

Luhua Lu

List of Publications by Year in descending order

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papers

4,591
citations

94433

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102487

66
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90
all docs

90
docs citations

90
times ranked

7273
citing authors

#	ARTICLE	IF	CITATIONS
1	A Graphene-like Oxygenated Carbon Nitride Material for Improved Cycle-Life Lithium/Sulfur Batteries. Nano Letters, 2015, 15, 5137-5142.	9.1	358
2	Heterojunction of facet coupled g-C ₃ N ₄ /surface-fluorinated TiO ₂ nanosheets for organic pollutants degradation under visible LED light irradiation. Applied Catalysis B: Environmental, 2014, 156-157, 331-340.	20.2	316
3	Self-regenerated solar-driven photocatalytic water-splitting by urea derived graphitic carbon nitride with platinum nanoparticles. Chemical Communications, 2012, 48, 8826.	4.1	244
4	Hydrothermal synthesis of layered molybdenum sulfide/N-doped graphene hybrid with enhanced supercapacitor performance. Carbon, 2016, 99, 35-42.	10.3	183
5	Sonication assisted preparation of graphene oxide/graphitic-C ₃ N ₄ nanosheet hybrid with reinforced photocurrent for photocatalyst applications. Dalton Transactions, 2014, 43, 6295.	3.3	178
6	A high efficient graphitic-C ₃ N ₄ /BiOI/graphene oxide ternary nanocomposite heterostructured photocatalyst with graphene oxide as electron transport buffer material. Dalton Transactions, 2015, 44, 7903-7910.	3.3	149
7	Graphene-stabilized Silver Nanoparticle Electrochemical Electrode for Actuator Design. Advanced Materials, 2013, 25, 1270-1274.	21.0	130
8	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
9	Highly Stable Air Working Bimorph Actuator Based on a Graphene Nanosheet/Carbon Nanotube Hybrid Electrode. Advanced Materials, 2012, 24, 4317-4321.	21.0	125
10	In situ controllable synthesis of novel surface plasmon resonance-enhanced Ag ₂ WO ₄ /Ag/Bi ₂ MoO ₆ composite for enhanced and stable visible light photocatalyst. Applied Surface Science, 2017, 391, 507-515.	6.1	123
11	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
12	Biomass chitosan derived cobalt/nitrogen doped carbon nanotubes for the electrocatalytic oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 5740-5745.	10.3	113
13	Pseudocapacitive Co ₉ S ₈ /graphene electrode for high-rate hybrid supercapacitors. Carbon, 2019, 141, 134-142.	10.3	110
14	Carbon Nitride Supramolecular Hybrid Material Enabled High-Efficiency Photocatalytic Water Treatments. Nano Letters, 2016, 16, 6568-6575.	9.1	108
15	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
16	In situ assembly of MnO ₂ nanowires/graphene oxide nanosheets composite with high specific capacitance. Electrochimica Acta, 2014, 116, 111-117.	5.2	95
17	Graphitic carbon nitride nanosheet for photocatalytic hydrogen production: The impact of morphology and element composition. Applied Surface Science, 2017, 391, 369-375.	6.1	88
18	A facile fabrication of plasmonic g-C ₃ N ₄ /Ag ₂ WO ₄ /Ag ternary heterojunction visible-light photocatalyst. Materials Chemistry and Physics, 2016, 177, 529-537.	4.0	75

