

Huang, Bs

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1701470/publications.pdf>

Version: 2024-02-01

273
papers

13,155
citations

19608

61
h-index

34900

98
g-index

274
all docs

274
docs citations

274
times ranked

5989
citing authors

#	ARTICLE	IF	CITATIONS
1	Life-cycle cost analysis of rehabilitation strategies for asphalt pavements based on probabilistic models. <i>Road Materials and Pavement Design</i> , 2023, 24, 121-137.	2.0	9
2	Comparative Study of Pavement Rehabilitation Using Hot in-Place Recycling and Hot-Mix Asphalt: Performance Evaluation, Pavement Life Prediction, and Life Cycle Cost Analysis. <i>Transportation Research Record</i> , 2023, 2677, 420-431.	1.0	8
3	Investigation Into Collection Variability of Surface Crack Data for Network-Level Asphalt Pavement Evaluation. <i>Transportation Research Record</i> , 2023, 2677, 1538-1553.	1.0	0
4	An efficient and robust method for predicting asphalt concrete dynamic modulus. <i>International Journal of Pavement Engineering</i> , 2022, 23, 2565-2576.	2.2	10
5	Visualization and quantification of soil laboratory impact compaction. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 616-624.	3.7	4
6	Mechanical characteristics of dowel bar-concrete interaction: based on substructure experiment. <i>International Journal of Pavement Engineering</i> , 2022, 23, 2392-2404.	2.2	6
7	Characterization of Shear Resistance of Interlayer between Concrete Bridge Deck and Asphalt Concrete Overlay Utilizing Inclination Shear Test. <i>Journal of Materials in Civil Engineering</i> , 2022, 34, .	1.3	4
8	Characterization of Fatigue Looseness of Dowel Bars Based on Substructure Experiment. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2022, 148, .	0.8	1
9	Measuring moisture damage of asphalt mixtures: The development of a new modified boiling test based on color image processing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 190, 110699.	2.5	22
10	Recycled polyethylene and crumb rubber composites modified asphalt with improved aging resistance and thermal stability. <i>Journal of Cleaner Production</i> , 2022, 334, 130102.	4.6	42
11	Evaluation of inverted pavement by structural condition indicators from falling weight deflectometer. <i>Construction and Building Materials</i> , 2022, 319, 125991.	3.2	43
12	Numerical investigation of pavement responses under TSD and FWD loading. <i>Construction and Building Materials</i> , 2022, 318, 126014.	3.2	15
13	Effects of Mixture and Aggregate Type on Over-Compaction in Hot Mix Asphalt in Tennessee. <i>Transportation Research Record</i> , 2022, 2676, 448-460.	1.0	12
14	3D Multiscale Modeling of Asphalt Pavement Responses under Coupled Temperature–Stress Fields. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	1.6	17
15	Discussion of “Effect of Curing Time on the Performance of Fly Ash Geopolymer-Stabilized RAP Bases” by Maheshbabu Jallu, Sireesh Saride, Arul Arulrajah, Subrahmanyam Challapalli, and Robert Evans. <i>Journal of Materials in Civil Engineering</i> , 2022, 34, .	1.3	2
16	Influence of waste glass powder as a supplementary cementitious material (SCM) on physical and mechanical properties of cement paste under high temperatures. <i>Journal of Cleaner Production</i> , 2022, 340, 130778.	4.6	125
17	Field investigation and numerical analysis of an inverted pavement system in Tennessee, USA. <i>Transportation Geotechnics</i> , 2022, 35, 100759.	2.0	28
18	Case Study of the Largest Concrete Earth Pressure Balance Pipe-Jacking Project in the World. <i>Transportation Research Record</i> , 2022, 2676, 92-105.	1.0	22

#	ARTICLE	IF	CITATIONS
19	A review on Graphene/GNPs/GO modified asphalt. <i>Construction and Building Materials</i> , 2022, 330, 127222.	3.2	25
20	A state-of-the-art review of crushed urban waste glass used in OPC and AAMs (geopolymer): Progress and challenges. <i>Cleaner Materials</i> , 2022, 4, 100083.	1.9	45
21	Determining pavement structural number with traffic speed deflectometer measurements. <i>Transportation Geotechnics</i> , 2022, 35, 100774.	2.0	8
22	Influence of mobilized RAP content on the effective binder quality and performance of 100% hot in-place recycled asphalt mixtures. <i>Construction and Building Materials</i> , 2022, 342, 127941.	3.2	18
23	Moisture damage mechanism and material selection of HMA with amine antistripping agent. <i>Materials and Design</i> , 2022, 220, 110797.	3.3	28
24	Alkali-activated slag (AAS) and OPC-based composites containing crumb rubber aggregate: Physico-mechanical properties, durability and oxidation of rubber upon NaOH treatment. <i>Journal of Cleaner Production</i> , 2022, 367, 132896.	4.6	24
25	Neural networks for fatigue cracking prediction using outputs from pavement mechanistic-empirical design. <i>International Journal of Pavement Engineering</i> , 2021, 22, 162-172.	2.2	27
26	Compatibility and rheological characterization of asphalt modified with recycled rubber-plastic blends. <i>Construction and Building Materials</i> , 2021, 270, 121416.	3.2	69
27	Mix design optimization and early strength prediction of unary and binary geopolymer from multiple waste streams. <i>Journal of Hazardous Materials</i> , 2021, 403, 123632.	6.5	22
28	Evaluation of influence of pavement data on measurement of deflection on asphalt surfaced pavements utilizing traffic speed deflection device. <i>Construction and Building Materials</i> , 2021, 270, 121842.	3.2	8
29	Alkali-activated slag supplemented with waste glass powder: Laboratory characterization, thermodynamic modelling and sustainability analysis. <i>Journal of Cleaner Production</i> , 2021, 286, 125554.	4.6	56
30	A phase linearisation-based modulation signal bispectrum for analysing cyclostationary bearing signals. <i>Structural Health Monitoring</i> , 2021, 20, 1231-1246.	4.3	12
31	Evaluation of Network-Level Data Collection Variability and its Influence on Pavement Evaluation Utilizing Random Forest Method. <i>Transportation Research Record</i> , 2021, 2675, 331-345.	1.0	6
32	Influence of Aggregate Gradation on the Compactability of Asphalt Mixtures Utilizing Locking Point. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	6
33	Cementless controlled low-strength material (CLSM) based on waste glass powder and hydrated lime: Synthesis, characterization and thermodynamic simulation. <i>Construction and Building Materials</i> , 2021, 275, 122157.	3.2	47
34	Laboratory Investigation of Fog-Seal Treatment on Performance of Open-Graded Friction Course Pavement. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	7
35	Characterization of aggregate interlocking in hot mix asphalt by mechanistic performance tests. <i>Road Materials and Pavement Design</i> , 2021, 22, S498-S513.	2.0	46
36	Environmental impact assessment of pavement road bases with reuse and recycling strategies: A comparative study on geopolymer stabilized macadam and conventional alternatives. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 93, 102749.	3.2	17

