

Dong Yang

List of Publications by Year in descending order

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105
papers

7,082
citations

61945

43
h-index

56687

83
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107
all docs

107
docs citations

107
times ranked

9277
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon and Nitrogen Co-doped TiO ₂ with Enhanced Visible-Light Photocatalytic Activity. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 2741-2746.	1.8	524
2	Effects of Boron Doping on Photocatalytic Activity and Microstructure of Titanium Dioxide Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4110-4116.	1.8	432
3	Biomimetic fabrication of g-C ₃ N ₄ /TiO ₂ nanosheets with enhanced photocatalytic activity toward organic pollutant degradation. <i>Chemical Engineering Journal</i> , 2015, 260, 117-125.	6.6	391
4	Three-Dimensional Porous Aerogel Constructed by g-C ₃ N ₄ and Graphene Oxide Nanosheets with Excellent Visible-Light Photocatalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25693-25701.	4.0	383
5	Thylakoid-Inspired Multishell g-C ₃ N ₄ Nanocapsules with Enhanced Visible-Light Harvesting and Electron Transfer Properties for High-Efficiency Photocatalysis. <i>ACS Nano</i> , 2017, 11, 1103-1112.	7.3	368
6	Methods for the regeneration of nicotinamide coenzymes. <i>Green Chemistry</i> , 2013, 15, 1773.	4.6	278
7	Eggshell Membrane Templating of Hierarchically Ordered Macroporous Networks Composed of TiO ₂ Tubes. <i>Advanced Materials</i> , 2002, 14, 1543-1546.	11.1	239
8	Tubular g-C ₃ N ₄ Isotype Heterojunction: Enhanced Visible-Light Photocatalytic Activity through Cooperative Manipulation of Oriented Electron and Hole Transfer. <i>Small</i> , 2016, 12, 4093-4101.	5.2	191
9	Biomimetic Synthesis of TiO ₂ @SiO ₂ @Ag Nanocomposites with Enhanced Visible-Light Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3824-3832.	4.0	186
10	Biomimetic and bioinspired membranes: Preparation and application. <i>Progress in Polymer Science</i> , 2014, 39, 1668-1720.	11.8	174
11	Chitosan/TiO ₂ nanocomposite pervaporation membranes for ethanol dehydration. <i>Chemical Engineering Science</i> , 2009, 64, 3130-3137.	1.9	169
12	Visible-light photocatalytic regeneration of NADH using P-doped TiO ₂ nanoparticles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 43, 44-48.	1.8	156
13	Synthesis of Ag/TiO ₂ Nanotube Heterojunction with Improved Visible-Light Photocatalytic Performance Inspired by Bioadhesion. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5827-5835.	1.5	147
14	Graphitic carbon nitride-based nanocomposites as visible-light driven photocatalysts for environmental purification. <i>Environmental Science: Nano</i> , 2017, 4, 1455-1469.	2.2	142
15	Bioinspired construction of multi-enzyme catalytic systems. <i>Chemical Society Reviews</i> , 2018, 47, 4295-4313.	18.7	139
16	Design and synthesis of organic-inorganic hybrid capsules for biotechnological applications. <i>Chemical Society Reviews</i> , 2014, 43, 5192.	18.7	137
17	<i>In situ</i> construction of hydrazone-linked COF-based core-shell hetero-frameworks for enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7724-7732.	5.2	108
18	Preparation of Protamine-Titania Microcapsules Through Synergy Between Layer-by-Layer Assembly and Biomimetic Mineralization. <i>Advanced Functional Materials</i> , 2009, 19, 150-156.	7.8	102

