

Qinglei Liu

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90
papers

3,394
citations

33
h-index

56
g-index

93
ext. papers

4,297
ext. citations

9.3
avg, IF

5.48
L-index

#	Paper	IF	Citations
90	Fluorine-Free Synthesis of High-Purity Ti C T (T=OH, O) via Alkali Treatment. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6115-6119	16.4	387
89	"Egg-Box"-Assisted Fabrication of Porous Carbon with Small Mesopores for High-Rate Electric Double Layer Capacitors. <i>ACS Nano</i> , 2015 , 9, 11225-33	16.7	242
88	Electromagnetic wave absorption properties of porous carbon/Co nanocomposites. <i>Applied Physics Letters</i> , 2008 , 93, 013110	3.4	241
87	Hierarchical Porous Carbonized Lotus Seedpods for Highly Efficient Solar Steam Generation. <i>Chemistry of Materials</i> , 2018 , 30, 6217-6221	9.6	126
86	Carbon-coated SnO ₂ @C with hierarchically porous structures and graphite layers inside for a high-performance lithium-ion battery. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2766-2773		117
85	High-Density Hotspots Engineered by Naturally Piled-Up Subwavelength Structures in Three-Dimensional Copper Butterfly Wing Scales for Surface-Enhanced Raman Scattering Detection. <i>Advanced Functional Materials</i> , 2012 , 22, 1578-1585	15.6	103
84	Simultaneously achieving thermal insulation and rapid water transport in sugarcane stems for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9034-9039	13	102
83	Ag/diatomite for highly efficient solar vapor generation under one-sun irradiation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17817-17821	13	101
82	Highly porous graphitic materials prepared by catalytic graphitization. <i>Carbon</i> , 2013 , 64, 132-140	10.4	92
81	3D-Structured Carbonized Sunflower Heads for Improved Energy Efficiency in Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2171-2179	9.5	85
80	Quantum Dots of 1T Phase Transitional Metal Dichalcogenides Generated via Electrochemical Li Intercalation. <i>ACS Nano</i> , 2018 , 12, 308-316	16.7	80
79	Crosslinking-derived MnO/carbon hybrid with ultrasmall nanoparticles for increasing lithium storage capacity during cycling. <i>Carbon</i> , 2016 , 99, 138-147	10.4	71
78	Morphology genetic materials templated from natural species. <i>Advanced Materials</i> , 2015 , 27, 464-78	24	63
77	High permittivity and microwave absorption of porous graphitic carbons encapsulating Fe nanoparticles. <i>Composites Science and Technology</i> , 2012 , 72, 1632-1636	8.6	61
76	Inspiration from butterfly and moth wing scales: Characterization, modeling, and fabrication. <i>Progress in Materials Science</i> , 2015 , 68, 67-96	42.2	59
75	Biomorphic porous graphitic carbon for electromagnetic interference shielding. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21183		59
74	Highly defective 1T-MoS ₂ nanosheets on 3D reduced graphene oxide networks for supercapacitors. <i>Carbon</i> , 2019 , 152, 697-703	10.4	54

