

Zhishun Wei

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

853
citations

18
h-index

28
g-index

42
ext. papers

1,048
ext. citations

6.5
avg, IF

4.32
L-index

#	Paper	IF	Citations
40	Enhanced photocatalytic, electrochemical and photoelectrochemical properties of TiO nanotubes arrays modified with Cu, AgCu and Bi nanoparticles obtained via radiolytic reduction. <i>Applied Surface Science</i> , 2016 , 387, 89-102	6.7	90
39	Photocatalytic activity and luminescence properties of RE ³⁺ -TiO ₂ nanocrystals prepared by sol-gel and hydrothermal methods. <i>Applied Catalysis B: Environmental</i> , 2016 , 181, 825-837	21.8	84
38	The effect of nanoparticles size on photocatalytic and antimicrobial properties of Ag-Pt/TiO ₂ photocatalysts. <i>Applied Surface Science</i> , 2015 , 353, 317-325	6.7	76
37	Silver-modified titania with enhanced photocatalytic and antimicrobial properties under UV and visible light irradiation. <i>Catalysis Today</i> , 2015 , 252, 136-142	5.3	57
36	Hybrid photocatalysts composed of titania modified with plasmonic nanoparticles and ruthenium complexes for decomposition of organic compounds. <i>Applied Catalysis B: Environmental</i> , 2015 , 178, 133-143	21.8	46
35	Noble metal-modified faceted anatase titania photocatalysts: Octahedron versus decahedron. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 574-587	21.8	46
34	Size-controlled gold nanoparticles on octahedral anatase particles as efficient plasmonic photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 393-405	21.8	43
33	Morphology-dependent photocatalytic activity of octahedral anatase particles prepared by ultrasonication-hydrothermal reaction of titanates. <i>Nanoscale</i> , 2015 , 7, 12392-404	7.7	40
32	Interparticle electron transfer in methanol dehydrogenation on platinum-loaded titania particles prepared from P25. <i>Catalysis Today</i> , 2018 , 303, 327-333	5.3	38
31	Preparation and photocatalytic activity of Nd-modified TiO ₂ photocatalysts: Insight into the excitation mechanism under visible light. <i>Journal of Catalysis</i> , 2017 , 353, 211-222	7.3	31
30	Silver- and copper-modified decahedral anatase titania particles as visible light-responsive plasmonic photocatalyst. <i>Journal of Photonics for Energy</i> , 2016 , 7, 012008	1.2	29
29	Preparation of CdS and BiS quantum dots co-decorated perovskite-type KNbO ₃ ternary heterostructure with improved visible light photocatalytic activity and stability for phenol degradation. <i>Dalton Transactions</i> , 2018 , 47, 15232-15245	4.3	29
28	The effect of anatase and rutile crystallites isolated from titania P25 photocatalyst on growth of selected mould fungi. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 151, 54-62	6.7	28
27	Morphology- and Crystalline Composition-Governed Activity of Titania-Based Photocatalysts: Overview and Perspective. <i>Catalysts</i> , 2019 , 9, 1054	4	27
26	Influence of post-treatment operations on structural properties and photocatalytic activity of octahedral anatase titania particles prepared by an ultrasonication-hydrothermal reaction. <i>Molecules</i> , 2014 , 19, 19573-87	4.8	21
25	Enhanced Photocatalytic Activity by Particle Morphology: Preparation, Characterization, and Photocatalytic Activities of Octahedral Anatase Titania Particles. <i>Chemistry Letters</i> , 2014 , 43, 346-348	1.7	21
24	Experimental and computational study of Tm-doped TiO ₂ : The effect of Li ⁺ on Vis-response photocatalysis and luminescence. <i>Applied Catalysis B: Environmental</i> , 2019 , 252, 138-151	21.8	18

