

Chun-cheng Chen

List of Publications by Year in descending order

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178
papers

16,741
citations

17429

63
h-index

15716

125
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201
all docs

201
docs citations

201
times ranked

16370
citing authors

#	ARTICLE	IF	CITATIONS
1	Semiconductor-mediated photodegradation of pollutants under visible-light irradiation. <i>Chemical Society Reviews</i> , 2010, 39, 4206.	18.7	2,011
2	Efficient Degradation of Toxic Organic Pollutants with Ni ₂ O ₃ /TiO ₂ -xBx under Visible Irradiation. <i>Journal of the American Chemical Society</i> , 2004, 126, 4782-4783.	6.6	1,105
3	Visible-Light-Induced Aerobic Oxidation of Alcohols in a Coupled Photocatalytic System of Dye-Sensitized TiO ₂ and TEMPO. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9730-9733.	7.2	440
4	Selective Formation of Imines by Aerobic Photocatalytic Oxidation of Amines on TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3934-3937.	7.2	396
5	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.	1.2	369
6	Change of Adsorption Modes of Dyes on Fluorinated TiO ₂ and Its Effect on Photocatalytic Degradation of Dyes under Visible Irradiation. <i>Langmuir</i> , 2008, 24, 7338-7345.	1.6	359
7	Photocatalytic Degradation of Organic Pollutants Under Visible Light Irradiation. <i>Topics in Catalysis</i> , 2005, 35, 269-278.	1.3	358
8	Mechanism of Photodecomposition of H ₂ O ₂ on TiO ₂ Surfaces under Visible Light Irradiation. <i>Langmuir</i> , 2001, 17, 4118-4122.	1.6	324
9	Photodegradation of Sulforhodamine-B Dye in Platinized Titania Dispersions under Visible Light Irradiation: Influence of Platinum as a Functional Co-catalyst. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5022-5028.	1.2	307
10	Photosensitized Degradation of Dyes in Polyoxometalate Solutions Versus TiO ₂ Dispersions under Visible-Light Irradiation: Mechanistic Implications. <i>Chemistry - A European Journal</i> , 2004, 10, 1956-1965.	1.7	288
11	Probing paramagnetic species in titania-based heterogeneous photocatalysis by electron spin resonance (ESR) spectroscopy—A mini review. <i>Chemical Engineering Journal</i> , 2011, 170, 353-362.	6.6	280
12	Oxygen Atom Transfer in the Photocatalytic Oxidation of Alcohols by TiO ₂ : Oxygen Isotope Studies. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6081-6084.	7.2	276
13	Surface Modification of TiO ₂ by Phosphate: Effect on Photocatalytic Activity and Mechanism Implication. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5993-6001.	1.5	262
14	Selective Aerobic Oxidation Mediated by TiO ₂ Photocatalysis. <i>Accounts of Chemical Research</i> , 2014, 47, 355-363.	7.6	252
15	Fenton Degradation of Organic Compounds Promoted by Dyes under Visible Irradiation. <i>Environmental Science & Technology</i> , 2005, 39, 5810-5815.	4.6	241
16	Photocatalytic Aerobic Oxidation of Alcohols on TiO ₂ : The Acceleration Effect of a Brønsted Acid. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7976-7979.	7.2	224
17	Degradation of Dye Pollutants by Immobilized Polyoxometalate with H ₂ O ₂ under Visible-Light Irradiation. <i>Environmental Science & Technology</i> , 2005, 39, 8466-8474.	4.6	222
18	Photocatalysis by Titanium Dioxide and Polyoxometalate/TiO ₂ Cocatalysts. Intermediates and Mechanistic Study. <i>Environmental Science & Technology</i> , 2004, 38, 329-337.	4.6	212

