

Libin Liu

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.

60
papers

1,740
citations

20
h-index

41
g-index

64
ext. papers

2,156
ext. citations

6.2
avg, IF

5.31
L-index

#	Paper	IF	Citations
60	All-water-based superhydrophobic coating with reversible wettability for oil-water separation and wastewater purification. <i>Progress in Organic Coatings</i> , 2022 , 165, 106726	4.8	0
59	Antifreezing zwitterionic hydrogel electrolyte with high conductivity at subzero temperature for flexible sensor and supercapacitor. <i>Sustainable Materials and Technologies</i> , 2022 , 32, e00437	5.3	1
58	Electrolytes with Micelle-Assisted Formation of Directional Ion Transport Channels for Aqueous Rechargeable Batteries with Impressive Performance. <i>Nanomaterials</i> , 2022 , 12, 1920	5.4	0
57	Flame-Retardant, Highly Conductive, and Low-Temperature-Resistant Organic Gel Electrolyte for High-Performance All-Solid Supercapacitors. <i>ChemSusChem</i> , 2021 , 14, 2056-2066	8.3	1
56	Antifreezing Zwitterionic Hydrogel Electrolytes: Antifreezing Zwitterionic Hydrogel Electrolyte with High Conductivity of 12.6 mS cm ⁻¹ at 0°C through Hydrated Lithium Ion Hopping Migration (Adv. Funct. Mater. 18/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170121	15.6	1
55	Helical nanowires derived from self-assembled m-nitroaniline oligomers without any chiral reagents. <i>Colloid and Polymer Science</i> , 2021 , 299, 1499-1502	2.4	
54	Biomass-based superhydrophobic coating with tunable colors and excellent robustness. <i>Carbohydrate Polymers</i> , 2021 , 270, 118401	10.3	1
53	Strengthening gelatin hydrogels using the Hofmeister effect. <i>Soft Matter</i> , 2021 , 17, 1558-1565	3.6	2
52	Antifreezing Zwitterionic Hydrogel Electrolyte with High Conductivity of 12.6 mS cm ⁻¹ at 0°C through Hydrated Lithium Ion Hopping Migration. <i>Advanced Functional Materials</i> , 2021 , 31, 2009438	15.6	33
51	Structural Evolution of CuO-Derived Hybrids Comprised of Copper Cores, a Silica Interlayer, and Carbon as the Outlayer. <i>Inorganic Chemistry</i> , 2020 , 59, 9356-9363	5.1	13
50	Nanostructured MnO ₂ nanosheets grown on nickel foam: an efficient and readily recyclable 3D artificial oxidase for the colorimetric detection of ascorbic acid. <i>New Journal of Chemistry</i> , 2020 , 44, 11959-11964	3.6	11964
49	Versatile, mechanochemically robust, sprayed superomniphobic coating enabling low surface tension and high viscous organic liquid bouncing. <i>Chemical Engineering Journal</i> , 2020 , 402, 126160	14.7	13
48	Surface modification of carbon fibers with hydrophilic Fe ₃ O ₄ nanoparticles for nickel-based multifunctional composites. <i>Applied Surface Science</i> , 2020 , 509, 145348	6.7	62
47	Templated synthesis of nickel nanoparticles embedded in a carbon layer within silica capsules. <i>Dalton Transactions</i> , 2020 , 49, 2570-2577	4.3	5
46	Stretchable, compressible, self-healable carbon nanotube mechanically enhanced composite hydrogels with high strain sensitivity. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1933-1942	7.1	11
45	A novel TiO ₂ @stearic acid/chitosan coating with reversible wettability for controllable oil/water and emulsions separation. <i>Carbohydrate Polymers</i> , 2020 , 232, 115807	10.3	37
44	Fabrication of hierarchical Mn _x O _y @SiO ₂ @C-Ni nanowires for enhanced catalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 586, 124211	5.1	3

