

# 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  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3126  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoarchitectonics of nest-like MnO <sub>2</sub> /TiO <sub>2</sub> thin film for triethylamine sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131137.	4.0	13
2	Co <sup>3+</sup> –O Bond Elongation Unlocks Co <sub>3</sub> O <sub>4</sub> for Methane Activation under Ambient Conditions. <i>ACS Catalysis</i> , 2022, 12, 7037-7045.	5.5	9
3	Single-crystalline rutile TiO <sub>2</sub> nanorod array on flexible Ti substrates for efficient photoelectrocatalytic degradation of phenol in water. <i>Thin Solid Films</i> , 2021, 719, 138494.	0.8	6
4	Univariate Lattice Parameter Modulation of Single-Crystal-like Anatase TiO <sub>2</sub> Hierarchical Nanowire Arrays to Improve Photoactivity. <i>Chemistry of Materials</i> , 2021, 33, 1489-1497.	3.2	22
5	Branching TiO <sub>2</sub> nanowire arrays for enhanced ethanol sensing. <i>Nanotechnology</i> , 2021, 32, 295501.	1.3	18
6	Surface-Induced Desolvation of Hydronium Ion Enables Anatase TiO <sub>2</sub> as an Efficient Anode for Proton Batteries. <i>Nano Letters</i> , 2021, 21, 7021-7029.	4.5	35
7	Monocrystalline FeMnO <sub>3</sub> on Carbon Cloth for Extremely High-Areal-Capacitance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 11863-11872.	2.5	15
8	Rapid synthesis of high-areal-capacitance ultrathin hexagon Fe <sub>2</sub> O <sub>3</sub> nanoplates on carbon cloth <i>via</i> a versatile molten salt method. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2744-2753.	3.2	22
9	Wide potential window TiO <sub>2</sub> @carbon cloth and high capacitance MnO <sub>2</sub> @carbon cloth for the construction of a 2.6V high-performance aqueous asymmetric supercapacitor. <i>Journal of Power Sources</i> , 2020, 469, 228425.	4.0	50
10	Molybdenum carbide nanocrystals modified carbon nanofibers as electrocatalyst for enhancing polysulfides redox reactions in lithium–sulfur batteries. <i>International Journal of Energy Research</i> , 2020, 44, 8388-8398.	2.2	42
11	Synergistic effect of titanium oxide integrated with graphitic nitride hybrid for enhanced electrochemical performance in lithium–sulfur batteries. <i>International Journal of Energy Research</i> , 2020, 44, 10937-10945.	2.2	41
12	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
13	Enhanced isopropanol sensing of coral-like ZnO–ZrO <sub>2</sub> composites. <i>Nanotechnology</i> , 2020, 31, 195502.	1.3	15
14	Solution Combustion Synthesis for Electrochemistry Applications. <i>Sustainable Chemistry Series</i> , 2020, , 123-148.	0.1	0
15	Enhanced UV photoactivity of Ti <sup>3+</sup> self-doped anatase TiO <sub>2</sub> single crystals hydrothermally synthesized using Ti-H <sub>2</sub> O <sub>2</sub> -HF reactants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 382, 111958.	2.0	7
16	Hollow TiN nanotrees derived from a surface-induced Kirkendall effect and their application in high-power supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21378-21385.	5.2	14
17	TiO <sub>2</sub> nanotrees for the photocatalytic and photoelectrocatalytic phenol degradation. <i>New Journal of Chemistry</i> , 2019, 43, 11050-11056.	1.4	25
18	Construction of Ni-doped belt-on-belt TiO <sub>2</sub> thin film to assist photodegradation of rhodamine B in water. <i>Thin Solid Films</i> , 2019, 683, 111-117.	0.8	11