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19	Degradation of ciprofloxacin in aqueous bismuth oxybromide (BiOBr) suspensions under visible light irradiation: A direct hole oxidation pathway. <i>Chemical Engineering Journal</i> , 2015, 274, 290-297.	6.6	212
20	Electrocatalytic reduction of CO ₂ to CO by polypyridyl ruthenium complexes. <i>Chemical Communications</i> , 2011, 47, 12607.	2.2	209
21	Mechanism of TiO ₂ -Assisted Photocatalytic Degradation of Dyes under Visible Irradiation: A Photoelectrocatalytic Study by TiO ₂ -Film Electrodes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21900-21907.	1.2	206
22	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.	6.6	206
23	Nonmetal P-doped hematite photoanode with enhanced electron mobility and high water oxidation activity. <i>Energy and Environmental Science</i> , 2015, 8, 1231-1236.	15.6	202
24	Peroxymonosulfate activation by phosphate anion for organics degradation in water. <i>Chemosphere</i> , 2014, 117, 582-585.	4.2	186
25	Formation and Identification of Intermediates in the Visible-Light-Assisted Photodegradation of Sulforhodamine-B Dye in Aqueous TiO ₂ Dispersion. <i>Environmental Science & Technology</i> , 2002, 36, 3604-3611.	4.6	184
26	Visible-Light-Induced Selective Photocatalytic Aerobic Oxidation of Amines into Imines on TiO ₂ . <i>Chemistry - A European Journal</i> , 2012, 18, 2624-2631.	1.7	182
27	Enhanced Photocatalytic Degradation of Dye Pollutants under Visible Irradiation on Al(III)-Modified TiO ₂ : Structure, Interaction, and Interfacial Electron Transfer. <i>Environmental Science & Technology</i> , 2008, 42, 308-314.	4.6	176
28	Oxidative Decomposition of Rhodamine B Dye in the Presence of VO ₂ and/or Pt(IV) under Visible Light Irradiation: N-Deethylation, Chromophore Cleavage, and Mineralization. <i>Journal of Physical Chemistry B</i> , 2006, 110, 26012-26018.	1.2	166
29	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.	6.6	156
30	Photodegradation of Dye Pollutants Catalyzed by Porous K ₃ PW ₁₂ O ₄₀ under Visible Irradiation. <i>Environmental Science & Technology</i> , 2006, 40, 3965-3970.	4.6	155
31	TiO ₂ -Mediated Photocatalytic Debromination of Decabromodiphenyl Ether: Kinetics and Intermediates. <i>Environmental Science & Technology</i> , 2009, 43, 157-162.	4.6	145
32	Shape and SPR Evolution of Thorny Gold Nanoparticles Promoted by Silver Ions. <i>Chemistry of Materials</i> , 2007, 19, 1592-1600.	3.2	143
33	Fenton Degradation of Organic Pollutants in the Presence of Low-Molecular-Weight Organic Acids: A Cooperative Effect of Quinone and Visible Light. <i>Environmental Science & Technology</i> , 2006, 40, 618-624.	4.6	133
34	Pivotal Role and Regulation of Proton Transfer in Water Oxidation on Hematite Photoanodes. <i>Journal of the American Chemical Society</i> , 2016, 138, 2705-2711.	6.6	132
35	Selective photocatalytic CO ₂ reduction in aerobic environment by microporous Pd-porphyrin-based polymers coated hollow TiO ₂ . <i>Nature Communications</i> , 2022, 13, 1400.	5.8	131
36	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, 5905-5909.	7.2	129