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19	Nitrogen-doped TiO ₂ nanotubes with enhanced photocatalytic activity synthesized by a facile wet chemistry method. <i>Materials Research Bulletin</i> , 2009, 44, 146-150.	2.7	100
20	Zeolite beta-filled chitosan membrane with low methanol permeability for direct methanol fuel cell. <i>Journal of Power Sources</i> , 2008, 183, 454-463.	4.0	87
21	Fabrication of high-permeability and high-capacity monolith for protein chromatography. <i>Journal of Chromatography A</i> , 2007, 1163, 212-218.	1.8	86
22	Improving visible-light photocatalytic activity of N-doped TiO ₂ nanoparticles via sensitization by Zn porphyrin. <i>Applied Surface Science</i> , 2008, 255, 2879-2884.	3.1	85
23	Hierarchically ordered networks comprising crystalline ZrO ₂ tubes through sol-gel mineralization of eggshell membranes. <i>Journal of Materials Chemistry</i> , 2003, 13, 1119-1123.	6.7	78
24	Synthesis and characterization of bamboo-like CdS/TiO ₂ nanotubes composites with enhanced visible-light photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2008, 10, 729-736.	0.8	77
25	Synthesis of anatase titania-carbon nanotubes nanocomposites with enhanced photocatalytic activity through a nanocoating-hydrothermal process. <i>Journal of Nanoparticle Research</i> , 2007, 9, 1087-1096.	0.8	72
26	Nitrogenase-inspired mixed-valence MIL-53(FeII/FeIII) for photocatalytic nitrogen fixation. <i>Chemical Engineering Journal</i> , 2020, 400, 125929.	6.6	70
27	Biomimetic synthesis of titania nanoparticles induced by protamine. <i>Dalton Transactions</i> , 2008, , 4165.	1.6	68
28	Polydimethyl siloxane-graphene nanosheets hybrid membranes with enhanced pervaporative desulfurization performance. <i>Journal of Membrane Science</i> , 2015, 487, 152-161.	4.1	65
29	Covalent functionalization of multi-walled carbon nanotubes by lipase. <i>Journal of Nanoparticle Research</i> , 2007, 9, 1205-1210.	0.8	64
30	Fabrication of bimodal-pore SrTiO ₃ microspheres with excellent photocatalytic performance for Cr(VI) reduction under simulated sunlight. <i>Journal of Hazardous Materials</i> , 2016, 312, 45-54.	6.5	64
31	Nitrogenase-inspired bimetallic metal organic frameworks for visible-light-driven nitrogen fixation. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120167.	10.8	64
32	Well-defined star-shaped calcite crystals formed in agarose gels. <i>Chemical Communications</i> , 2003, , 1180-1181.	2.2	61
33	Boosting Nitrogen Activation via Bimetallic Organic Frameworks for Photocatalytic Ammonia Synthesis. <i>ACS Catalysis</i> , 2021, 11, 9986-9995.	5.5	61
34	Fabrication of antimicrobial bacterial cellulose-Ag/AgCl nanocomposite using bacteria as versatile biofactory. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	59
35	In situ fabrication of Ag ₃ PO ₄ /TiO ₂ nanotube heterojunctions with enhanced visible-light photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12199-12206.	1.3	58
36	Immobilization of trypsin on graphene oxide for microwave-assisted on-plate proteolysis combined with MALDI-MS analysis. <i>Analyst</i> , The, 2012, 137, 2757.	1.7	56

