

Can Li

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569
papers

42,094
citations

97
h-index

186
g-index

607
ext. papers

48,756
ext. citations

10.7
avg, IF

7.99
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 569 | Roles of cocatalysts in photocatalysis and photoelectrocatalysis. <i>Accounts of Chemical Research</i> , 2013 , 46, 1900-9 | 24.3 | 1953 |
| 568 | Titanium dioxide-based nanomaterials for photocatalytic fuel generations. <i>Chemical Reviews</i> , 2014 , 114, 9987-10043 | 68.1 | 1794 |
| 567 | Enhancement of photocatalytic H ₂ evolution on CdS by loading MoS ₂ as Cocatalyst under visible light irradiation. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7176-7 | 16.4 | 1612 |
| 566 | Spatial separation of photogenerated electrons and holes among {010} and {110} crystal facets of BiVO ₄ . <i>Nature Communications</i> , 2013 , 4, 1432 | 17.4 | 1180 |
| 565 | Recent developments in heterogeneous photocatalysts for solar-driven overall water splitting. <i>Chemical Society Reviews</i> , 2019 , 48, 2109-2125 | 58.5 | 1029 |
| 564 | Importance of the relationship between surface phases and photocatalytic activity of TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1766-9 | 16.4 | 1003 |
| 563 | Visible-light-driven hydrogen production with extremely high quantum efficiency on PtPdS/CdS photocatalyst. <i>Journal of Catalysis</i> , 2009 , 266, 165-168 | 7.3 | 933 |
| 562 | UV Raman spectroscopic study on TiO ₂ . I. Phase transformation at the surface and in the bulk. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 927-35 | 3.4 | 762 |
| 561 | Nanomaterials for renewable energy production and storage. <i>Chemical Society Reviews</i> , 2012 , 41, 7909-378.5 | 38.5 | 729 |
| 560 | Surface optimization to eliminate hysteresis for record efficiency planar perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 3071-3078 | 35.4 | 691 |
| 559 | Photocatalytic overall water splitting promoted by an p-n junction on Ga ₂ O ₃ . <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 13089-92 | 16.4 | 511 |
| 558 | High efficiency flexible perovskite solar cells using superior low temperature TiO ₂ . <i>Energy and Environmental Science</i> , 2015 , 8, 3208-3214 | 35.4 | 457 |
| 557 | Highly efficient photocatalysts constructed by rational assembly of dual-cocatalysts separately on different facets of BiVO ₄ . <i>Energy and Environmental Science</i> , 2014 , 7, 1369-1376 | 35.4 | 416 |
| 556 | A highly selective and stable ZnO-ZrO solid solution catalyst for CO hydrogenation to methanol. <i>Science Advances</i> , 2017 , 3, e1701290 | 14.3 | 366 |
| 555 | Photoelectrocatalytic Water Splitting: Significance of Cocatalysts, Electrolyte, and Interfaces. <i>ACS Catalysis</i> , 2017 , 7, 675-688 | 13.1 | 364 |
| 554 | Photocatalytic H ₂ Evolution on CdS Loaded with WS ₂ as Cocatalyst under Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12202-12208 | 3.8 | 331 |
| 553 | Hysteresis-Suppressed High-Efficiency Flexible Perovskite Solar Cells Using Solid-State Ionic-Liquids for Effective Electron Transport. <i>Advanced Materials</i> , 2016 , 28, 5206-13 | 24 | 326 |

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| 552 | Photocatalytic Water Oxidation on BiVO ₄ with the Electrocatalyst as an Oxidation Cocatalyst: Essential Relations between Electrocatalyst and Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5082-5089 | 3.8 | 323 |
| 551 | Chiral Synthesis on Catalysts Immobilized in Microporous and Mesoporous Materials. <i>Catalysis Reviews - Science and Engineering</i> , 2004 , 46, 419-492 | 12.6 | 313 |
| 550 | Crystal facet dependence of water oxidation on BiVO ₄ sheets under visible light irradiation. <i>Chemistry - A European Journal</i> , 2011 , 17, 1275-82 | 4.8 | 302 |
| 549 | Photoluminescence Characteristics of TiO ₂ and Their Relationship to the Photoassisted Reaction of Water/Methanol Mixture. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 693-699 | 3.8 | 298 |
| 548 | Podlike N-doped carbon nanotubes encapsulating FeNi alloy nanoparticles: high-performance counter electrode materials for dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7023-7 | 16.4 | 296 |
| 547 | A tantalum nitride photoanode modified with a hole-storage layer for highly stable solar water splitting. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7295-9 | 16.4 | 296 |
| 546 | Roles of cocatalysts in PtBdS/CdS with exceptionally high quantum efficiency for photocatalytic hydrogen production. <i>Journal of Catalysis</i> , 2012 , 290, 151-157 | 7.3 | 275 |
| 545 | Enhancing charge separation on high symmetry SrTiO ₃ exposed with anisotropic facets for photocatalytic water splitting. <i>Energy and Environmental Science</i> , 2016 , 9, 2463-2469 | 35.4 | 274 |
| 544 | Enabling an integrated tantalum nitride photoanode to approach the theoretical photocurrent limit for solar water splitting. <i>Energy and Environmental Science</i> , 2016 , 9, 1327-1334 | 35.4 | 271 |
| 543 | Direct Synthesis and Characterization of Titanium-Substituted Mesoporous Molecular Sieve SBA-15. <i>Chemistry of Materials</i> , 2002 , 14, 3413-3421 | 9.6 | 258 |
| 542 | Highly Selective Conversion of Carbon Dioxide to Lower Olefins. <i>ACS Catalysis</i> , 2017 , 7, 8544-8548 | 13.1 | 251 |
| 541 | Achieving overall water splitting using titanium dioxide-based photocatalysts of different phases. <i>Energy and Environmental Science</i> , 2015 , 8, 2377-2382 | 35.4 | 250 |
| 540 | Nitrogen-doped carbon nanotubes derived from ZnFe-ZIF nanospheres and their application as efficient oxygen reduction electrocatalysts with in situ generated iron species. <i>Chemical Science</i> , 2013 , 4, 2941 | 9.4 | 250 |
| 539 | Hybrid artificial photosynthetic systems comprising semiconductors as light harvesters and biomimetic complexes as molecular cocatalysts. <i>Accounts of Chemical Research</i> , 2013 , 46, 2355-64 | 24.3 | 250 |
| 538 | Ultra-deep desulfurization of diesel: oxidation with a recoverable catalyst assembled in emulsion. <i>Chemistry - A European Journal</i> , 2004 , 10, 2277-80 | 4.8 | 250 |
| 537 | Functionalized periodic mesoporous organosilicas for catalysis. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1945 | | 248 |
| 536 | Photoelectrocatalytic Materials for Solar Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1800210 | 21.8 | 247 |
| 535 | Visible-Light Driven Overall Conversion of CO and HO to CH and O on 3D-SiC@2D-MoS ₂ Heterostructure. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14595-14598 | 16.4 | 246 |