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37	Selective Oxidation of Arsenite by Peroxymonosulfate with High Utilization Efficiency of Oxidant. <i>Environmental Science & Technology</i> , 2014, 48, 3978-3985.	4.6	113
38	Photodegradation of dye pollutants on TiO ₂ nanoparticles dispersed in silicate under UV-VIS irradiation. <i>Applied Catalysis B: Environmental</i> , 2002, 37, 331-338.	10.8	112
39	Î±-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.	16.1	112
40	Photocatalytic degradation of organic pollutants on surface anionized TiO ₂ : Common effect of anions for high hole-availability by water. <i>Applied Catalysis B: Environmental</i> , 2013, 138-139, 212-218.	10.8	111
41	Enhanced Sonocatalytic Degradation of Azo Dyes by Au/TiO ₂ . <i>Environmental Science & Technology</i> , 2008, 42, 6173-6178.	4.6	110
42	Catalytic activity of iron species in layered clays for photodegradation of organic dyes under visible irradiation. <i>Applied Catalysis B: Environmental</i> , 2008, 77, 355-363.	10.8	108
43	Photochemical Aging of Beijing Urban PM _{2.5} : HONO Production. <i>Environmental Science & Technology</i> , 2018, 52, 6309-6316.	4.6	108
44	Photocatalysis: an overview of recent developments and technological advancements. <i>Science China Chemistry</i> , 2020, 63, 149-181.	4.2	107
45	Decomposition of Hydrogen Peroxide Driven by Photochemical Cycling of Iron Species in Clay. <i>Environmental Science & Technology</i> , 2006, 40, 4782-4787.	4.6	101
46	Selective aerobic oxidation of amines to imines by TiO ₂ photocatalysis in water. <i>Chemical Communications</i> , 2013, 49, 5034.	2.2	96
47	Opposite photocatalytic oxidation behaviors of BiOCl and TiO ₂ : Direct hole transfer vs. indirect OH oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 514-520.	10.8	95
48	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.	1.5	94
49	Effects of hydroxyl radicals and oxygen species on the 4-chlorophenol degradation by photoelectrocatalytic reactions with TiO ₂ -film electrodes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 208, 66-77.	2.0	91
50	TiO ₂ photocatalysis for C-C bond formation. <i>Catalysis Science and Technology</i> , 2018, 8, 2030-2045.	2.1	91
51	Photodegradation of dye pollutants on one-dimensional TiO ₂ nanoparticles under UV and visible irradiation. <i>Journal of Molecular Catalysis A</i> , 2007, 261, 131-138.	4.8	89
52	The Surface Structure Sensitivity of Dioxygen Activation in the Anatase Photocatalyzed Oxidation Reaction. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3188-3192.	7.2	89
53	Direct Four-Electron Reduction of O ₂ to H ₂ O on TiO ₂ Surfaces by Pendant Proton Relay. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9686-9690.	7.2	89
54	A Half-Reaction Alternative to Water Oxidation: Chloride Oxidation to Chlorine Catalyzed by Silver Ion. <i>Journal of the American Chemical Society</i> , 2015, 137, 3193-3196.	6.6	83

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55	The vital role of surface Brønsted acid/base sites for the photocatalytic formation of free $\cdot\text{OH}$ radicals. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118634.	10.8	83
56	Copper-Based Coordination Polymer Nanostructure for Visible Light Photocatalysis. <i>Advanced Materials</i> , 2016, 28, 9776-9781.	11.1	80
57	Pivotal Role of Fluorine in Tuning Band Structure and Visible Light Photocatalytic Activity of Nitrogen-Doped TiO_2 . <i>Chemistry - A European Journal</i> , 2009, 15, 4765-4769.	1.7	74
58	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.	5.5	72
59	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.	3.3	70
60	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.	10.8	67
61	Photocatalytic degradation of organic pollutants catalyzed by layered iron(II) bipyridine complexed clay hybrid under visible irradiation. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 217-226.	10.8	65
62	Anatase TiO_2 Mesocrystals Enclosed by (001) and (101) Facets: Synergistic Effects between Ti^{3+} and Facets for Their Photocatalytic Performance. <i>Chemistry - A European Journal</i> , 2012, 18, 12584-12589.	1.7	65
63	Photodegradation of organic pollutants catalyzed by iron species under visible light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1957-1969.	1.3	62
64	Photochemical Cycling of Iron Mediated by Dicarboxylates: Special Effect of Malonate. <i>Environmental Science & Technology</i> , 2010, 44, 263-268.	4.6	60
65	Photoreductive Debromination of Decabromodiphenyl Ethers in the Presence of Carboxylates under Visible Light Irradiation. <i>Environmental Science & Technology</i> , 2013, 47, 2370-2377.	4.6	60
66	Photochemical Oscillation of Fe(II)/Fe(III) Ratio Induced by Periodic Flux of Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2005, 39, 3121-3127.	4.6	58
67	Efficient Photoinduced Conversion of an Azo Dye on Hexachloroplatinate(IV)-Modified TiO_2 Surfaces under Visible Light Irradiation: A Photosensitization Pathway. <i>Chemistry - A European Journal</i> , 2003, 9, 3292-3299.	1.7	57
68	Efficient degradation of chloramphenicol by zero-valent iron microspheres and new insights in mechanisms. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117876.	10.8	57
69	Interfacial Electron Transfer Dynamics for $[\text{Ru}(\text{bpy})_2((4,4\text{-}\text{PO}_3\text{H}_2)_2\text{bpy})]^{2+}$ Sensitized TiO_2 in a Dye-Sensitized Photoelectrosynthesis Cell: Factors Influencing Efficiency and Dynamics. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7081-7091.	1.5	56
70	Stable hybrid perovskite $\text{MAPb}(\text{I}1\text{-}\text{Br})_3$ for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 41-48.	10.8	56
71	An unprecedented hydride transfer pathway for selective photocatalytic reduction of CO_2 to formic acid on TiO_2 . <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119692.	10.8	56
72	A role of ionic liquid as an activator for efficient olefinepoxidation catalyzed by polyoxometalate. <i>New Journal of Chemistry</i> , 2008, 32, 283-289.	1.4	55

