

Hu Liu

List of Publications by Year in descending order

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68
papers

4,992
citations

71061

41
h-index

95218

68
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69
all docs

69
docs citations

69
times ranked

5023
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically conductive polymer composites for smart flexible strain sensors: a critical review. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12121-12141.	2.7	522
2	Ultrasensitive and Highly Compressible Piezoresistive Sensor Based on Polyurethane Sponge Coated with a Cracked Cellulose Nanofibril/Silver Nanowire Layer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10922-10932.	4.0	331
3	Highly Compressible and Robust Polyimide/Carbon Nanotube Composite Aerogel for High-Performance Wearable Pressure Sensor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42594-42606.	4.0	255
4	Superhydrophobic Electrically Conductive Paper for Ultrasensitive Strain Sensor with Excellent Anticorrosion and Self-Cleaning Property. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21904-21914.	4.0	228
5	Flexible Sandwich Structural Strain Sensor Based on Silver Nanowires Decorated with Self-Healing Substrate. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900074.	1.7	187
6	Flexible conductive MXene/cellulose nanocrystal coated nonwoven fabrics for tunable wearable strain/pressure sensors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21131-21141.	5.2	176
7	Super light 3D hierarchical nanocellulose aerogel foam with superior oil adsorption. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 245-251.	5.0	175
8	Cu ₃ N Nanocubes for Selective Electrochemical Reduction of CO ₂ to Ethylene. <i>Nano Letters</i> , 2019, 19, 8658-8663.	4.5	173
9	Wearable Strain Sensors Based on a Porous Polydimethylsiloxane Hybrid with Carbon Nanotubes and Graphene. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15572-15583.	4.0	118
10	Photocatalytic dehydrogenation of formic acid promoted by a superior PdAg@g-C ₃ N ₄ Mott-Schottky heterojunction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2022-2026.	5.2	116
11	Porous Polyethylene Bundles with Enhanced Hydrophobicity and Pumping Oil-Recovery Ability via Skin-Peeling. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12580-12585.	3.2	109
12	Laccase immobilized polyaniline/magnetic graphene composite electrode for detecting hydroquinone. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 1130-1138.	3.6	106
13	Solvent-free graphene liquids: Promising candidates for lubricants without the base oil. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 159-167.	5.0	98
14	Electrostatic self-assembled NiFe ₂ O ₄ /Ti ₃ C ₂ T _x MXene nanocomposites for efficient electromagnetic wave absorption at ultralow loading level. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 602-613.	9.9	97
15	Tunable magnetoresistance of core-shell structured polyaniline nanocomposites with 0-, 1-, and 2-dimensional nanocarbons. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 51-64.	9.9	87
16	Hyperelastic magnetic reduced graphene oxide three-dimensional framework with superb oil and organic solvent adsorption capability. <i>Advanced Composites and Hybrid Materials</i> , 2020, 3, 473-484.	9.9	85
17	Flexible Conductive Polyimide Fiber/MXene Composite Film for Electromagnetic Interference Shielding and Joule Heating with Excellent Harsh Environment Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50368-50380.	4.0	85
18	Atomically Dispersed Cu Catalyst for Efficient Chemoselective Hydrogenation Reaction. <i>Nano Letters</i> , 2021, 21, 10284-10291.	4.5	85

