

Jincai Zhao

List of Publications by Citations

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158
papers

10,551
citations

46
h-index

100
g-index

173
ext. papers

12,095
ext. citations

10.4
avg, IF

6.56
L-index

#	Paper	IF	Citations
158	Semiconductor-mediated photodegradation of pollutants under visible-light irradiation. <i>Chemical Society Reviews</i> , 2010 , 39, 4206-19	58.5	1785
157	Photoassisted Degradation of Dye Pollutants. 3. Degradation of the Cationic Dye Rhodamine B in Aqueous Anionic Surfactant/TiO ₂ Dispersions under Visible Light Irradiation: Evidence for the Need of Substrate Adsorption on TiO ₂ Particles. <i>Environmental Science & Technology</i> , 1998 , 32, 2394-2400	10.3	518
156	Selective formation of imines by aerobic photocatalytic oxidation of amines on TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3934-7	16.4	347
155	Effect of Transition Metal Ions on the TiO ₂ -Assisted Photodegradation of Dyes under Visible Irradiation: A Probe for the Interfacial Electron Transfer Process and Reaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 318-324	3.4	337
154	Photocatalytic Degradation of Organic Pollutants Under Visible Light Irradiation. <i>Topics in Catalysis</i> , 2005 , 35, 269-278	2.3	323
153	Mechanism of Photodecomposition of H ₂ O ₂ on TiO ₂ Surfaces under Visible Light Irradiation. <i>Langmuir</i> , 2001 , 17, 4118-4122	4	271
152	Cooperative photoredox catalysis. <i>Chemical Society Reviews</i> , 2016 , 45, 3026-38	58.5	264
151	Oxygen atom transfer in the photocatalytic oxidation of alcohols by TiO ₂ : oxygen isotope studies. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6081-4	16.4	253
150	Hydroxylamine Promoted Goethite Surface Fenton Degradation of Organic Pollutants. <i>Environmental Science & Technology</i> , 2017 , 51, 5118-5126	10.3	251
149	Supported silver nanoparticles as photocatalysts under ultraviolet and visible light irradiation. <i>Green Chemistry</i> , 2010 , 12, 414	10	242
148	Photoassisted Degradation of Dye Pollutants. 8. Irreversible Degradation of Alizarin Red under Visible Light Radiation in Air-Equilibrated Aqueous TiO ₂ Dispersions. <i>Environmental Science & Technology</i> , 1999 , 33, 2081-2087	10.3	229
147	Selective aerobic oxidation mediated by TiO(2) photocatalysis. <i>Accounts of Chemical Research</i> , 2014 , 47, 355-63	24.3	225
146	Highly selective deethylation of rhodamine B: Adsorption and photooxidation pathways of the dye on the TiO ₂ /SiO ₂ composite photocatalyst. <i>International Journal of Photoenergy</i> , 2003 , 5, 209-217	2.1	216
145	TiO ₂ -Assisted Photodegradation of Dyes. 9. Photooxidation of a Squarylium Cyanine Dye in Aqueous Dispersions under Visible Light Irradiation. <i>Environmental Science & Technology</i> , 1999 , 33, 1379-1387	10.3	216
144	Evidence for H ₂ O ₂ Generation during the TiO ₂ -Assisted Photodegradation of Dyes in Aqueous Dispersions under Visible Light Illumination. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 4862-4867	3.4	210
143	Photocatalytic aerobic oxidation of alcohols on TiO ₂ : the acceleration effect of a Brønsted acid. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7976-9	16.4	208
142	Visible-Light-Induced Photoredox Catalysis of Dye-Sensitized Titanium Dioxide: Selective Aerobic Oxidation of Organic Sulfides. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4697-700	16.4	179

