

Xiaoming Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

165
papers

4,191
citations

37
h-index

58
g-index

178
ext. papers

5,030
ext. citations

3.8
avg, IF

6.09
L-index

#	Paper	IF	Citations
165	Evaluation on Distribution Characteristics of Pore Water Pressure within Saturated Pavement Structure Based on the Proposed Tire-Fluid-Pavement Coupling Model. <i>Advances in Materials Science and Engineering</i> , 2022 , 2022, 1-12	1.5	
164	Correlation Analysis between Mechanical Properties and Fractions Composition of Oil-Rejuvenated Asphalt.. <i>Materials</i> , 2022 , 15,	3.5	2
163	Evaluation on Braking Stability of Autonomous Vehicles Running along Curved Sections Based on Asphalt Pavement Adhesion Properties. <i>Journal of Advanced Transportation</i> , 2022 , 2022, 1-20	1.9	
162	Intelligent Compaction: An Improved Quality Monitoring and Control of Asphalt Pavement Construction Technology. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-8	6.1	2
161	Post-Intensive Care Syndrome in Children: A Concept Analysis. <i>Journal of Pediatric Nursing</i> , 2021 , 61, 417-423	2.2	1
160	A feasibility study exploring limestone in porous asphalt concrete: Performance evaluation and superpave compaction characteristics. <i>Construction and Building Materials</i> , 2021 , 279, 122457	6.7	10
159	Study on the Rut Control Threshold of Asphalt Pavement Considering Steering Stability of Autonomous Vehicles Based on Fuzzy Control Theory. <i>Advances in Civil Engineering</i> , 2021 , 2021, 1-13	1.3	1
158	Effect of Carbon Black on Rutting and Fatigue Performance of Asphalt. <i>Materials</i> , 2021 , 14,	3.5	3
157	Ground-State Structures of Hydrated Calcium Ion Clusters From Comprehensive Genetic Algorithm Search. <i>Frontiers in Chemistry</i> , 2021 , 9, 637750	5	2
156	High-viscosity modified asphalt mixtures for double-layer porous asphalt pavement: Design optimization and evaluation metrics. <i>Construction and Building Materials</i> , 2021 , 271, 121893	6.7	11
155	Analysis of relationship between component changes and performance degradation of Waste-Oil-Rejuvenated asphalt. <i>Construction and Building Materials</i> , 2021 , 297, 123777	6.7	8
154	Advanced method for measuring asphalt viscosity: Rotational plate viscosity method and its application to asphalt construction temperature prediction. <i>Construction and Building Materials</i> , 2021 , 301, 124129	6.7	1
153	Evaluation of the Additives Behaviour to Determine the Best Modifier for Improving Asphalt Performance at High Temperature. <i>Advances in Civil Engineering</i> , 2021 , 2021, 1-10	1.3	
152	CrackW-Net: A Novel Pavement Crack Image Segmentation Convolutional Neural Network. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-10	6.1	11
151	Influence of precast foam on the pore structure and properties of fly ash-based geopolymer foams. <i>Construction and Building Materials</i> , 2020 , 256, 119410	6.7	19
150	Analysis of contact behaviour on patterned tire-asphalt pavement with 3-D FEM contact model. <i>International Journal of Pavement Engineering</i> , 2020 , 1-16	2.6	4
149	Mechanical and microstructural characteristics of different interfaces in cold recycled mixture containing cement and asphalt emulsion. <i>Journal of Cleaner Production</i> , 2020 , 258, 120674	10.3	62

