

Changhua Wang

List of Publications by Year in descending order

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81743

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Bi ₄ TaO ₈ Cl/Bi heterojunction enables high-selectivity photothermal catalytic conversion of CO ₂ -H ₂ O flow to liquid alcohol. <i>Chemical Engineering Journal</i> , 2022, 435, 135133.	6.6	27
2	Photothermal synergic enhancement of direct Z-scheme behavior of Bi ₄ TaO ₈ Cl/W ₁₈ O ₄₉ heterostructure for CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118401.	10.8	115
3	Thermal coupled photoconductivity as a tool to understand the photothermal catalytic reduction of CO ₂ . <i>Chinese Journal of Catalysis</i> , 2020, 41, 154-160.	6.9	59
4	Photoreduced nanocomposites of graphene oxide/N-doped carbon dots toward all-carbon memristive synapses. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	47
5	Anatase/Bronze TiO ₂ Heterojunction: Enhanced Photocatalysis and Prospect in Photothermal Catalysis. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 992-999.	1.3	26
6	W-Doped TiO ₂ for photothermocatalytic CO ₂ reduction. <i>Nanoscale</i> , 2020, 12, 17245-17252.	2.8	37
7	Elucidation of the electron energy structure of TiO ₂ (B) and anatase photocatalysts through analysis of electron trap density. <i>RSC Advances</i> , 2020, 10, 18496-18501.	1.7	11
8	Solution plasma boosts facet-dependent photoactivity of decahedral BiVO ₄ . <i>Chemical Engineering Journal</i> , 2020, 397, 125381.	6.6	28
9	Enhanced Solar Photothermal Catalysis over Solution Plasma Activated TiO ₂ . <i>Advanced Science</i> , 2020, 7, 2000204.	5.6	89
10	High-humidity tolerance of porous TiO ₂ (B) microspheres in photothermal catalytic removal of NO. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1622-1632.	6.9	14
11	Revisiting Pt/TiO ₂ photocatalysts for thermally assisted photocatalytic reduction of CO ₂ . <i>Nanoscale</i> , 2020, 12, 7000-7010.	2.8	73
12	Revisiting cocatalyst/TiO ₂ photocatalyst in blue light photothermocatalysis. <i>Catalysis Today</i> , 2019, 335, 286-293.	2.2	16
13	TiO _{2-x} /CoO _x photocatalyst sparkles in photothermocatalytic reduction of CO ₂ with H ₂ O steam. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 760-770.	10.8	132
14	Ti ³⁺ defect mediated g-C ₃ N ₄ /TiO ₂ Z-scheme system for enhanced photocatalytic redox performance. <i>Applied Surface Science</i> , 2018, 448, 288-296.	3.1	89
15	Control over energy level match in Keggin polyoxometallate-TiO ₂ microspheres for multielectron photocatalytic reactions. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 79-89.	10.8	46
16	Minimization of defects in Nb-doped TiO ₂ photocatalysts by molten salt flux. <i>Ceramics International</i> , 2018, 44, 10249-10257.	2.3	8
17	The W@WO ₃ ohmic contact induces a high-efficiency photooxidation performance. <i>Dalton Transactions</i> , 2017, 46, 1487-1494.	1.6	18
18	Transparent Nb-doped TiO ₂ films with the [001] preferred orientation for efficient photocatalytic oxidation performance. <i>Dalton Transactions</i> , 2017, 46, 15363-15372.	1.6	13