141	Nonmetal P-doped hematite photoanode with enhanced electron mobility and high water oxidation activity. <i>Energy and Environmental Science</i> , 2015 , 8, 1231-1236	35.4	175
140	Facet-Dependent Cr(VI) Adsorption of Hematite Nanocrystals. <i>Environmental Science & Technology</i> , 2016 , 50, 1964-72	10.3	174
139	Ascorbic acid/Fe@Fe ₂ O ₃ : A highly efficient combined Fenton reagent to remove organic contaminants. <i>Journal of Hazardous Materials</i> , 2016 , 310, 170-8	12.8	141
138	Shape and SPR Evolution of Thorny Gold Nanoparticles Promoted by Silver Ions. <i>Chemistry of Materials</i> , 2007 , 19, 1592-1600	9.6	137
137	Enhancement of photochemical hydrogen evolution over Pt-loaded hierarchical titania photonic crystal. <i>Energy and Environmental Science</i> , 2010 , 3, 1503	35.4	130
136	TiO ₂ -mediated photocatalytic debromination of decabromodiphenyl ether: kinetics and intermediates. <i>Environmental Science & Technology</i> , 2009 , 43, 157-62	10.3	123
135	Photocatalytic degradation of dye sulforhodamine B: a comparative study of photocatalysis with photosensitization. <i>New Journal of Chemistry</i> , 2000 , 24, 411-417	3.6	123
134	Peroxymonosulfate activation by phosphate anion for organics degradation in water. <i>Chemosphere</i> , 2014 , 117, 582-5	8.4	122
133	Pivotal Role and Regulation of Proton Transfer in Water Oxidation on Hematite Photoanodes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2705-11	16.4	98
132	Rate-Limiting O-O Bond Formation Pathways for Water Oxidation on Hematite Photoanode. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3264-3269	16.4	93
131	Detection of Amines with Fluorescent Nanotubes: Applications in the Assessment of Meat Spoilage. <i>ACS Sensors</i> , 2016 , 1, 22-25	9.2	92
130	Photoinduced Electron Storage in WO ₃ /TiO ₂ Nanohybrid Material in the Presence of Oxygen and Postirradiated Reduction of Heavy Metal Ions. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13160-13165	3.8	87
129	Ascorbate-Promoted Surface Iron Cycle for Efficient Heterogeneous Fenton Alachlor Degradation with Hematite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8751-8758	9.5	86
128	Anion (O, N, C, and S) vacancies promoted photocatalytic nitrogen fixation. <i>Green Chemistry</i> , 2019 , 21, 2852-2867	10	84
127	Activation of Water in Titanium Dioxide Photocatalysis by Formation of Surface Hydrogen Bonds: An In Situ IR Spectroscopy Study. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5905-9	16.4	83
126	Tertiary amine mediated aerobic oxidation of sulfides into sulfoxides by visible-light photoredox catalysis on TiO. <i>Chemical Science</i> , 2015 , 6, 5000-5005	9.4	81
125	Synergistic photocatalytic aerobic oxidation of sulfides and amines on TiO under visible-light irradiation. <i>Chemical Science</i> , 2015 , 6, 1075-1082	9.4	79
124	Energy-confined solar thermal ammonia synthesis with K/Ru/TiO ₂ -xHx. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 612-620	21.8	75