43	One step fabrication of graphene/polypyrrole/Ag composite electrode towards compressible supercapacitor. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153081	5.7	13
42	Carbon supported PdNi alloy nanoparticles on SiO ₂ nanocages with enhanced catalytic performance. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 3081-3091	6.8	46
41	Alkyl Chain Grafted-Reduced Graphene Oxide Membrane for Effective Separation of Water/Alcohol Miscible Mixtures. <i>Frontiers in Chemistry</i> , 2020 , 8, 598562	5	0
40	Fabrication of noble metal nanoparticles decorated on one dimensional hierarchical polypyrrole@MoS microtubes. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 7801-7811	7.3	16
39	A facile template method to fabricate strongly coupled 1D sandwich-like C@Fe ₃ O ₄ @C/Ni coaxial microtubes with enhanced catalytic performance. <i>CrystEngComm</i> , 2020 , 22, 5302-5309	3.3	4
38	A facile synthesis of one-dimensional hierarchical magnetic metal silicate microtubes with enhanced adsorption performance. <i>Dalton Transactions</i> , 2020 , 49, 11120-11128	4.3	5
37	Noble metal and Fe ₃ O ₄ Co-functionalized hierarchical polyaniline@MoS ₂ microtubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 605, 125347	5.1	5
36	Carbon-supported Ni and MoO ₂ nanoparticles with Fe ₃ O ₄ cores as a protein adsorbent. <i>New Journal of Chemistry</i> , 2020 , 44, 15396-15402	3.6	4
35	Fatigue-Resistant, Notch-Insensitive Zwitterionic Polymer Hydrogels with High Self-Healing Ability. <i>ChemPlusChem</i> , 2020 , 85, 2158-2165	2.8	1
34	One dimensional hierarchical nanoflakes with nickel-immobilization for high performance catalysis and histidine-rich protein adsorption. <i>Dalton Transactions</i> , 2019 , 48, 11308-11316	4.3	11
33	Deep insight into ionic transport in polyampholyte gel electrolytes towards high performance solid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16414-16424	13	12
32	A Tough Metal-Coordinated Elastomer: A Fatigue-Resistant, Notch-Insensitive Material with an Excellent Self-Healing Capacity. <i>ChemPlusChem</i> , 2019 , 84, 432-440	2.8	11
31	Space-confined pyrolysis for fabrication of peacods-like FeO@C-Ni nanostructures for catalysis and protein adsorption. <i>Nanotechnology</i> , 2019 , 30, 415602	3.4	7
30	Durable, water-cleanable, superhydrophilic coatings for oil/water separation under harsh conditions. <i>Journal of Saudi Chemical Society</i> , 2019 , 23, 1007-1015	4.3	6
29	Solution-processable, durable, scalable, fluorine-grafted graphene-based superhydrophobic coating for highly efficient oil/water separation under harsh environment. <i>New Journal of Chemistry</i> , 2018 , 42, 3819-3827	3.6	16
28	Enhanced electrochemical capacitance and oil-adsorbability of N-doped graphene aerogel by using amino-functionalized silica as template and doping agent. <i>Journal of Power Sources</i> , 2018 , 379, 240-248	8.9	25
27	Thermally sensitive, adhesive, injectable, multiwalled carbon nanotube covalently reinforced polymer conductors with self-healing capabilities. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1746-1752	7.1	26
26	Review of recent achievements in self-healing conductive materials and their applications. <i>Journal of Materials Science</i> , 2018 , 53, 27-46	4.3	120