23	Noble metal-modified titania with visible-light activity for the decomposition of microorganisms. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 829-841	3	18
22	Size-Controlled Synthesis of Pt Particles on TiO ₂ Surface: Physicochemical Characteristic and Photocatalytic Activity. <i>Catalysts</i> , 2019 , 9, 940	4	15
21	Titania modification with a ruthenium(II) complex and gold nanoparticles for photocatalytic degradation of organic compounds. <i>Photochemical and Photobiological Sciences</i> , 2016 , 15, 69-79	4.2	14
20	Bactericidal Properties of Plasmonic Photocatalysts Composed of Noble Metal Nanoparticles on Faceted Anatase Titania. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 442-452	1.3	9
19	A gas-solid reaction growth of dense TiO ₂ nanowire arrays on Ti foils at ambient atmosphere. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 316-23	1.3	8
18	Influence of Semiconductor Morphology on Photocatalytic Activity of Plasmonic Photocatalysts: Titanate Nanowires and Octahedral Anatase Nanoparticles. <i>Nanomaterials</i> , 2019 , 9,	5.4	8
17	Noble Metal Nanoparticles for Water Purification 2019 , 553-579		8
16	Morphology-Governed Performance of Plasmonic Photocatalysts. <i>Catalysts</i> , 2020 , 10, 1070	4	7
15	Systematic and detailed examination of NaYF ₄ -Er-Yb-TiO ₂ photocatalytic activity under Vis/NIR irradiation: Experimental and theoretical analyses. <i>Applied Surface Science</i> , 2021 , 536, 147805	6.7	7
14	On the excitation mechanism of visible responsible Er-TiO ₂ system proved by experimental and theoretical investigations for boosting photocatalytic activity. <i>Applied Surface Science</i> , 2020 , 527, 146815	6.7	5
13	The Influence of The Light-Activated Titania P25 on Human Breast Cancer Cells. <i>Catalysts</i> , 2020 , 10, 238	4	5
12	Three-dimensional monodispersed TiO ₂ microsphere network formed by a sub-zero sol-gel method. <i>Materials Letters</i> , 2020 , 268, 127592	3.3	4
11	Band-gap Engineering of Photocatalysts: Surface Modification versus Doping 2018 , 447-484		4
10	Morphology-Governed Performance of Multi-Dimensional Photocatalysts for Hydrogen Generation. <i>Energies</i> , 2021 , 14, 7223	3.1	3
9	Mono- and Dual-modified Titania with a Ruthenium(II) Complex and Silver Nanoparticles for Photocatalytic Degradation of Organic Compounds. <i>Journal of Advanced Oxidation Technologies</i> , 2016 , 19,		3
8	Novel Structures and Applications of Graphene-Based Semiconductor Photocatalysts: Faceted Particles, Photonic Crystals, Antimicrobial and Magnetic Properties. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1982	2.6	3
7	Vis-Responsive Copper-Modified Titania for Decomposition of Organic Compounds and Microorganisms. <i>Catalysts</i> , 2020 , 10, 1194	4	2
6	TiO ₂ /Au/TiO ₂ plasmonic photocatalyst with enhanced photocatalytic activity and stability under visible-light irradiation. <i>Catalysis Today</i> , 2021 ,	5.3	2

5	Does Symmetry Control Photocatalytic Activity of Titania-Based Photocatalysts?. <i>Symmetry</i> , 2021 , 13, 1682	2.7	2
4	Enhanced Photocatalytic Activity of Hierarchical Bi ₂ WO ₆ Microballs by Modification with Noble Metals. <i>Catalysts</i> , 2022 , 12, 130	4	1
3	P25 and its components - Electronic properties and photocatalytic activities. <i>Surfaces and Interfaces</i> , 2022 , 31, 102057	4.1	1
2	Plasmonic photocatalysis 2021 , 421-446		
1	Development of Monodisperse Mesoporous Microballs Composed of Decahedral Anatase Nanocrystals. <i>Catalysts</i> , 2022 , 12, 408	4	