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37	Synthesis and Photocatalytic Properties of Hollow Microparticles of Titania and Titania/Carbon Composites Templated by Sephadex G-100. <i>Chemistry of Materials</i> , 2006, 18, 3477-3485.	3.2	54
38	In situ synthesized rGO@Fe ₃ O ₄ nanocomposites as enzyme immobilization support for achieving high activity recovery and easy recycling. <i>Biochemical Engineering Journal</i> , 2016, 105, 273-280.	1.8	53
39	Acetic acid-assisted supramolecular assembly synthesis of porous g-C ₃ N ₄ hexagonal prism with excellent photocatalytic activity. <i>Applied Surface Science</i> , 2019, 479, 757-764.	3.1	53
40	Removing Cr (VI) in water via visible-light photocatalytic reduction over Cr-doped SrTiO ₃ nanoplates. <i>Chemosphere</i> , 2019, 215, 586-595.	4.2	51
41	A facile method to synthesize nitrogen and fluorine co-doped TiO ₂ nanoparticles by pyrolysis of (NH ₄) ₂ TiF ₆ . <i>Journal of Nanoparticle Research</i> , 2009, 11, 303-313.	0.8	50
42	Coordination between Electron Transfer and Molecule Diffusion through a Bioinspired Amorphous Titania Nanoshell for Photocatalytic Nicotinamide Cofactor Regeneration. <i>ACS Catalysis</i> , 2019, 9, 11492-11501.	5.5	49
43	Phosphorus Quantum Dots-Facilitated Enrichment of Electrons on g-C ₃ N ₄ Hollow Tubes for Visible-Light-Driven Nicotinamide Adenine Dinucleotide Regeneration. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 285-295.	3.2	49
44	Constructing Quantum Dots@Flake Graphitic Carbon Nitride Isotype Heterojunctions for Enhanced Visible-Light-Driven NADH Regeneration and Enzymatic Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6247-6255.	1.8	45
45	Bio-inspired synthesis of three-dimensional porous g-C ₃ N ₄ @carbon microflowers with enhanced oxygen evolution reactivity. <i>Chemical Engineering Journal</i> , 2018, 337, 312-321.	6.6	44
46	Photocatalytic properties of porous C-doped TiO ₂ and Ag/C-doped TiO ₂ nanomaterials by eggshell membrane templating. <i>Journal of Nanoparticle Research</i> , 2009, 11, 375-384.	0.8	39
47	Chitosan membranes filled by GPTMS-modified zeolite beta particles with low methanol permeability for DMFC. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 278-285.	1.8	37
48	Highly efficient covalent immobilization of catalase on titanate nanotubes. <i>Biochemical Engineering Journal</i> , 2014, 83, 8-15.	1.8	37
49	Multi-stepwise charge transfer <i>via</i> MOF@MOF/TiO ₂ dual-heterojunction photocatalysts towards hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9717-9725.	5.2	37
50	Encapsulation of Î ² -Glucuronidase in Biomimetic Alginate Capsules for Bioconversion of Baicalin to Baicalein. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 1883-1890.	1.8	36
51	Biomimetic and bioinspired synthesis of titania and titania-based materials. <i>RSC Advances</i> , 2014, 4, 12388.	1.7	36
52	One-Pot Fabrication of g-C ₃ N ₄ /MWCNTs Nanocomposites with Superior Visible-Light Photocatalytic Performance. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 3679-3687.	1.8	36
53	Synthesis of g-C ₃ N ₄ /Nanosheet/TiO ₂ Heterojunctions Inspired by Bioadhesion and Biomineralization Mechanism. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5516-5525.	1.8	35
54	Titanate nanotubes-embedded chitosan nanocomposite membranes with high isopropanol dehydration performance. <i>Chemical Engineering Science</i> , 2011, 66, 4221-4228.	1.9	34

