

Chao Xing

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

979
citations

471477

17
h-index

434170

31
g-index

35
all docs

35
docs citations

35
times ranked

579
citing authors

#	ARTICLE	IF	CITATIONS
1	Research on Rutting Deformation Monitoring Method Based on Intelligent Aggregate. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22116-22126.	8.0	11
2	Estimating the effect of coarse aggregate meso-structure on the thermal contraction of asphalt mixture by a hierarchical prediction approach. Construction and Building Materials, 2022, 342, 128048.	7.2	7
3	Scale demarcation of self-affine surface of coarse aggregate and its relationship with rubber friction. Road Materials and Pavement Design, 2021, 22, 1842-1859.	4.0	4
4	Microstructure Evolution Mechanism of Geopolymers with Exposure to High-Temperature Environment. Crystals, 2021, 11, 1062.	2.2	2
5	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.	4.2	59
6	Rayleigh wave technology for analysis dynamic modulus of asphalt mixtures: feasibility and application. International Journal of Pavement Engineering, 2020, 21, 1235-1247.	4.4	5
7	Feasibility of freeze-thaw damage analysis for asphalt mixtures through dynamic nondestructive testing. Construction and Building Materials, 2020, 233, 117220.	7.2	15
8	Fatigue damage and creep characteristics of cement emulsified asphalt composite binder. Construction and Building Materials, 2020, 234, 117416.	7.2	13
9	Numerical investigation of the mechanical response of semi-rigid base asphalt pavement under traffic load and nonlinear temperature gradient effect. Construction and Building Materials, 2020, 235, 117406.	7.2	61
10	Strain field distribution of asphalt mortar using digital image processing. Construction and Building Materials, 2020, 238, 117624.	7.2	16
11	Particle distribution around the damage area of asphalt mixture based on digital image correlation. Powder Technology, 2020, 375, 11-19.	4.2	14
12	Evolution of dynamic flow behavior in asphalt mixtures exposed to freeze-thaw cycles. Construction and Building Materials, 2020, 255, 119320.	7.2	9
13	Investigating fatigue life prediction of rubber asphalt mixture based on damage evolution using residual strain analysis approach. Construction and Building Materials, 2020, 257, 119476.	7.2	23
14	Evaluation of Geometric Characteristics of Fine Aggregate and Its Impact on Viscoelastic Property of Asphalt Mortar. Applied Sciences (Switzerland), 2020, 10, 130.	2.5	5
15	Investigation of aggregate moisture content variation and its impact on pavement performance of WMA. Construction and Building Materials, 2020, 255, 119350.	7.2	7
16	Effects of freeze-thaw cycles on fatigue performance of asphalt mixture and development of fatigue-freeze-thaw (FFT) uniform equation. Construction and Building Materials, 2020, 242, 118043.	7.2	32
17	Rubber friction on icy pavement: Experiments and modeling. Cold Regions Science and Technology, 2020, 174, 103022.	3.5	6
18	Investigation on preferential path of fluid flow by using topological network model of permeable asphalt mixture. Construction and Building Materials, 2020, 242, 118163.	7.2	7

#	ARTICLE	IF	CITATIONS
19	Freeze-thaw damage and creep behavior of cement asphalt composite binder. <i>Construction and Building Materials</i> , 2020, 245, 118407.	7.2	11
20	Flow regime analysis of fluid in permeable asphalt mixture. <i>Construction and Building Materials</i> , 2020, 250, 118906.	7.2	3
21	Void Distribution in Zeolite Warm Mix Asphalt Mixture Based on X-ray Computed Tomography. <i>Materials</i> , 2019, 12, 1888.	2.9	6
22	Mesostructured property of aggregate disruption in asphalt mixture based on digital image processing method. <i>Construction and Building Materials</i> , 2019, 200, 781-789.	7.2	39
23	Safety aspects on icy asphalt pavement in cold region through field investigations. <i>Cold Regions Science and Technology</i> , 2019, 161, 21-31.	3.5	15
24	Moisture seepage in asphalt mixture using X-ray imaging technology. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 375-384.	4.8	36
25	Gradation measurement of asphalt mixture by X-Ray CT images and digital image processing methods. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 132, 377-386.	5.0	60
26	Investigation of anisotropic flow in asphalt mixtures using the X-ray image technique: pore structure effect. <i>Road Materials and Pavement Design</i> , 2019, 20, 491-508.	4.0	20
27	Micro-scale moisture distribution and hydrologically active pores in partially saturated asphalt mixtures by X-ray computed tomography. <i>Construction and Building Materials</i> , 2018, 160, 653-667.	7.2	50
28	A Micro-Scale Investigation on the Behaviors of Asphalt Mixtures under Freeze-Thaw Cycles Using Entropy Theory and a Computerized Tomography Scanning Technique. <i>Entropy</i> , 2018, 20, 68.	2.2	38
29	Research on local deformation property of asphalt mixture using digital image correlation. <i>Construction and Building Materials</i> , 2017, 140, 416-423.	7.2	26
30	Characterization of moisture vapor diffusion in fine aggregate mixtures using Fickian and non-Fickian models. <i>Materials and Design</i> , 2017, 124, 108-120.	7.0	25
31	Quasi-Brittle Fracture Modeling of Preflawn Bitumen Using a Diffuse Interface Model. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-7.	1.8	19
32	Using DSR and MSCR tests to characterize high temperature performance of different rubber modified asphalt. <i>Construction and Building Materials</i> , 2016, 127, 466-474.	7.2	96
33	Permeability of asphalt mixtures exposed to freeze-thaw cycles. <i>Cold Regions Science and Technology</i> , 2016, 123, 99-106.	3.5	73
34	X-ray computed tomography in hydraulics of asphalt mixtures: Procedure, accuracy, and application. <i>Construction and Building Materials</i> , 2016, 108, 10-21.	7.2	32
35	Internal structure evolution of asphalt mixtures during freeze-thaw cycles. <i>Materials and Design</i> , 2015, 86, 436-446.	7.0	134