

Huai-Bin Yang

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,378
citations

516710

16
h-index

839539

18
g-index

20
all docs

20
docs citations

20
times ranked

902
citing authors

#	ARTICLE	IF	CITATIONS
1	Lightweight, tough, and sustainable cellulose nanofiber-derived bulk structural materials with low thermal expansion coefficient. <i>Science Advances</i> , 2020, 6, eaaz1114.	10.3	196
2	Sustainable Wood-Based Hierarchical Solar Steam Generator: A Biomimetic Design with Reduced Vaporization Enthalpy of Water. <i>Nano Letters</i> , 2020, 20, 5699-5704.	9.1	162
3	An all-natural bioinspired structural material for plastic replacement. <i>Nature Communications</i> , 2020, 11, 5401.	12.8	155
4	Bio-Inspired Lotus-Fiber-like Spiral Hydrogel Bacterial Cellulose Fibers. <i>Nano Letters</i> , 2021, 21, 952-958.	9.1	97
5	Ultra-Strong, Ultra-Tough, Transparent, and Sustainable Nanocomposite Films for Plastic Substitute. <i>Matter</i> , 2020, 3, 1308-1317.	10.0	91
6	Strengthening and Toughening Hierarchical Nanocellulose <i>via</i> Humidity-Mediated Interface. <i>ACS Nano</i> , 2021, 15, 1310-1320.	14.6	85
7	Sustainable Cellulose-Nanofiber-Based Hydrogels. <i>ACS Nano</i> , 2021, 15, 7889-7898.	14.6	84
8	Sustainable Double-Network Structural Materials for Electromagnetic Shielding. <i>Nano Letters</i> , 2021, 21, 2532-2537.	9.1	83
9	Regenerated isotropic wood. <i>National Science Review</i> , 2021, 8, nwaa230.	9.5	55
10	Emerging Bioinspired Artificial Woods. <i>Advanced Materials</i> , 2021, 33, e2001086.	21.0	54
11	Nacre-Inspired Nanocomposite Films with Enhanced Mechanical and Barrier Properties by Self-Assembly of Poly(Lactic Acid) Coated Mica Nanosheets. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	48
12	A general aerosol-assisted biosynthesis of functional bulk nanocomposites. <i>National Science Review</i> , 2019, 6, 64-73.	9.5	44
13	Edible, Ultrastrong, and Microplastic-Free Bacterial Cellulose-Based Straws by Biosynthesis. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	42
14	Nacre-Inspired Sustainable Coatings with Remarkable Fire-Retardant and Energy-Saving Cooling Performance. , 2021, 3, 243-248.		33
15	Sustainable 3D Structural Binder for High-Performance Supercapacitor by Biosynthesis Process. <i>Advanced Functional Materials</i> , 2021, 31, 2105070.	14.9	32
16	Plant Cellulose Nanofiber-Derived Structural Material with High-Density Reversible Interaction Networks for Plastic Substitute. <i>Nano Letters</i> , 2021, 21, 8999-9004.	9.1	32
17	Sustainable Multiscale High-Haze Transparent Cellulose Fiber Film via a Biomimetic Approach. , 2022, 4, 87-92.		32
18	Microplastics release from victuals packaging materials during daily usage. <i>EcoMat</i> , 2021, 3, e12107.	11.9	31

#	ARTICLE	IF	CITATIONS
19	Biomimetic Design and Mass Production of Sustainable Multiscale Cellulose Fibers-Based Hierarchical Filter Materials for Protective Clothing. <i>Advanced Materials Technologies</i> , 2021, 6, 2100193.	5.8	15
20	Growing Bacterial Cellulose-Based Sustainable Functional Bulk Nanocomposites by Biosynthesis: Recent Advances and Perspectives. <i>Accounts of Materials Research</i> , 2022, 3, 608-619.	11.7	7