Lijun Sun

List of Publications by Year
in descending order

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		430442	414034
76	1,239	18	32
papers	citations	h-index	g-index

76	76	76	1002
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Verification and Modeling of Three-Stage Permanent Deformation Behavior of Asphalt Mixes. Journal of Transportation Engineering, 2004, 130, 486-494.	0.9	168
2	Revealing psychological inertia in mode shift behavior and its quantitative influences on commuting trips. Transportation Research Part F: Traffic Psychology and Behaviour, 2020, 71, 272-287.	1.8	78
3	Effects of actual loading waveforms on the fatigue behaviours of asphalt mixtures. International Journal of Fatigue, 2021, 151, 106386.	2.8	75
4	The Molecular and Mechanistic Insights Based on Gutâ€“Liver Axis: Nutritional Target for Non-Alcoholic Fatty Liver Disease (NAFLD) Improvement. International Journal of Molecular Sciences, 2020, 21, 3066.	1.8	68
5	One pot synthesis of gold nanoparticles using chitosan with varying degree of deacetylation and molecular weight. Carbohydrate Polymers, 2017, 178, 105-114.	5.1	51
6	Anti-Inflammatory and Anti-Oxidative Activity of Indole-3-Acetic Acid Involves Induction of HO-1 and Neutralization of Free Radicals in RAW264.7 Cells. International Journal of Molecular Sciences, 2020, 21, 1579.	1.8	45
7	Review on Theoretical Delay Estimation Model for Signalized Intersections. Transport Reviews, 2016, 36, 479-499.	4.7	43
8	Competitive, cooperative and Stackelberg congestion pricing for multiple regions in transportation networks. Transportmetrica, 2011, 7, 297-320.	1.8	42
9	Temperature predictions for asphalt pavement with thick asphalt layer. Construction and Building Materials, 2018, 160, 802-809.	3.2	41
10	Impacts of reduced visibility under hazy weather condition on collision risk and car-following behavior: Implications for traffic control and management. International Journal of Sustainable Transportation, 2020, 14, 635-642.	2.1	38
11	A nondestructive evaluation method for semi-rigid base cracking condition of asphalt pavement. Construction and Building Materials, 2018, 162, 892-897.	3.2	32
12	Fatigue characteristics of in-service cold recycling mixture with asphalt emulsion and HMA mixture. Construction and Building Materials, 2018, 192, 704-714.	3.2	29
13	Bridging the gap between laboratory and field moduli of asphalt layer for pavement design and assessment: A comprehensive loading frequency-based approach. Frontiers of Structural and Civil Engineering, 2022, 16, 267-280.	1.2	28
14	Size controllable one step synthesis of gold nanoparticles using carboxymethyl chitosan. International Journal of Biological Macromolecules, 2019, 122, 770-783.	3.6	27
15	Comparative analysis of strain-pulse-based loading frequencies for three types of asphalt pavements via field tests with moving truck axle loading. Construction and Building Materials, 2020, 247, 118519.	3.2	27
16	Critical position of fatigue damage within asphalt pavement considering temperature and strain distribution. International Journal of Pavement Engineering, 2021, 22, 1773-1784.	2.2	27
17	Fatigue behaviours of asphalt mixture at different temperatures in four-point bending and indirect tensile fatigue tests. Construction and Building Materials, 2021, 273, 121675.	3.2	27
18	Determination of Layer Modulus Master Curve for Steel Deck Pavement using Field-Measured Strain Data. Transportation Research Record, 2019, 2673, 617-627.	1.0	20