#	ARTICLE	IF	CITATIONS
37	Discussion of "Design Process of Asphalt Mixture Incorporating Compaction-Effort Variable" by Yining Zhang, Lijun Sun, and Dong Luo. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	1
38	Effect of granulated phosphorus slag on physical, mechanical and microstructural characteristics of Class F fly ash based geopolymer. <i>Construction and Building Materials</i> , 2021, 291, 123287.	3.2	38
39	Biodegradation of waste asphalt shingle by white rot fungi. <i>Journal of Cleaner Production</i> , 2021, 310, 127448.	4.6	6
40	Improving asphalt pavement intelligent compaction based on differentiated compaction curves. <i>Construction and Building Materials</i> , 2021, 301, 124125.	3.2	11
41	Quantifying the effective mobilized RAP content during hot in-place recycling techniques. <i>Journal of Cleaner Production</i> , 2021, 314, 127953.	4.6	31
42	An investigation of structural responses of inverted pavements by numerical approaches considering nonlinear stress-dependent properties of unbound aggregate layer. <i>Construction and Building Materials</i> , 2021, 303, 124505.	3.2	22
43	Quantification of impact compaction locking point for asphalt mixture. <i>Construction and Building Materials</i> , 2021, 302, 124410.	3.2	8
44	Field performance evaluation of open-graded asphalt friction courses: A survival data analysis. <i>Construction and Building Materials</i> , 2021, 306, 124745.	3.2	3
45	Experimental and Thermodynamic Study of Alkali-Activated Waste Glass and Calcium Sulfoaluminate Cement Blends: Shrinkage, Efflorescence Potential, and Phase Assemblages. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	39
46	Potential Alternative to Styrene-Butadiene-Styrene for Asphalt Modification Using Recycled Rubber-Plastic Blends. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	33
47	Discussion of "Two-Step Mixing Process Elaboration of the Hot-Mix Asphalt Mixture Based on Surface Energy Theory" by Liping Liu, Mingchen Li, and Qingbing Lu. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, 07021016.	1.3	0
48	The utilization of waste plastics in asphalt pavements: A review. <i>Cleaner Materials</i> , 2021, 2, 100031.	1.9	56
49	Evaluation of Glass Powder-Based Geopolymer Stabilized Road Bases Containing Recycled Waste Glass Aggregate. <i>Transportation Research Record</i> , 2020, 2674, 22-32.	1.0	124
50	Strength, microstructure, efflorescence behavior and environmental impacts of waste glass geopolymers cured at ambient temperature. <i>Journal of Cleaner Production</i> , 2020, 252, 119610.	4.6	225
51	Novel Procedure for Accurately Characterizing Nonlinear Viscoelastic and Irrecoverable Behaviors of Asphalt Binders. <i>International Journal of Geomechanics</i> , 2020, 20, .	1.3	7
52	The "Golden Hour" and field triage pattern for road trauma patients. <i>Journal of Safety Research</i> , 2020, 75, 57-66.	1.7	9
53	Influence of waste glass powder on the physico-mechanical properties and microstructures of fly ash-based geopolymer paste after exposure to high temperatures. <i>Construction and Building Materials</i> , 2020, 262, 120579.	3.2	94
54	Performance evaluation of temperature effect on hot in-place recycling asphalt mixtures. <i>Journal of Cleaner Production</i> , 2020, 277, 124093.	4.6	47