123	Selective Formation of Imines by Aerobic Photocatalytic Oxidation of Amines on TiO ₂ . <i>Angewandte Chemie</i> , 2011 , 123, 4020-4023	3.6	66
122	Fabrication of Chiral-Selective Nanotubular Heterojunctions through Living Supramolecular Polymerization. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9539-43	16.4	64
121	Photochemical Aging of Beijing Urban PM: HONO Production. <i>Environmental Science & Technology</i> , 2018 , 52, 6309-6316	10.3	61
120	A Novel ECD ₄ imin Complex Photocatalyst for Efficient Degradation of Organic Pollutants at Neutral pHs under Visible Irradiation. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9409-9414	3.4	61
119	Preparation and photocatalytic properties of a novel kind of loaded photocatalyst of TiO ₂ /SiO ₂ /Fe ₂ O ₃ . <i>Catalysis Letters</i> , 1999 , 58, 245-247	2.8	61
118	Photo-Fenton degradation of malachite green catalyzed by aromatic compounds under visible light irradiation. <i>New Journal of Chemistry</i> , 2002 , 26, 336-341	3.6	60
117	Plasmonic Hot Electrons from Oxygen Vacancies for Infrared Light-Driven Catalytic CO Reduction on Bi ₂ O ₃ . <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 910-916	16.4	59
116	Photocatalytic C-C Coupling from Carbon Dioxide Reduction on Copper Oxide with Mixed-Valence Copper(I)/Copper(II). <i>Journal of the American Chemical Society</i> , 2021 , 143, 2984-2993	16.4	55
115	A role of ionic liquid as an activator for efficient olefin epoxidation catalyzed by polyoxometalate. <i>New Journal of Chemistry</i> , 2008 , 32, 283-289	3.6	53
114	Rapid photocatalytic debromination on TiO ₂ with in-situ formed copper co-catalyst: Enhanced adsorption and visible light activity. <i>Applied Catalysis B: Environmental</i> , 2016 , 194, 150-156	21.8	48
113	Beyond the Thermal Equilibrium Limit of Ammonia Synthesis with Dual Temperature Zone Catalyst Powered by Solar Light. <i>Chem</i> , 2019 , 5, 2702-2717	16.2	46
112	Photoreductive debromination of decabromodiphenyl ethers in the presence of carboxylates under visible light irradiation. <i>Environmental Science & Technology</i> , 2013 , 47, 2370-7	10.3	46
111	An efficient approach for the photodegradation of organic pollutants by immobilized iron ions at neutral pHs. <i>Chemical Communications</i> , 2003 , 1582	5.8	46
110	The Formation of Ti-H Species at Interface Is Lethal to the Efficiency of TiO ₂ -Based Dye-Sensitized Devices. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2083-2089	16.4	41
109	Photochemical Coupling of Iron Redox Reactions and Transformation of Low-Molecular-Weight Organic Matter. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2044-2051	6.4	41
108	Grafting silica species on anatase surface for visible light photocatalytic activity. <i>Energy and Environmental Science</i> , 2011 , 4, 2279	35.4	41
107	Photocatalytic Aerobic Oxidation of Alcohols on TiO ₂ : The Acceleration Effect of a Brønsted Acid. <i>Angewandte Chemie</i> , 2010 , 122, 8148-8151	3.6	39
106	Integrating TEMPO and Its Analogues with Visible-Light Photocatalysis. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 599-613	4.5	38