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55	Metal Hydride-Embedded Titania Coating to Coordinate Electron Transfer and Enzyme Protection in Photo-enzymatic Catalysis. <i>ACS Catalysis</i> , 2021, 11, 476-483.	5.5	34
56	Enhanced stability of catalase covalently immobilized on functionalized titania submicrospheres. <i>Materials Science and Engineering C</i> , 2013, 33, 1438-1445.	3.8	31
57	Carbon-modified TiO ₂ nanotubes with enhanced photocatalytic activity synthesized by a facile wet chemistry method. <i>Scripta Materialia</i> , 2008, 59, 352-355.	2.6	29
58	Biomimetic synthesis of C ₃ N ₄ /TiO ₂ /Ag nanosheet composites with high visible-light photocatalytic performance. <i>RSC Advances</i> , 2015, 5, 56913-56921.	1.7	28
59	Fabrication of nanoplate-like g-C ₃ N ₄ /Bi ₂ TiO ₂₀ heterojunction with enhanced visible-light photocatalytic activity. <i>Materials Research Bulletin</i> , 2017, 93, 91-101.	2.7	28
60	Highly swelling resistant membranes for model gasoline desulfurization. <i>Journal of Membrane Science</i> , 2016, 514, 440-449.	4.1	27
61	Application of hybrid coagulation-microfiltration process for treatment of membrane backwash water from waterworks. <i>Separation and Purification Technology</i> , 2008, 62, 415-422.	3.9	25
62	Facile Synthesis and Novel Application of Zirconia Catalyzed and Templated by Lysozyme. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 1876-1882.	1.8	25
63	Controlled Fabrication of Porous Titania Beads by a Sol-gel Templating Method. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 755-762.	1.8	25
64	Fabrication of Polysaccharide-inorganic Hybrid Biocapsules with Improved Catalytic Activity and Stability. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 2495-2501.	1.8	24
65	Fabrication of three-dimensional porous La-doped SrTiO ₃ microspheres with enhanced visible light catalytic activity for Cr(VI) reduction. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 440-449.	2.3	23
66	Performance comparison of immobilized enzyme on the titanate nanotube surfaces modified by poly(dopamine) and poly(norepinephrine). <i>RSC Advances</i> , 2015, 5, 42461-42467.	1.7	22
67	Chitosan/titanate Nanotube Hybrid Membrane with Low Methanol Crossover for Direct Methanol Fuel Cells. <i>Chemical Engineering and Technology</i> , 2010, 33, 244-250.	0.9	21
68	One-Pot Fabrication of Fe-Codoped TiO ₂ Sheets with Dominant {001} Facets for Enhanced Visible Light Photocatalytic Activity. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 19249-19256.	1.8	21
69	Monolithic biocatalytic systems with enhanced stabilities constructed through biomimetic silicification-induced enzyme immobilization on rGO/FeOOH hydrogel. <i>Biochemical Engineering Journal</i> , 2017, 117, 52-61.	1.8	21
70	Fabrication of Boehmite/Alginate Hybrid Beads for Efficient Enzyme Immobilization. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14898-14905.	1.8	20
71	Synthesis of high-efficient g-C ₃ N ₄ /polydopamine/CdS nanophotocatalyst based on bioinspired adhesion and chelation. <i>Materials Research Bulletin</i> , 2020, 131, 110970.	2.7	20
72	Sol-gel Derived Boehmite as an Efficient and Robust Carrier for Enzyme Encapsulation. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 255-261.	1.8	19

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73	Bioinspired synthesis of mesoporous ZrO ₂ nanomaterials with elevated defluorination performance in agarose gels. RSC Advances, 2014, 4, 49811-49818.	1.7	19
74	Bioinspired construction of carbonized poly(tannic acid)/g-C ₃ N ₄ nanorod photocatalysts for organics degradation. Applied Surface Science, 2021, 562, 150256.	3.1	19
75	Robust and Recyclable Two-Dimensional Nanobiocatalysts for Biphasic Reactions in Pickering Emulsions. Industrial & Engineering Chemistry Research, 2018, 57, 8708-8717.	1.8	17
76	One-pot fabrication of porous nitrogen-deficient g-C ₃ N ₄ with superior photocatalytic performance. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 112729.	2.0	17
77	Shielding of Enzyme by a Stable and Protective Organosilica Layer on Monolithic Scaffolds for Continuous Bioconversion. Industrial & Engineering Chemistry Research, 2017, 56, 10615-10622.	1.8	15
78	Biomimetic synthesis of 2D/2D mixed graphitic carbon nitride /carbonized polydopamine nanosheets with excellent photocatalytic performance. Materials Chemistry and Physics, 2020, 256, 123621.	2.0	15
79	Bio-inspired synthesis of TiO ₂ hollow nanospheres in agarose gels. Journal of Alloys and Compounds, 2013, 560, 42-48.	2.8	14
80	Crackled nanocapsules: the "imperfect" structure for enzyme immobilization. Chemical Communications, 2019, 55, 7155-7158.	2.2	14
81	Simultaneous size control and surface functionalization of titania nanoparticles through bioadhesion-assisted bio-inspired mineralization. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	13
82	InÂvitro affinity maturation to improve the efficacy of a hypoxia-inducible factor 1± single-domain intrabody. Biochemical and Biophysical Research Communications, 2020, 529, 936-942.	1.0	13
83	Enhancing 6-APA Productivity and Operational Stability of Penicillin G Acylase via Rapid Surface Capping on Commercial Resins. Industrial & Engineering Chemistry Research, 2016, 55, 10263-10270.	1.8	12
84	Characterization of organic matter and disinfection by-products in membrane backwash water from drinking water treatment. Journal of Hazardous Materials, 2009, 168, 753-759.	6.5	11
85	Calcite microrod arrays fabricated via anisotropic dissolution of calcite in the presence of NH ₄ I and (NH ₄) ₂ SO ₄ . CrystEngComm, 2013, 15, 8867.	1.3	11
86	Bioinspired Construction of g-C ₃ N ₄ Nanolayers on a Carbonized Polydopamine Nanosphere Surface with Excellent Photocatalytic Performance. Industrial & Engineering Chemistry Research, 2020, 59, 12389-12398.	1.8	11
87	One-pot biosynthesis of polymer-organic nanocomposites. Journal of Nanoparticle Research, 2011, 13, 2661-2670.	0.8	10
88	Biomimetic synthesis of inorganic nanocomposites by a de novo designed peptide. RSC Advances, 2014, 4, 434-441.	1.7	10
89	On-Surface Bottom-Up Construction of COF Nanoshells towards Photocatalytic H ₂ Production. Research, 2021, 2021, 9798564.	2.8	10
90	Modular assembly of electron transfer pathways in bimetallic MOFs for photocatalytic ammonia synthesis. Catalysis Science and Technology, 2022, 12, 2015-2022.	2.1	10