148	Microstructure of synthetic composite interfaces and verification of mixing order in cold-recycled asphalt emulsion mixture. <i>Journal of Cleaner Production</i> , 2020 , 263, 121467	10.3	56
147	Mechanical Behavior of Concrete Pavement considering Void beneath Slabs and Joints LTE. <i>Advances in Civil Engineering</i> , 2020 , 2020, 1-13	1.3	
146	Structural Evolution of Medium-Sized Phosphorus Clusters (P ₂₀ P ₃₆) from Ab Initio Global Search. <i>Journal of Cluster Science</i> , 2020 , 31, 567-574	3	2
145	Performance Characterization of Recycled-Asphalt Pavement with Stabilized Rubber Modified Asphalt Using Balanced Mix Design Method. <i>Journal of Materials in Civil Engineering</i> , 2020 , 32, 04020387 ³		6
144	Foamed geopolymer: The relationship between rheological properties of geopolymer paste and pore-formation mechanism. <i>Journal of Cleaner Production</i> , 2020 , 277, 123238	10.3	17
143	Structures, stabilities and electronic properties of TimSi _n (m = 1-2, n = 14-20) clusters: a combined ab initio and experimental study. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	3
142	Investigation of motion of coarse aggregates in asphalt mixture based on virtual simulation of compaction test. <i>International Journal of Pavement Engineering</i> , 2020 , 21, 144-156	2.6	8
141	Prediction of dynamic shear modulus of fine aggregate matrix using discrete element method and modified Hirsch model. <i>Mechanics of Materials</i> , 2019 , 138, 103148	3.3	14
140	Real-time identification system of asphalt pavement texture based on the close-range photogrammetry. <i>Construction and Building Materials</i> , 2019 , 226, 910-919	6.7	17
139	Acquisition method of asphalt pavement texture information based on the CPR Technology. <i>MATEC Web of Conferences</i> , 2019 , 275, 04003	0.3	1
138	Hydrated Sodium Ion Clusters [Na(HO)] _n (n = 1-6): An Study on Structures and Non-covalent Interaction. <i>Frontiers in Chemistry</i> , 2019 , 7, 624	5	9
137	Predicting Dynamic Shear Modulus of Asphalt Mastics Using Discretized-Element Simulation and Reinforcement Mechanisms. <i>Journal of Materials in Civil Engineering</i> , 2019 , 31, 04019163	3	57
136	Modification of the dry method for mixing crumb rubber modifier with aggregate and asphalt based on the binder mix design. <i>Construction and Building Materials</i> , 2019 , 220, 278-284	6.7	7
135	Evolution of atomic structures of Sn _n , Sn _n ⁺ , and SnCl _n clusters (N = 4-20): Insight from ab initio calculations. <i>Journal of Chemical Physics</i> , 2019 , 150, 174304	3.9	4
134	Experimental Study to Determine the Most Preferred Additive for Improving Asphalt Performance Using Polypropylene, Crumb Rubber, and Tafpack Super in Medium and High-Temperature Range. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1567	2.6	9
133	Evaluation of Asphalt with Different Combinations of Fire Retardants. <i>Materials</i> , 2019 , 12,	3.5	5
132	Mechanical evaluation of aggregate gradation to characterize load carrying capacity and rutting resistance of asphalt mixtures. <i>Construction and Building Materials</i> , 2019 , 205, 499-510	6.7	34
131	Skid resistance demands of asphalt pavement during the braking process of autonomous vehicles. <i>MATEC Web of Conferences</i> , 2019 , 275, 04002	0.3	2