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19	Tunable negative permittivity and magnetic performance of yttrium iron garnet/polypyrrole metacomposites at the RF frequency. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3160-3167.	2.7	82
20	Enhanced electromagnetic wave absorption of engineered epoxy nanocomposites with the assistance of polyaniline fillers. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1769-1777.	9.9	78
21	Schiff-base-rich g-C ₃ N ₄ supported PdAg nanowires as an efficient Mott-Schottky catalyst boosting photocatalytic dehydrogenation of formic acid. <i>Rare Metals</i> , 2021, 40, 808-816.	3.6	77
22	Short-Range Diffusion Enables General Synthesis of Medium-Entropy Alloy Aerogels. <i>Advanced Materials</i> , 2022, 34, .	11.1	74
23	Room-Temperature Chemoselective Reduction of 3-Nitrostyrene to 3-Vinylaniline by Ammonia Borane over Cu Nanoparticles. <i>Journal of the American Chemical Society</i> , 2018, 140, 16460-16463.	6.6	73
24	Alternating Multilayer Structural Epoxy Composite Coating for Corrosion Protection of Steel. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900374.	1.7	71
25	Synergistically Toughening Polyoxymethylene by Methyl Methacrylate-Butadiene-Styrene Copolymer and Thermoplastic Polyurethane. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800567.	1.1	67
26	Biodegradable poly(lactic acid) nanocomposites reinforced and toughened by carbon nanotubes/clay hybrids. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 628-634.	3.6	66
27	A resilient and lightweight bacterial cellulose-derived C/rGO aerogel-based electromagnetic wave absorber integrated with multiple functions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5566-5577.	5.2	62
28	Tunable sulfur vacancies and hetero-interfaces of FeS ₂ -based composites for high-efficiency electromagnetic wave absorption. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 148-160.	5.0	62
29	Eu ²⁺ -Doped Layered Double Borate Phosphor with Ultrawide Near-Infrared Spectral Distribution in Response to Ultraviolet-Blue Light Excitation. <i>Advanced Optical Materials</i> , 2022, 10, 2102204.	3.6	61
30	Engineering hierarchical heterostructure material based on metal-organic frameworks and cotton fiber for high-efficient microwave absorber. <i>Nano Research</i> , 2022, 15, 6841-6850.	5.8	59
31	Nitrogen-rich g-C ₃ N ₄ @AgPd Mott-Schottky heterojunction boosts photocatalytic hydrogen production from water and tandem reduction of NO ₃ ⁻ and NO ₂ ⁻ . <i>Journal of Colloid and Interface Science</i> , 2021, 581, 619-626.	5.0	58
32	Tunable negative dielectric properties of magnetic CoFe ₂ O ₄ /graphite-polypyrrole metacomposites. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 899-906.	9.9	58
33	Solvent-free nanoalumina loaded nanocellulose aerogel for efficient oil and organic solvent adsorption. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 299-306.	5.0	56
34	Room-temperature solid phase surface engineering of BiOI sheets stacking g-C ₃ N ₄ boosts photocatalytic reduction of Cr(VI). <i>Green Energy and Environment</i> , 2022, 7, 66-74.	4.7	53
35	Thermally Conductive Anticorrosive Epoxy Nanocomposites with Tannic Acid-Modified Boron Nitride Nanosheets. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 20371-20381.	1.8	51
36	Achieving enhanced electromagnetic shielding and absorption capacity of cellulose-derived carbon aerogels via tuning the carbonization temperature. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5191-5201.	2.7	51

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37	Impedance response behavior and mechanism study of axon-like ionic conductive cellulose-based hydrogel strain sensor. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1812-1820.	9.9	50
38	Interfacial Engineering for High-Efficiency Nanorod Array-Structured Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33770-33780.	4.0	47
39	Hierarchical HCF@NC/Co Derived from Hollow Loofah Fiber Anchored with Metal-Organic Frameworks for Highly Efficient Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2038-2050.	4.0	44
40	Enhanced electron transfer and light absorption on imino polymer capped PdAg nanowire networks for efficient room-temperature dehydrogenation of formic acid. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1979-1984.	5.2	43
41	Chemical Synthesis of Magnetically Hard and Strong Rare Earth Metal Based Nanomagnets. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 602-606.	7.2	42
42	Surface Pd-rich PdAg nanowires as highly efficient catalysts for dehydrogenation of formic acid and subsequent hydrogenation of adiponitrile. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17323-17328.	5.2	41
43	High-density defects on PdAg nanowire networks as catalytic hot spots for efficient dehydrogenation of formic acid and reduction of nitrate. <i>Nanoscale</i> , 2017, 9, 9305-9309.	2.8	38
44	Amino-functionalized graphene oxide-supported networked Pd@Ag nanowires as highly efficient catalyst for reducing Cr(VI) in industrial effluent by formic acid. <i>Chemosphere</i> , 2020, 257, 127245.	4.2	38
45	Stabilizing Hard Magnetic SmCo ₅ Nanoparticles by N-Doped Graphitic Carbon Layer. <i>Journal of the American Chemical Society</i> , 2020, 142, 8440-8446.	6.6	37
46	Bifunctional networked Ag/AgPd core/shell nanowires for the highly efficient dehydrogenation of formic acid and subsequent reduction of nitrate and nitrite in water. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4611-4616.	5.2	35
47	Structure and magnetic properties of the porous Al-substituted barium hexaferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 528, 167824.	1.0	34
48	The Properties and Preparation Methods of Different Boron Nitride Nanostructures and Applications of Related Nanocomposites. <i>Chemical Record</i> , 2020, 20, 1314-1337.	2.9	32
49	Conductive polyaniline hydrogel enhanced methane production from anaerobic wastewater treatment. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 314-322.	5.0	31
50	FeCo alloy nanoparticle decorated cellulose based carbon aerogel as a low-cost and efficient electromagnetic microwave absorber. <i>Journal of Materials Chemistry C</i> , 2021, 10, 126-134.	2.7	30
51	One-pot formic acid dehydrogenation and synthesis of benzene-fused heterocycles over reusable AgPd/WO _{2.72} nanocatalyst. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23766-23772.	5.2	29
52	Enhanced dielectric properties of high glass transition temperature PDCPD/CNT composites by frontal ring-opening metathesis polymerization. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 639-646.	9.9	25
53	Room-temperature hydrogen spillover achieving stoichiometric hydrogenation of NO ₃ ⁻ and NO ₂ ⁻ into N ₂ over CuPd nanowire network. <i>Rare Metals</i> , 2022, 41, 851-858.	3.6	23
54	Magnetically recyclable Sm ₂ Co ₁₇ /Cu catalyst to chemoselectively reduce the 3-nitrostyrene into 3-vinylaniline under room temperature. <i>Nano Research</i> , 2019, 12, 3085-3088.	5.8	20