#	ARTICLE	IF	CITATIONS
55	Analytical investigation of phase assemblages of alkali-activated materials in CaO-SiO ₂ -Al ₂ O ₃ systems: The management of reaction products and designing of precursors. <i>Materials and Design</i> , 2020, 194, 108975.	3.3	91
56	Analysis of critical factors to asphalt overlay performance using gradient boosted models. <i>Construction and Building Materials</i> , 2020, 262, 120083.	3.2	23
57	Laboratory Investigation of Critical Factors Affecting Geogrid Reinforcement on Aggregate Base Using Loaded Wheel Tester. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2020, 146, .	0.8	2
58	Improved estimation of dynamic modulus for hot mix asphalt using deep learning. <i>Construction and Building Materials</i> , 2020, 263, 119912.	3.2	26
59	Effect of particle size and curing temperature on mechanical and microstructural properties of waste glass-slag-based and waste glass-fly ash-based geopolymers. <i>Journal of Cleaner Production</i> , 2020, 273, 122970.	4.6	84
60	Accelerated Pavement Testing to Evaluate the Reinforcement Effect of Geogrids in Flexible Pavements. <i>Transportation Research Record</i> , 2020, 2674, 134-145.	1.0	6
61	Evaluating Recycling Efficiency of Plant-Asphalt Mixtures Containing RAP/RAS. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	11
62	A laboratory investigation of steel to fly ash-based geopolymer paste bonding behavior after exposure to elevated temperatures. <i>Construction and Building Materials</i> , 2020, 254, 119267.	3.2	151
63	A comparative study on geopolymers synthesized by different classes of fly ash after exposure to elevated temperatures. <i>Journal of Cleaner Production</i> , 2020, 270, 122500.	4.6	123
64	Visualization and quantification of lab vibratory compacting process for aggregate base materials using accelerometer. <i>Transportation Geotechnics</i> , 2020, 25, 100393.	2.0	6
65	Discussion of "Experimental Investigation of Response of Different Granular Soil-3D Geogrid Interfaces Using Large-Scale Direct Shear Tests" by Femy M. Makkar, S. Chandrakaran, and N. Sankar. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, 07020003.	1.3	0
66	Model Based IAS Analysis for Fault Detection and Diagnosis of IC Engine Powertrains. <i>Energies</i> , 2020, 13, 565.	1.6	8
67	Civil Engineering Materials for Climate Adaptation and Sustainability. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, 02020001.	1.3	0
68	Online Bearing Clearance Monitoring Based on an Accurate Vibration Analysis. <i>Energies</i> , 2020, 13, 389.	1.6	25
69	Influence of moisture content on intelligent soil compaction. <i>Automation in Construction</i> , 2020, 113, 103141.	4.8	30
70	Experimental investigation of utilizing waste flue gas desulfurized gypsum as backfill materials. <i>Construction and Building Materials</i> , 2020, 245, 118393.	3.2	44
71	Removal of ciprofloxacin as an emerging pollutant: A novel application for bauxite residue reuse. <i>Journal of Cleaner Production</i> , 2020, 253, 120049.	4.6	28
72	Discussion of "Optimum Mixing Ratio and Shear Strength of Granulated Rubber-Fly Ash Mixtures" by Bhargav Kumar Karnam Prabhakara, Prashant Vyankatesh Guda, and Umashankar Balunaini. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, 07020004.	1.3	1

#	ARTICLE	IF	CITATIONS
73	Rheological and aging characteristics of the recycled asphalt binders with different rejuvenator incorporation methods. <i>Journal of Cleaner Production</i> , 2020, 262, 121249.	4.6	73
74	Smart Paving and Infrastructure Materials for Longer Service Life. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, 02020002.	1.3	0
75	Estimating Asphalt Concrete Modulus of Existing Flexible Pavements for Mechanistic-Empirical Rehabilitation Analyses. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	13
76	Utilizing recycled asphalt shingle into pavement by extraction method. <i>Journal of Cleaner Production</i> , 2019, 236, 117656.	4.6	12
77	Utilization of State Performance Indices to Correlate National Performance Measures for Asphalt Pavements in Tennessee. <i>Transportation Research Record</i> , 2019, 2673, 379-388.	1.0	6
78	New Method for Detecting Oil Contaminants in Asphalt Mixtures through Chemical Testing. <i>Transportation Research Record</i> , 2019, 2673, 389-395.	1.0	1
79	Investigation into Locking Point of Asphalt Mixtures Utilizing Superpave and Marshall Compactors. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	39
80	Investigating key factors of intelligent compaction for asphalt paving: A comparative case study. <i>Construction and Building Materials</i> , 2019, 229, 116876.	3.2	29
81	Investigation of the strength development of cast-in-place geopolymer piles with heating systems. <i>Journal of Cleaner Production</i> , 2019, 215, 1481-1489.	4.6	27
82	Preparation and Properties of Jute Fiber Long-Chain Fatty Acid Esters in Supercritical Carbon Dioxide. <i>Materials</i> , 2019, 12, 1499.	1.3	5
83	Sustainability innovations in transportation infrastructure: An overview of the special volume on sustainable road paving. <i>Journal of Cleaner Production</i> , 2019, 235, 369-377.	4.6	24
84	Gradient Boosted Models for Enhancing Fatigue Cracking Prediction in Mechanistic-Empirical Pavement Design Guide. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2019, 145, 04019014.	0.8	32
85	Improving Damping Properties of Railway Ballast by Addition of Tire-Derived Aggregate. <i>Transportation Research Record</i> , 2019, 2673, 299-307.	1.0	22
86	Comparative Evaluation of Compacting Process for Base Materials using Lab Compaction Methods. <i>Transportation Research Record</i> , 2019, 2673, 558-567.	1.0	9
87	Influence of aggregates angularity on the locking point of asphalt mixtures. <i>Road Materials and Pavement Design</i> , 2019, 20, S183-S195.	2.0	26
88	Synergistic utilization of red mud for flue-gas desulfurization and fly ash-based geopolymer preparation. <i>Journal of Hazardous Materials</i> , 2019, 369, 503-511.	6.5	119
89	Investigating impacts of asphalt mixture properties on pavement performance using LTPP data through random forests. <i>Construction and Building Materials</i> , 2019, 204, 203-212.	3.2	59
90	Interaction between Railroad Ballast and Sleeper: A DEM-FEM Approach. <i>International Journal of Geomechanics</i> , 2019, 19, .	1.3	28