130	The Evaluation Method of Particle Clustering Phenomena in RAP. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 424	2.6	6
129	Evaluation of Vehicle Braking Performance on Wet Pavement Surface using an Integrated Tire-Vehicle Modeling Approach. <i>Transportation Research Record</i> , 2019 , 2673, 295-307	1.7	22
128	The performance of hot-recycling asphalt binder containing crumb rubber modified asphalt based on physiochemical and rheological measurements. <i>Construction and Building Materials</i> , 2019 , 226, 83-93	6.7	31
127	Mechanistic Sieve-Size Classification of Aggregate Gradation by Characterizing Load-Carrying Capacity of Inner Structures. <i>Journal of Engineering Mechanics - ASCE</i> , 2019 , 145, 04019069	2.4	31
126	Effects of flow rates and layer thicknesses for aggregate conveying process on the prediction accuracy of aggregate gradation by image segmentation based on machine vision. <i>Construction and Building Materials</i> , 2019 , 222, 566-578	6.7	8
125	Characterization of Air Voids Distribution in the Open-Graded Asphalt Mixture Based on 2D Image Analysis. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4126	2.6	3
124	Effect of Mineral Additives on the Behavior of an Expansive Soil for Use in Highway Subgrade Soils. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 30	2.6	5
123	Atomic Structures and Electronic Properties of Large-Sized GeN Clusters (N = 45, 50, 55, 60, 65, 70) by First-Principles Global Search. <i>Journal of Cluster Science</i> , 2019 , 30, 371-377	3	4
122	Discrete-Element Contour-Filling Modeling Method for Micromechanical and Macromechanical Analysis of Aggregate Skeleton of Asphalt Mixture. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2019 , 145, 04018056	1.4	42
121	Prediction of Remaining Service Life of Asphalt Pavement Using Dissipated Energy Method. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2018 , 144, 04018011	1.4	2
120	Algorithms for Generating Air-Void Structures of Idealized Asphalt Mixture Based on Three-Dimensional Discrete-Element Method. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2018 , 144, 04018023	1.4	6
119	Coupling organosolv fractionation and reductive depolymerization of woody biomass in a two-step catalytic process. <i>Green Chemistry</i> , 2018 , 20, 2308-2319	10	53
118	Development of shape memory polyurethane based sealant for concrete pavement. <i>Construction and Building Materials</i> , 2018 , 174, 474-483	6.7	29
117	Low-Energy Structures and Electronic Properties of Large-Sized SiN Clusters (N = 60, 80, 100, 120, 150, 170). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11086-11095	3.8	3
116	Structures and Spectroscopic Properties of F(HO) with n = 1-10 Clusters from a Global Search Based On Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3413-3422	2.8	10
115	Impacts of air-void structures on the rutting tests of asphalt concrete based on discretized emulation. <i>Construction and Building Materials</i> , 2018 , 166, 334-344	6.7	33
114	Simulation of wheel tracking test for asphalt mixture using discrete element modelling. <i>Road Materials and Pavement Design</i> , 2018 , 19, 367-384	2.6	81
113	Thermal Regime Analysis and Protective Measure Evaluation for Wide Embankment in Permafrost Regions of Qinghai-Tibet Plateau. <i>International Journal of Civil Engineering</i> , 2018 , 16, 1303-1316	1.9	1

112	Pore structure analysis and properties evaluations of fly ash-based geopolymer foams by chemical foaming method. <i>Ceramics International</i> , 2018 , 44, 19989-19997	5.1	64
111	Revisit the landscape of protonated water clusters H(HO) with n = 10-17: An ab initio global search. <i>Journal of Chemical Physics</i> , 2018 , 148, 174305	3.9	12
110	Engineering and mineralogical properties of stabilized expansive soil compositing lime and natural pozzolans. <i>Construction and Building Materials</i> , 2018 , 187, 1031-1038	6.7	41
109	Effects of Internal Structure on Anisotropic Creep Behavior of Asphalt Mixture Based on User-Defined Three-Dimensional Discrete Element Method. <i>Journal of Testing and Evaluation</i> , 2018 , 46, 20170742	1	1
108	Soil-atmosphere Interaction as Triggering Factors of Openings between Embankment and Pavement. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 1642-1650	1.9	4
107	Adhesion Characteristics of Tire-Asphalt Pavement Interface Based on a Proposed Tire Hydroplaning Model. <i>Advances in Materials Science and Engineering</i> , 2018 , 2018, 1-12	1.5	6
106	Fatigue Resistance Evaluation of Modified Asphalt Using a Multiple Stress Creep and Recovery (MSCR) Test. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 417	2.6	7
105	Selective Production of Biobased Phenol from Lignocellulose-Derived Alkylmethoxyphenols. <i>ACS Catalysis</i> , 2018 , 8, 11184-11190	13.1	51
104	Investigation of Thermal Cooling Effectiveness of RRVCS for Permafrost Protection under Wide Expressway Embankment. <i>Advances in Civil Engineering</i> , 2018 , 2018, 1-11	1.3	1
103	Scaling-Up Catalytic Depolymerisation of Lignin: Performance Criteria for Industrial Operation. <i>Topics in Catalysis</i> , 2018 , 61, 1901-1911	2.3	7
102	Revisit of large-gap Si clusters encapsulating group-IV metal atoms (Ti, Zr, Hf). <i>Journal of Computational Chemistry</i> , 2018 , 39, 2268-2272	3.5	10
101	Developing an Optical Image-Based Method for Bridge Deformation Measurement Considering Camera Motion. <i>Sensors</i> , 2018 , 18,	3.8	11
100	Laboratory Investigation of Crumb Rubber Modified Asphalt Binder and Mixtures with Warm-Mix Additives. <i>International Journal of Civil Engineering</i> , 2017 , 15, 185-194	1.9	35
99	Field and numerical investigation of soil-atmosphere interaction at Nairobi, Kenya. <i>European Journal of Environmental and Civil Engineering</i> , 2017 , 21, 1326-1340	1.5	3
98	Thermal stability investigation of wide embankment with asphalt pavement for Qinghai-Tibet expressway based on finite element method. <i>Applied Thermal Engineering</i> , 2017 , 115, 874-884	5.8	10
97	Structures and electronic properties of BSi (n = 4-10) clusters: A combined ab initio and experimental study. <i>Journal of Chemical Physics</i> , 2017 , 146, 044306	3.9	24
96	Degradation evaluation index of asphalt pavement based on mechanical performance of asphalt mixture. <i>Construction and Building Materials</i> , 2017 , 140, 75-81	6.7	19
95	Selective production of mono-aromatics from lignocellulose over Pd/C catalyst: the influence of acid co-catalysts. <i>Faraday Discussions</i> , 2017 , 202, 141-156	3.6	58

