

Chun-cheng Chen

List of Publications by Citations

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181
papers

13,765
citations

57
h-index

114
g-index

201
ext. papers

15,287
ext. citations

10.2
avg, IF

6.58
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 181 | Semiconductor-mediated photodegradation of pollutants under visible-light irradiation. <i>Chemical Society Reviews</i> , 2010 , 39, 4206-19 | 58.5 | 1785 |
| 180 | Efficient degradation of toxic organic pollutants with Ni ₂ O ₃ /TiO _{2-x} B _x under visible irradiation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4782-3 | 16.4 | 1045 |
| 179 | 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, 9730-3 | 16.4 | 401 |
| 178 | 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 |
| 177 | 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 |
| 176 | Photocatalytic Degradation of Organic Pollutants Under Visible Light Irradiation. <i>Topics in Catalysis</i> , 2005 , 35, 269-278 | 2.3 | 323 |
| 175 | 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, 7338-45 | 4 | 321 |
| 174 | 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 | 3.4 | 282 |
| 173 | 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, 1956-65 | 4.8 | 272 |
| 172 | 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 |
| 171 | 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 |
| 170 | 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 | 3.8 | 235 |
| 169 | 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 | 14.7 | 226 |
| 168 | Selective aerobic oxidation mediated by TiO ₂ photocatalysis. <i>Accounts of Chemical Research</i> , 2014 , 47, 355-63 | 24.3 | 225 |
| 167 | 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 |
| 166 | Fenton degradation of organic compounds promoted by dyes under visible irradiation. <i>Environmental Science & Technology</i> , 2005 , 39, 5810-5 | 10.3 | 207 |
| 165 | Photocatalysis by titanium dioxide and polyoxometalate/TiO ₂ cocatalysts. Intermediates and mechanistic study. <i>Environmental Science & Technology</i> , 2004 , 38, 329-37 | 10.3 | 202 |

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| 164 | Degradation of dye pollutants by immobilized polyoxometalate with H ₂ O ₂ under visible-light irradiation. <i>Environmental Science & Technology</i> , 2005 , 39, 8466-74 | 10.3 | 196 |
| 163 | Electrocatalytic reduction of CO ₂ to CO by polypyridyl ruthenium complexes. <i>Chemical Communications</i> , 2011 , 47, 12607-9 | 5.8 | 185 |
| 162 | Mechanism of TiO ₂ -assisted photocatalytic degradation of dyes under visible irradiation: photoelectrocatalytic study by TiO ₂ -film electrodes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21900-7 | 3.4 | 184 |
| 161 | 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 |
| 160 | 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, 3604-11 | 10.3 | 167 |
| 159 | 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, 308-14 | 10.3 | 164 |
| 158 | Visible-light-induced selective photocatalytic aerobic oxidation of amines into imines on TiO ₂ . <i>Chemistry - A European Journal</i> , 2012 , 18, 2624-31 | 4.8 | 159 |
| 157 | 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 | 14.7 | 158 |
| 156 | Visible-Light-Induced Aerobic Oxidation of Alcohols in a Coupled Photocatalytic System of Dye-Sensitized TiO ₂ and TEMPO. <i>Angewandte Chemie</i> , 2008 , 120, 9876-9879 | 3.6 | 147 |
| 155 | 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, 26012-8 | 3.4 | 142 |
| 154 | Photodegradation of dye pollutants catalyzed by porous K ₃ PW ₁₂ O ₄₀ under visible irradiation. <i>Environmental Science & Technology</i> , 2006 , 40, 3965-70 | 10.3 | 140 |
| 153 | Shape and SPR Evolution of Thorny Gold Nanoparticles Promoted by Silver Ions. <i>Chemistry of Materials</i> , 2007 , 19, 1592-1600 | 9.6 | 137 |
| 152 | TiO ₂ -mediated photocatalytic debromination of decabromodiphenyl ether: kinetics and intermediates. <i>Environmental Science & Technology</i> , 2009 , 43, 157-62 | 10.3 | 123 |
| 151 | Peroxymonosulfate activation by phosphate anion for organics degradation in water. <i>Chemosphere</i> , 2014 , 117, 582-5 | 8.4 | 122 |
| 150 | Fenton degradation of organic pollutants in the presence of low-molecular-weight organic acids: cooperative effect of quinone and visible light. <i>Environmental Science & Technology</i> , 2006 , 40, 618-24 | 10.3 | 113 |
| 149 | Enhanced sonocatalytic degradation of azo dyes by Au/TiO ₂ . <i>Environmental Science & Technology</i> , 2008 , 42, 6173-8 | 10.3 | 100 |
| 148 | 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 |
| 147 | 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 | 21.8 | 97 |