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19	Surface oxygen vacancies on WO ₃ contributed to enhanced photothermo-synergistic effect. Applied Surface Science, 2017, 391, 654-661.	3.1	85
20	Synergistic effect of surface self-doping and Fe species-grafting for enhanced photocatalytic activity of TiO ₂ under visible-light. Applied Surface Science, 2017, 396, 26-35.	3.1	28
21	Synergic effects of Cu O electron transfer co-catalyst and valence band edge control over TiO ₂ for efficient visible-light photocatalysis. Chinese Journal of Catalysis, 2017, 38, 2120-2131.	6.9	30
22	Enhanced photoelectrochemical performance of nanoporous BiVO ₄ photoanode by combining surface deposited cobalt-phosphate with hydrogenation treatment. Electrochimica Acta, 2016, 195, 51-58.	2.6	66
23	Ultrasonic spray pyrolysis assembly of a TiO ₂ @WO ₃ @Pt multi-heterojunction microsphere photocatalyst using highly crystalline WO ₃ nanosheets: less is better. New Journal of Chemistry, 2016, 40, 3225-3232.	1.4	8
24	Defect-Induced Yellow Color in Nb-Doped TiO ₂ and Its Impact on Visible-Light Photocatalysis. Journal of Physical Chemistry C, 2015, 119, 16623-16632.	1.5	142
25	Efficiency enhanced rutile TiO ₂ nanowire solar cells based on an Sb ₂ S ₃ absorber and a CuI hole conductor. New Journal of Chemistry, 2015, 39, 7243-7250.	1.4	7
26	Correlation between band alignment and enhanced photocatalysis: a case study with anatase/TiO ₂ (B) nanotube heterojunction. Dalton Transactions, 2015, 44, 13331-13339.	1.6	29
27	Simple Ethanol Impregnation Treatment Can Enhance Photocatalytic Activity of TiO ₂ Nanoparticles under Visible-Light Irradiation. ACS Applied Materials & Interfaces, 2015, 7, 7752-7758.	4.0	78
28	Bilayer TiO ₂ photoanode consisting of a nanowire@nanoparticle bottom layer and a spherical voids scattering layer for dye-sensitized solar cells. New Journal of Chemistry, 2015, 39, 4845-4851.	1.4	23
29	Promotion of multi-electron transfer for enhanced photocatalysis: A review focused on oxygen reduction reaction. Applied Surface Science, 2015, 358, 28-45.	3.1	115
30	Vacuum heat treated titanate nanotubes for visible-light photocatalysis. New Journal of Chemistry, 2015, 39, 1281-1286.	1.4	9
31	Photoelectrochemical Water Splitting with Rutile TiO ₂ Nanowires Array: Synergistic Effect of Hydrogen Treatment and Surface Modification with Anatase Nanoparticles. Electrochimica Acta, 2014, 130, 290-295.	2.6	84
32	TiO ₂ (B) nanosheets mediate phase selective synthesis of TiO ₂ nanostructured photocatalyst. Applied Surface Science, 2014, 292, 937-943.	3.1	14
33	Photocatalytic activities of heterostructured TiO ₂ -graphene porous microspheres prepared by ultrasonic spray pyrolysis. Journal of Alloys and Compounds, 2014, 584, 180-184.	2.8	39
34	Multi-heterojunction photocatalysts based on WO ₃ nanorods: Structural design and optimization for enhanced photocatalytic activity under visible light. Chemical Engineering Journal, 2014, 237, 29-37.	6.6	63
35	Coexistence of an anatase/TiO ₂ (B) heterojunction and an exposed (001) facet in TiO ₂ nanoribbon photocatalysts synthesized via a fluorine-free route and topotactic transformation. Nanoscale, 2014, 6, 5329.	2.8	46
36	Enhanced electrochromic properties of a TiO ₂ nanowire array via decoration with anatase nanoparticles. Journal of Materials Chemistry C, 2014, 2, 7891.	2.7	47