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73	Pathway of Oxygen Incorporation from O ₂ in TiO ₂ Photocatalytic Hydroxylation of Aromatics: Oxygen Isotope Labeling Studies. <i>Chemistry - A European Journal</i> , 2012, 18, 2030-2039.	1.7	55
74	The Formation of Tiâ€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.	6.6	55
75	Hydrogen-Bond Bridged Water Oxidation on {001} Surfaces of Anatase TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 2251-2257.	1.5	50
76	Photochemical Aging of Soot in the Aqueous Phase: Release of Dissolved Black Carbon and the Formation of ¹ O ₂ . <i>Environmental Science & Technology</i> , 2019, 53, 12311-12319.	4.6	50
77	Sonochemical Hydrogen Production Efficiently Catalyzed by Au/TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2010, 114, 17728-17733.	1.5	48
78	Gradient FeO _x (PO ₄) _y Layer on Hematite Photoanodes: Novel Structure for Efficient Light-Driven Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12844-12851.	4.0	48
79	Grafting silica species on anatase surface for visible light photocatalytic activity. <i>Energy and Environmental Science</i> , 2011, 4, 2279.	15.6	46
80	Photochemical Coupling Reactions between Fe(III)/Fe(II), Cr(VI)/Cr(III), and Polycarboxylates: Inhibitory Effect of Cr Species. <i>Environmental Science & Technology</i> , 2008, 42, 7260-7266.	4.6	45
81	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.	2.1	44
82	TiO ₂ Photocatalysis for Transfer Hydrogenation. <i>Molecules</i> , 2019, 24, 330.	1.7	43
83	Determining the TiO ₂ -Photocatalytic Aryl-Ring-Opening Mechanism in Aqueous Solution Using Oxygen-18 Labeled O ₂ and H ₂ O. <i>Journal of the American Chemical Society</i> , 2014, 136, 8714-8721.	6.6	42
84	Light-assisted decomposition of dyes over iron-bearing soil clays in the presence of H ₂ O ₂ . <i>Journal of Hazardous Materials</i> , 2009, 168, 1246-1252.	6.5	41
85	Fe ³⁺ /Fe ²⁺ cycling promoted by Ta ₃ N ₅ under visible irradiation in Fenton degradation of organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2007, 75, 256-263.	10.8	40
86	Photocatalytic debromination of preloaded decabromodiphenyl ether on the TiO ₂ surface in aqueous system. <i>Chemosphere</i> , 2012, 89, 420-425.	4.2	40
87	Unraveling the Photocatalytic Mechanisms on TiO ₂ Surfaces Using the Oxygen-18 Isotopic Label Technique. <i>Molecules</i> , 2014, 19, 16291-16311.	1.7	40
88	Anchored Oxygen-Donor Coordination to Iron for Photodegradation of Organic Pollutants. <i>Environmental Science & Technology</i> , 2007, 41, 5103-5107.	4.6	39
89	Photocatalytic Degradation of Aromatic Pollutants: A Pivotal Role of Conduction Band Electron in Distribution of Hydroxylated Intermediates. <i>Environmental Science & Technology</i> , 2012, 46, 5093-5099.	4.6	39
90	Fabrication of $\hat{1}^2$ -phase AgI and Bi ₂ O ₃ co-decorated Bi ₂ O ₂ CO ₃ heterojunctions with enhanced photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 1-13.	5.0	39

