

Wei Wen

List of Publications by Year in descending order

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58
papers

2,158
citations

218381

26
h-index

233125

45
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59
all docs

59
docs citations

59
times ranked

3126
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials via solution combustion synthesis: a step nearer to controllability. RSC Advances, 2014, 4, 58090-58100.	1.7	203
2	UV and visible light photocatalytic activity of Au/TiO ₂ nanoforests with Anatase/Rutile phase junctions and controlled Au locations. Scientific Reports, 2017, 7, 41253.	1.6	125
3	Eruption Combustion Synthesis of NiO/Ni Nanocomposites with Enhanced Properties for Dye-Absorption and Lithium Storage. ACS Applied Materials & Interfaces, 2011, 3, 4112-4119.	4.0	115
4	Titania nanowires functionalized polyester fabrics with enhanced photocatalytic and antibacterial performances. Journal of Hazardous Materials, 2018, 343, 285-297.	6.5	110
5	Sol-gel combustion synthesis and visible-light-driven photocatalytic property of perovskite LaNiO ₃ . Journal of Alloys and Compounds, 2010, 491, 560-564.	2.8	103
6	Pseudocapacitance-Enhanced Li-Ion Microbatteries Derived by a TiN@TiO ₂ Nanowire Anode. Chem, 2017, 2, 404-416.	5.8	90
7	Anatase TiO ₂ ultrathin nanobelts derived from room-temperature-synthesized titanates for fast and safe lithium storage. Scientific Reports, 2015, 5, 11804.	1.6	75
8	Simple air calcination affords commercial carbon cloth with high areal specific capacitance for symmetrical supercapacitors. Journal of Materials Chemistry A, 2018, 6, 21078-21086.	5.2	74
9	Rapid one-step synthesis and electrochemical performance of NiO/Ni with tunable macroporous architectures. Nano Energy, 2013, 2, 1383-1390.	8.2	72
10	Catalyzed Degradation of Azo Dyes under Ambient Conditions. Environmental Science & Technology, 2010, 44, 9123-9127.	4.6	65
11	NiO/Ni powders with effective architectures as anode materials in Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 3881.	5.2	60
12	A novel solution combustion synthesis of cobalt oxide nanoparticles as negative-electrode materials for lithium ion batteries. Journal of Alloys and Compounds, 2012, 513, 592-596.	2.8	55
13	Facile synthesis of a mesoporous Co ₃ O ₄ network for Li-storage via thermal decomposition of an amorphous metal complex. Nanoscale, 2014, 6, 12476-12481.	2.8	53
14	Large-size porous ZnO flakes with superior gas-sensing performance. Applied Physics Letters, 2012, 100, 262111.	1.5	51
15	Gas-sensing property of a nitrogen-doped zinc oxide fabricated by combustion synthesis. Sensors and Actuators B: Chemical, 2013, 184, 78-84.	4.0	51
16	A facile solution route to deposit TiO ₂ nanowire arrays on arbitrary substrates. Nanoscale, 2014, 6, 3046.	2.8	50
17	Facile synthesis of Ni-doped TiO ₂ ultrathin nanobelt arrays with enhanced photocatalytic performance. CrystEngComm, 2016, 18, 1847-1853.	1.3	50
18	Wide potential window TiO ₂ @carbon cloth and high capacitance MnO ₂ @carbon cloth for the construction of a 2.6ÅV high-performance aqueous asymmetric supercapacitor. Journal of Power Sources, 2020, 469, 228425.	4.0	50

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19	Photocatalytic activity of TiO ₂ nanorods, nanowires and nanoflowers filled with TiO ₂ nanoparticles. Thin Solid Films, 2018, 648, 103-107.	0.8	49
20	Titanium dioxide nanotrees for high-capacity lithium-ion microbatteries. Journal of Materials Chemistry A, 2016, 4, 10593-10600.	5.2	46
21	Molybdenum carbide nanocrystals modified carbon nanofibers as electrocatalyst for enhancing polysulfides redox reactions in lithium-sulfur batteries. International Journal of Energy Research, 2020, 44, 8388-8398.	2.2	42
22	Synergistic effect of titanium oxide integrated with graphitic nitride hybrid for enhanced electrochemical performance in lithium-sulfur batteries. International Journal of Energy Research, 2020, 44, 10937-10945.	2.2	41
23	Structure and catalytic activity of 3D macro/mesoporous Co ₃ O ₄ for CO oxidation prepared by a facile self-sustained decomposition of metal-organic complexes. Journal of Molecular Catalysis A, 2015, 398, 79-85.	4.8	37
24	Surface-Induced Desolvation of Hydronium Ion Enables Anatase TiO ₂ as an Efficient Anode for Proton Batteries. Nano Letters, 2021, 21, 7021-7029.	4.5	35
25	Construction of hierarchical Ag@TiO ₂ @ZnO nanowires with high photocatalytic activity. New Journal of Chemistry, 2018, 42, 265-271.	1.4	29
26	Ni-doped rutile TiO ₂ nanoflowers: low-temperature solution synthesis and enhanced photocatalytic efficiency. RSC Advances, 2016, 6, 25511-25518.	1.7	28
27	TiO ₂ nanotrees for the photocatalytic and photoelectrocatalytic phenol degradation. New Journal of Chemistry, 2019, 43, 11050-11056.	1.4	25
28	Rapid synthesis of high-area-capacitance ultrathin hexagon Fe ₂ O ₃ nanoplates on carbon cloth via a versatile molten salt method. Materials Chemistry Frontiers, 2020, 4, 2744-2753.	3.2	22
29	Univariate Lattice Parameter Modulation of Single-Crystal-like Anatase TiO ₂ Hierarchical Nanowire Arrays to Improve Photoactivity. Chemistry of Materials, 2021, 33, 1489-1497.	3.2	22
30	Low-temperature Transformation of Titania Thin Films from Amorphous Nanowires to Crystallized Nanoflowers for Heterogeneous Photocatalysis. Journal of the American Ceramic Society, 2013, 96, 2109-2116.	1.9	21
31	Surface roughening and top opening of single crystalline TiO ₂ nanowires for enhanced photocatalytic activity. Materials and Design, 2016, 108, 581-589.	3.3	20
32	Titania nanowires coated PEI/P25 membranes for photocatalytic and ultrafiltration applications. New Journal of Chemistry, 2018, 42, 3020-3027.	1.4	20
33	Hydrothermal synthesis of needle-like hyperbranched Ni(SO ₄) _{0.3} (OH) _{1.4} bundles and their morphology-retentive decompositions to NiO for lithium storage. CrystEngComm, 2012, 14, 6565.	1.3	19
34	Hierarchical nanosheet-assembled yolk-shell TiO ₂ microspheres with improved photocatalytic activity. CrystEngComm, 2016, 18, 5195-5201.	1.3	19
35	Branching TiO ₂ nanowire arrays for enhanced ethanol sensing. Nanotechnology, 2021, 32, 295501.	1.3	18
36	CoOOH ultrafine nanoparticles for supercapacitors. RSC Advances, 2016, 6, 70947-70951.	1.7	16