- 146 Rate-Limiting O-O Bond Formation Pathways for Water Oxidation on Hematite Photoanode. *Journal of the American Chemical Society*, **2018**, 140, 3264-3269 16.4 93
- 145 Catalytic activity of iron species in layered clays for photodegradation of organic dyes under visible irradiation. *Applied Catalysis B: Environmental*, **2008**, 77, 355-363 21.8 92
- 144 Photocatalytic degradation of organic pollutants on surface anionized TiO₂: Common effect of anions for high hole-availability by water. *Applied Catalysis B: Environmental*, **2013**, 138-139, 212-218 21.8 89
- 143 Selective oxidation of arsenite by peroxymonosulfate with high utilization efficiency of oxidant. *Environmental Science & Technology*, **2014**, 48, 3978-85 10.3 88
- 142 Photoinduced Electron Storage in WO₃/TiO₂ Nanohybrid Material in the Presence of Oxygen and Postirradiated Reduction of Heavy Metal Ions. *Journal of Physical Chemistry C*, **2009**, 113, 13160-13165 3.8 87
- 141 Selective aerobic oxidation of amines to imines by TiO₂ photocatalysis in water. *Chemical Communications*, **2013**, 49, 5034-6 5.8 84
- 140 Decomposition of hydrogen peroxide driven by photochemical cycling of iron species in clay. *Environmental Science & Technology*, **2006**, 40, 4782-7 10.3 84
- 139 Activation of Water in Titanium Dioxide Photocatalysis by Formation of Surface Hydrogen Bonds: An In Situ IR Spectroscopy Study. *Angewandte Chemie - International Edition*, **2015**, 54, 5905-9 16.4 83
- 138 Effects of hydroxyl radicals and oxygen species on the 4-chlorophenol degradation by photoelectrocatalytic reactions with TiO₂-film electrodes. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 208, 66-77 4.7 83
- 137 Photodegradation of dye pollutants on one-dimensional TiO₂ nanoparticles under UV and visible irradiation. *Journal of Molecular Catalysis A*, **2007**, 261, 131-138 82
- 136 The surface-structure sensitivity of dioxygen activation in the anatase-photocatalyzed oxidation reaction. *Angewandte Chemie - International Edition*, **2012**, 51, 3188-92 16.4 79
- 135 Direct four-electron reduction of O₂ to H₂O on TiO₂ surfaces by pendant proton relay. *Angewandte Chemie - International Edition*, **2013**, 52, 9686-90 16.4 74
- 134 Pivotal role of fluorine in tuning band structure and visible-light photocatalytic activity of nitrogen-doped TiO₂. *Chemistry - A European Journal*, **2009**, 15, 4765-9 4.8 70
- 133 Opposite photocatalytic oxidation behaviors of BiOCl and TiO₂: Direct hole transfer vs. indirect OH oxidation. *Applied Catalysis B: Environmental*, **2019**, 241, 514-520 21.8 70
- 132 TiO₂ photocatalysis for C-Cl bond formation. *Catalysis Science and Technology*, **2018**, 8, 2030-2045 5.5 68
- 131 Selective Formation of Imines by Aerobic Photocatalytic Oxidation of Amines on TiO₂. *Angewandte Chemie*, **2011**, 123, 4020-4023 3.6 66
- 130 Photocatalytic degradation of organic pollutants catalyzed by layered iron(II) bipyridine complex/clay hybrid under visible irradiation. *Applied Catalysis B: Environmental*, **2006**, 65, 217-226 21.8 63
- 129 Photocatalysis: an overview of recent developments and technological advancements. *Science China Chemistry*, **2020**, 63, 149-181 7.9 63

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| 128 | 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, 12584-9 | 4.8 | 62 |
| 127 | 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, 3193-6 | 16.4 | 61 |
| 126 | Photochemical Aging of Beijing Urban PM: HONO Production. <i>Environmental Science & Technology</i> , 2018 , 52, 6309-6316 | 10.3 | 61 |
| 125 | Oxygen Atom Transfer in the Photocatalytic Oxidation of Alcohols by TiO ₂ : Oxygen Isotope Studies. <i>Angewandte Chemie</i> , 2009 , 121, 6197-6200 | 3.6 | 61 |
| 124 | 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, 3292-9 | 4.8 | 56 |
| 123 | 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 |
| 122 | Photochemical cycling of iron mediated by dicarboxylates: special effect of malonate. <i>Environmental Science & Technology</i> , 2010 , 44, 263-8 | 10.3 | 53 |
| 121 | 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 |
| 120 | Photochemical oscillation of Fe(II)/Fe(III) ratio induced by periodic flux of dissolved organic matter. <i>Environmental Science & Technology</i> , 2005 , 39, 3121-7 | 10.3 | 53 |
| 119 | Interfacial Electron Transfer Dynamics for [Ru(bpy) ₂ ((4,4'-PO ₃ H ₂) ₂ 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 | 3.8 | 51 |
| 118 | Photodegradation of organic pollutants catalyzed by iron species under visible light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1957-69 | 3.6 | 49 |
| 117 | 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, 2030-9 | 4.8 | 48 |
| 116 | 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 |
| 115 | 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 |
| 114 | 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, 12844-51 | 9.5 | 43 |
| 113 | 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 |
| 112 | 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 |
| 111 | Grafting silica species on anatase surface for visible light photocatalytic activity. <i>Energy and Environmental Science</i> , 2011 , 4, 2279 | 35.4 | 41 |