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19	Large-Scale Aligned Carbon Nanotubes from Their Purified, Highly Concentrated Suspension. ACS Nano, 2010, 4, 1042-1048.	14.6	70
20	Rapid adsorption of cationic dye-methylene blue on the modified montmorillonite/graphene oxide composites. Applied Clay Science, 2019, 168, 304-311.	5.2	67
21	Graphene oxide capturing surface-fluorinated TiO ₂ nanosheets for advanced photocatalysis and the reveal of synergism reinforce mechanism. Dalton Transactions, 2014, 43, 2202-2210.	3.3	66
22	Boosting visible light photocatalytic hydrogen evolution of graphitic carbon nitride via enhancing its interfacial redox activity with cobalt/nitrogen doped tubular graphitic carbon. Applied Catalysis B: Environmental, 2018, 225, 512-518.	20.2	65
23	Facile synthesis of a surface plasmon resonance-enhanced Ag/AgBr heterostructure and its photocatalytic performance with 450 nm LED illumination. Dalton Transactions, 2013, 42, 4657.	3.3	64
24	Porous carbon nitride with defect mediated interfacial oxidation for improving visible light photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 232, 384-390.	20.2	62
25	Graphene oxide modified ZnO nanorods hybrid with high reusable photocatalytic activity under UV-LED irradiation. Materials Chemistry and Physics, 2014, 143, 1410-1416.	4.0	60
26	Tuning active sites on cobalt/nitrogen doped graphene for electrocatalytic hydrogen and oxygen evolution. Electrochimica Acta, 2018, 265, 497-506.	5.2	56
27	Preparation of Z-scheme WO ₃ (H ₂ O) _{0.333} /Ag ₃ PO ₄ composites with enhanced photocatalytic activity and durability. Chinese Journal of Catalysis, 2019, 40, 326-334.	14.0	55
28	Sustainable synthesis of CeO ₂ /CdS-diethylenetriamine composites for enhanced photocatalytic hydrogen evolution under visible light. Journal of Alloys and Compounds, 2018, 758, 162-170.	5.5	54
29	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. Polymer Chemistry, 2013, 4, 5612.	3.9	52
30	Recent progress on band and surface engineering of graphitic carbon nitride for artificial photosynthesis. Applied Surface Science, 2018, 462, 693-712.	6.1	51
31	Synthesis of micro-nano heterostructure AgBr/ZnO composite for advanced visible light photocatalysis. Materials Letters, 2014, 130, 5-8.	2.6	48
32	Development of UV-LED/TiO ₂ Device and Their Application for Photocatalytic Degradation of Methylene Blue. Journal of Materials Engineering and Performance, 2013, 22, 1035-1040.	2.5	45
33	Tuning optical and electronic properties of star-shaped conjugated molecules with enlarged π -delocalization for organic solar cell application. Journal of Materials Chemistry A, 2013, 1, 8270.	10.3	45
34	Plasmonic TiO ₂ /AgBr/Ag ternary composite nanosphere with heterojunction structure for advanced visible light photocatalyst. Applied Surface Science, 2014, 314, 864-871.	6.1	44
35	Inorganic-organic CdSe-diethylenetriamine nanobelts for enhanced visible photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2019, 555, 166-173.	9.4	44
36	Large volume variation of an anisotropic graphene nanosheet electrochemical "mechanical actuator under low voltage stimulation. Chemical Communications, 2012, 48, 3978.	4.1	43

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37	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
38	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
39	Construction of defective Mo ₁₅ S ₁₉ /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
40	Large scale and facile synthesis of novel Z-scheme Bi ₂ MoO ₆ /Ag ₃ PO ₄ composite for enhanced visible light photocatalyst. <i>Materials Letters</i> , 2016, 169, 250-253.	2.6	36
41	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
42	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. <i>Journal of Materials Chemistry</i> , 2012, 22, 11994.	6.7	34
43	Impact of size on energy storage performance of graphene based supercapacitor electrode. <i>Electrochimica Acta</i> , 2016, 219, 463-469.	5.2	32
44	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
45	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
46	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
47	Cu/Ag/Ag ₃ PO ₄ 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
48	Supramolecular self-assembly of biopolymers with carbon nanotubes for biomimetic and bio-inspired sensing and actuation. <i>Nanoscale</i> , 2011, 3, 2412.	5.6	26
49	Carbon nanotube exfoliated porous reduced graphene oxide/CdS- diethylenetriamine heterojunction for efficient photocatalytic H ₂ production. <i>Applied Surface Science</i> , 2020, 512, 144783.	6.1	26
50	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
51	Non-equilibrium microstructure of Li _{1.4} Al _{0.4} Ti _{1.6} (PO ₄) ₃ superionic conductor by spark plasma sintering for enhanced ionic conductivity. <i>Nano Energy</i> , 2018, 51, 19-25.	16.0	24
52	Facile and large scale synthesis of novel Cu ₂ O octahedral crystals with efficient visible light photocatalytic activity. <i>Materials Letters</i> , 2015, 150, 48-51.	2.6	23
53	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
54	Residual oxygen groups in nitrogen-doped graphene to enhance the capacitive performance. <i>RSC Advances</i> , 2017, 7, 15293-15301.	3.6	22