94	Revisit of Sin (n = 2129) Clusters by Ab Initio Global Search. <i>Journal of Cluster Science</i> , 2017 , 28, 1729-1737		5
93	Numerical investigation into the effect of air voids on the anisotropy of asphalt mixtures. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017 , 32, 473-481	1	4
92	Reductive fractionation of woody biomass into lignin monomers and cellulose by tandem metal triflate and Pd/C catalysis. <i>Green Chemistry</i> , 2017 , 19, 175-187	10	119
91	Property Characterization of Asphalt Binders and Mixtures Modified by Different Crumb Rubbers. <i>Journal of Materials in Civil Engineering</i> , 2017 , 29, 04017036	3	99
90	Which Density Functional Should Be Used to Describe Protonated Water Clusters?. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 3117-3127	2.8	20
89	Innovative Approach for Pavement Runoff Characterization. <i>Journal of Performance of Constructed Facilities</i> , 2017 , 31, 04017047	2	4
88	Study on the void reduction behaviour of porous asphalt pavement based on discrete element method. <i>International Journal of Pavement Engineering</i> , 2017 , 18, 285-291	2.6	6
87	Catalytic Depolymerization of Lignin and Woody Biomass in Supercritical Ethanol: Influence of Reaction Temperature and Feedstock. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10864-10874	8.3	66
86	Fatigue Evaluation of Recycled Asphalt Mixture Based on Energy-Controlled Mode. <i>Advances in Materials Science and Engineering</i> , 2017 , 2017, 1-7	1.5	5
85	Stabilization of Highly Expansive Black Cotton Soils by Means of Geopolymerization. <i>Journal of Materials in Civil Engineering</i> , 2017 , 29, 04017170	3	48
84	Effects of aggregate size and specimen scale on asphalt mixture cracking using a micromechanical simulation approach. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017 , 32, 1503-1510	1.5	4
83	Research on Performance of a Dense Graded Ultra-Thin Wearing Course Mixture. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 800	2.6	12
82	Numerical Study of Tire Hydroplaning Based on Power Spectrum of Asphalt Pavement and Kinetic Friction Coefficient. <i>Advances in Materials Science and Engineering</i> , 2017 , 2017, 1-11	1.5	11
81	Experimental study of deicing asphalt mixture with anti-icing additives. <i>Construction and Building Materials</i> , 2016 , 127, 653-662	6.7	44
80	Effective Release of Lignin Fragments from Lignocellulose by Lewis Acid Metal Triflates in the Lignin-First Approach. <i>ChemSusChem</i> , 2016 , 9, 3262-3267	8.3	80
79	Experimental study of recycled asphalt concrete modified by high-modulus agent. <i>Construction and Building Materials</i> , 2016 , 128, 128-135	6.7	23
78	Occurrence and impacts of hollow space under a continuously reinforced concrete pavement. <i>Road Materials and Pavement Design</i> , 2016 , 17, 203-222	2.6	2
77	Effects of double layer porous asphalt pavement of urban streets on noise reduction. <i>International Journal of Sustainable Built Environment</i> , 2016 , 5, 183-196		37