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91	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.	1.5	38
92	Covalent Organic Frameworks: Promising Materials as Heterogeneous Catalysts for C-C Bond Formations. <i>Catalysts</i> , 2018, 8, 404.	1.6	38
93	An Unexplored O ₂ -Involved Pathway for the Decarboxylation of Saturated Carboxylic Acids by TiO ₂ Photocatalysis: An Isotopic Probe Study. <i>Chemistry - A European Journal</i> , 2010, 16, 11859-11866.	1.7	37
94	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, 2052-2056.	7.2	37
95	Rapid, Photocatalytic, and Deep Debromination of Polybrominated Diphenyl Ethers on Pd-TiO ₂ : Intermediates and Pathways. <i>Chemistry - A European Journal</i> , 2014, 20, 11163-11170.	1.7	36
96	Enhanced Photocatalytic Simultaneous Removals of Cr(VI) and Bisphenol A over Co(II)-Modified TiO ₂ . <i>Langmuir</i> , 2019, 35, 276-283.	1.6	36
97	Essential Roles of Proton Transfer in Photocatalytic Redox Reactions. <i>ChemCatChem</i> , 2015, 7, 724-731.	1.8	35
98	Modulating the photocatalytic redox preferences between anatase TiO ₂ {001} and {101} surfaces. <i>Chemical Communications</i> , 2017, 53, 787-790.	2.2	35
99	Photooxidation of Dibenzothiophene and 4,6-Dimethyldibenzothiophene Sensitized by N-Methylquinolinium Tetrafluoroborate: A Mechanism and Intermediates Investigation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8270-8276.	1.2	34
100	Photocatalytic Degradation of Organic Pollutants by Co-Doped TiO ₂ Under Visible Light Irradiation. <i>Current Organic Chemistry</i> , 2010, 14, 630-644.	0.9	34
101	Spherical and Sheetlike Ag/AgCl Nanostructures: Interesting Photocatalysts with Unusual Facet-Dependent yet Substrate-Sensitive Reactivity. <i>Langmuir</i> , 2015, 31, 602-610.	1.6	33
102	Enhancement of photocatalytic decarboxylation on TiO ₂ by water-induced change in adsorption-mode. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 376-382.	10.8	33
103	TiO ₂ Photocatalyzed C-H Bond Transformation for C-C Coupling Reactions. <i>Catalysts</i> , 2018, 8, 355.	1.6	32
104	Shape-Controlled Metal-Free Catalysts: Facet-Sensitive Catalytic Activity Induced by the Arrangement Pattern of Noncovalent Supramolecular Chains. <i>ACS Nano</i> , 2017, 11, 4866-4876.	7.3	31
105	Catalytic hydrodehalogenation over supported gold: Electron transfer versus hydride transfer. <i>Applied Catalysis B: Environmental</i> , 2018, 231, 262-268.	10.8	31
106	Photocatalytic activation of pyridine for addition reactions: an unconventional reaction feature between a photo-induced hole and electron on TiO ₂ . <i>Chemical Communications</i> , 2015, 51, 17451-17454.	2.2	30
107	Desulfurization of thiophenes in oils into H ₂ SO ₄ using molecular oxygen. <i>Applied Catalysis B: Environmental</i> , 2018, 235, 207-213.	10.8	28
108	Photocatalytic Hydrodehalogenation for the Removal of Halogenated Aromatic Contaminants. <i>ChemCatChem</i> , 2019, 11, 258-268.	1.8	28