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| 110 | 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, 8714-21 | 16.4 | 39 |
| 109 | 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 |
| 108 | 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, 7260-6 | 10.3 | 39 |
| 107 | Copper-Based Coordination Polymer Nanostructure for Visible Light Photocatalysis. <i>Advanced Materials</i> , 2016 , 28, 9776-9781 | 24 | 38 |
| 106 | Sonochemical Hydrogen Production Efficiently Catalyzed by Au/TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17728-17733 | 3.8 | 38 |
| 105 | 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 |
| 104 | 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 |
| 103 | Photocatalytic degradation of aromatic pollutants: a pivotal role of conduction band electron in distribution of hydroxylated intermediates. <i>Environmental Science & Technology</i> , 2012 , 46, 5093-9 | 10.3 | 37 |
| 102 | Anchored oxygen-donor coordination to iron for photodegradation of organic pollutants. <i>Environmental Science & Technology</i> , 2007 , 41, 5103-7 | 10.3 | 37 |
| 101 | Stable hybrid perovskite MAPb(I _{1-x} Br _x) ₃ for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019 , 253, 41-48 | 21.8 | 36 |
| 100 | Photocatalytic debromination of preloaded decabromodiphenyl ether on the TiO ₂ surface in aqueous system. <i>Chemosphere</i> , 2012 , 89, 420-5 | 8.4 | 36 |
| 99 | 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, 1246-52 | 12.8 | 36 |
| 98 | The vital role of surface Brønsted acid/base sites for the photocatalytic formation of free •OH radicals. <i>Applied Catalysis B: Environmental</i> , 2020 , 266, 118634 | 21.8 | 36 |
| 97 | 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 |
| 96 | 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 | 21.8 | 34 |
| 95 | Spherical and sheetlike Ag/AgCl nanostructures: interesting photocatalysts with unusual facet-dependent yet substrate-sensitive reactivity. <i>Langmuir</i> , 2015 , 31, 602-10 | 4 | 32 |
| 94 | 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, 11859-66 | 4.8 | 32 |
| 93 | Modulating the photocatalytic redox preferences between anatase TiO {001} and {101} surfaces. <i>Chemical Communications</i> , 2017 , 53, 787-790 | 5.8 | 31 |

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| 92 | Efficient degradation of chloramphenicol by zero-valent iron microspheres and new insights in mechanisms. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117876 | 21.8 | 31 |
| 91 | Photooxidation of dibenzothiophene and 4,6-dimethyldibenzothiophene sensitized by N-methylquinolinium tetrafluoroborate: mechanism and intermediates investigation. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 8270-6 | 3.4 | 30 |
| 90 | Hydrogen-Bond Bridged Water Oxidation on {001} Surfaces of Anatase TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2251-2257 | 3.8 | 29 |
| 89 | 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, 17451-4 | 5.8 | 28 |
| 88 | 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 |
| 87 | 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 |
| 86 | Photocatalytic Degradation of Organic Pollutants by Co-Doped TiO ₂ Under Visible Light Irradiation. <i>Current Organic Chemistry</i> , 2010 , 14, 630-644 | 1.7 | 28 |
| 85 | Essential Roles of Proton Transfer in Photocatalytic Redox Reactions. <i>ChemCatChem</i> , 2015 , 7, 724-731 | 5.2 | 27 |
| 84 | 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 | 16.7 | 26 |
| 83 | TiO ₂ Photocatalysis for Transfer Hydrogenation. <i>Molecules</i> , 2019 , 24, | 4.8 | 26 |
| 82 | TiO ₂ Photocatalyzed C-H Bond Transformation for C-C Coupling Reactions. <i>Catalysts</i> , 2018 , 8, 355 | 4 | 26 |
| 81 | 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 |
| 80 | 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 |
| 79 | Enhanced Photocatalytic Simultaneous Removals of Cr(VI) and Bisphenol A over Co(II)-Modified TiO ₂ . <i>Langmuir</i> , 2019 , 35, 276-283 | 4 | 25 |
| 78 | Fabrication of β -phase AgI and BiO co-decorated BiOCO heterojunctions with enhanced photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019 , 547, 1-13 | 9.3 | 24 |
| 77 | 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 |
| 76 | Covalent Organic Frameworks: Promising Materials as Heterogeneous Catalysts for C-C Bond Formations. <i>Catalysts</i> , 2018 , 8, 404 | 4 | 24 |
| 75 | Photocatalytic Dehydrogenation of Primary Alcohols: Selectivity Goes against Adsorptivity. <i>ACS Omega</i> , 2017 , 2, 4161-4172 | 3.9 | 23 |