76	Characteristics of desulfurized rubber asphalt and mixture. <i>KSCE Journal of Civil Engineering</i> , 2016 , 20, 1347-1355	1.9	35
75	Effect of air voids on the high-temperature creep behavior of asphalt mixture based on three-dimensional discrete element modeling. <i>Materials and Design</i> , 2016 , 89, 304-313	8.1	62
74	Using RAP Material in High Modulus Asphalt Mixture. <i>Journal of Testing and Evaluation</i> , 2016 , 44, 20150194	9	
73	Polishing of Asphalt Pavements: From Macro- to Micro-Scale. <i>Journal of Testing and Evaluation</i> , 2016 , 44, 20150271	1	7
72	Influences by Air Voids on the Low-Temperature Cracking Property of Dense-Graded Asphalt Concrete Based on Micromechanical Modeling. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-10	1.5	9
71	High-temperature creep behavior characterization of asphalt mixture based on micromechanical modeling and virtual test. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016 , 31, 1311-1318	1	1
70	Evaluating the rutting resistance of asphalt mixtures using a simplified triaxial repeated load test. <i>Construction and Building Materials</i> , 2016 , 116, 72-78	6.7	28
69	Design and Evaluation of Heat-Resistant Asphalt Mixture for Permafrost Regions. <i>International Journal of Civil Engineering</i> , 2016 , 14, 339-346	1.9	13
68	Magnetic Anisotropy of Small Irn Clusters (n = 2B). <i>Journal of Cluster Science</i> , 2016 , 27, 935-946	3	4
67	Comprehensive genetic algorithm for ab initio global optimisation of clusters. <i>Molecular Simulation</i> , 2016 , 42, 809-819	2	59
66	Finite element simulation and experimental investigation on the residual stress-related monolithic component deformation. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 77, 1035-1041	3.2	71
65	Low-Energy Structures of Binary PtBn Clusters from Global Search Using Genetic Algorithm and Density Functional Theory. <i>Journal of Cluster Science</i> , 2015 , 26, 389-409	3	24
64	Micromechanical characteristics of aggregate particles in asphalt mixtures. <i>Construction and Building Materials</i> , 2015 , 91, 80-85	6.7	27
63	Ethanol as capping agent and formaldehyde scavenger for efficient depolymerization of lignin to aromatics. <i>Green Chemistry</i> , 2015 , 17, 4941-4950	10	195
62	Investigation of rutting behavior of asphalt pavement in long and steep section of mountainous highway with overloading. <i>Construction and Building Materials</i> , 2015 , 93, 635-643	6.7	15
61	Structures and electronic properties of neutral and anionic Can (n=2Q2) clusters. <i>Chemical Physics Letters</i> , 2015 , 634, 255-260	2.5	8
60	Investigation of micro-mechanical response of asphalt mixtures by a three-dimensional discrete element model. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015 , 30, 338-343	1	19
59	B28: the smallest all-boron cage from an ab initio global search. <i>Nanoscale</i> , 2015 , 7, 15086-90	7.7	60