105	Copper-Based Coordination Polymer Nanostructure for Visible Light Photocatalysis. <i>Advanced Materials</i> , 2016 , 28, 9776-9781	24	38
104	Sonochemical Hydrogen Production Efficiently Catalyzed by Au/TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17728-17733	3.8	38
103	Adsorption factor and photocatalytic degradation of dye-constituent aromatics on the surface of TiO ₂ in the presence of phosphate anions. <i>Research on Chemical Intermediates</i> , 2003 , 29, 733-748	2.8	38
102	Role of elemental carbon in the photochemical aging of soot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7717-7722	11.5	37
101	Aerobic Oxidation of Alcohols on Au Nanocatalyst: Insight to the Roles of the Ni ₂ Al Layered Double Hydroxides Support. <i>ChemCatChem</i> , 2014 , 6, 1737-1747	5.2	37
100	Unraveling the photocatalytic mechanisms on TiO ₂ surfaces using the oxygen-18 isotopic label technique. <i>Molecules</i> , 2014 , 19, 16291-311	4.8	37
99	Ascorbate Induced Facet Dependent Reductive Dissolution of Hematite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1113-1121	3.8	36
98	Visible-Light-Induced Photoredox Catalysis of Dye-Sensitized Titanium Dioxide: Selective Aerobic Oxidation of Organic Sulfides. <i>Angewandte Chemie</i> , 2016 , 128, 4775-4778	3.6	36
97	Stepwise Formation of Photoconductive Nanotubes through a New Top-Down Method. <i>Advanced Materials</i> , 2015 , 27, 7746-51	24	36
96	Photocatalytic Oxidation of Organic Pollutants Catalyzed by an Iron Complex at Biocompatible pH Values: Using O ₂ as Main Oxidant in a Fenton-like Reaction. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4089-4095	3.8	35
95	Photocatalytic degradation of dimethyl phthalate ester using novel hydrophobic TiO ₂ pillared montmorillonite photocatalyst. <i>Research on Chemical Intermediates</i> , 2008 , 34, 67-83	2.8	35
94	Internanofiber Spacing Adjustment in the Bundled Nanofibers for Sensitive Fluorescence Detection of Volatile Organic Compounds. <i>Analytical Chemistry</i> , 2017 , 89, 3814-3818	7.8	34
93	Ascorbic acid induced atrazine degradation. <i>Journal of Hazardous Materials</i> , 2017 , 327, 71-78	12.8	31
92	Modulating the photocatalytic redox preferences between anatase TiO {001} and {101} surfaces. <i>Chemical Communications</i> , 2017 , 53, 787-790	5.8	31
91	The abatement of major pollutants in air and water by environmental catalysis. <i>Frontiers of Environmental Science and Engineering</i> , 2013 , 7, 302-325	5.8	31
90	Discrimination of Five Classes of Explosives by a Fluorescence Array Sensor Composed of Two Tricarbazole-Nanostructures. <i>Analytical Chemistry</i> , 2017 , 89, 11908-11912	7.8	28
89	Inverse kinetic solvent isotope effect in TiO ₂ photocatalytic dehalogenation of non-adsorbable aromatic halides: a proton-induced pathway. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2052-6	16.4	28
88	Rapid, photocatalytic, and deep debromination of polybrominated diphenyl ethers on Pd-TiO ₂ : intermediates and pathways. <i>Chemistry - A European Journal</i> , 2014 , 20, 11163-70	4.8	28

87	Mechanistic study of the TiO ₂ -assisted photodegradation of squarylium cyanine dye in methanolic suspensions exposed to visible light. <i>New Journal of Chemistry</i> , 2000 , 24, 93-98	3.6	28
86	Sensitive Discrimination of Nerve Agent and Sulfur Mustard Simulants Using Fluorescent Coassembled Nanofibers with Förster Resonance Energy Transfer-Enhanced Photostability and Emission. <i>Analytical Chemistry</i> , 2019 , 91, 1711-1714	7.8	28
85	Essential Roles of Proton Transfer in Photocatalytic Redox Reactions. <i>ChemCatChem</i> , 2015 , 7, 724-731	5.2	27
84	Surfactant-additive-free synthesis of 3D anatase TiO ₂ hierarchical architectures with enhanced photocatalytic activity. <i>RSC Advances</i> , 2013 , 3, 17559	3.7	25
83	Controllable Synthesis of 3D Thorny Plasmonic Gold Nanostructures and Their Tunable Optical Properties. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23256-23260	3.8	25
82	Control of Exposed Facet and Morphology of Anatase Crystals through TiO _x F _y Precursor Synthesis and Impact of the Facet on Crystal Phase Transition. <i>Chemistry of Materials</i> , 2014 , 26, 1014-1018	9.6	24
81	Hydrogen Spillover to Oxygen Vacancy of TiOH/Fe: Breaking the Scaling Relationship of Ammonia Synthesis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17403-17412	16.4	24
80	Two-Dimensional Seeded Self-Assembly of a Complex Hierarchical Perylene-Based Heterostructure. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11380-11384	16.4	23
79	Boosting thermo-photocatalytic CO conversion activity by using photosynthesis-inspired electron-proton-transfer mediators. <i>Nature Communications</i> , 2021 , 12, 123	17.4	23
78	Photochemical Aging of Soot in the Aqueous Phase: Release of Dissolved Black Carbon and the Formation of O ₂ . <i>Environmental Science & Technology</i> , 2019 , 53, 12311-12319	10.3	22
77	Fast and Ultrasensitive Detection of a Nerve Agent Simulant Using Carbazole-Based Nanofibers with Amplified Ratiometric Fluorescence Responses. <i>Analytical Chemistry</i> , 2018 , 90, 7131-7134	7.8	21
76	The Surface-Structure Sensitivity of Dioxygen Activation in the Anatase-Photocatalyzed Oxidation Reaction. <i>Angewandte Chemie</i> , 2012 , 124, 3242-3246	3.6	20
75	Direct Four-Electron Reduction of O ₂ to H ₂ O on TiO ₂ Surfaces by Pendant Proton Relay. <i>Angewandte Chemie</i> , 2013 , 125, 9868-9872	3.6	20
74	Size-dependent hydroxyl radicals generation induced by SiO ₂ ultra-fine particles: The role of surface iron. <i>Science in China Series B: Chemistry</i> , 2009 , 52, 1033-1041		20
73	Desulfurization of thiophenes in oils into H ₂ SO ₄ using molecular oxygen. <i>Applied Catalysis B: Environmental</i> , 2018 , 235, 207-213	21.8	19
72	Sensitive Detection of a Nerve-Agent Simulant through Retightening Internanofiber Binding for Fluorescence Enhancement. <i>Analytical Chemistry</i> , 2018 , 90, 1498-1501	7.8	18
71	Fe ₂ O ₃ as a versatile and efficient oxygen atom transfer catalyst in combination with H ₂ O as the oxygen source. <i>Nature Catalysis</i> , 2021 , 4, 684-691	36.5	18
70	Catalytic hydrodehalogenation over supported gold: Electron transfer versus hydride transfer. <i>Applied Catalysis B: Environmental</i> , 2018 , 231, 262-268	21.8	17