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19	In-situ resources for infrastructure construction on Mars: A review. International Journal of Transportation Science and Technology, 2022, 11, 1-16.	2.0	19
20	Development and calibration of shear-based rutting model for asphalt concrete layers. International Journal of Pavement Engineering, 2017, 18, 937-944.	2.2	15
21	Critical response analysis of steel deck pavement based on viscoelastic finite element model. International Journal of Pavement Engineering, 2021, 22, 307-318.	2.2	15
22	Estimating Tensile and Compressive Moduli of Asphalt Mixture from Indirect Tensile and Four-Point Bending Tests. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	15
23	Deterioration Prediction of Urban Bridges on Network Level Using Markov-Chain Model. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	14
24	Initiation and Propagation of Top-Down Cracking in Asphalt Pavement. Applied Sciences (Switzerland), 2018, 8, 774.	1.3	14
25	Relationships between Asphalt-Layer Moduli under Vehicular Loading and FWD Loading. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	14
26	Mechanical evaluation and mechanism analysis of the stripping resistance and healing performance of modified asphalt-basalt aggregate combinations. Construction and Building Materials, 2021, 273, 121922.	3.2	14
27	Research on Comprehensive Multi-Infrastructure Optimization in Transportation Asset Management: The Case of Roads and Bridges. Sustainability, 2019, 11, 4430.	1.6	12
28	Performance-based design of hard asphalt mixtures based on different compaction effort variable. Construction and Building Materials, 2020, 254, 119240.	3.2	12
29	Analysis of Quantification and Mechanism of SBS Modifier in SBS-Modified Asphalt. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	12
30	Performance-based design of recycled hot-mix asphalt (HMA) incorporating compaction effort variable. Construction and Building Materials, 2021, 303, 124277.	3.2	12
31	Toward the development of performance-related specification for bio-rejuvenators. Construction and Building Materials, 2018, 174, 443-455.	3.2	11
32	Design Process of Asphalt Mixture Incorporating Compaction-Effort Variable. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	11
33	Investigating the asphalt binder/mastic bonding healing behavior using bitumen bonding strength test and X-ray Computed Tomography scan. Construction and Building Materials, 2020, 257, 119504.	3.2	11
34	Investigating binder aging during hot in-place recycling (HIR) of asphalt pavement. Construction and Building Materials, 2021, 276, 122188.	3.2	11
35	Effects of using different dynamic moduli on predicted asphalt pavement responses in mechanistic pavement design. Road Materials and Pavement Design, 2022, 23, 1860-1876.	2.0	11
36	Leachate risks of fine solid wastes in porous asphalt pavement and runoff purification effects of diatomite filler. Journal of Cleaner Production, 2021, 297, 126623.	4.6	11

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37	Traffic incident recovery time prediction model based on cell transmission model. , 2009, , .		9
38	Sensor Location Problem for Network Traffic Flow Derivation Based on Turning Ratios at Intersection. Mathematical Problems in Engineering, 2016, 2016, 1-10.	0.6	8
39	Analysis of parameters affecting asphalt mixture performance and new perspectives on the design parameters. Construction and Building Materials, 2018, 174, 625-632.	3.2	7
40	A New Local Knowledge-Based Collaborative Representation for Image Recognition. IEEE Access, 2020, 8, 81069-81079.	2.6	7
41	Inertia effects of past behavior in commuting modal shift behavior: interactions, variations and implications for demand estimation. Transportation, 2022, 49, 1063-1097.	2.1	7
42	Frequency adjustment method for in-situ seismic modulus of asphalt concrete. International Journal of Pavement Engineering, 0, , 1-9.	2.2	7
43	Analysis of fatigue behaviors of asphalt mixture under actual loading waveforms using pseudo-strain-based approaches. International Journal of Pavement Engineering, 2023, 24, .	2.2	7
44	Effects of nominal maximum aggregate size and compaction effort on the mechanical properties of hot-mix asphalt (HMA). Construction and Building Materials, 2022, 324, 126715.	3.2	7
45	Quantifying physical and rheological properties of trichloroethylene-asphalt system to improve performance evaluation of recycled asphalt. Journal of Cleaner Production, 2022, 367, 133018.	4.6	7
46	Roles of Psychological Resistance to Change Factors and Heterogeneity in Car Stickiness and Transit Loyalty in Mode Shift Behavior: A Hybrid Choice Approach. Sustainability, 2019, 11, 4813.	1.6	6
47	Laboratory Performance Evaluation of Hot-Mix Asphalt Mixtures with Different Design Parameters. Applied Sciences (Switzerland), 2020, 10, 3038.	1.3	6
48	Simulation model based on Monte Carlo method for traffic assignment in local area road network. Frontiers of Architecture and Civil Engineering in China, 2009, 3, 195-203.	0.4	5
49	Small target recognition method on weak features. Multimedia Tools and Applications, 2021, 80, 4183-4201.	2.6	5
50	Role of Innate lymphoid Cells in Obesity and Insulin Resistance. Frontiers in Endocrinology, 2022, 13, 855197.	1.5	5
51	Equalized Grey Wolf Optimizer with Refraction Opposite Learning. Computational Intelligence and Neuroscience, 2022, 2022, 1-18.	1.1	5
52	An Enhanced DV-Hop Localization Scheme Based on Weighted Iteration and Optimal Beacon Set. Electronics (Switzerland), 2022, 11, 1774.	1.8	5
53	Application of Artificial Intelligence for Bridge Deterioration Model. Scientific World Journal, The, 2015, 2015, 1-6.	0.8	4
54	Estimation of total fatigue life for in-service asphalt mixture based on accelerated pavement testing and four-point bending beam fatigue tests. Canadian Journal of Civil Engineering, 2019, 46, 557-566.	0.7	4

