

# Hui Yao

## List of Publications by Year in descending order

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74  
papers

3,709  
citations

201674

27  
h-index

133252

59  
g-index

74  
all docs

74  
docs citations

74  
times ranked

4909  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying Autism Loci and Genes by Tracing Recent Shared Ancestry. <i>Science</i> , 2008, 321, 218-223.	12.6	688
2	Structural Basis for dsRNA Recognition, Filament Formation, and Antiviral Signal Activation by MDA5. <i>Cell</i> , 2013, 152, 276-289.	28.9	447
3	Rheological Properties and Chemical Bonding of Asphalt Modified with Nanosilica. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1619-1630.	2.9	278
4	Rheological properties and chemical analysis of nanoclay and carbon microfiber modified asphalt with Fourier transform infrared spectroscopy. <i>Construction and Building Materials</i> , 2013, 38, 327-337.	7.2	212
5	Fourier Transform Infrared Spectroscopy characterization of aging-related properties of original and nano-modified asphalt binders. <i>Construction and Building Materials</i> , 2015, 101, 1078-1087.	7.2	179
6	Performance of asphalt binder blended with non-modified and polymer-modified nanoclay. <i>Construction and Building Materials</i> , 2012, 35, 159-170.	7.2	143
7	Measurement of the refractive index of human teeth by optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2009, 14, 034010.	2.6	128
8	Molecular dynamics simulation of physicochemical properties of the asphalt model. <i>Fuel</i> , 2016, 164, 83-93.	6.4	126
9	Cross-species identification of genomic drivers of squamous cell carcinoma development across preneoplastic intermediates. <i>Nature Communications</i> , 2016, 7, 12601.	12.8	123
10	Effectiveness of Vegetable Oils as Rejuvenators for Aged Asphalt Binders. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	2.9	119
11	Chemo-physical analysis and molecular dynamics (MD) simulation of moisture susceptibility of nano hydrated lime modified asphalt mixtures. <i>Construction and Building Materials</i> , 2015, 101, 536-547.	7.2	92
12	Rheological properties, low-temperature cracking resistance, and optical performance of exfoliated graphite nanoplatelets modified asphalt binder. <i>Construction and Building Materials</i> , 2016, 113, 988-996.	7.2	85
13	Sequence type 1 group B <i>Streptococcus</i> , an emerging cause of invasive disease in adults, evolves by small genetic changes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6431-6436.	7.1	81
14	Comparisons of synchronous measurement methods on various moduli of asphalt mixtures. <i>Construction and Building Materials</i> , 2018, 158, 1035-1045.	7.2	63
15	Discussion on molecular dynamics (MD) simulations of the asphalt materials. <i>Advances in Colloid and Interface Science</i> , 2022, 299, 102565.	14.7	63
16	Characterization of the rate of change of rheological properties of nano-modified asphalt. <i>Construction and Building Materials</i> , 2015, 98, 437-446.	7.2	53
17	Modulus simulation of asphalt binder models using Molecular Dynamics (MD) method. <i>Construction and Building Materials</i> , 2018, 162, 430-441.	7.2	43
18	A bifunctionalized organo-inorganic hybrid silica: synergistic effect enhances enantioselectivity. <i>Chemical Communications</i> , 2012, 48, 11898.	4.1	39