69	Photocatalytic debromination of decabromodiphenyl ether by graphitic carbon nitride. <i>Science China Chemistry</i> , 2012 , 55, 2532-2536	7.9	17
68	Photodecomposition of amino acids and photocurrent generation on TiO ₂ /OTE electrodes prepared by pulse laser deposition. <i>Catalysis Letters</i> , 1999 , 60, 95-98	2.8	17
67	Supported noble metal nanoparticles as photo/sono-catalysts for synthesis of chemicals and degradation of pollutants. <i>Science China Chemistry</i> , 2011 , 54, 887-897	7.9	16
66	Photocatalytic Hydrodehalogenation for the Removal of Halogenated Aromatic Contaminants. <i>ChemCatChem</i> , 2019 , 11, 258-268	5.2	16
65	Molecular-scale structures of uranyl surface complexes on hematite facets. <i>Environmental Science: Nano</i> , 2019 , 6, 892-903	7.1	15
64	Nickel-Coordinated Carbon Nitride as a Metallaphotoredox Platform for the Cross-Coupling of Aryl Halides with Alcohols. <i>ACS Catalysis</i> , 2020 , 10, 15178-15185	13.1	15
63	Direction-Controlled Light-Driven Movement of Microribbons. <i>Advanced Materials</i> , 2016 , 28, 8538-8545	24	15
62	Catalase Nanocapsules Protected by Polymer Shells for Scavenging Free Radicals of Tobacco Smoke. <i>Advanced Functional Materials</i> , 2015 , 25, 5159-5165	15.6	15
61	A new type of covalent-functional graphene donor-acceptor hybrid and its improved photoelectrochemical performance. <i>Science China Chemistry</i> , 2011 , 54, 1622-1626	7.9	15
60	Selective photooxidation of styrene in organic/water biphasic media. <i>New Journal of Chemistry</i> , 2004 , 28, 1464-1469	3.6	15
59	Doping-Promoted Solar Water Oxidation on Hematite Photoanodes. <i>Molecules</i> , 2016 , 21,	4.8	15
58	Highly Selective Detection of Benzene, Toluene, and Xylene Hydrocarbons Using Coassembled Microsheets with Förster Resonance Energy Transfer-Enhanced Photostability. <i>Analytical Chemistry</i> , 2019 , 91, 768-771	7.8	15
57	Interpenetrated Binary Supramolecular Nanofibers for Sensitive Fluorescence Detection of Six Classes of Explosives. <i>Analytical Chemistry</i> , 2018 , 90, 4273-4276	7.8	14
56	Fluorescence Detection of a Broad Class of Explosives with One Zinc(II)-Coordination Nanofiber. <i>Analytical Chemistry</i> , 2016 , 88, 10826-10830	7.8	14
55	Fabrication of Single-Handed Nanocoils with Controlled Length via a Living Supramolecular Self-Assembly. <i>Chemistry of Materials</i> , 2019 , 31, 1403-1407	9.6	13
54	Nitrate-Enhanced Oxidation of SO on Mineral Dust: A Vital Role of a Proton. <i>Environmental Science & Technology</i> , 2019 , 53, 10139-10145	10.3	13
53	Nanocoiled Assembly of Asymmetric Perylene Diimides: Formulation of Structural Factors. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6446-6452	3.8	13
52	Ultrasensitive Detection of Sulfur Mustard via Differential Noncovalent Interactions. <i>Analytical Chemistry</i> , 2019 , 91, 6408-6412	7.8	12