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109	Photoinduced Release of Volatile Organic Compounds from Fatty Alcohols at the Air-Water Interface: The Role of Singlet Oxygen Photosensitized by a Carbonyl Group. <i>Environmental Science & Technology</i> , 2021, 55, 8683-8690.	4.6	28
110	Photocatalytic debromination of decabromodiphenyl ether by graphitic carbon nitride. <i>Science China Chemistry</i> , 2012, 55, 2532-2536.	4.2	27
111	Surfactant-additive-free synthesis of 3D anatase TiO ₂ hierarchical architectures with enhanced photocatalytic activity. <i>RSC Advances</i> , 2013, 3, 17559.	1.7	27
112	Controllable Synthesis of 3D Thorny Plasmonic Gold Nanostructures and Their Tunable Optical Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23256-23260.	1.5	26
113	Photocatalytic Dehydrogenation of Primary Alcohols: Selectivity Goes against Adsorptivity. <i>ACS Omega</i> , 2017, 2, 4161-4172.	1.6	26
114	Quantitative isotope measurements in heterogeneous photocatalysis and electrocatalysis. <i>Energy and Environmental Science</i> , 2020, 13, 2602-2617.	15.6	26
115	ortho-Dihydroxyl-9,10-anthraquinone dyes as visible-light sensitizers that exhibit a high turnover number for hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6550-6554.	1.3	25
116	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.	3.2	25
117	Nitrate-Enhanced Oxidation of SO ₂ on Mineral Dust: A Vital Role of a Proton. <i>Environmental Science & Technology</i> , 2019, 53, 10139-10145.	4.6	25
118	Rapid proton exchange between surface bridging hydroxyls and adsorbed molecules on TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119234.	10.8	25
119	Photocatalytic activation of C-Br bond on facet-dependent BiOCl with oxygen vacancies. <i>Applied Surface Science</i> , 2021, 548, 149243.	3.1	25
120	An Efficient Anthraquinone-Resin Hybrid Co-Catalyst for Fenton-Like Reactions: Acceleration of the Iron Cycle Using a Quinone Cycle under Visible-Light Irradiation. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2264-2268.	1.7	24
121	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.	4.2	24
122	Photoinduced Uptake and Oxidation of SO ₂ on Beijing Urban PM _{2.5} . <i>Environmental Science & Technology</i> , 2020, 54, 14868-14876.	4.6	24
123	The Key Role of Sulfate in the Photochemical Renoxification on Real PM _{2.5} . <i>Environmental Science & Technology</i> , 2020, 54, 3121-3128.	4.6	24
124	Concerted Two-Electron Transfer and High Selectivity of TiO ₂ in Photocatalyzed Deoxygenation of Epoxides. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12636-12640.	7.2	22
125	Weak-Bond-Based Photoreduction of Polybrominated Diphenyl Ethers on Graphene in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6711-6717.	3.2	22
126	Carbon Gels-Modified TiO ₂ : Promising Materials for Photocatalysis Applications. <i>Materials</i> , 2020, 13, 1734.	1.3	22

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127	Visible-light-driven photocatalytic degradation of microcystin-LR by Bi-doped TiO ₂ . Research on Chemical Intermediates, 2011, 37, 47-60.	1.3	21
128	Iron(III)-mediated photocatalytic selective substitution of aryl bromine by chlorine with high chloride utilization efficiency. Chemical Communications, 2014, 50, 2344.	2.2	21
129	Doping-Promoted Solar Water Oxidation on Hematite Photoanodes. Molecules, 2016, 21, 868.	1.7	21
130	Enhanced photoreduction degradation of polybromodiphenyl ethers with Fe ₃ O ₄ -g-C ₃ N ₄ under visible light irradiation. RSC Advances, 2018, 8, 10914-10921.	1.7	20
131	A new type of covalent-functional graphene donor-acceptor hybrid and its improved photoelectrochemical performance. Science China Chemistry, 2011, 54, 1622-1626.	4.2	19
132	Sunlight-driven Ag _x AgCl _{1-x} photocatalysts: enhanced catalytic performances via continuous bandgap-tuning and morphology selection. Physical Chemistry Chemical Physics, 2013, 15, 12709.	1.3	18
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