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19	(001)-exposed TiO <sub>2</sub> microcrystals decorated with few-layer nanobelts for enhanced photocatalytic activity. <i>Materials Research Bulletin</i> , 2019, 109, 98-102.	2.7	7
20	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
21	Photocatalytic activity of TiO <sub>2</sub> nanorods, nanowires and nanoflowers filled with TiO <sub>2</sub> nanoparticles. <i>Thin Solid Films</i> , 2018, 648, 103-107.	0.8	49
22	Titania nanowires coated PEI/P25 membranes for photocatalytic and ultrafiltration applications. <i>New Journal of Chemistry</i> , 2018, 42, 3020-3027.	1.4	20
23	Synthesis of an intensive blue pigment with low cobalt content. <i>Ceramics International</i> , 2018, 44, 4381-4384.	2.3	5
24	Titania nanowires functionalized polyester fabrics with enhanced photocatalytic and antibacterial performances. <i>Journal of Hazardous Materials</i> , 2018, 343, 285-297.	6.5	110
25	Construction of hierarchical Ag@TiO <sub>2</sub> @ZnO nanowires with high photocatalytic activity. <i>New Journal of Chemistry</i> , 2018, 42, 265-271.	1.4	29
26	Pyrrole-regulated precipitation of titania nanorods on polymer fabrics for photocatalytic degradation of trace toluene in air. <i>Applied Surface Science</i> , 2018, 434, 1055-1063.	3.1	9
27	Simple air calcination affords commercial carbon cloth with high areal specific capacitance for symmetrical supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21078-21086.	5.2	74
28	A 3D electrode of core@shell branched nanowire TiN@Ni <sub>0.27</sub> Co <sub>2.73</sub> O <sub>4</sub> arrays for enhanced oxygen evolution reaction. <i>Applied Materials Today</i> , 2018, 12, 276-282.	2.3	9
29	Sheet-on-belt branched TiO <sub>2</sub> (B)/rGO powders with enhanced photocatalytic activity. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1550-1557.	1.5	10
30	UV and visible light photocatalytic activity of Au/TiO <sub>2</sub> nanoforests with Anatase/Rutile phase junctions and controlled Au locations. <i>Scientific Reports</i> , 2017, 7, 41253.	1.6	125
31	Pseudocapacitance-Enhanced Li-Ion Microbatteries Derived by a TiN@TiO <sub>2</sub> Nanowire Anode. <i>CheM</i> , 2017, 2, 404-416.	5.8	90
32	Photocatalytically active TiO <sub>2</sub> microtubes assembled with radially aligned nanowires. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1453-1458.	3.2	10
33	Low temperature synthesis of few-layer titanate nanobelts on Ti mesh and the hot-water induced transformations to highly photocatalytic active titania nanorods. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4676-4683.	3.3	10
34	Balsam-pear-like rutile/anatase core/shell titania nanorod arrays for photoelectrochemical water splitting. <i>Nanotechnology</i> , 2017, 28, 465602.	1.3	12
35	Room-temperature Hydrolysis of Potassium Titanyl Oxalate and Water-Assisted Crystallization for TiO <sub>2</sub> with High Photocatalytic Activity. <i>ChemistrySelect</i> , 2017, 2, 5025-5031.	0.7	6
36	Ni-doped rutile TiO <sub>2</sub> nanoflowers: low-temperature solution synthesis and enhanced photocatalytic efficiency. <i>RSC Advances</i> , 2016, 6, 25511-25518.	1.7	28

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37	One-pot low-temperature synthesis of TiO <sub>2</sub> nanowire/rGO composites with enhanced photocatalytic activity. RSC Advances, 2016, 6, 94092-94097.	1.7	12
38	CoOOH ultrafine nanoparticles for supercapacitors. RSC Advances, 2016, 6, 70947-70951.	1.7	16
39	Surface roughening and top opening of single crystalline TiO <sub>2</sub> nanowires for enhanced photocatalytic activity. Materials and Design, 2016, 108, 581-589.	3.3	20
40	Hierarchical nanosheet-assembled yolk-shell TiO <sub>2</sub> microspheres with improved photocatalytic activity. CrystEngComm, 2016, 18, 5195-5201.	1.3	19
41	Titanium dioxide nanotrees for high-capacity lithium-ion microbatteries. Journal of Materials Chemistry A, 2016, 4, 10593-10600.	5.2	46
42	Facile synthesis of Ni-doped TiO <sub>2</sub> ultrathin nanobelt arrays with enhanced photocatalytic performance. CrystEngComm, 2016, 18, 1847-1853.	1.3	50
43	Anatase TiO <sub>2</sub> ultrathin nanobelts derived from room-temperature-synthesized titanates for fast and safe lithium storage. Scientific Reports, 2015, 5, 11804.	1.6	75
44	Structure and catalytic activity of 3D macro/mesoporous Co <sub>3</sub> O <sub>4</sub> 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
45	A facile solution route to deposit TiO <sub>2</sub> nanowire arrays on arbitrary substrates. Nanoscale, 2014, 6, 3046.	2.8	50
46	Nanomaterials via solution combustion synthesis: a step nearer to controllability. RSC Advances, 2014, 4, 58090-58100.	1.7	203
47	Facile synthesis of a mesoporous Co <sub>3</sub> O <sub>4</sub> network for Li-storage via thermal decomposition of an amorphous metal complex. Nanoscale, 2014, 6, 12476-12481.	2.8	53
48	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
49	NiO/Ni powders with effective architectures as anode materials in Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 3881.	5.2	60
50	Rapid one-step synthesis and electrochemical performance of NiO/Ni with tunable macroporous architectures. Nano Energy, 2013, 2, 1383-1390.	8.2	72
51	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
52	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
53	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
54	Hydrothermal synthesis of needle-like hyperbranched Ni(SO <sub>4</sub> ) <sub>0.3</sub> (OH) <sub>1.4</sub> bundles and their morphology-retentive decompositions to NiO for lithium storage. CrystEngComm, 2012, 14, 6565.	1.3	19

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55	Large-size porous ZnO flakes with superior gas-sensing performance. Applied Physics Letters, 2012, 100, 262111.	1.5	51
56	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
57	Sol-gel combustion synthesis and visible-light-driven photocatalytic property of perovskite LaNiO <sub>3</sub> . Journal of Alloys and Compounds, 2010, 491, 560-564.	2.8	103
58	Catalyzed Degradation of Azo Dyes under Ambient Conditions. Environmental Science & Technology, 2010, 44, 9123-9127.	4.6	65