51	The Key Role of Sulfate in the Photochemical Renoxification on Real PM. <i>Environmental Science & Technology</i> , 2020 , 54, 3121-3128	10.3	12
50	Highly Fluorescent Nanotubes with Tunable Diameter and Wall Thickness Self-Assembled from Asymmetric Perylene Diimides. <i>Small</i> , 2016 , 12, 4363-9	11	12
49	Mechanistic Studies of TiO Photocatalysis and Fenton Degradation of Hydrophobic Aromatic Pollutants in Water. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3568-3574	4.5	12
48	Plasmonic Hot Electrons from Oxygen Vacancies for Infrared Light-Driven Catalytic CO ₂ Reduction on Bi ₂ O ₃ . <i>Angewandte Chemie</i> , 2021 , 133, 923-929	3.6	12
47	Turn-on Fluorescent Detection of Hydrogen Peroxide and Triacetone Triperoxide via Enhancing Interfacial Interactions of a Blended System. <i>Analytical Chemistry</i> , 2019 , 91, 6967-6970	7.8	11
46	Emergent Self-Assembly Pathways to Multidimensional Hierarchical Assemblies using a Hetero-Seeding Approach. <i>Chemistry - A European Journal</i> , 2019 , 25, 13484-13490	4.8	11
45	Proton-free electron-trapping feature of titanium dioxide nanoparticles without the characteristic blue color. <i>Communications Chemistry</i> , 2019 , 2,	6.3	11
44	Mechanism of photocatalytic degradation of dye MG by TiO ₂ -film electrode with cathodic bias potential. <i>Science Bulletin</i> , 2010 , 55, 131-139		11
43	Quantitative isotope measurements in heterogeneous photocatalysis and electrocatalysis. <i>Energy and Environmental Science</i> , 2020 , 13, 2602-2617	35.4	11
42	Localized TiIII mediated dissociative electron transfer for carbon halogen bond activation on TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 322-328	21.8	10
41	Activation of Water in Titanium Dioxide Photocatalysis by Formation of Surface Hydrogen Bonds: An In Situ IR Spectroscopy Study. <i>Angewandte Chemie</i> , 2015 , 127, 6003-6007	3.6	10
40	Photoinduced Uptake and Oxidation of SO on Beijing Urban PM. <i>Environmental Science & Technology</i> , 2020 , 54, 14868-14876	10.3	10
39	Sensitive Fluorescence Detection of Phthalates by Suppressing the Intramolecular Motion of Nitrophenyl Groups in Porous Crystalline Ribbons. <i>Analytical Chemistry</i> , 2019 , 91, 13355-13359	7.8	9
38	Selective activation of secondary C-H bonds by an iron catalyst: insights into possibilities created by the use of a carboxyl-containing bipyridine ligand. <i>New Journal of Chemistry</i> , 2013 , 37, 3267	3.6	9
37	Two-Dimensional Seeded Self-Assembly of a Complex Hierarchical Perylene-Based Heterostructure. <i>Angewandte Chemie</i> , 2017 , 129, 11538-11542	3.6	9
36	Inverse Kinetic Solvent Isotope Effect in TiO ₂ Photocatalytic Dehalogenation of Non-adsorbable Aromatic Halides: A Proton-Induced Pathway. <i>Angewandte Chemie</i> , 2015 , 127, 2080-2084	3.6	9
35	Morphological Transformation between Nanocoils and Nanoribbons via Defragmentation Structural Rearrangement or Fragmentation-recombination Mechanism. <i>Scientific Reports</i> , 2016 , 6, 27335	4.9	9
34	Sulphur vacancy derived anaerobic hydroxyl radical generation at the pyrite-water interface: Pollutants removal and pyrite self-oxidation behavior. <i>Applied Catalysis B: Environmental</i> , 2021 , 290, 120051	21.8	9