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19	Correlation of DSR Results and FTIR's Carbonyl and Sulfoxide Indexes: Effect of Aging Temperature on Asphalt Rheology. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	2.9	38
20	Analysis of performance and mechanism of Buton rock asphalt modified asphalt. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46903.	2.6	37
21	Evaluation of contact angle between asphalt binders and aggregates using Molecular Dynamics (MD) method. <i>Construction and Building Materials</i> , 2019, 212, 727-736.	7.2	36
22	Preparation of graphene oxide/bio-based elastomer nanocomposites through polymer design and interface tailoring. <i>Polymer Chemistry</i> , 2015, 6, 6140-6151.	3.9	33
23	Rapid microwave irradiation synthesis of carbon nanotubes on graphite surface and its application on asphalt reinforcement. <i>Composites Part B: Engineering</i> , 2017, 124, 134-143.	12.0	33
24	Material selections in asphalt pavement for wet-freeze climate zones: A review. <i>Construction and Building Materials</i> , 2019, 201, 510-525.	7.2	33
25	Recoverable organorhodium-functionalized polyhedral oligomeric silsesquioxane: a bifunctional heterogeneous catalyst for asymmetric transfer hydrogenation of aromatic ketones in aqueous medium. <i>Chemical Communications</i> , 2012, 48, 6286.	4.1	32
26	MEFV E148Q polymorphism is associated with Henoch-Schönlein purpura in Chinese children. <i>Pediatric Nephrology</i> , 2010, 25, 2077-2082.	1.7	30
27	Involvement of HAb18G/CD147 in T cell activation and immunological synapse formation. <i>Journal of Cellular and Molecular Medicine</i> , 2010, 14, 2132-2143.	3.6	29
28	Evaluation of Asphalt Blended With Low Percentage of Carbon Micro-Fiber and Nanoclay. <i>Journal of Testing and Evaluation</i> , 2013, 41, 278-288.	0.7	28
29	Adhesion Evaluation of Asphalt-Aggregate Interface Using Surface Free Energy Method. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 156.	2.5	24
30	Property Analysis of Exfoliated Graphite Nanoplatelets Modified Asphalt Model Using Molecular Dynamics (MD) Method. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 43.	2.5	23
31	Synthesis and Characterization of Electroconductive PHA-graft-Graphene Nanocomposites. <i>Biomacromolecules</i> , 2019, 20, 645-652.	5.4	23
32	Investigation of the asphalt-aggregate interaction using molecular dynamics. <i>Petroleum Science and Technology</i> , 2017, 35, 586-593.	1.5	22
33	Review on Applications of Lignin in Pavement Engineering: A Recent Survey. <i>Frontiers in Materials</i> , 2022, 8, .	2.4	22
34	Long-Term Outcomes of Treatments for Central Precocious Puberty or Early and Fast Puberty in Chinese Girls. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, 705-715.	3.6	21
35	Morphology, interfacial interaction, and properties of a novel bioelastomer reinforced by silica and carbon black. <i>Journal of Applied Polymer Science</i> , 2013, 129, 1546-1554.	2.6	20
36	Effectiveness of Micro- and Nanomaterials in Asphalt Mixtures through Dynamic Modulus and Rutting Tests. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-14.	2.7	20

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37	Moisture Susceptibility of Warm Mix Asphalt (WMA) with an Organic Wax Additive Based on X-Ray Computed Tomography (CT) Technology. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-12.	0.7	19
38	Comparison of performances of early aged pre-vibrated cement-stabilized macadam formed by different compactions. <i>Construction and Building Materials</i> , 2020, 239, 117682.	7.2	19
39	Mainland and island populations of <i>Mussaenda kwangtungensis</i> differ in their phyllosphere fungal community composition and network structure. <i>Scientific Reports</i> , 2020, 10, 952.	3.3	19
40	A Detection Method for Pavement Cracks Combining Object Detection and Attention Mechanism. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 22179-22189.	8.0	19
41	Molecular and Clinicopathologic Characterization of AML With Isolated Trisomy 4. <i>American Journal of Clinical Pathology</i> , 2012, 137, 387-394.	0.7	16
42	A pathway-based gene signature correlates with therapeutic response in adult patients with Philadelphia chromosome-positive acute lymphoblastic leukemia. <i>Modern Pathology</i> , 2010, 23, 1524-1534.	5.5	12
43	Impact of different contraceptive methods on quality of life in rural women of the Jiangsu province in China. <i>Contraception</i> , 2009, 80, 180-186.	1.5	11
44	Preparation and Properties of Waterborne Epoxy Modified Emulsified Asphalt Binder (WEMEAB). <i>Journal of Testing and Evaluation</i> , 2020, 48, 20160572.	0.7	11
45	Solution of pavement temperature field in "Environment-Surface" system through Green™s function. <i>Journal of Central South University</i> , 2014, 21, 2108-2116.	3.0	10
46	Performance Analysis of Direct Coal Liquefaction Residue (DCLR) and Trinidad Lake Asphalt (TLA) for the Purpose of Modifying Traditional Asphalt. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 3983-3993.	1.1	10
47	Effects of adhesives on properties and mechanism of the ultra-thin pavement. <i>Road Materials and Pavement Design</i> , 2021, 22, 1140-1159.	4.0	9
48	Generation and properties of the new asphalt binder model using molecular dynamics (MD). <i>Scientific Reports</i> , 2021, 11, 9890.	3.3	9
49	Microstructure and Performance Analysis of Nanomaterials Modified Asphalt. , 2011, , .		8
50	Evaluation of the Master Curves for Complex Shear Modulus for Nano-Modified Asphalt Binders. , 2012, , .		8
51	Ag-HPBs by a coating-etching strategy and their derived injectable implants for enhanced tumor photothermal treatment. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 439-445.	9.4	8
52	Preparation and Properties of Asphalt Binders Modified by THFS Extracted From Direct Coal Liquefaction Residue. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1155.	2.5	7
53	A numerical study on rutting behaviour of direct coal liquefaction residue modified asphalt mixture. <i>Road Materials and Pavement Design</i> , 2021, 22, 1454-1468.	4.0	7
54	Rheological Properties of Modified Coal Tar Pitches. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	2.9	6