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91	Fabrication of silica monolithic columns with ordered meso/macropore structure. <i>Materials Chemistry and Physics</i> , 2011, 130, 1280-1286.	2.0	9
92	Novel Hollow Titania Spheres-Chitosan Hybrid Membranes with High Isopropanol Dehydration Performance. <i>Chemical Engineering and Technology</i> , 2013, 36, 332-338.	0.9	9
93	Pyrimidine-modified g-C ₃ N ₄ nanosheets for enhanced photocatalytic H ₂ evolution. <i>Materials Research Bulletin</i> , 2021, 144, 111498.	2.7	9
94	Active site engineering in heterovalent metal organic frameworks for photocatalytic ammonia synthesis. <i>Chemical Engineering Journal</i> , 2022, 443, 136559.	6.6	9
95	Calcite Microneedle Arrays Produced by Inorganic Ion-Assisted Anisotropic Dissolution of Bulk Calcite Crystal. <i>Chemistry - A European Journal</i> , 2014, 20, 4264-4272.	1.7	8
96	Granum-Inspired Photoenzyme-Coupled Catalytic System via Stacked Polymeric Carbon Nitride. <i>ACS Catalysis</i> , 2021, 11, 9210-9220.	5.5	8
97	Combination of Redox Assembly and Biomimetic Mineralization To Prepare Graphene-Based Composite Cellular Foams for Versatile Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43950-43958.	4.0	7
98	Purification and Characterization of <i>Ulva pertusa</i> Kjellm Alkaline Phosphatase. <i>Preparative Biochemistry and Biotechnology</i> , 2003, 33, 113-123.	1.0	6
99	Fabrication of SrTiO ₃ nanotubes via an isomorphic conversion strategy. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	5
100	Biomimetic/Bioinspired Design of Enzyme@capsule Nano/Microsystems. <i>Methods in Enzymology</i> , 2016, 571, 87-112.	0.4	4
101	Current Status of Mining, Modification, and Application of Cellulases in Bioactive Substance Extraction. <i>Current Issues in Molecular Biology</i> , 2021, 43, 687-703.	1.0	3
102	Bioinspired construction of g-C ₃ N ₄ isotype heterojunction on carbonized poly(tannic acid) nanorod surface with multistep electron transfer path. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 431, 114045.	2.0	3
103	Template-free synthesis of TiO ₂ microcages in agarose gels with improved photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	2
104	Kinetics of Inactivation of <i>Ulva pertusa</i> Kjellm Alkaline Phosphatase by Ethylenediaminetetraacetic Acid Disodium. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2001, 16, 313-319.	0.5	0
105	BIOMIMETIC PROTAMINE-TEMPLATED SILICIFICATION. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2014, , 293-320.	0.1	0