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55	Determination of volumetric criteria for designing hard asphalt mixture. Construction and Building Materials, 2021, 278, 122243.	3.2	4
56	Assessing Mechanical Properties of Hard Asphalt Mixtures with Different Design Methods. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	4
57	Semigroup of fuzzy automata and its application for fast accurate fault diagnosis on machine and anti-fatigue control. Applied Intelligence, 2020, 50, 1542-1557.	3.3	3
58	Hypergraph-based resource allocation for Device-to-Device underlay H-CRAN network. International Journal of Distributed Sensor Networks, 2020, 16, 155014772095133.	1.3	2
59	Closure to â€œDesign Process of Asphalt Mixture Incorporating Compaction-Effort Variableâ€•by Yining Zhang, Lijun Sun, and Dong Luo. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	2
60	Relating Field Moduli of Asphalt Mixture Layer Under Vehicular Loading and its Dynamic Moduli Under Laboratory Loading. Transportation Research Record, 2022, 2676, 567-579.	1.0	2
61	Back-Calculation of the Moduli of Asphalt Pavement Layer Using Accelerated Pavement Testing Data. Lecture Notes in Civil Engineering, 2020, , 379-388.	0.3	2
62	Peptidoglycan inhibits beigeing of adipose tissue. Acta Pharmaceutica Sinica B, 2022, 12, 990-993.	5.7	2
63	Vertical compressive strain-based method for setting the rigid layer depth based on falling weight deflectometer test. Construction and Building Materials, 2022, 319, 126156.	3.2	2
64	Moving object detection via RPCA framework using non-convex low-rank approximation and total variational regularization. Signal, Image and Video Processing, 2023, 17, 109-117.	1.7	2
65	Influence of heterogeneity of driving behavior under exceptional event on network performance by simulations. , 2011, , .		1
66	Power Flow Calculation and Conductor Temperature Change Process Analysis of Single-Line Direct Supply Traction Network. IEEE Access, 2021, 9, 57632-57644.	2.6	1
67	A Data-Efficient Approach for Evacuation Demand Generation and Dissipation Prediction in Urban Rail Transit System. Sustainability, 2021, 13, 9692.	1.6	1
68	Application of Computer Network Technology (NT) in Transportation Infrastructure Management System (TIMS). , 2004, , 525.		0
69	The Preliminary Application of Element-Free Galerkin Method (EFGM) in Asphalt Pavement Mechanical Analysis. , 2007, , .		0
70	Research on Exterior Traffic Organization Strategy of the 2010 Shanghai Expo. , 2008, , .		0
71	Analyzing Market Shares of Competitive Public Transportation Pivotal Facilities with a Continuous Equilibrium Modeling Approach. , 2009, , .		0
72	Demand analysis of guidance information for passenger based on principal components analysis. , 2011, , .		0

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73	Research on Design Method for Heavy-Duty Asphalt Pavements and Its Application. Journal of Testing and Evaluation, 2012, 40, 20120160.	0.4	0
74	Shear-Property-Based Design Approach of Asphalt Mixture in Long and Steep Sectionsâ€”Taking Togo No. 1 Highway as a Case. Advances in Civil Engineering Materials, 2018, 7, 291-301.	0.2	0
75	A Road Modulus Test Method Based on Rigid Spherical Indentation. Canadian Journal of Civil Engineering, 0, , .	0.7	0
76	Determination of Optimal Characteristic Point Positions for Modulus Back-Calculation of Layered Pavement Structure. Journal of Transportation Engineering Part B: Pavements, 2022, 148, .	0.8	0