58	Evaluation of the diffusion and distribution of the rejuvenator for hot asphalt recycling. <i>Construction and Building Materials</i> , 2015 , 98, 530-536	6.7	58
57	Laboratory performance characteristics of high modulus asphalt mixture with high-content RAP. <i>Construction and Building Materials</i> , 2015 , 101, 975-982	6.7	53
56	Permeability Loss of Open-Graded Friction Course Mixtures due to Deformation-Related and Particle-Related Clogging: Understanding from a Laboratory Investigation. <i>Journal of Materials in Civil Engineering</i> , 2015 , 27, 04015023	3	22
55	Strength Mechanism and Influence Factors for Cold Recycled Asphalt Mixture. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-10	1.5	17
54	Role of CuMgAl Mixed Oxide Catalysts in Lignin Depolymerization in Supercritical Ethanol. <i>ACS Catalysis</i> , 2015 , 5, 7359-7370	13.1	126
53	Structures and Electronic Properties of V_3Si_n ($n = 3-4$) Clusters: A Combined Ab Initio and Experimental Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10987-10994	3.8	50
52	Combustion mechanism of asphalt binder with TGMS technique based on components separation. <i>Construction and Building Materials</i> , 2015 , 80, 125-131	6.7	28
51	Magnetic properties of atomic clusters and endohedral metallofullerenes. <i>Coordination Chemistry Reviews</i> , 2015 , 289-290, 315-340	23.2	69
50	Numerical Study on the Effect of Coarse-Aggregate Morphology on Shear Performance. <i>Journal of Testing and Evaluation</i> , 2015 , 43, 20130067	1	3
49	Asphalt Mixture Design and Thermology Experiments on Heat-Resistant Surfaces in Permafrost Regions. <i>Journal of Testing and Evaluation</i> , 2015 , 43, 20130117	1	0
48	Catalytic depolymerization of lignin in supercritical ethanol. <i>ChemSusChem</i> , 2014 , 7, 2276-88	8.3	262
47	Discovery of a silicon-based ferrimagnetic wheel structure in $V(x)Si_{12}(-)$ ($x = 1-3$) clusters: photoelectron spectroscopy and density functional theory investigation. <i>Nanoscale</i> , 2014 , 6, 14617-21	7.7	76
46	MiR-361-5p acts as a tumor suppressor in prostate cancer by targeting signal transducer and activator of transcription-6(STAT6). <i>Biochemical and Biophysical Research Communications</i> , 2014 , 445, 151-6	3.4	70
45	Dynamic evolution of emitted volatiles from thermal decomposed bituminous materials. <i>Construction and Building Materials</i> , 2014 , 64, 47-53	6.7	12
44	Rubberized asphalt mixture design using a theoretical model. <i>Construction and Building Materials</i> , 2014 , 67, 265-269	6.7	9
43	Locating Global Critical Slip Surface Using the Morgenstern-Price Method and Optimization Technique. <i>International Journal of Geomechanics</i> , 2014 , 14, 319-325	3.1	17
42	Design of three-shell icosahedral matryoshka clusters $A@B@A_2$ ($A = Sn, Pb; B = Mg, Zn, Cd, Mn$). <i>Scientific Reports</i> , 2014 , 4, 6915	4.9	20
41	The compaction characteristics of hot mixed asphalt mixtures. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014 , 29, 956-959	1	11