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| 74 | 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 | 21.8 | 23 |
| 73 | Photochemical Aging of Soot in the Aqueous Phase: Release of Dissolved Black Carbon and the Formation of O. <i>Environmental Science & Technology</i> , 2019 , 53, 12311-12319 | 10.3 | 22 |
| 72 | 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 | 4.5 | 22 |
| 71 | 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, 6550-4 | 3.6 | 21 |
| 70 | The Surface-Structure Sensitivity of Dioxygen Activation in the Anatase-Photocatalyzed Oxidation Reaction. <i>Angewandte Chemie</i> , 2012 , 124, 3242-3246 | 3.6 | 20 |
| 69 | 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 |
| 68 | 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 |
| 67 | Enhancement of photocatalytic decarboxylation on TiO ₂ by water-induced change in adsorption-mode. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 376-382 | 21.8 | 18 |
| 66 | Concerted two-electron transfer and high selectivity of TiO ₂ in photocatalyzed deoxygenation of epoxides. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12636-40 | 16.4 | 18 |
| 65 | 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 |
| 64 | Tailored Porphyrin Assembly at the Oil/Aqueous Interface Based on the Receding of Three-Phase Contact Line of Droplet Template. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400365 | 4.6 | 17 |
| 63 | Catalytic hydrodehalogenation over supported gold: Electron transfer versus hydride transfer. <i>Applied Catalysis B: Environmental</i> , 2018 , 231, 262-268 | 21.8 | 17 |
| 62 | Photocatalytic debromination of decabromodiphenyl ether by graphitic carbon nitride. <i>Science China Chemistry</i> , 2012 , 55, 2532-2536 | 7.9 | 17 |
| 61 | Sunlight-driven Ag-AgCl(1-x)Br(x) photocatalysts: enhanced catalytic performances via continuous bandgap-tuning and morphology selection. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12709-16 | 3.6 | 16 |
| 60 | Visible-light-driven photocatalytic degradation of microcystin-LR by Bi-doped TiO ₂ . <i>Research on Chemical Intermediates</i> , 2011 , 37, 47-60 | 2.8 | 16 |
| 59 | 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 |
| 58 | Photocatalytic Hydrodehalogenation for the Removal of Halogenated Aromatic Contaminants. <i>ChemCatChem</i> , 2019 , 11, 258-268 | 5.2 | 16 |
| 57 | 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 |

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| 56 | Enhanced photoreduction degradation of polybromodiphenyl ethers with FeO-g-CN under visible light irradiation.. <i>RSC Advances</i> , 2018 , 8, 10914-10921 | 3.7 | 15 |
| 55 | Silver iodide microstructures of a uniform towerlike shape: morphology purification via a chemical dissolution, simultaneously boosted catalytic durability, and enhanced catalytic performances. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4160-9 | 9.5 | 15 |
| 54 | 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 |
| 53 | Doping-Promoted Solar Water Oxidation on Hematite Photoanodes. <i>Molecules</i> , 2016 , 21, | 4.8 | 15 |
| 52 | 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 |
| 51 | Photocatalytic activation of C-Br bond on facet-dependent BiOCl with oxygen vacancies. <i>Applied Surface Science</i> , 2021 , 548, 149243 | 6.7 | 13 |
| 50 | Selective photocatalytic CO reduction in aerobic environment by microporous Pd-porphyrin-based polymers coated hollow TiO ₂ . <i>Nature Communications</i> , 2022 , 13, 1400 | 17.4 | 13 |
| 49 | The Key Role of Sulfate in the Photochemical Renoxification on Real PM. <i>Environmental Science & Technology</i> , 2020 , 54, 3121-3128 | 10.3 | 12 |
| 48 | Weak-Bond-Based Photoreduction of Polybrominated Diphenyl Ethers on Graphene in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6711-6717 | 8.3 | 12 |
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