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| 534 | Dual Cocatalysts Loaded Type I CdS/ZnS Core/Shell Nanocrystals as Effective and Stable Photocatalysts for H ₂ Evolution. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11584-11591 | 3.8 | 233 |
| 533 | Positioning the Water Oxidation Reaction Sites in Plasmonic Photocatalysts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11771-11778 | 16.4 | 222 |
| 532 | A spectroscopic study on the interactions of porphyrin with G-quadruplex DNAs. <i>Biochemistry</i> , 2006 , 45, 6681-91 | 3.2 | 220 |
| 531 | Interface engineering of a CoO(x)/Ta ₃ N ₅ photocatalyst for unprecedented water oxidation performance under visible-light-irradiation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3047-51 | 16.4 | 219 |
| 530 | Direct Imaging of Highly Anisotropic Photogenerated Charge Separations on Different Facets of a Single BiVO ₄ Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9111-4 | 16.4 | 218 |
| 529 | Phase Transformation in the Surface Region of Zirconia Detected by UV Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8107-8111 | 3.4 | 213 |
| 528 | Trap states and carrier dynamics of TiO ₂ studied by photoluminescence spectroscopy under weak excitation condition. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 7083-90 | 3.6 | 212 |
| 527 | Direct Synthesis of Al ₃ BA-15 Mesoporous Materials via Hydrolysis-Controlled Approach. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9739-9744 | 3.4 | 211 |
| 526 | Efficient Visible-Light-Driven Z-Scheme Overall Water Splitting Using a MgTa ₂ O(6-x)N(y)/TaON Heterostructure Photocatalyst for H ₂ Evolution. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8498-501 | 16.4 | 205 |
| 525 | Charge separation via asymmetric illumination in photocatalytic Cu ₂ O particles. <i>Nature Energy</i> , 2018 , 3, 655-663 | 62.3 | 191 |
| 524 | Imaging photogenerated charge carriers on surfaces and interfaces of photocatalysts with surface photovoltage microscopy. <i>Chemical Society Reviews</i> , 2018 , 47, 8238-8262 | 58.5 | 190 |
| 523 | UV Resonance Raman Spectroscopic Identification of Titanium Atoms in the Framework of TS-1 Zeolite. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2220-2222 | 16.4 | 184 |
| 522 | Photocatalytic oxidation of thiophene on BiVO ₄ with dual co-catalysts Pt and RuO ₂ under visible light irradiation using molecular oxygen as oxidant. <i>Energy and Environmental Science</i> , 2012 , 5, 6400-6406 | 35.4 | 180 |
| 521 | Chiral catalysis in nanopores of mesoporous materials. <i>Chemical Communications</i> , 2007 , 547-58 | 5.8 | 180 |
| 520 | Sustainable synthesis of zeolites without addition of both organotemplates and solvents. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4019-25 | 16.4 | 177 |
| 519 | Structural Characteristics and Redox Behaviors of Ce _{1-x} Cu _x O _y Solid Solutions. <i>Chemistry of Materials</i> , 2003 , 15, 4761-4767 | 9.6 | 176 |
| 518 | Water oxidation on a mononuclear manganese heterogeneous catalyst. <i>Nature Catalysis</i> , 2018 , 1, 870-877 | 36.5 | 175 |
| 517 | Well-defined BiOCl colloidal ultrathin nanosheets: synthesis, characterization, and application in photocatalytic aerobic oxidation of secondary amines. <i>Chemical Science</i> , 2015 , 6, 1873-1878 | 9.4 | 174 |

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| 516 | Visible light driven overall water splitting using cocatalyst/BiVO ₄ photoanode with minimized bias. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4589-95 | 3.6 | 173 |
| 515 | Construction and Nanoscale Detection of Interfacial Charge Transfer of Elegant Z-Scheme WO ₃ /Au/In ₂ S ₃ Nanowire Arrays. <i>Nano Letters</i> , 2016 , 16, 5547-52 | 11.5 | 171 |
| 514 | Mechanistic Studies of Photocatalytic Reaction of Methanol for Hydrogen Production on Pt/TiO ