

# Luhua Lu

## List of Publications by Year in descending order

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89  
papers

4,591  
citations

94433

37  
h-index

102487

66  
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90  
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90  
docs citations

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times ranked

7273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterostructure nanocomposite with local surface plasmon resonance effect enhanced photocatalytic activity—a critical review. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 043002.	2.8	13
2	Constructing two dimensional composite nanosheets with montmorillonite and graphene-like carbon: Towards high-rate-performance PVA based gel polymer electrolytes for quasi-solid-state supercapacitors. <i>Materials Chemistry and Physics</i> , 2022, 287, 126333.	4.0	4
3	Montmorillonite as the multifunctional reagent for preparing reduced graphene oxide and its improved supercapacitive performance. <i>Applied Clay Science</i> , 2021, 200, 105821.	5.2	3
4	Nitrogen-doped graphene/graphitic carbon nitride with enhanced charge separation and two-electron-transferring reaction activity for boosting photocatalytic hydrogen peroxide production. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1511-1520.	4.9	13
5	Dual-Responsive Soft Actuators with Integrated Sensing Function Based on 1T-MoS <sub>2</sub> Composite. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000240.	6.1	15
6	Carbon nitride derived carbon and nitrogen Co-doped CdS for stable photocatalytic hydrogen evolution. <i>Surfaces and Interfaces</i> , 2021, 25, 101262.	3.0	11
7	Comparative tribological behavior of friction composites containing natural graphite and expanded graphite. <i>Friction</i> , 2020, 8, 684-694.	6.4	18
8	3D printing-based cellular microelectrodes for high-performance asymmetric quasi-solid-state micro-pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1749-1756.	10.3	35
9	Boosting electrocatalytic oxygen evolution using ultrathin carbon protected iron-cobalt carbonate hydroxide nanoneedle arrays. <i>Journal of Power Sources</i> , 2020, 450, 227639.	7.8	23
10	Carbon nanotube exfoliated porous reduced graphene oxide/CdS- diethylenetriamine heterojunction for efficient photocatalytic H <sub>2</sub> production. <i>Applied Surface Science</i> , 2020, 512, 144783.	6.1	26
11	Effect of CaO and CeO <sub>2</sub> co-doping on thermo-physical properties of La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> . <i>Journal of Asian Ceramic Societies</i> , 2020, 8, 1010-1017.	2.3	3
12	Nitrogen-doped Graphene Chainmail Wrapped IrCo Alloy Particles on Nitrogen-doped Graphene Nanosheet for Highly Active and Stable Full Water Splitting. <i>ChemCatChem</i> , 2019, 11, 5457-5465.	3.7	20
13	Graphene edge-enhanced anchoring of the well-exposed cobalt clusters via strong chemical bonding for accelerating the oxygen reduction reaction. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2859-2866.	4.9	6
14	Inorganic-organic CdSe-diethylenetriamine nanobelts for enhanced visible photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 166-173.	9.4	44
15	Commercial-Level Energy Storage via Free-Standing Stacking Electrodes. <i>Matter</i> , 2019, 1, 1694-1709.	10.0	19
16	Revealing important role of graphitic carbon nitride surface catalytic activity in photocatalytic hydrogen evolution by using different carbon co-catalysts. <i>Applied Surface Science</i> , 2019, 491, 236-244.	6.1	14
17	Preparation of Z-scheme WO <sub>3</sub> (H <sub>2</sub> O) <sub>0.333</sub> /Ag <sub>3</sub> PO <sub>4</sub> composites with enhanced photocatalytic activity and durability. <i>Chinese Journal of Catalysis</i> , 2019, 40, 326-334.	14.0	55
18	Biological Visual Detection for Advanced Photocatalytic Oxidation toward Pesticide Detoxification. <i>ACS Omega</i> , 2019, 4, 19655-19663.	3.5	4

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19	Pseudocapacitive Co <sub>9</sub> S <sub>8</sub> /graphene electrode for high-rate hybrid supercapacitors. <i>Carbon</i> , 2019, 141, 134-142.	10.3	110
20	Rapid adsorption of cationic dye-methylene blue on the modified montmorillonite/graphene oxide composites. <i>Applied Clay Science</i> , 2019, 168, 304-311.	5.2	67
21	Construction of defective Mo <sub>15</sub> S <sub>19</sub> /CdS-diethylenetriamine heterostructure photocatalyst for highly active and stable noble-metal-free photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2019, 469, 505-513.	6.1	37
22	Biomass chitosan derived cobalt/nitrogen doped carbon nanotubes for the electrocatalytic oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5740-5745.	10.3	113
23	Porous carbon nitride with defect mediated interfacial oxidation for improving visible light photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 384-390.	20.2	62
24	Tuning active sites on cobalt/nitrogen doped graphene for electrocatalytic hydrogen and oxygen evolution. <i>Electrochimica Acta</i> , 2018, 265, 497-506.	5.2	56
25	A green method to reduce graphene oxide with carbonyl groups residual for enhanced electrochemical performance. <i>Carbon</i> , 2018, 133, 101-108.	10.3	25
26	Natural nanomaterial as hard template for scalable synthesizing holey carbon nanosheet/nanotube with in-plane and out-of-plane pores for electrochemical energy storage. <i>Chinese Chemical Letters</i> , 2018, 29, 641-644.	9.0	4
27	Boosting visible light photocatalytic hydrogen evolution of graphitic carbon nitride via enhancing its interfacial redox activity with cobalt/nitrogen doped tubular graphitic carbon. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 512-518.	20.2	65
28	Sustainable synthesis of CeO <sub>2</sub> /CdS-diethylenetriamine composites for enhanced photocatalytic hydrogen evolution under visible light. <i>Journal of Alloys and Compounds</i> , 2018, 758, 162-170.	5.5	54
29	Manipulation structure of carbon nitride via trace level iron with improved interfacial redox activity and charge separation for synthetic enhancing photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2018, 456, 609-614.	6.1	13
30	Recent progress on band and surface engineering of graphitic carbon nitride for artificial photosynthesis. <i>Applied Surface Science</i> , 2018, 462, 693-712.	6.1	51
31	Non-equilibrium microstructure of Li <sub>1.4</sub> Al <sub>0.4</sub> Ti <sub>1.6</sub> (PO <sub>4</sub> ) <sub>3</sub> superionic conductor by spark plasma sintering for enhanced ionic conductivity. <i>Nano Energy</i> , 2018, 51, 19-25.	16.0	24
32	In situ controllable synthesis of novel surface plasmon resonance-enhanced Ag <sub>2</sub> WO <sub>4</sub> /Ag/Bi <sub>2</sub> MoO <sub>6</sub> composite for enhanced and stable visible light photocatalyst. <i>Applied Surface Science</i> , 2017, 391, 507-515.	6.1	123
33	Graphitic carbon nitride nanosheet for photocatalytic hydrogen production: The impact of morphology and element composition. <i>Applied Surface Science</i> , 2017, 391, 369-375.	6.1	88
34	Residual oxygen groups in nitrogen-doped graphene to enhance the capacitive performance. <i>RSC Advances</i> , 2017, 7, 15293-15301.	3.6	22
35	Morphology dependent adsorption of methylene blue on trititanate nanoplates and nanotubes prepared by the hydrothermal treatment of TiO <sub>2</sub> . <i>Water Science and Technology</i> , 2017, 75, 350-357.	2.5	1
36	Multi-walled carbon nanotube supported CdS-DETA nanocomposite for efficient visible light photocatalysis. <i>Materials Chemistry and Physics</i> , 2017, 186, 372-381.	4.0	39

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37	Cu/Ag/Ag <sub>3</sub> PO <sub>4</sub> ternary composite: A hybrid alloy-semiconductor heterojunction structure with visible light photocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2016, 682, 778-784.	5.5	27
38	Phosphoric acid-assisted synthesis of layered MoS <sub>2</sub> /graphene hybrids with electrolyte-dependent supercapacitive behaviors. <i>RSC Advances</i> , 2016, 6, 89397-89406.	3.6	12
39	Buffering agents-assisted synthesis of nitrogen-doped graphene with oxygen-rich functional groups for enhanced electrochemical performance. <i>Journal of Power Sources</i> , 2016, 333, 125-133.	7.8	31
40	Impact of size on energy storage performance of graphene based supercapacitor electrode. <i>Electrochimica Acta</i> , 2016, 219, 463-469.	5.2	32
41	Carbon Nitride Supramolecular Hybrid Material Enabled High-Efficiency Photocatalytic Water Treatments. <i>Nano Letters</i> , 2016, 16, 6568-6575.	9.1	108
42	Highly defective graphite for scalable synthesis of nitrogen doped holey graphene with high volumetric capacitance. <i>Journal of Power Sources</i> , 2016, 334, 104-111.	7.8	30
43	A facile fabrication of plasmonic g-C <sub>3</sub> N <sub>4</sub> /Ag <sub>2</sub> WO <sub>4</sub> /Ag ternary heterojunction visible-light photocatalyst. <i>Materials Chemistry and Physics</i> , 2016, 177, 529-537.	4.0	75
44	Large-scale synthesis of cobalt sulfide/carbon nanotube hybrid and its excellent electrochemical capacitance performance. <i>Materials Letters</i> , 2016, 176, 42-45.	2.6	21
45	Hydrothermal synthesis of layered molybdenum sulfide/N-doped graphene hybrid with enhanced supercapacitor performance. <i>Carbon</i> , 2016, 99, 35-42.	10.3	183
46	Large scale and facile synthesis of novel Z-scheme Bi <sub>2</sub> MoO <sub>6</sub> /Ag <sub>3</sub> PO <sub>4</sub> composite for enhanced visible light photocatalyst. <i>Materials Letters</i> , 2016, 169, 250-253.	2.6	36
47	A Graphene-like Oxygenated Carbon Nitride Material for Improved Cycle-Life Lithium/Sulfur Batteries. <i>Nano Letters</i> , 2015, 15, 5137-5142.	9.1	358
48	Facile and large scale synthesis of novel Cu <sub>2</sub> O octahedral crystals with efficient visible light photocatalytic activity. <i>Materials Letters</i> , 2015, 150, 48-51.	2.6	23
49	A high efficient graphitic-C <sub>3</sub> N <sub>4</sub> /BiOI/graphene oxide ternary nanocomposite heterostructured photocatalyst with graphene oxide as electron transport buffer material. <i>Dalton Transactions</i> , 2015, 44, 7903-7910.	3.3	149
50	Advance ternary surface-fluorinated TiO <sub>2</sub> nanosheet/Ag <sub>3</sub> PO <sub>4</sub> /Ag composite photocatalyst with planar heterojunction and island Ag electron capture center. <i>RSC Advances</i> , 2014, 4, 62751-62758.	3.6	13
51	A scalable synthesis technique of hierarchical BiOBr microspheres for advanced visible light photocatalyst. <i>Materials Letters</i> , 2014, 136, 438-440.	2.6	13
52	Synthesis of micro-nano heterostructure AgBr/ZnO composite for advanced visible light photocatalysis. <i>Materials Letters</i> , 2014, 130, 5-8.	2.6	48
53	High-yield synthesis of carbon nanotube-porous nickel oxide nanosheet hybrid and its electrochemical capacitance performance. <i>Materials Chemistry and Physics</i> , 2014, 143, 1344-1351.	4.0	27
54	The stabilization effect of surface capping on photocatalytic activity and recyclable stability of Ag <sub>3</sub> PO <sub>4</sub> . <i>Catalysis Communications</i> , 2014, 46, 138-141.	3.3	21

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55	In situ assembly of MnO <sub>2</sub> nanowires/graphene oxide nanosheets composite with high specific capacitance. <i>Electrochimica Acta</i> , 2014, 116, 111-117.	5.2	95
56	Enhanced electrochemical energy storage performance of reduced graphene oxide by incorporating oxygen-rich in-plane pores. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1802-1808.	10.3	18
57	Graphene oxide capturing surface-fluorinated TiO <sub>2</sub> nanosheets for advanced photocatalysis and the reveal of synergism reinforce mechanism. <i>Dalton Transactions</i> , 2014, 43, 2202-2210.	3.3	66
58	Facile synthesis of a reduced graphene oxide/cobalt sulfide hybrid and its electrochemical capacitance performance. <i>RSC Advances</i> , 2014, 4, 29216-29222.	3.6	37
59	Heterojunction of facet coupled g-C <sub>3</sub> N <sub>4</sub> /surface-fluorinated TiO <sub>2</sub> nanosheets for organic pollutants degradation under visible LED light irradiation. <i>Applied Catalysis B: Environmental</i> , 2014, 156-157, 331-340.	20.2	316
60	Plasmonic TiO <sub>2</sub> /AgBr/Ag ternary composite nanosphere with heterojunction structure for advanced visible light photocatalyst. <i>Applied Surface Science</i> , 2014, 314, 864-871.	6.1	44
61	A facile surfactant-free method to prepare Ti <sub>0.95</sub> Er <sub>0.05</sub> O <sub>2</sub> nanocrystal and its photocatalytic performance. <i>Catalysis Communications</i> , 2014, 43, 202-206.	3.3	9
62	Graphene oxide modified ZnO nanorods hybrid with high reusable photocatalytic activity under UV-LED irradiation. <i>Materials Chemistry and Physics</i> , 2014, 143, 1410-1416.	4.0	60
63	Sonication assisted preparation of graphene oxide/graphitic-C <sub>3</sub> N <sub>4</sub> nanosheet hybrid with reinforced photocurrent for photocatalyst applications. <i>Dalton Transactions</i> , 2014, 43, 6295.	3.3	178
64	Development of UV-LED/TiO <sub>2</sub> Device and Their Application for Photocatalytic Degradation of Methylene Blue. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 1035-1040.	2.5	45
65	Superhydrophilic zinc oxide film prepared by controlling ZnO microrods growth and its attractive recyclable photocatalytic performance. <i>Thin Solid Films</i> , 2013, 539, 23-28.	1.8	6
66	Taking the place of perylene diimide: perylene tetracarboxylic tetraester as a building block for polymeric acceptors to achieve higher open circuit voltage in all-polymer bulk heterojunction solar cells. <i>Polymer Chemistry</i> , 2013, 4, 5612.	3.9	52
67	Facile synthesis of a surface plasmon resonance-enhanced Ag/AgBr heterostructure and its photocatalytic performance with 450 nm LED illumination. <i>Dalton Transactions</i> , 2013, 42, 4657.	3.3	64
68	Graphene-stabilized Silver Nanoparticle Electrochemical Electrode for Actuator Design. <i>Advanced Materials</i> , 2013, 25, 1270-1274.	21.0	130
69	Tuning optical and electronic properties of star-shaped conjugated molecules with enlarged $\pi$ -delocalization for organic solar cell application. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8270.	10.3	45
70	Mass Production and Reusable Photocatalytic Activity of ZnS Microspheres. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 204-208.	0.4	0
71	Large volume variation of an anisotropic graphene nanosheet electrochemical "mechanical actuator under low voltage stimulation. <i>Chemical Communications</i> , 2012, 48, 3978.	4.1	43
72	A scalable synthesis technique of novel AgBr microcrystal and its visible light photocatalytic performance. <i>Materials Letters</i> , 2012, 87, 94-96.	2.6	18

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73	Actuators: Highly Stable Air Working Bimorph Actuator Based on a Graphene Nanosheet/Carbon Nanotube Hybrid Electrode (Adv. Mater. 31/2012). Advanced Materials, 2012, 24, 4222-4222.	21.0	0
74	Direct growth of size-controlled gold nanoparticles on reduced graphene oxide film from bulk gold by tuning electric field: effective methodology and substrate for surface enhanced Raman scattering study. Journal of Materials Chemistry, 2012, 22, 11994.	6.7	34
75	Self-regenerated solar-driven photocatalytic water-splitting by urea derived graphitic carbon nitride with platinum nanoparticles. Chemical Communications, 2012, 48, 8826.	4.1	244
76	Highly Stable Air Working Bimorph Actuator Based on a Graphene Nanosheet/Carbon Nanotube Hybrid Electrode. Advanced Materials, 2012, 24, 4317-4321.	21.0	125
77	Dopamine-Modified Trititanate Nanotubes with UV- and Visible-Light Photocatalytic Activity: Coordinative Self-Assembly into a Recyclable Absorber. ChemCatChem, 2012, 4, 1133-1138.	3.7	11
78	Large scale preparing carbon nanotube/zinc oxide hybrid and its application for highly reusable photocatalyst. Chemical Engineering Journal, 2012, 191, 571-578.	12.7	127
79	Ring formation mechanism of single-walled carbon nanotubes: Energy conservation between curvature elasticity and inter-tube adhesion. Chemical Physics, 2012, 393, 123-128.	1.9	4
80	Facile preparation and growth mechanism of zinc oxide nanopencils. Materials Letters, 2012, 67, 193-195.	2.6	12
81	Easy and Large Scale Synthesis Silver Nanodendrites: Highly Effective Filler for Isotropic Conductive Adhesives. Journal of Materials Engineering and Performance, 2012, 21, 353-357.	2.5	7
82	Bending Deformation Mechanism and Defective Properties of Liquid Crystalline Carbon Nanotubes in Evaporating Droplets. RSC Advances, 2011, 1, 468.	3.6	5
83	Supramolecular self-assembly of biopolymers with carbon nanotubes for biomimetic and bio-inspired sensing and actuation. Nanoscale, 2011, 3, 2412.	5.6	26
84	Biocompatible Composite Actuator: A Supramolecular Structure Consisting of the Biopolymer Chitosan, Carbon Nanotubes, and an Ionic Liquid. Advanced Materials, 2010, 22, 3745-3748.	21.0	114
85	Bionic nanocomposite actuator based on carbon nanotube and ionic biopolymer. , 2010, , .		0
86	Large-Scale Aligned Carbon Nanotubes from Their Purified, Highly Concentrated Suspension. ACS Nano, 2010, 4, 1042-1048.	14.6	70
87	Electromechanical Actuation with Controllable Motion Based on a Single-Walled Carbon Nanotube and Natural Biopolymer Composite. ACS Nano, 2010, 4, 3498-3502.	14.6	98
88	Carbon Nanotubes Engineering Assisted by Natural Biopolymers. , 0, , .		0
89	A Cost-Effective Iron Based COF and Its Composite Electrocatalyst for Active and Stable Oxygen Reduction Reaction In Alkaline Solution. ChemElectroChem, 0, , .	3.4	1