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55	Performance of Micro- and Nano-Modified Asphalt Mixtures Through Flow Number and Moisture Susceptibility Evaluations. <i>Journal of Testing and Evaluation</i> , 2017, 45, 2009-2019.	0.7	6
56	Gradation and Performance Research of Cold Recycled Mixture. , 2011, , .		4
57	Properties of Direct Coal Liquefaction Residue Modified Asphalt Mixture. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-11.	1.8	4
58	Gradation Design and Performance Evaluation of High Viscosity Asphalt Mixtures. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-14.	0.7	4
59	Preparation and Performance Analysis of High-Viscosity and Elastic Recovery Modified Asphalt Binder. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-16.	0.7	3
60	Investigation of the Interface Condition Influence on Backcalculated Layer Properties. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2021, 147, 04021026.	1.5	3
61	Performance of Nanommodified Asphalt Binder and Mixture. <i>Advanced Materials Research</i> , 2013, 721, 219-223.	0.3	2
62	Nanoclay modified asphalt. , 2016, , 183-216.		2
63	Unified Strength Models of an Asphalt Mixture under Different Temperatures and Three-Dimensional Stresses. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	2.9	2
64	Preliminary Study of Materials Effect of Cold In-Place and Full-Depth Reclamation Asphalt Concrete in Mechanistic-Empirical Pavement Design. , 2012, , .		1
65	Evaluations of Plant-Produced Foamed Warm Mixture Asphalt. , 2016, , .		1
66	Molecular Dynamics (MD) Model Generation for the Graphite Nanoplatelets Modified Asphalt. , 2016, , .		1
67	Identifying Key Bus Stations Based on Complex Network Theory considering the Hybrid Influence and Passenger Flow: A Case Study of Beijing, China. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-15.	0.7	1
68	How to Achieve Efficiency and Accuracy in Discrete Element Simulation of Asphalt Mixture: A DRF-Based Equivalent Model for Asphalt Sand Mortar. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-10.	0.7	1
69	Study on Transfer Behavior of Negative Friction of Single Pile in Two-Layer Soil. , 2010, , .		0
70	Method of Design for Improving the Drainage Layer of Asphalt Pavement. , 2010, , .		0
71	Effect of Unsaturated Flow on the Groundwater Table in Drainage Layer and Saturated Model Modification. , 2011, , .		0
72	Compaction Characteristics of Cold Recycled Mixtures with Asphalt Emulsion and Their Influencing Factors. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	0

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73	Editorial: Development and Application of Bituminous Materials for Civil Infrastructures. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	0
74	Density calculations of the asphalt model using Molecular Dynamics (MD) method with different force fields. , 2016, , 287-291.		0