40	Fiber reinforcing effect on asphalt binder under low temperature. <i>Construction and Building Materials</i> , 2014 , 61, 120-124	6.7	24
39	Degradation behaviour analysis of SMA aggregate and skeleton. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013 , 28, 1140-1145	1	3
38	Production of cyclohexane from lignin degradation compounds over Ni/ZrO ₂ BiO ₂ catalysts. <i>Applied Energy</i> , 2013 , 112, 533-538	10.7	86
37	Algorithms for Generating Three-Dimensional Aggregates and Asphalt Mixture Samples by the Discrete-Element Method. <i>Journal of Computing in Civil Engineering</i> , 2013 , 27, 111-117	5	48
36	Ground state structures, electronic and optical properties of medium-sized Nan + (n = 9, 15, 21, 26, 31, 36, 41, 50 and 59) clusters from ab initio genetic algorithm. <i>European Physical Journal D</i> , 2013 , 67, 1	1.3	7
35	Inhibitory action of flame retardant on the dynamic evolution of asphalt pyrolysis volatiles. <i>Fuel</i> , 2013 , 105, 757-763	7.1	26
34	Integrated Experimental and Numerical Study on Permanent Deformation of Asphalt Pavement at Intersections. <i>Journal of Materials in Civil Engineering</i> , 2013 , 25, 907-912	3	13
33	Behavior of Thermoset Shape Memory Polymer-Based Syntactic Foam Sealant Trained by Hybrid Two-Stage Programming. <i>Journal of Materials in Civil Engineering</i> , 2013 , 25, 393-402	3	29
32	Investigation into causes of in-place rutting in asphalt pavement. <i>Construction and Building Materials</i> , 2012 , 28, 525-530	6.7	80
31	Investigation of the shape, size, angularity and surface texture properties of coarse aggregates. <i>Construction and Building Materials</i> , 2012 , 34, 330-336	6.7	49
30	A reduced FVE formulation based on POD method and error analysis for two-dimensional viscoelastic problem. <i>Journal of Mathematical Analysis and Applications</i> , 2012 , 385, 310-321	1.1	24
29	Laboratory evaluation on the high temperature rheological properties of rubber asphalt: a preliminary study. <i>Canadian Journal of Civil Engineering</i> , 2012 , 39, 1125-1135	1.3	7
28	Atomic structures and electronic properties of small AuAg binary clusters: Effects of size and composition. <i>Computational and Theoretical Chemistry</i> , 2012 , 993, 36-44	2	42
27	Lowest-energy structures of (WO ₃) _n (2 ≤ n ≤ 2) clusters from first-principles global search. <i>Chemical Physics Letters</i> , 2012 , 544, 7-12	2.5	21
26	Structural evolution and electronic properties of medium-sized gallium clusters from ab initio genetic algorithm search. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 132-7	1.3	13
25	Combustion properties of asphalt binder containing flame retardant. <i>Fire and Materials</i> , 2012 , 36, 97-106	6.8	15
24	Predicting the dynamic behavior of asphalt concrete using three-dimensional discrete element method. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012 , 27, 382-388	1	11
23	Degradation Behavior and Mechanism of HMA Aggregate. <i>Journal of Testing and Evaluation</i> , 2012 , 40, 20120057	1	5

22	Investigation into High-Temperature Stability of Asphalt Pavement. <i>Journal of Testing and Evaluation</i> , 2012 , 40, 20120141	1	5
21	Gradation Design of the Aggregate Skeleton in Asphalt Mixture. <i>Journal of Testing and Evaluation</i> , 2012 , 40, 20120142	1	11
20	Analysis of the Low-Temperature Rheological Properties of Rubberized Warm Mix Asphalt Binders. <i>Journal of Testing and Evaluation</i> , 2012 , 40, 20120147	1	8
19	Aging Behaviour and Mechanism of SBS-Modified Asphalt. <i>Journal of Testing and Evaluation</i> , 2012 , 40, 20120150	1	31
18	Discrete element modeling of asphalt concrete cracking using a user-defined three-dimensional micromechanical approach. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011 , 26, 1215-1221	1	32
17	Stress and deformation due to embankment widening with different treatment techniques. <i>Central South University</i> , 2011 , 18, 1304-1310		8
16	Pyrolysis properties and kinetic model of an asphalt binder containing a flame retardant. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 2661-2665	2.9	8
15	Combustion Properties and Multistage Kinetics Models of Asphalt Binder Filled with Flame Retardant. <i>Combustion Science and Technology</i> , 2011 , 183, 1027-1038	1.5	11
14	Numerical investigation into the stiffness anisotropy of asphalt concrete from a microstructural perspective. <i>Construction and Building Materials</i> , 2011 , 25, 3059-3065	6.7	27
13	Investigation into the properties of asphalt mixtures containing magnesium hydroxide flame retardant. <i>Fire Safety Journal</i> , 2011 , 46, 330-334	3.3	38
12	Revision of Calculation of Stopping Sight Distance. <i>Baltic Journal of Road and Bridge Engineering</i> , 2011 , 6, 96-101	0.9	3
11	Evaluation of the Fracture Resistance of Asphalt Mixtures Based on Bilinear Cohesive Zone Model. <i>Journal of Testing and Evaluation</i> , 2011 , 39, 103626	1	
10	A New Creep Test Method for Asphalt Mixtures. <i>Road Materials and Pavement Design</i> , 2010 , 11, 969-991	2.6	15
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