#	ARTICLE	IF	CITATIONS
91	Quantifying the effects of geogrid reinforcement in unbound granular base. <i>Geotextiles and Geomembranes</i> , 2019, 47, 369-376.	2.3	32
92	Direct shear properties of railway ballast mixed with tire derived aggregates: Experimental and numerical investigations. <i>Construction and Building Materials</i> , 2019, 200, 465-473.	3.2	54
93	Contributions of condition measurements on the latent pavement condition by confirmatory factor analysis. <i>Transportmetrica A: Transport Science</i> , 2019, 15, 2-17.	1.3	7
94	Influence of Measurement Variability of International Roughness Index on Uncertainty of Network-Level Pavement Evaluation. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2018, 144, 04018007.	0.8	13
95	Geostatistical analysis of intelligent compaction measurements for asphalt pavement compaction. <i>Automation in Construction</i> , 2018, 89, 162-169.	4.8	35
96	Energy consumption and environmental impact of rubberized asphalt pavement. <i>Journal of Cleaner Production</i> , 2018, 180, 139-158.	4.6	226
97	Assessment of compaction quality of multi-layer pavement structure based on intelligent compaction technology. <i>Construction and Building Materials</i> , 2018, 161, 316-329.	3.2	66
98	Investigation of functional group distribution of asphalt using liquid chromatography transform and prediction of molecular model. <i>Fuel</i> , 2018, 227, 300-306.	3.4	29
99	Influence of warm-mix asphalt technology and rejuvenator on performance of asphalt mixtures containing 50% reclaimed asphalt pavement. <i>Journal of Cleaner Production</i> , 2018, 192, 191-198.	4.6	148
100	Effects of distance and rescue time to medical facilities on traffic mortality utilizing GIS. <i>International Journal of Injury Control and Safety Promotion</i> , 2018, 25, 329-335.	1.0	7
101	Development in innovative characterization, modeling and simulation of pavements and materials. <i>International Journal of Pavement Engineering</i> , 2018, 19, 379-380.	2.2	1
102	Mechanical and microstructural characterization of geopolymers derived from red mud and fly ashes. <i>Journal of Cleaner Production</i> , 2018, 186, 799-806.	4.6	180
103	Laboratory investigation of particle size effects on the shear behavior of aggregate-geogrid interface. <i>Construction and Building Materials</i> , 2018, 158, 1015-1025.	3.2	54
104	An examination of compaction meter value for asphalt pavement compaction evaluation. <i>International Journal of Pavement Engineering</i> , 2018, 19, 447-455.	2.2	21
105	Use of water reducer to enhance the mechanical and durability properties of cement-treated soil. <i>Construction and Building Materials</i> , 2018, 159, 690-694.	3.2	31
106	Improving accuracy of rutting prediction for mechanistic-empirical pavement design guide with deep neural networks. <i>Construction and Building Materials</i> , 2018, 190, 710-718.	3.2	77
107	Analysis of the Influence of Materials and Construction Practices on Slurry Seal Performance Using LTPP Data. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2018, 144, 04018046.	0.8	12
108	Resilient Interface Shear Modulus for Characterizing Shear Properties of Pavement Base Materials. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, 04018333.	1.3	7

#	ARTICLE	IF	CITATIONS
109	Mechanical property and microstructure characteristics of geopolymer stabilized aggregate base. <i>Construction and Building Materials</i> , 2018, 191, 1120-1127.	3.2	64
110	Modeling Shear Viscosity of Asphalt through Nonequilibrium Molecular Dynamics Simulation. <i>Transportation Research Record</i> , 2018, 2672, 235-243.	1.0	12
111	Use of random forests regression for predicting IRI of asphalt pavements. <i>Construction and Building Materials</i> , 2018, 189, 890-897.	3.2	169
112	Closure to "Influence of Interface Characteristics on the Shear Performance between Open-Graded Friction Course and Underlying Layer" by Weimin Song, Xiang Shu, Baoshan Huang, and Mark Woods. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	1
113	Access to trauma centers for road crashes in the United States. <i>Journal of Safety Research</i> , 2018, 65, 21-27.	1.7	7
114	Effects of Asphalt Mixture Type on Asphalt Pavement Interlayer Shear Properties. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2018, 144, 04018021.	0.8	23
115	Field performance evaluation of asphalt mixtures containing high percentage of RAP using LTPP data. <i>Construction and Building Materials</i> , 2018, 176, 118-128.	3.2	48
116	Evaluation of the hot mix asphalt compactability utilizing the impact compaction method. <i>Construction and Building Materials</i> , 2018, 187, 131-137.	3.2	35
117	Blending efficiency evaluation of plant asphalt mixtures using fluorescence microscopy. <i>Construction and Building Materials</i> , 2018, 161, 461-467.	3.2	70
118	Case study: performance effectiveness and cost-benefit analyses of open-graded friction course pavements in Tennessee. <i>International Journal of Pavement Engineering</i> , 2017, 18, 957-970.	2.2	27
119	A study of factors affecting intersection crash frequencies using random-parameter multivariate zero-inflated models. <i>International Journal of Injury Control and Safety Promotion</i> , 2017, 24, 208-221.	1.0	14
120	Optimal Thresholds for Pavement Preventive Maintenance Treatments Using LTPP Data. <i>Journal of Transportation Engineering Part A: Systems</i> , 2017, 143, .	0.8	37
121	Special Issue on Innovation on Paving Materials. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	1.3	2
122	Field investigation of intelligent compaction for hot mix asphalt resurfacing. <i>Frontiers of Structural and Civil Engineering</i> , 2017, 11, 47-55.	1.2	18
123	Laboratory and Field Study of Electroosmosis Dewatering for Pavement Subgrade Soil. <i>Journal of Cold Regions Engineering - ASCE</i> , 2017, 31, .	0.5	10
124	Local calibration of the fatigue cracking models in the Mechanistic-Empirical Pavement Design Guide for Tennessee. <i>Road Materials and Pavement Design</i> , 2017, 18, 130-138.	2.0	19
125	Three-Dimensional Micromechanical Complex-Modulus Prediction of Asphalt Concrete Considering the Aggregate Interlocking Effect. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	1.3	20
126	Influence of Interface Characteristics on the Shear Performance between Open-Graded Friction Course and Underlying Layer. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	1.3	29