73	Optical Functional Materials Inspired by Biology. <i>Advanced Optical Materials</i> , 2016 , 4, 195-224	8.1	54
72	Facile Self-Cross-Linking Synthesis of 3D Nanoporous Co ₃ O ₄ /Carbon Hybrid Electrode Materials for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16035-44	9.5	53
71	Fluorine-free Ti ₃ C ₂ T _x (T = O, OH) nanosheets (~50-100 nm) for nitrogen fixation under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14462-14465	13	50
70	Spontaneous Cross-linking for Fabrication of Nanohybrids Embedded with Size-Controllable Particles. <i>ACS Nano</i> , 2016 , 10, 889-98	16.7	50
69	Amorphous carbon-matrix composites with interconnected carbon nano-ribbon networks for electromagnetic interference shielding. <i>Carbon</i> , 2008 , 46, 461-465	10.4	49
68	Achieving Rich and Active Alkaline Hydrogen Evolution Heterostructures via Interface Engineering on 2D 1T-MoS ₂ Quantum Sheets. <i>Advanced Functional Materials</i> , 2020 , 30, 2000551	15.6	46
67	A facile low-temperature synthesis of highly distributed and size-tunable cobalt oxide nanoparticles anchored on activated carbon for supercapacitors. <i>Journal of Power Sources</i> , 2015 , 273, 945-953	8.9	45
66	Single porous SnO ₂ microtubes templated from <i>Papilio maackii</i> bristles: new structure towards superior gas sensing. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4543-4550	13	43
65	Highly sensitive, reproducible and uniform SERS substrates with a high density of three-dimensionally distributed hotspots: gyroid-structured Au periodic metallic materials. <i>NPG Asia Materials</i> , 2018 , 10, e462-e462	10.3	40
64	Morphological effects on surface-enhanced Raman scattering from silver butterfly wing scales synthesized via photoreduction. <i>Langmuir</i> , 2011 , 27, 11742-6	4	39
63	A Scalable Nickel-Cellulose Hybrid Metamaterial with Broadband Light Absorption for Efficient Solar Distillation. <i>Advanced Materials</i> , 2020 , 32, e1907975	24	36
62	Ultralight, flexible carbon hybrid aerogels from bacterial cellulose for strong microwave absorption. <i>Carbon</i> , 2020 , 162, 283-291	10.4	36
61	Light-Driven Overall Water Splitting Enabled by a Photo-Dember Effect Realized on 3D Plasmonic Structures. <i>ACS Nano</i> , 2016 , 10, 6693-701	16.7	34
60	N-doped catalytic graphitized hard carbon for high-performance lithium/sodium-ion batteries. <i>Scientific Reports</i> , 2018 , 8, 9934	4.9	34
59	A 3D hierarchical hybrid nanostructure of carbon nanotubes and activated carbon for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3505	13	33
58	Metal-organic frameworks reactivate deceased diatoms to be efficient CO ₂ absorbents. <i>Advanced Materials</i> , 2014 , 26, 1229-34	24	33
57	ZnO single butterfly wing scales: synthesis and spatial optical anisotropy. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6140		33
56	Tumor marker detection using surface enhanced Raman spectroscopy on 3D Au butterfly wings. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1594-1600	7.3	32

55	Three-Dimensional CdS/Au Butterfly Wing Scales with Hierarchical Rib Structures for Plasmon-Enhanced Photocatalytic Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19649-19655	9.5	32
54	Microwave-assisted anchoring of flowerlike Co(OH) ₂ nanosheets on activated carbon to prepare hybrid electrodes for high-rate electrochemical capacitors. <i>Electrochimica Acta</i> , 2015 , 170, 328-336	6.7	29
53	Freeze-drying assisted synthesis of hierarchical porous carbons for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21016-21022	13	28
52	Surface plasmon resonance of gold nanocrystals coupled with slow-photon-effect of biomorphic TiO ₂ photonic crystals for enhanced photocatalysis under visible-light. <i>Catalysis Today</i> , 2016 , 274, 15-21	5.3	25
51	Fe/N-Codoped Hollow Carbonaceous Nanospheres Anchored on Reduced Graphene Oxide for Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2019 , 2, 8063-8074	5.6	25
50	In situ synthesis of BiOCl nanosheets on three-dimensional hierarchical structures for efficient photocatalysis under visible light. <i>Nanoscale</i> , 2019 , 11, 10203-10208	7.7	23
49	Tunable three-dimensional ZrO ₂ photonic crystals replicated from single butterfly wing scales. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15237		23
48	Photocatalyst of organic pollutants decomposition: TiO ₂ /glass fiber cloth composites. <i>Catalysis Today</i> , 2016 , 274, 2-7	5.3	23
47	Surface-Carbonized Bamboos with Multilevel Functional Biostructures Deliver High Photothermal Water Evaporation Performance. <i>Advanced Sustainable Systems</i> , 2020 , 4, 2000126	5.9	22
46	Fluorine-free Ti ₃ C ₂ T _x as anode materials for Li-ion batteries. <i>Electrochemistry Communications</i> , 2019 , 104, 106472	5.1	21
45	Facile green synthesis of 3D nano-pyramids Cu/Carbon hybrid sensor electrode materials for simultaneous monitoring of phenolic compounds. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 617-625	8.5	21
44	Omnidirectional light absorption of disordered nano-hole structure inspired from <i>Papilio ulysses</i> . <i>Optics Letters</i> , 2014 , 39, 4208-11	3	19
43	Self-crosslink assisted synthesis of 3D porous branch-like Fe ₃ O ₄ /C hybrids for high-performance lithium/sodium-ion batteries. <i>RSC Advances</i> , 2017 , 7, 50307-50316	3.7	19
42	Design of a structure with low incident and viewing angle dependence inspired by Morpho butterflies. <i>Scientific Reports</i> , 2013 , 3, 3427	4.9	18
41	Tunable optical photonic devices made from moth wing scales: a way to enlarge natural functional structures. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13913		18
40	Fabrication and structural of gold/cerium nanoparticles on tin disulfide nanostructures and decorated on hyperbranched polyethyleneimine for photocatalysis, reduction, hydrogen production and antifungal activities. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 416, 113316	4.7	16
39	Superior photothermal black TiO ₂ with random size distribution as flexible film for efficient solar steam generation. <i>Applied Materials Today</i> , 2020 , 20, 100669	6.6	15
38	Conjugated Acetylenic Polymers Grafted Cuprous Oxide as an Efficient Z-Scheme Heterojunction for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2020 , 32, e2002486	24	15