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37	Decorating hierarchical Bi ₂ MoO ₆ microspheres with uniformly dispersed ultrafine Ag nanoparticles by an in situ reduction process for enhanced visible light-induced photocatalysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 425, 99-107.	2.3	50
38	Rutile TiO ₂ nanowire array infiltrated with anatase nanoparticles as photoanode for dye-sensitized solar cells: enhanced cell performance via the rutile/anatase heterojunction. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3309.	5.2	49
39	Heterostructured TiO ₂ /WO ₃ porous microspheres: Preparation, characterization and photocatalytic properties. <i>Catalysis Today</i> , 2013, 201, 195-202.	2.2	118
40	Growth of single-crystalline rutile TiO ₂ nanowire array on titanate nanosheet film for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 6389.	6.7	62
41	Tubular nanocomposite catalysts based on size-controlled and highly dispersed silver nanoparticles assembled on electrospun silicnanotubes for catalytic reduction of 4-nitrophenol. <i>Journal of Materials Chemistry</i> , 2012, 22, 1387-1395.	6.7	251
42	Synthesis of Natural Cellulose-Templated TiO ₂ /Ag Nanosponge Composites and Photocatalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2781-2787.	4.0	144
43	Morphologically-tunable TiO ₂ nanorod film with high energy facets: green synthesis, growth mechanism and photocatalytic activity. <i>Nanoscale</i> , 2012, 4, 5023.	2.8	44
44	Simple route to self-assembled BiOCl networks photocatalyst from nanosheet with exposed (001) facet. <i>Micro and Nano Letters</i> , 2012, 7, 152.	0.6	35
45	Solar photocatalytic activities of porous Nb-doped TiO ₂ microspheres prepared by ultrasonic spray pyrolysis. <i>Solid State Sciences</i> , 2012, 14, 139-144.	1.5	77
46	Bi ₄ Ti ₃ O ₁₂ nanosheets/TiO ₂ submicron fibers heterostructures: in situ fabrication and high visible light photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2011, 21, 6922.	6.7	113
47	Hydrothermal Growth of Layered Titanate Nanosheet Arrays on Titanium Foil and Their Topotactic Transformation to Heterostructured TiO ₂ Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22276-22285.	1.5	111
48	In situ assembly of well-dispersed gold nanoparticles on electrospun silica nanotubes for catalytic reduction of 4-nitrophenol. <i>Chemical Communications</i> , 2011, 47, 3906.	2.2	276
49	A Facile in Situ Hydrothermal Method to SrTiO ₃ /TiO ₂ Nanofiber Heterostructures with High Photocatalytic Activity. <i>Langmuir</i> , 2011, 27, 2946-2952.	1.6	269
50	Rutile TiO ₂ nanowires on anatase TiO ₂ nanofibers: A branched heterostructured photocatalysts via interface-assisted fabrication approach. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 157-164.	5.0	50
51	One-Step Nonaqueous Synthesis of Pure Phase TiO ₂ Nanocrystals from TiCl ₄ in Butanol and Their Photocatalytic Properties. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-6.	1.5	5
52	Three-dimensional hierarchical CeO ₂ nanowalls/TiO ₂ nanofibers heterostructure and its high photocatalytic performance. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 105-110.	1.1	28
53	Fabrication, structure, and enhanced photocatalytic properties of hierarchical CeO ₂ nanostructures/TiO ₂ nanofibers heterostructures. <i>Materials Research Bulletin</i> , 2010, 45, 1406-1412.	2.7	64
54	Electrospun Nanofibers of p-Type NiO/n-Type ZnO Heterojunctions with Enhanced Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2915-2923.	4.0	574

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55	Electrospun Nanofibers of ZnO [~] SnO ₂ Heterojunction with High Photocatalytic Activity. Journal of Physical Chemistry C, 2010, 114, 7920-7925.	1.5	345
56	Polyacrylonitrile and Carbon Nanofibers with Controllable Nanoporous Structures by Electrospinning. Macromolecular Materials and Engineering, 2009, 294, 673-678.	1.7	119
57	Electrospinning preparation, characterization and photocatalytic properties of Bi ₂ O ₃ nanofibers. Journal of Colloid and Interface Science, 2009, 333, 242-248.	5.0	183
58	ZnO Hollow Nanofibers: Fabrication from Facile Single Capillary Electrospinning and Applications in Gas Sensors. Journal of Physical Chemistry C, 2009, 113, 19397-19403.	1.5	189
59	SnO ₂ Nanostructures-TiO ₂ Nanofibers Heterostructures: Controlled Fabrication and High Photocatalytic Properties. Inorganic Chemistry, 2009, 48, 7261-7268.	1.9	311
60	Water [~] Dichloromethane Interface Controlled Synthesis of Hierarchical Rutile TiO ₂ Superstructures and Their Photocatalytic Properties. Inorganic Chemistry, 2009, 48, 1105-1113.	1.9	92
61	Photoluminescence properties of highly dispersed ZnO quantum dots in polyvinylpyrrolidone nanotubes prepared by a single capillary electrospinning. Journal of Chemical Physics, 2008, 129, 114708.	1.2	23
62	One-step sol-gel preparation and enhanced photocatalytic activity of porous polyoxometalate [~] tantalum pentoxide nanocomposites. Journal of Colloid and Interface Science, 2007, 308, 208-215.	5.0	36
63	A novel preparation of three-dimensionally ordered macroporous M/Ti (M=Zr or Ta) mixed oxide nanoparticles with enhanced photocatalytic activity. Journal of Colloid and Interface Science, 2006, 301, 236-247.	5.0	60
64	Three-dimensionally ordered macroporous Ti [~] xTaxO _{2+x/2} (x=0.025, 0.05, and 0.075) nanoparticles: Preparation and enhanced photocatalytic activity. Materials Letters, 2006, 60, 2711-2714.	1.3	13