#	ARTICLE	IF	CITATIONS
127	Estimating Factors Contributing to Frequency and Severity of Large Truck-Involved Crashes. Journal of Transportation Engineering Part A: Systems, 2017, 143, .	0.8	35
128	Evaluation of compactability of asphalt mixture utilizing asphalt vibratory compactor. Construction and Building Materials, 2017, 139, 419-429.	3.2	31
129	Utilizing Fluorescence Microscopy for Quantifying Mobilization Rate of Aged Asphalt Binder. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	29
130	Advances in Pavement materials, design, characterisation, and simulation. Road Materials and Pavement Design, 2017, 18, 1-11.	2.0	29
131	Pressure Distribution under Steel and Timber Crossties in Railway Tracks. Journal of Transportation Engineering Part A: Systems, 2017, 143, .	0.8	10
132	Correlations between road crash mortality rate and distance to trauma centers. Journal of Transport and Health, 2017, 6, 50-59.	1.1	6
133	Recommendations on Intelligent Compaction Parameters for Asphalt Resurfacing Quality Evaluation. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	22
134	Utilising intelligent compaction meter values to evaluate construction quality of asphalt pavement layers. Road Materials and Pavement Design, 2017, 18, 980-991.	2.0	46
135	Characterization of Triaxial Stress State Linear Viscoelastic Behavior of Asphalt Concrete. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	16
136	Analyzing Traffic Crash Severity in Work Zones under Different Light Conditions. Journal of Advanced Transportation, 2017, 2017, 1-10.	0.9	17
137	Analyzing injury crashes using random-parameter bivariate regression models. Transportmetrica A: Transport Science, 2016, 12, 794-810.	1.3	21
138	Utilization of solid wastes/byproducts from paper mills in Controlled Low Strength Material (CLSM). Construction and Building Materials, 2016, 118, 155-163.	3.2	61
139	Development of distress condition index of asphalt pavements using LTPP data through structural equation modeling. Transportation Research Part C: Emerging Technologies, 2016, 68, 58-69.	3.9	78
140	Strength properties of geopolymers derived from original and desulfurized red mud cured at ambient temperature. Construction and Building Materials, 2016, 125, 905-911.	3.2	106
141	Characterizing blending efficiency of plant produced asphalt paving mixtures containing high RAP. Construction and Building Materials, 2016, 126, 172-178.	3.2	52
142	Characterizing rheological behavior of asphalt binder over a complete range of pavement service loading frequency and temperature. Construction and Building Materials, 2016, 123, 661-672.	3.2	37
143	Laboratory investigation of interlayer shear fatigue performance between open-graded friction course and underlying layer. Construction and Building Materials, 2016, 115, 381-389.	3.2	41
144	Effectiveness Analyses of Flexible Pavement Preventive Maintenance Treatments with LTPP SPS-3 Experiment Data. Journal of Transportation Engineering, 2016, 142, .	0.9	37

#	ARTICLE	IF	CITATIONS
145	Use of molecular dynamics to investigate diffusion between virgin and aged asphalt binders. Fuel, 2016, 174, 267-273.	3.4	165
146	Influence of Pavement Condition Data Variability on Network-Level Maintenance Decision. Transportation Research Record, 2016, 2589, 20-31.	1.0	11
147	Comparative investigation into field performance of steel bridge deck asphalt overlay systems. KSCE Journal of Civil Engineering, 2016, 20, 2755-2764.	0.9	31
148	Quantitative evaluation of blending and diffusion in high RAP and RAS mixtures. Materials and Design, 2016, 89, 1161-1170.	3.3	95
149	Effects of WMA Technologies on Asphalt Binder Blending. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	20
150	Failure Probability of Resurfaced Preventive Maintenance Treatments. Transportation Research Record, 2015, 2481, 65-74.	1.0	33
151	Utilization of Construction and Demolition Wastes in Low-Volume Roads for Rural Areas in China. Transportation Research Record, 2015, 2474, 39-47.	1.0	21
152	Sample Size and Precision for Pavement Inspection in a Maintenance Quality Assurance Program. , 2015, , .		0
153	Investigation of Sequential Dissolution of Asphalt Binder in Common Solvents by FTIR and Binder Fractionation. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	11
154	A unified procedure for rapidly determining asphalt concrete discrete relaxation and retardation spectra. Construction and Building Materials, 2015, 93, 35-48.	3.2	50
155	Statistical Analyses of Field Serviceability of Throw-and-Roll Pothole Patches. Journal of Transportation Engineering, 2015, 141, .	0.9	25
156	Exploring Piecewise Linear Effects of Crash Contributing Factors with a Novel Poisson-Mixed Multivariate Adaptive Regression Splines Model. Transportation Research Record, 2015, 2515, 17-25.	1.0	3
157	Factors affecting shear strength between open-graded friction course and underlying layer. Construction and Building Materials, 2015, 101, 527-535.	3.2	39
158	Quantitative Characterization of Binder Blending. Transportation Research Record, 2015, 2506, 72-80.	1.0	63
159	Calibration and Application of Treatment Performance Models in a Pavement Management System in Tennessee. Journal of Transportation Engineering, 2015, 141, .	0.9	23
160	Evaluation of geogrid reinforcement effects on unbound granular pavement base courses using loaded wheel tester. Geotextiles and Geomembranes, 2015, 43, 462-469.	2.3	31
161	Soil Resilient Modulus Regressed from Physical Properties and Influence of Seasonal Variation on Asphalt Pavement Performance. Journal of Transportation Engineering, 2015, 141, .	0.9	19
162	Numerical simulation of fly ash concrete under sulfate attack. Construction and Building Materials, 2015, 84, 261-268.	3.2	47