37	Micron-sized encapsulated-type MoS ₂ /C hybrid particulates with an effective confinement effect for improving the cycling performance of LIB anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6289-6298	13	14
36	Large-visual-angle microstructure inspired from quantitative design of Morpho butterflies Ramellae deviation using the FDTD/PSO method. <i>Optics Letters</i> , 2013 , 38, 169-71	3	14
35	Redox-Active Metaphosphate-like Terminals Enable High-Capacity MXene Anodes for Ultrafast Na-ion Storage.. <i>Advanced Materials</i> , 2022 , e2108682	24	14
34	Fabrication of Fe-wings used for micro imprinting with a natural butterfly wing structure by in situ carbothermic reduction. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1673-1677	7.3	13
33	Enhanced photocatalytic hydrogen production on three-dimensional gold butterfly wing scales/CdS nanoparticles. <i>Applied Surface Science</i> , 2018 , 427, 807-812	6.7	12
32	Novel 0D/1D ZnBi ₂ O ₄ /ZnO S-scheme photocatalyst for hydrogen production and BPA removal. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 24094-24106	6.7	11
31	Co-doping silver and iron on graphitic carbon nitride-carrageenan nanocomposite for the photocatalytic process, rapidly colorimetric detection and antibacterial properties. <i>Surfaces and Interfaces</i> , 2021 , 26, 101279	4.1	11
30	Assessment of silver doped cobalt titanate supported on chitosan-amylopectin nanocomposites in the photocatalysis performance under sunlight irradiation, and antimicrobial activity. <i>Surfaces and Interfaces</i> , 2021 , 25, 101191	4.1	10
29	Bio-Inspired Functional Materials Templated From Nature Materials. <i>KONA Powder and Particle Journal</i> , 2010 , 28, 116-130	3.4	9
28	Butterfly wing architectures inspire sensor and energy applications. <i>National Science Review</i> , 2021 , 8, nwa107	10.8	9
27	Large-Area 3D Hierarchical Superstructures Assembled from Colloidal Nanoparticles. <i>Small</i> , 2019 , 15, e1805308	11	8
26	Electromagnetic shielding capacity of carbon matrix composites made from nickel-loaded black rice husk. <i>Journal of Materials Science</i> , 2004 , 39, 6209-6214	4.3	8
25	Novel flake-like Z-Scheme Bi ₂ WO ₆ -ZnBi ₂ O ₄ heterostructure prepared by sonochemical assisted hydrothermal procedures with enhanced visible-light photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160895	5.7	8
24	Preparation of Sn/Fe nanoparticles for Cr (III) detection in presence of leucine, photocatalytic and antibacterial activities. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 253, 119592	4.4	7
23	One-Pot Hydrothermal Synthesis of Ternary 1T-MoS ₂ /Hexa-WO ₃ /Graphene Composites for High-Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2019 , 25, 16054	4.8	6
22	Two-dimensional quantum-sheet films with sub-1.2 nm channels for ultrahigh-rate electrochemical capacitance. <i>Nature Nanotechnology</i> , 2021 ,	28.7	6
21	One-step sonochemical fabrication of biomass-derived porous hard carbons; towards tuned-surface anodes of sodium-ion batteries.. <i>Journal of Colloid and Interface Science</i> , 2021 , 611, 578-587	9.3	6
20	Hierarchical few-layer fluorine-free Ti ₃ C ₂ TX (T = O, OH)/MoS ₂ hybrid for efficient electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 922-927	13	6

