

# Jiaqi Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

876  
citations

687220

13  
h-index

752573

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromechanical analysis of asphalt mixture fracture with adhesive and cohesive failure. <i>Engineering Fracture Mechanics</i> , 2014, 132, 104-119.	2.0	114
2	Analytical approach for evaluating temperature field of thermal modified asphalt pavement and urban heat island effect. <i>Applied Thermal Engineering</i> , 2017, 113, 739-748.	3.0	114
3	Pavement temperature prediction: Theoretical models and critical affecting factors. <i>Applied Thermal Engineering</i> , 2019, 158, 113755.	3.0	110
4	Evaluation of thermal conductivity of asphalt concrete with heterogeneous microstructure. <i>Applied Thermal Engineering</i> , 2015, 84, 368-374.	3.0	100
5	Evaluation of pavement responses and performance with thermal modified asphalt mixture. <i>Materials and Design</i> , 2016, 111, 88-97.	3.3	66
6	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
7	Determination of Effective Thermal Conductivity of Asphalt Concrete with Random Aggregate Microstructure. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	58
8	Virtual testing of asphalt mixture with two-dimensional and three-dimensional random aggregate structures. <i>International Journal of Pavement Engineering</i> , 2017, 18, 824-836.	2.2	56
9	Analysis of thermal conductivity of porous concrete using laboratory measurements and microstructure models. <i>Construction and Building Materials</i> , 2019, 218, 90-98.	3.2	45
10	Random Modeling of Three-Dimensional Heterogeneous Microstructure of Asphalt Concrete for Mechanical Analysis. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, .	1.6	40
11	Fracture simulation of asphalt concrete with randomly generated aggregate microstructure. <i>Road Materials and Pavement Design</i> , 2018, 19, 1674-1691.	2.0	25
12	Experimental measurement and microstructure-based simulation of thermal conductivity of unbound aggregates. <i>Construction and Building Materials</i> , 2018, 189, 8-18.	3.2	23
13	Improvement of Asphalt-Aggregate Adhesion Using Plant Ash Byproduct. <i>Materials</i> , 2019, 12, 605.	1.3	21
14	Probability prediction of pavement surface low temperature in winter based on bayesian structural time series and neural network. <i>Cold Regions Science and Technology</i> , 2022, 194, 103434.	1.6	13
15	Low-temperature fracture characteristics of asphalt mixtures using the eccentric single-edge notched bend test: A 3D discrete element study. <i>Construction and Building Materials</i> , 2022, 344, 128182.	3.2	10
16	Three-dimensional microstructure based model for evaluating the coefficient of thermal expansion and contraction of asphalt concrete. <i>Construction and Building Materials</i> , 2021, 284, 122764.	3.2	9
17	Finite Element Analysis of Composite Repair for Damaged Steel Pipeline. <i>Coatings</i> , 2021, 11, 301.	1.2	6
18	Mechanistic“Empirical Analysis of Pavement Performance Considering Dynamic Axle Load Spectra Due to Longitudinal Unevenness. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2600.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Characterizing Skeleton Structure and Stacking Properties of Continuous and Gap Graded Aggregate Mixtures. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-14.	0.4	2
20	Combined Prediction Method for Thermal Conductivity of Asphalt Concrete Based on Meso-Structure and Renormalization Technology. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 857.	1.3	2