33	Ligand directed debromination of tetrabromodiphenyl ether mediated by nickel under visible irradiation. <i>Environmental Science: Nano</i> , 2019 , 6, 1585-1593	7.1	8
32	Molecular Interactions Control Quantum Chain Reactions toward Distinct Photoresponsive Properties of Molecular Crystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10649-10652	16.4	8
31	Enhanced Photochemical Volatile Organic Compounds Release from Fatty Acids by Surface-Enriched Fe(III). <i>Environmental Science & Technology</i> , 2020 , 54, 13448-13457	10.3	7
30	Light-Driven Continuous Twist Movements of Microribbons. <i>Small</i> , 2019 , 15, e1804102	11	7
29	Vacuum synthesis and determination of the ionization energies of different molecular orbitals for BrOBr and HOBr. <i>Journal of Chemical Physics</i> , 2003 , 119, 7111-7114	3.9	6
28	Kinetic Control of a Self-Assembly Pathway towards Hidden Chiral Microcoils. <i>Chemistry - A European Journal</i> , 2019 , 25, 7463-7468	4.8	5
27	Light-Driven Crawling of Molecular Crystals by Phase-Dependent Transient Elastic Lattice Deformation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10337-10342	16.4	5
26	Diverse macroscopic helical motions of microribbons driven by electrons. <i>Chemical Communications</i> , 2017 , 53, 2578-2581	5.8	4
25	Kinetically Stable Nanoribbons with Improved Exciton Migration Length for Detecting Explosives. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4880-4885	5.6	4
24	Identifying the active photocatalytic H ₂ -production sites on TiO ₂ -supported Pt nanoparticles by the in-situ infrared spectrum of CO. <i>Science China Chemistry</i> , 2020 , 63, 354-360	7.9	4
23	Photo-electrochemical water splitting system with three-layer n-type organic semiconductor film as photoanode under visible irradiation. <i>Science China Chemistry</i> , 2012 , 55, 1953-1958	7.9	4
22	Investigation of the intermediates formed during the degradation of Malachite Green in the presence of Fe ³⁺ and H ₂ O ₂ under visible irradiation. <i>Research on Chemical Intermediates</i> , 2001 , 27, 237-248	2.8	4
21	Highly Photostable and Luminescent Donor-Acceptor Molecules for Ultrasensitive Detection of Sulfur Mustard. <i>Advanced Science</i> , 2021 , 8, 2002615	13.6	4
20	Aqueous Oxidations Started by TiO Photoinduced Holes Can Be a Rate-Determining Step. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2048-2051	4.5	3
19	Crucial Effect of Ti-H Species Generated in the Visible-Light-Driven Transformations: Slowed-Down Proton-Coupled Electron Transfer. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3941-3946	6.4	3
18	Concerted Two-Electron Transfer and High Selectivity of TiO ₂ in Photocatalyzed Deoxygenation of Epoxides. <i>Angewandte Chemie</i> , 2013 , 125, 12868-12872	3.6	3
17	Efficient degradation of dye pollutants using dioxygen mediated by iron(II) 2,2'-bipyridine loaded layered clay catalyst under visible irradiation. <i>Science in China Series B: Chemistry</i> , 2006 , 49, 407-410		3
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