

Min Lai

List of Publications by Year in descending order

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41
papers

1,540
citations

331670

21
h-index

315739

38
g-index

41
all docs

41
docs citations

41
times ranked

2690
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in understanding of the mechanism and control of Li_2O_2 formation in aprotic Li^+O_2 batteries. <i>Chemical Society Reviews</i> , 2017, 46, 6046-6072.	38.1	314
2	Templated Electrosynthesis of Zinc Oxide Nanorods. <i>Chemistry of Materials</i> , 2006, 18, 2233-2237.	6.7	101
3	Templated electrosynthesis of nanomaterials and porous structures. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 203-212.	9.4	101
4	Growth Mechanism of Amorphous Selenium Nanoparticles Synthesized by <i>Shewanella</i> sp. HN-41. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 696-700.	1.3	88
5	Synthesis of hierarchical porous $\gamma\text{-MnO}_2$ nanoboxes as an efficient catalyst for rechargeable Li^+O_2 batteries. <i>Nanoscale</i> , 2015, 7, 14881-14888.	5.6	82
6	Size-controlled electrochemical synthesis and properties of SnO_2 nanotubes. <i>Nanotechnology</i> , 2009, 20, 185602.	2.6	79
7	Facile synthesis of hierarchical porous Co_3O_4 nanoboxes as efficient cathode catalysts for Li^+O_2 batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6350-6356.	10.3	75
8	Two-dimensional black phosphorus: its fabrication, functionalization and applications. <i>Nanoscale</i> , 2018, 10, 21575-21603.	5.6	73
9	Monodispersed Ru Nanoparticles Functionalized Graphene Nanosheets as Efficient Cathode Catalysts for O_2 -Assisted Li^+CO_2 Battery. <i>ACS Omega</i> , 2017, 2, 9280-9286.	3.5	63
10	Synthesis of porous CoMoO_4 nanorods as a bifunctional cathode catalyst for a Li^+O_2 battery and superior anode for a Li-ion battery. <i>Nanoscale</i> , 2017, 9, 3898-3904.	5.6	60
11	Hybrid tin oxide-SWNT nanostructures based gas sensor. <i>Electrochimica Acta</i> , 2013, 92, 484-490.	5.2	57
12	Profiting from nature: macroporous copper with superior mechanical properties. <i>Chemical Communications</i> , 2007, , 3547.	4.1	53
13	Preparation of tin dioxide nanotubes via electrosynthesis in a template. <i>Journal of Materials Chemistry</i> , 2006, 16, 2843-2845.	6.7	52
14	Palladium nanoparticle functionalized graphene nanosheets for Li^+O_2 batteries: enhanced performance by tailoring the morphology of the discharge product. <i>RSC Advances</i> , 2015, 5, 73451-73456.	3.6	35
15	Black phosphorus inverter devices enabled by in-situ aluminum surface modification. <i>Nano Research</i> , 2019, 12, 531-536.	10.4	33
16	Co_3O_4 functionalized porous carbon nanotube oxygen-cathodes to promote Li_2O_2 surface growth for improved cycling stability of Li^+O_2 batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25501-25508.	10.3	31
17	Electrochemical synthesis of $\text{Fe}_x\text{Ni}_{1-x}$ nanostructures for environmental remediation. <i>Chemical Engineering Journal</i> , 2009, 151, 66-72.	12.7	29
18	Facile synthesis of ultra-smooth and transparent TiO_2 thin films with superhydrophilicity. <i>Surface and Coatings Technology</i> , 2015, 265, 78-82.	4.8	28