#	ARTICLE	IF	CITATIONS
163	Investigation on binder homogeneity of RAP/RAS mixtures through staged extraction. Construction and Building Materials, 2015, 82, 184-191.	3.2	33
164	Influence of Waste Engine Oil on Asphalt Mixtures Containing Reclaimed Asphalt Pavement. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	64
165	DEM Simulation of Laboratory Compaction of Asphalt Mixtures Using an Open Source Code. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	44
166	Characterization of asphalt concrete linear viscoelastic behavior utilizing Havriliakâ€™Negami complex modulus model. Construction and Building Materials, 2015, 99, 226-234.	3.2	48
167	Investigation on the microstructure of recycled asphalt shingle binder and its blending with virgin bitumen. Road Materials and Pavement Design, 2015, 16, 21-38.	2.0	37
168	Effects of asphalt emulsion on properties of fresh cement emulsified asphalt mortar. Construction and Building Materials, 2015, 75, 25-30.	3.2	98
169	Hybrid effects of carbon fibers on mechanical properties of Portland cement mortar. Materials & Design, 2015, 65, 1222-1228.	5.1	74
170	Identifying the factors contributing to the severity of truck-involved crashes. International Journal of Injury Control and Safety Promotion, 2015, 22, 116-126.	1.0	59
171	Laboratory characterization of controlled low-strength materials. Materials & Design, 2015, 65, 806-813.	5.1	25
172	Field and laboratory evaluation of winter season pavement pothole patching materials. International Journal of Pavement Engineering, 2014, 15, 279-289.	2.2	50
173	Investigation of Tack Coat Failure in Orthotropic Steel Bridge Deck Overlay. Transportation Research Record, 2014, 2444, 28-37.	1.0	20
174	Chemical, Mechanical, and Durability Properties of Concrete with Local Mineral Admixtures under Sulfate Environment in Northwest China. Materials, 2014, 7, 3772-3785.	1.3	48
175	Establishment of Performance Models and Effectiveness Evaluation of Pavement Maintenance Treatments at Different Traffic Levels. , 2014, , .		1
176	Use of Finite Element Analysis and Fatigue Failure Model to Estimate Costs of Pavement Damage Caused by Heavy Vehicles. Transportation Research Record, 2014, 2455, 54-62.	1.0	12
177	Laboratory Evaluation of Utilizing Waste Heavy Clay and Foundry Sand Blends as Construction Materials. Journal of Materials in Civil Engineering, 2014, 26, 04014065.	1.3	8
178	Evaluation of Influence Factors on Crack Initiation of LTPP Resurfaced-Asphalt Pavements Using Parametric Survival Analysis. Journal of Performance of Constructed Facilities, 2014, 28, 412-421.	1.0	61
179	Characterizing Rheological Properties of Binder and Blending Efficiency of Asphalt Paving Mixtures Containing RAS through GPC. Journal of Materials in Civil Engineering, 2014, 26, 941-946.	1.3	69
180	Recycling of waste tire rubber in asphalt and portland cement concrete: An overview. Construction and Building Materials, 2014, 67, 217-224.	3.2	469

#	ARTICLE	IF	CITATIONS
181	Investigation of Reclaimed Asphalt Pavement blending efficiency through GPC and FTIR. Construction and Building Materials, 2014, 50, 517-523.	3.2	201
182	Differences in passenger car and large truck involved crash frequencies at urban signalized intersections: An exploratory analysis. Accident Analysis and Prevention, 2014, 62, 87-94.	3.0	47
183	Predicting concrete coefficient of thermal expansion with an improved micromechanical model. Construction and Building Materials, 2014, 68, 10-16.	3.2	34
184	Blending efficiency of Reclaimed Asphalt Pavement: An approach utilizing rheological properties and molecular weight distributions. Fuel, 2014, 135, 63-68.	3.4	75
185	Refining laboratory procedure for artificial RAP: A comparative study. Construction and Building Materials, 2014, 52, 385-390.	3.2	38
186	Laboratory Evaluation on Resilient Modulus and Rate Dependencies of RAP Used as Unbound Base Material. Journal of Materials in Civil Engineering, 2014, 26, 379-383.	1.3	52
187	Multivariate random-parameters zero-inflated negative binomial regression model: An application to estimate crash frequencies at intersections. Accident Analysis and Prevention, 2014, 70, 320-329.	3.0	140
188	Laboratory investigation into mechanical properties of cement emulsified asphalt mortar. Construction and Building Materials, 2014, 65, 76-83.	3.2	128
189	Utilizing bio-char as a bio-modifier for asphalt cement: A sustainable application of bio-fuel by-product. Fuel, 2014, 133, 52-62.	3.4	90
190	Infrared spectra and rheological properties of asphalt cement containing waste engine oil residues. Construction and Building Materials, 2014, 50, 683-691.	3.2	148
191	Characterizing Fatigue Behavior of Asphalt Mixtures Utilizing Loaded Wheel Tester. Journal of Materials in Civil Engineering, 2014, 26, 152-159.	1.3	23
192	Investigation on Service Time and Effective Cost of Typical Pothole Patches in Tennessee. , 2014, , .		5
193	Long-Term Cost-Effectiveness of Asphalt Pavement Pothole Patching Methods. Transportation Research Record, 2014, 2431, 49-56.	1.0	23
194	Laboratory Investigation of Biochar-Modified Asphalt Mixture. Transportation Research Record, 2014, 2445, 56-63.	1.0	60
195	Laboratory Evaluation of Asphalt Cement and Mixture Modified by Bio-Char Produced through Fast Pyrolysis. , 2014, , .		5
196	Using notched semi circular bending fatigue test to characterize fracture resistance of asphalt mixtures. Engineering Fracture Mechanics, 2013, 109, 78-88.	2.0	90
197	Laboratory evaluation of tensile strength and energy absorbing properties of cement mortar reinforced with micro- and meso-sized carbon fibers. Construction and Building Materials, 2013, 44, 751-756.	3.2	59
198	Validating MEPDG with Tennessee Pavement Performance Data. Journal of Transportation Engineering, 2013, 139, 306-312.	0.9	17

