

Zhishun Wei

List of Publications by Year in descending order

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41
papers

1,175
citations

430754

18
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377752

34
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42
all docs

42
docs citations

42
times ranked

1435
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced photocatalytic, electrochemical and photoelectrochemical properties of TiO ₂ nanotubes arrays modified with Cu, AgCu and Bi nanoparticles obtained via radiolytic reduction. <i>Applied Surface Science</i> , 2016, 387, 89-102.	3.1	106
2	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.	10.8	101
3	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.	3.1	91
4	Noble metal-modified faceted anatase titania photocatalysts: Octahedron versus decahedron. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 574-587.	10.8	71
5	Silver-modified titania with enhanced photocatalytic and antimicrobial properties under UV and visible light irradiation. <i>Catalysis Today</i> , 2015, 252, 136-142.	2.2	66
6	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.	10.8	56
7	Size-controlled gold nanoparticles on octahedral anatase particles as efficient plasmonic photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 393-405.	10.8	52
8	Interparticle electron transfer in methanol dehydrogenation on platinum-loaded titania particles prepared from P25. <i>Catalysis Today</i> , 2018, 303, 327-333.	2.2	52
9	Morphology-dependent photocatalytic activity of octahedral anatase particles prepared by ultrasonication-hydrothermal reaction of titanates. <i>Nanoscale</i> , 2015, 7, 12392-12404.	2.8	48
10	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.	3.1	43
11	Preparation of CdS and Bi ₂ S ₃ 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.	1.6	42
12	Morphology- and Crystalline Composition-Governed Activity of Titania-Based Photocatalysts: Overview and Perspective. <i>Catalysts</i> , 2019, 9, 1054.	1.6	42
13	Silver- and copper-modified decahedral anatase titania particles as visible light-responsive plasmonic photocatalyst. <i>Journal of Photonics for Energy</i> , 2016, 7, 012008.	0.8	40
14	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.	1.7	39
15	Noble metal-modified titania with visible-light activity for the decomposition of microorganisms. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 829-841.	1.5	36
16	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.	10.8	25
17	Enhanced Photocatalytic Activity by Particle Morphology: Preparation, Characterization, and Photocatalytic Activities of Octahedral Anatase Titania Particles. <i>Chemistry Letters</i> , 2014, 43, 346-348.	0.7	23
18	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, 19573-19587.	1.7	21

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19	Size-Controlled Synthesis of Pt Particles on TiO ₂ Surface: Physicochemical Characteristic and Photocatalytic Activity. <i>Catalysts</i> , 2019, 9, 940.	1.6	19
20	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.	1.6	18
21	Morphology-Governed Performance of Plasmonic Photocatalysts. <i>Catalysts</i> , 2020, 10, 1070.	1.6	17
22	Influence of Semiconductor Morphology on Photocatalytic Activity of Plasmonic Photocatalysts: Titanate Nanowires and Octahedral Anatase Nanoparticles. <i>Nanomaterials</i> , 2019, 9, 1447.	1.9	15
23	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.	3.1	14
24	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.	3.1	14
25	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.	1.3	14
26	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.	0.9	13
27	Vis-Responsive Copper-Modified Titania for Decomposition of Organic Compounds and Microorganisms. <i>Catalysts</i> , 2020, 10, 1194.	1.6	13
28	Noble Metal Nanoparticles for Water Purification. , 2019, , 553-579.		10
29	Enhanced Photocatalytic Activity of Hierarchical Bi ₂ WO ₆ Microballs by Modification with Noble Metals. <i>Catalysts</i> , 2022, 12, 130.	1.6	10
30	P25 and its components - Electronic properties and photocatalytic activities. <i>Surfaces and Interfaces</i> , 2022, 31, 102057.	1.5	9
31	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, 316-323.	0.9	8
32	Three-dimensional monodispersed TiO ₂ microsphere network formed by a sub-zero sol-gel method. <i>Materials Letters</i> , 2020, 268, 127592.	1.3	8
33	TiO ₂ /Au/TiO ₂ plasmonic photocatalyst with enhanced photocatalytic activity and stability under visible-light irradiation. <i>Catalysis Today</i> , 2022, 397-399, 257-264.	2.2	7
34	Morphology-Governed Performance of Multi-Dimensional Photocatalysts for Hydrogen Generation. <i>Energies</i> , 2021, 14, 7223.	1.6	6
35	The property-governed activity of silver-modified titania photocatalysts: The influence of titania matrix. <i>Journal of Chemical Physics</i> , 2022, 156, .	1.2	6
36	The Influence of The Light-Activated Titania P25 on Human Breast Cancer Cells. <i>Catalysts</i> , 2020, 10, 238.	1.6	5

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37	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, .	0.5	3
38	Does Symmetry Control Photocatalytic Activity of Titania-Based Photocatalysts?. <i>Symmetry</i> , 2021, 13, 1682.	1.1	3
39	Preparation and Chromaticity Control of CoTiO ₃ /NiTiO ₃ Co-Coated TiO ₂ Composite Pigments. <i>Materials</i> , 2022, 15, 1456.	1.3	3
40	Plasmonic photocatalysis. , 2021, , 421-446.		0
41	Development of Monodisperse Mesoporous Microballs Composed of Decahedral Anatase Nanocrystals. <i>Catalysts</i> , 2022, 12, 408.	1.6	0