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19	Synthesis of Sn doped CuO nanotubes from core-shell Cu/SnO ₂ nanowires by the Kirkendall effect. Nanotechnology, 2010, 21, 295601.	2.6	24
20	Novel Coassembly Route to Cu ⁺ SiO ₂ MCM-41-like Mesoporous Materials. Langmuir, 2004, 20, 2879-2882.	3.5	23
21	Realization of a Buckled Antimonene Monolayer on Ag(111) via Surface Engineering. Journal of Physical Chemistry Letters, 2020, 11, 8976-8982.	4.6	23
22	RGO/TiO ₂ nanosheets immobilized on magnetically actuated artificial cilia film: a new mode for efficient photocatalytic reaction. RSC Advances, 2017, 7, 10517-10523.	3.6	17
23	Promoting defective-Li ₂ O formation via Na doping for Li ₂ O batteries with low charge overpotentials. Journal of Materials Chemistry A, 2019, 7, 10389-10396.	10.3	17
24	Reversible Tuning of Interfacial and Intramolecular Charge Transfer in Individual MnPc Molecules. Nano Letters, 2015, 15, 8091-8098.	9.1	12
25	Fiber optic evanescent wave humidity sensor based on SiO ₂ /TiO ₂ bilayer films. Applied Optics, 2021, 60, 2158.	1.8	11
26	Formulae for secondary electron yield from insulators and semiconductors. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	8
27	Bi ₅ O ₇ /g-C ₃ N ₄ Heterostructures With Enhanced Visible-Light Photocatalytic Performance for Degradation of Tetracycline Hydrochloride. Frontiers in Chemistry, 2021, 9, 781991.	3.6	8
28	Nondestructive hole doping enabled photocurrent enhancement of layered tungsten diselenide. 2D Materials, 2019, 6, 024002.	4.4	7
29	Synthesis and photocatalytic properties of electrodeposited bismuth oxyiodide on rutile/anatase TiO ₂ heterostructure. Materials Research Express, 2019, 6, 055905.	1.6	6
30	HIERARCHICAL HETEROSTRUCTURE OF RUTILE TiO ₂ NANOFLOWER ARRAY ON ANATASE TiO ₂ SHEET WITH ENHANCED PHOTOCATALYTIC PERFORMANCE. Surface Review and Letters, 2019, 26, 1950040.	1.1	5
31	Hydrothermal synthesis of BiVO ₄ /Bi ₂ MoO ₆ composites with enhanced photocatalytic activity. International Journal of Modern Physics B, 2017, 31, 1744059.	2.0	4
32	Surface decoration of BiOCl with BiVO ₄ particles towards enhanced visible-light-driven photocatalytic performance. Materials Research Express, 2019, 6, 045512.	1.6	4
33	Formula for the total stopping power from 2 keV to 10 keV for a metal. Journal of the Korean Physical Society, 2013, 62, 127-131.	0.7	3
34	Multiple-band enhanced light absorption of monolayer graphene with critical coupling to guided mode resonance. AIP Advances, 2018, 8, .	1.3	3
35	Polysulfide-driven low charge overpotential for aprotic lithium-oxygen batteries. Journal of Materials Chemistry A, 2019, 7, 8777-8784.	10.3	3
36	Ultra-smooth TiO ₂ thin film based optical humidity sensor with a fast response and recovery. Applied Optics, 2019, 58, 9740.	1.8	3

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37	Template-Directed Electrodeposition of SnO ₂ Nanotubes and 1D Zn/SnO ₂ Core-Shell Nanostructures. Materials Science Forum, 0, 745-746, 275-280.	0.3	2
38	PVA/Tween 20 thin film based fiber optic humidity sensor with enhanced sensing performance. Applied Optics, 2022, 61, 1834-1840.	1.8	2
39	Synthesis and photocatalytic properties of ultra-smooth TiO ₂ thin films with superhydrophilicity. International Journal for Innovation Education and Research, 2018, 6, 7-16.	0.1	1
40	Templated electrodeposition of single-crystal ZnO nanorods. , 2011, , .		0
41	Effect of Fabrication Parameters on Localized Surface Plasmon Resonance Property of Gold Nanorod. Advanced Materials Research, 2013, 756-759, 124-127.	0.3	0