#	ARTICLE	IF	CITATIONS
199	Rubber modified concrete improved by chemically active coating and silane coupling agent. <i>Construction and Building Materials</i> , 2013, 48, 116-123.	3.2	192
200	Air-Void Distribution Analysis of Asphalt Mixture Using Discrete Element Method. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1375-1385.	1.3	84
201	Comparative evaluation of warm mix asphalt containing high percentages of reclaimed asphalt pavement. <i>Construction and Building Materials</i> , 2013, 44, 92-100.	3.2	153
202	Special Issue on Materials Innovations for Sustainable Infrastructure. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 825-828.	1.3	7
203	Two-Vehicle Injury Severity Models Based on Integration of Pavement Management and Traffic Engineering Factors. <i>Traffic Injury Prevention</i> , 2013, 14, 544-553.	0.6	16
204	Investigating the influence of curbs on single-vehicle crash injury severity utilizing zero-inflated ordered probit models. <i>Accident Analysis and Prevention</i> , 2013, 57, 55-66.	3.0	43
205	Fractal analysis of effect of air void on freeze-thaw resistance of concrete. <i>Construction and Building Materials</i> , 2013, 47, 126-130.	3.2	120
206	A two-staged surface treatment to improve properties of rubber modified cement composites. <i>Construction and Building Materials</i> , 2013, 40, 270-274.	3.2	133
207	A 3D Direct Vehicle-Pavement Coupling Dynamic Model and Its Application on Analysis of Asphalt Pavement Dynamic Response. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-8.	0.6	5
208	Investigation into Laboratory Abrasion Test Methods for Pervious Concrete. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 886-892.	1.3	74
209	New Method for Detecting Asphalt Contamination within Fine Aggregate Medium through Chemical Testing. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 252-256.	1.3	15
210	Fractional Characteristics of Coal Fly Ash for Beneficial Use. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 63-69.	1.3	12
211	Micromechanical Model for Predicting Coefficient of Thermal Expansion of Concrete. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1171-1180.	1.3	36
212	Neutron Scattering for Moisture Detection in Foamed Asphalt. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 932-938.	1.3	32
213	Estimating Safety Effects of Pavement Management Factors Utilizing Bayesian Random Effect Models. <i>Traffic Injury Prevention</i> , 2013, 14, 766-775.	0.6	6
214	Cost-Effectiveness Analyses of Maintenance Treatments for Low- and Moderate-Traffic Asphalt Pavements in Tennessee. <i>Journal of Transportation Engineering</i> , 2013, 139, 797-803.	0.9	37
215	Analyzing Influence Factors of Transverse Cracking on LTPP Resurfaced Asphalt Pavements through NB and ZINB Models. <i>Journal of Transportation Engineering</i> , 2013, 139, 889-895.	0.9	24
216	Evaluation of Effectiveness and Cost-Effectiveness of Asphalt Pavement Rehabilitations Utilizing LTPP Data. <i>Journal of Transportation Engineering</i> , 2012, 138, 681-689.	0.9	59

#	ARTICLE	IF	CITATIONS
217	Characterizing viscoelastic properties of asphalt mixtures utilizing loaded wheel tester (LWT). Road Materials and Pavement Design, 2012, 13, 38-55.	2.0	17
218	Application of discrete element method to Superpave gyratory compaction. Road Materials and Pavement Design, 2012, 13, 480-500.	2.0	47
219	Laboratory Performance Evaluation of Warm-Mix Asphalt Containing High Percentages of Reclaimed Asphalt Pavement. Transportation Research Record, 2012, 2294, 98-105.	1.0	119
220	Laboratory evaluation of moisture susceptibility of foamed warm mix asphalt containing high percentages of RAP. Construction and Building Materials, 2012, 35, 125-130.	3.2	174
221	Special Issue on Energy-Efficient and Environmentally Friendly Paving Materials. Journal of Materials in Civil Engineering, 2011, 23, 1489-1489.	1.3	7
222	Performance comparison of laboratory and field produced pervious concrete mixtures. Construction and Building Materials, 2011, 25, 3187-3192.	3.2	126
223	Influence of Curbs on Traffic Crash Frequency on High-Speed Roadways. Traffic Injury Prevention, 2011, 12, 412-421.	0.6	17
224	Laboratory Evaluation of Abrasion Resistance of Portland Cement Pervious Concrete. Journal of Materials in Civil Engineering, 2011, 23, 697-702.	1.3	89
225	Laboratory Investigation of Cracking Resistance of Hot-Mix Asphalt Field Mixtures Containing Screened Reclaimed Asphalt Pavement. Journal of Materials in Civil Engineering, 2011, 23, 1535-1543.	1.3	119
226	Cost-Effectiveness Evaluation of Pavement Maintenance Treatments by OPTime. , 2010, , .		7
227	Investigating effects of asphalt pavement conditions on traffic accidents in Tennessee based on the pavement management system (PMS). Journal of Advanced Transportation, 2010, 44, 150-161.	0.9	92
228	Laboratory evaluation of permeability and strength of polymer-modified pervious concrete. Construction and Building Materials, 2010, 24, 818-823.	3.2	326
229	Evaluation of Longitudinal Joint Construction Techniques for Asphalt Pavements in Tennessee. Journal of Materials in Civil Engineering, 2010, 22, 1112-1121.	1.3	11
230	Evaluation of Cracking Resistance of Recycled Asphalt Mixture Using Semi-Circular Bending Test. , 2010, , .		25
231	Laboratory Evaluation of Effects of Joint Heater on Longitudinal Joint. , 2010, , .		0
232	Evaluation of Micromechanical Models for Predicting Dynamic Modulus of Asphalt Mixtures. , 2010, , .		0
233	Laboratory Evaluation of Moisture Susceptibility of Hot-Mix Asphalt Containing Cementitious Fillers. Journal of Materials in Civil Engineering, 2010, 22, 667-673.	1.3	79
234	Effects of Electrically Conductive Additives on Laboratory-Measured Properties of Asphalt Mixtures. Journal of Materials in Civil Engineering, 2009, 21, 612-617.	1.3	57