25	Recent Achievements of Self-Healing Graphene/Polymer Composites. <i>Polymers</i> , 2018 , 10,	4.5	42
24	Tunable Wettability of Electrospun Polyurethane/Silica Composite Membranes for Effective Separation of Water-in-Oil and Oil-in-Water Emulsions. <i>Chemistry - A European Journal</i> , 2017 , 23, 11253-11260	4.8	42
23	Recent Progress of Polyurethane-Based Materials for Oil/Water Separation. <i>Nano</i> , 2017 , 12, 1730001	1.1	8
22	Tough, Stretchable, Compressive Novel Polymer/Graphene Oxide Nanocomposite Hydrogels with Excellent Self-Healing Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38052-38061	9.5	122
21	Recent Progress of Graphene-Containing Polymer Hydrogels: Preparations, Properties, and Applications. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700184	3.9	34
20	Compressible, amphiphilic graphene-based aerogel using a molecular glue to link graphene sheets and coated-polymer layers. <i>Materials and Design</i> , 2016 , 110, 839-848	8.1	13
19	In Situ and Ex Situ pH-Responsive Coatings with Switchable Wettability for Controllable Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31281-31288	9.5	104
18	Electrospun N-Substituted Polyurethane Membranes with Self-Healing Ability for Self-Cleaning and Oil/Water Separation. <i>Chemistry - A European Journal</i> , 2016 , 22, 878-83	4.8	66
17	One-step electrospinning of carbon nanoweb on metallic textiles for high-capacitance supercapacitor fabrics. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6802-6808	13	66
16	Effect of hard segment architecture on shape memory properties of polycaprolactone-based polyurethane containing azobenzene. <i>Journal of Materials Science</i> , 2016 , 51, 2727-2738	4.3	17
15	Environmentally friendly synthesis of graphene-silver composites with surface-enhanced Raman scattering and antibacterial activity via reduction with L-ascorbic acid/water vapor. <i>New Journal of Chemistry</i> , 2015 , 39, 5272-5281	3.6	32
14	Facile fabrication of multifunctional perfluoroalkyl functionalized graphene hydrogel via a synchronous reduction and grafting strategy. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21744-21753	13	11
13	Wearable energy-dense and power-dense supercapacitor yarns enabled by scalable graphene-metallic textile composite electrodes. <i>Nature Communications</i> , 2015 , 6, 7260	17.4	462
12	Novel polymer electrolytes based on cationic polyurethane with different alkyl chain length. <i>Journal of Power Sources</i> , 2014 , 249, 397-404	8.9	46
11	Stimuli-Responsive Films Based on N-Substituted Polyurethane with Different Alkyl Length. <i>Australian Journal of Chemistry</i> , 2013 , 66, 1361	1.2	1
10	Chiral assemblies of achiral rigid-flexible molecules at the air/water interface induced by silver(I) coordination. <i>ChemPhysChem</i> , 2012 , 13, 578-82	3.2	4
9	Langmuir-Blodgett assembly of bent-shaped rigid amphiphiles into spiral rings. <i>Soft Matter</i> , 2011 , 7, 91-95	3.6	11
8	Supramolecular honeycomb and columnar assemblies formed by self-assembly of coil-rod-coil molecules with a conjugated rod segment. <i>Macromolecular Research</i> , 2010 , 18, 800-805	1.9	12

7	Mesoscale surface patterning of a laterally-grafted rod amphiphile: rings and fibers. <i>ChemPhysChem</i> , 2010 , 11, 706-12	3.2	4
6	Chiral assembly from achiral rod-coil molecules triggered by compression at the air-water interface. <i>Langmuir</i> , 2009 , 25, 5061-7	4	35
5	Molecular reorganization of paired assemblies of T-shaped rod-coil amphiphilic molecule at the air-water interface. <i>Langmuir</i> , 2008 , 24, 3930-6	4	22
4	Toroid morphology by ABC-type amphiphilic rod-coil molecules at the air-water interface. <i>Langmuir</i> , 2008 , 24, 12340-6	4	20
3	Interfacial organization of Y-shaped rod-coil molecules packed into cylindrical nanoarchitectures. <i>ChemPhysChem</i> , 2008 , 9, 1585-92	3.2	8
2	Multiple Morphologies and Their Transformation of a Polystyrene-block-poly(4-vinylpyridine) Block Copolymer. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 260-265	4.8	25
1	Complex aggregates of spherical colloids via modified micromolding in capillaries. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 278, 144-148	5.1	7