19	Electrochemical determination of urinary dopamine from neuroblastoma patients based on Cu nanoplates encapsulated by alginate-derived carbon. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 853, 113560	4.1	5
18	Fabrication of 3D carbon nanotube/porous carbon hybrid materials. <i>Journal of Materials Science</i> , 2014 , 49, 548-557	4.3	5
17	First principles study of Ir ₃ Ru, IrRu and IrRu ₃ catalysts for hydrogen oxidation reaction: Effect of surface modification and ruthenium content. <i>Applied Surface Science</i> , 2021 , 545, 149002	6.7	5
16	Biotemplated g-CN/Au Periodic Hierarchical Structures for the Enhancement of Photocatalytic CO Reduction with Localized Surface Plasmon Resonance. <i>ACS Applied Materials & Interfaces</i> , 2021 , ,	9.5	5
15	Biocompatible, small-sized and well-dispersed gold nanoparticles regulated by silk fibroin fiber from Bombyx mori cocoons. <i>Frontiers of Materials Science</i> , 2019 , 13, 126-132	2.5	4
14	Photonic structure arrays generated using butterfly wing scales as biological units. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 1743-1747	7.3	4
13	Novel S-scheme WO ₃ /CeO ₂ heterojunction with enhanced photocatalytic degradation of sulfamerazine under visible light irradiation. <i>Applied Surface Science</i> , 2021 , 568, 150957	6.7	4
12	Bio-templated germanium photonic crystals by a facile liquid phase deposition process. <i>RSC Advances</i> , 2016 , 6, 73156-73159	3.7	3
11	Ag doped SnO nanostructure and immobilized on hyperbranched polypyrrole for visible light sensitized photocatalytic, antibacterial agent and microbial detection process.. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022 , 228, 112393	6.7	2
10	A bioinspired solar evaporator for continuous and efficient desalination by salt dilution and secretion. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17985-17993	13	2
9	Hydrogen Production as a Clean Energy Carrier through Heterojunction Semiconductors for Environmental Remediation. <i>Energies</i> , 2022 , 15, 3222	3.1	2
8	Pt-decorated fluorine-free Ti ₃ C ₂ TX for hydrogen evolution reaction. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 11345-11351	2.1	1
7	Bioinspired multilevel interconnected networks with porous multiwalled nanotubes built by heterogeneous nanocrystallites. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 604-613	3.8	1
6	In Situ IonExchange Synthesis of Fe ₃ O ₄ Nanosheets with 3D Hierarchically Porous Carbon Frameworks for High-Performance Energy Storage. <i>Energy Technology</i> , 2200207	3.5	0
5	3D Assembly: Large-Area 3D Hierarchical Superstructures Assembled from Colloidal Nanoparticles (Small 18/2019). <i>Small</i> , 2019 , 15, 1970096	11	
4	Morph-Genetic Composites. <i>Advanced Topics in Science and Technology in China</i> , 2012 , 193-245	0.2	
3	All alginate-derived high-performance T-NbO/C//seaweed carbon Li-ion capacitors.. <i>RSC Advances</i> , 2022 , 12, 5743-5748	3.7	
2	Synthesis of hydrous RuO ₂ anchored on seaweed-derived porous carbon for high-performance electrochemical capacitors. <i>Materials Letters</i> , 2022 , 318, 132182	3.3	

- 1 Boosting Oxygen Electrocatalysis by Combining Iron Nanoparticles with Single Atoms. *Catalysts*, **2022**, 12, 585 4