#	ARTICLE	IF	CITATIONS
235	Laboratory evaluation of incorporating waste ceramic materials into Portland cement and asphaltic concrete. <i>Construction and Building Materials</i> , 2009, 23, 3451-3456.	3.2	110
236	Effects of coarse aggregate angularity and asphalt binder on laboratory-measured permanent deformation properties of HMA. <i>International Journal of Pavement Engineering</i> , 2009, 10, 19-28.	2.2	51
237	Relationship Between Highway Pavement Condition, Crash Frequency, and Crash Type. <i>Journal of Transportation Safety and Security</i> , 2009, 1, 268-281.	1.1	13
238	Predicting Dynamic Modulus of Asphalt Mixtures with Differential Method. <i>Road Materials and Pavement Design</i> , 2009, 10, 337-359.	2.0	56
239	Correlating APA to Field Permanent Deformation for HMA Mixes at the NCAT Test Track. , 2009, , .		0
240	Micromechanics-based dynamic modulus prediction of polymeric asphalt concrete mixtures. <i>Composites Part B: Engineering</i> , 2008, 39, 704-713.	5.9	87
241	Laboratory evaluation of fatigue characteristics of recycled asphalt mixture. <i>Construction and Building Materials</i> , 2008, 22, 1323-1330.	3.2	231
242	Evaluation of moisture damage in hot mix asphalt using simple performance and superpave indirect tensile tests. <i>Construction and Building Materials</i> , 2008, 22, 1950-1962.	3.2	99
243	Dynamic Modulus Prediction of HMA Mixtures Based on the Viscoelastic Micromechanical Model. <i>Journal of Materials in Civil Engineering</i> , 2008, 20, 530-538.	1.3	80
244	Investigation of Simple Performance Characteristics of Plant-Produced Asphalt Mixtures in Tennessee. <i>Transportation Research Record</i> , 2008, 2057, 140-148.	1.0	14
245	Evaluation of Tennessee HMA Mixtures Using Simple Performance Tests. , 2008, , .		0
246	Comparison Between Flat Rubber Wheeled Loaded Wheel Tester and Asphalt Pavement Analyzer. <i>Road Materials and Pavement Design</i> , 2007, 8, 595-604.	2.0	26
247	Analytical Modeling of Three-Layered HMA Mixtures. <i>International Journal of Geomechanics</i> , 2007, 7, 140-148.	1.3	40
248	Effects of mineral fillers on hot-mix asphalt laboratory-measured properties. <i>International Journal of Pavement Engineering</i> , 2007, 8, 1-9.	2.2	101
249	Comparison Between Flat Rubber Wheeled Loaded Wheel Tester and Asphalt Pavement Analyzer. <i>Road Materials and Pavement Design</i> , 2007, 8, 595-604.	2.0	4
250	Uniaxial Penetration Testing for Shear Resistance of Hot-Mix Asphalt Mixtures. <i>Transportation Research Record</i> , 2006, 1970, 116-125.	1.0	27
251	Mechanical properties of concrete containing recycled asphalt pavements. <i>Magazine of Concrete Research</i> , 2006, 58, 313-320.	0.9	144
252	Investigation into three-layered HMA mixtures. <i>Composites Part B: Engineering</i> , 2006, 37, 679-690.	5.9	39

#	ARTICLE	IF	CITATIONS
253	Laboratory investigation of portland cement concrete containing recycled asphalt pavements. Cement and Concrete Research, 2005, 35, 2008-2013.	4.6	212
254	Laboratory Investigation of Mixing Hot-Mix Asphalt with Reclaimed Asphalt Pavement. Transportation Research Record, 2005, 1929, 37-45.	1.0	176
255	Comparison of Semi-Circular Bending and Indirect Tensile Strength Tests for HMA Mixtures. , 2005, , 1.		23
256	Investigation into Waste Tire Rubber-Filled Concrete. Journal of Materials in Civil Engineering, 2004, 16, 187-194.	1.3	161
257	Validation of Performance-based Method for Determining Rejuvenator Content in HMA. International Journal of Pavement Engineering, 2004, 5, 103-109.	2.2	15
258	Development of waste tire modified concrete. Cement and Concrete Research, 2004, 34, 2283-2289.	4.6	266
259	Application of a Temperature Dependent Viscoplastic Hierarchical Single Surface Model for Asphalt Mixtures. Journal of Materials in Civil Engineering, 2004, 16, 147-154.	1.3	25
260	Analytical modeling and experimental study of tensile strength of asphalt concrete composite at low temperatures. Composites Part B: Engineering, 2003, 34, 705-714.	5.9	70
261	Evaluation of Permeability of Superpav [®] Asphalt Mixtures. Transportation Research Record, 2003, 1832, 50-58.	1.0	20
262	Louisiana Experience with Crumb Rubber-Modified Hot-Mix Asphalt Pavement. Transportation Research Record, 2002, 1789, 1-13.	1.0	138
263	Influence of Asphalt Tack Coat Materials on Interface Shear Strength. Transportation Research Record, 2002, 1789, 56-65.	1.0	82
264	Three-Dimensional Numerical Simulation of Asphalt Pavement at Louisiana Accelerated Loading Facility. Transportation Research Record, 2001, 1764, 44-58.	1.0	21
265	Laboratory Performance Evaluation of Cement-Stabilized Soil Base Mixtures. Transportation Research Record, 2000, 1721, 19-28.	1.0	25
266	Accelerated Loading Performance and Laboratory Characterization of Crumb Rubber Asphalt Pavements. Road Materials and Pavement Design, 2000, 1, 467-493.	2.0	16
267	Regression Model for Resilient Modulus of Subgrade Soils. Transportation Research Record, 1999, 1687, 47-54.	1.0	66
268	Numerical Simulation of Geosynthetic-Reinforced Flexible Pavements. Transportation Research Record, 1996, 1534, 58-65.	1.0	22
269	Analysis of overweight vehicles on asphalt pavement performance using accelerated failure time models. International Journal of Pavement Engineering, 0, , 1-10.	2.2	3
270	Long-Term Effects of Subsurface Drainage on Performance of Asphalt Pavements. Transportation Research Record, 0, , 036119812110326.	1.0	1

#	ARTICLE	IF	CITATIONS
271	Numerical Simulation of Geosynthetic-Reinforced Flexible Pavements. , 0, .		12
272	Laboratory Investigation of Mixing Hot-Mix Asphalt with Reclaimed Asphalt Pavement. , 0, .		111
273	Uniaxial Penetration Testing for Shear Resistance of Hot-Mix Asphalt Mixtures. , 0, .		9