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55	Bi-doped graphitic carbon nitride nanotubes boost the photocatalytic degradation of Rhodamine B. <i>New Journal of Chemistry</i> , 2022, 46, 3588-3594.	1.4	20
56	Facile preparation of a cellulose derived carbon/BN composite aerogel for superior electromagnetic wave absorption. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5311-5320.	2.7	20
57	Size regulation and prediction of the SiO ₂ nanoparticles prepared via St�ber process. <i>Journal of Dispersion Science and Technology</i> , 2017, 38, 70-74.	1.3	19
58	Activating the MoS ₂ Basal Plane by Controllable Fabrication of Pores for an Enhanced Hydrogen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2018, 24, 19075-19080.	1.7	17
59	Linking melem with conjugated Schiff-base bonds to boost photocatalytic efficiency of carbon nitride for overall water splitting. <i>Nanoscale</i> , 2021, 13, 9315-9321.	2.8	17
60	One-pot In Situ Microwave Hydrothermally Grown Zeolitic Imidazolate Framework-8 on ZnIn-Layered Double Oxides toward Enhanced Methylene Blue Photodegradation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16637-16648.	1.8	11
61	Modulation of a solid-state reversible fluorescent photoswitching based on a controllable photochromic pyrazolones. <i>Journal of Solid State Chemistry</i> , 2014, 216, 73-78.	1.4	10
62	Chemical Synthesis of Magnetically Hard and Strong Rare Earth Metal Based Nanomagnets. <i>Angewandte Chemie</i> , 2019, 131, 612-616.	1.6	9
63	Regulating pH value synthesis of NiCo ₂ O ₄ with excellent electromagnetic wave absorbing performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 26059-26073.	1.1	9
64	Self-Assembled Bipolar Metals with Hollow Carbon Spheres for High-Performance Li�S Battery Cathodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 12745-12753.	2.5	9
65	Tunable temperature-resistivity behaviors of carbon black/polyamide 6 /high-density polyethylene composites with conductive electrospun PA6 fibrous network. <i>Journal of Composite Materials</i> , 2019, 53, 1897-1906.	1.2	8
66	Single-organic component g-C ₃ N ₄ achieves superior photoactivity antibacterial. <i>Chemical Engineering Journal</i> , 2022, 440, 135873.	6.6	8
67	A simple approach to porous low-temperature-sintering BaTiO ₃ . <i>Science China Chemistry</i> , 2012, 55, 1765-1769.	4.2	2
68	Fluorescence modulation of a pyrazolone dye in the solid state based on energy transfer. <i>New Journal of Chemistry</i> , 2015, 39, 9866-9871.	1.4	2