. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, 04017047.	2.0	8
26	Mechanical Characteristics and Failure Mode of Asphalt Concrete for Ballastless Track Substructure Based on In Situ Tests. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3547.	2.5	7
27	SAPAVE: an improved semi-analytical FE program for dynamic viscoelastic analysis of asphalt pavement. <i>International Journal of Pavement Engineering</i> , 2022, 23, 3024-3035.	4.4	7
28	Characterization of Desulfurized Crumb Rubber/Styrene-Butadiene-Styrene Composite Modified Asphalt Based on Rheological Properties. <i>Materials</i> , 2021, 14, 3780.	2.9	7
29	Rheological and Aging Properties of Composite Modified Bitumen by Styrene-Butadiene-Styrene and Desulfurized Crumb Rubber. <i>Polymers</i> , 2021, 13, 3037.	4.5	7
30	Dynamic elastic analysis of flexible pavements under moving vehicles: a semi-analytical finite element treatment. <i>Road Materials and Pavement Design</i> , 2022, 23, 1440-1450.	4.0	5
31	Evaluation Approach of Fracture Behavior for Asphalt Concrete with Different Aggregate Gradations and Testing Temperatures Using Acoustic Emission Monitoring. <i>Materials</i> , 2021, 14, 4390.	2.9	4
32	Simulation on Water Flow in Permeable Pavement Influenced by Voids Decrease. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2022, 148, .	1.5	4
33	Water Distribution Influenced by Pavement Alignment Design. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2020, 146, 04020058.	1.5	3
34	Wear behavior analysis and study on skid resistance on SMA pavement. , 2011, , .		1
35	Effect of Weather Aging on Viscoelasticity and Fatigue Performance of Asphalt Mastic. <i>Materials</i> , 2021, 14, 6163.	2.9	1
36	A Rapid Method for the Determination of SBS Content Based on the Principle of Orthogonal Testing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10911.	2.5	1

#	ARTICLE	IF	CITATIONS
37	Performance Evaluation of SBS+CR Composite Modified Asphalt Binder and Mixture for Railway Substructure. , 2019, , .		0
38	Evaluation of Pavement Runoff and Driving Safety on Highway Curve Segment. Baltic Journal of Road and Bridge Engineering, 2021, 16, 176-191.	0.8	0