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55	The stabilization effect of surface capping on photocatalytic activity and recyclable stability of Ag ₃ PO ₄ . <i>Catalysis Communications</i> , 2014, 46, 138-141.	3.3	21
56	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
57	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
58	Commercial-Level Energy Storage via Free-Standing Stacking Electrodes. <i>Matter</i> , 2019, 1, 1694-1709.	10.0	19
59	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
60	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
61	Comparative tribological behavior of friction composites containing natural graphite and expanded graphite. <i>Friction</i> , 2020, 8, 684-694.	6.4	18
62	Dual-Responsive Soft Actuators with Integrated Sensing Function Based on 1T-MoS ₂ Composite. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000240.	6.1	15
63	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
64	Advance ternary surface-fluorinated TiO ₂ /nanosheet/Ag ₃ PO ₄ /Ag composite photocatalyst with planar heterojunction and island Ag electron capture center. <i>RSC Advances</i> , 2014, 4, 62751-62758.	3.6	13
65	A scalable synthesis technique of hierarchical BiOBr microspheres for advanced visible light photocatalyst. <i>Materials Letters</i> , 2014, 136, 438-440.	2.6	13
66	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
67	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
68	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
69	Facile preparation and growth mechanism of zinc oxide nanopencils. <i>Materials Letters</i> , 2012, 67, 193-195.	2.6	12
70	Phosphoric acid-assisted synthesis of layered MoS ₂ /graphene hybrids with electrolyte-dependent supercapacitive behaviors. <i>RSC Advances</i> , 2016, 6, 89397-89406.	3.6	12
71	Dopamine-Modified Trititanate Nanotubes with UV- and Visible-Light Photocatalytic Activity: Coordinative Self-Assembly into a Recyclable Absorber. <i>ChemCatChem</i> , 2012, 4, 1133-1138.	3.7	11
72	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

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73	A facile surfactant-free method to prepare Ti _{0.95} Er _{0.05} O ₂ nanocrystal and its photocatalytic performance. <i>Catalysis Communications</i> , 2014, 43, 202-206.	3.3	9
74	Easy and Large Scale Synthesis Silver Nanodendrites: Highly Effective Filler for Isotropic Conductive Adhesives. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 353-357.	2.5	7
75	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
76	Graphene edge-enhanced anchoring of the well-exposed cobalt clusters <i>via</i> strong chemical bonding for accelerating the oxygen reduction reaction. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2859-2866.	4.9	6
77	Bending Deformation Mechanism and Defective Properties of Liquid Crystalline Carbon Nanotubes in Evaporating Droplets. <i>RSC Advances</i> , 2011, 1, 468.	3.6	5
78	Ring formation mechanism of single-walled carbon nanotubes: Energy conservation between curvature elasticity and inter-tube adhesion. <i>Chemical Physics</i> , 2012, 393, 123-128.	1.9	4
79	Natural nanomaterial as hard template for scalable synthesizing holey carbon naonsheet/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
80	Biological Visual Detection for Advanced Photocatalytic Oxidation toward Pesticide Detoxification. <i>ACS Omega</i> , 2019, 4, 19655-19663.	3.5	4
81	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
82	Effect of CaO and CeO ₂ co-doping on thermo-physical properties of La ₂ Z ₂ O ₇ . <i>Journal of Asian Ceramic Societies</i> , 2020, 8, 1010-1017.	2.3	3
83	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
84	Morphology dependent adsorption of methylene blue on trititanate nanoplates and nanotubes prepared by the hydrothermal treatment of TiO ₂ . <i>Water Science and Technology</i> , 2017, 75, 350-357.	2.5	1
85	A Cost-Effective Iron Based COF and Its Composite Electrocatalyst for Active and Stable Oxygen Reduction Reaction In Alkaline Solution. <i>ChemElectroChem</i> , 0, , .	3.4	1
86	Bionic nanocomposite actuator based on carbon nanotube and ionic biopolymer. , 2010, , .		0
87	Carbon Nanotubes Engineering Assisted by Natural Biopolymers. , 0, , .		0
88	Actuators: Highly Stable Air Working Bimorph Actuator Based on a Graphene Nanosheet/Carbon Nanotube Hybrid Electrode (Adv. Mater. 31/2012). <i>Advanced Materials</i> , 2012, 24, 4222-4222.	21.0	0
89	Mass Production and Reusable Photocatalytic Activity of ZnS Microspheres. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 204-208.	0.4	0