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37	Monocrystalline FeMnO ₃ on Carbon Cloth for Extremely High-Areal-Capacitance Supercapacitors. ACS Applied Energy Materials, 2020, 3, 11863-11872.	2.5	15
38	Enhanced isopropanol sensing of coral-like ZnO@ZrO ₂ composites. Nanotechnology, 2020, 31, 195502.	1.3	15
39	Hollow TiN nanotrees derived from a surface-induced Kirkendall effect and their application in high-power supercapacitors. Journal of Materials Chemistry A, 2019, 7, 21378-21385.	5.2	14
40	Nanoarchitectonics of nest-like MnO ₂ /TiO ₂ thin film for triethylamine sensing. Sensors and Actuators B: Chemical, 2022, 353, 131137.	4.0	13
41	One-pot low-temperature synthesis of TiO ₂ nanowire/rGO composites with enhanced photocatalytic activity. RSC Advances, 2016, 6, 94092-94097.	1.7	12
42	Balsam-pear-like rutile/anatase core/shell titania nanorod arrays for photoelectrochemical water splitting. Nanotechnology, 2017, 28, 465602.	1.3	12
43	Construction of Ni-doped belt-on-belt TiO ₂ thin film to assist photodegradation of rhodamine B in water. Thin Solid Films, 2019, 683, 111-117.	0.8	11
44	Photocatalytically active TiO ₂ microtubes assembled with radially aligned nanowires. Materials Chemistry Frontiers, 2017, 1, 1453-1458.	3.2	10
45	Low temperature synthesis of few-layer titanate nanobelts on Ti mesh and the hot-water induced transformations to highly photocatalytic active titania nanorods. Journal of Environmental Chemical Engineering, 2017, 5, 4676-4683.	3.3	10
46	Sheet-on-belt branched TiO ₂ (B)/rGO powders with enhanced photocatalytic activity. Beilstein Journal of Nanotechnology, 2018, 9, 1550-1557.	1.5	10
47	Flash synthesis of macro-/mesoporous ZnO for gas sensors via self-sustained decomposition of a Zn-based complex. RSC Advances, 2013, 3, 12052.	1.7	9
48	Pyrrole-regulated precipitation of titania nanorods on polymer fabrics for photocatalytic degradation of trace toluene in air. Applied Surface Science, 2018, 434, 1055-1063.	3.1	9
49	A 3D electrode of core@shell branched nanowire TiN@Ni _{0.27} Co _{2.73} O ₄ arrays for enhanced oxygen evolution reaction. Applied Materials Today, 2018, 12, 276-282.	2.3	9
50	Co ³⁺ @O Bond Elongation Unlocks Co ₃ O ₄ for Methane Activation under Ambient Conditions. ACS Catalysis, 2022, 12, 7037-7045.	5.5	9
51	Enhanced UV photoactivity of Ti ³⁺ self-doped anatase TiO ₂ single crystals hydrothermally synthesized using Ti-H ₂ O ₂ -HF reactants. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 382, 111958.	2.0	7
52	(001)-exposed TiO ₂ microcrystals decorated with few-layer nanobelts for enhanced photocatalytic activity. Materials Research Bulletin, 2019, 109, 98-102.	2.7	7
53	Room-temperature Hydrolysis of Potassium Titanyl Oxalate and Water-Assisted Crystallization for TiO ₂ with High Photocatalytic Activity. ChemistrySelect, 2017, 2, 5025-5031.	0.7	6
54	Single-crystalline rutile TiO ₂ nanorod array on flexible Ti substrates for efficient photoelectrocatalytic degradation of phenol in water. Thin Solid Films, 2021, 719, 138494.	0.8	6

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55	Synthesis of an intensive blue pigment with low cobalt content. <i>Ceramics International</i> , 2018, 44, 4381-4384.	2.3	5
56	Titania nanowires growing from P25 nuclei: Facile synthesis and the improved photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 124, 192-198.	1.9	5
57	Cobalt/nickel oxide nanosheet arrays for electrocatalytic water oxidation: Size modulation, composition/phase control, and surface decoration. <i>Chemical Physics Letters</i> , 2020, 754, 137734.	1.2	3
58	Solution Combustion Synthesis for Electrochemistry Applications. <i>Sustainable Chemistry Series</i> , 2020, , 123-148.	0.1	0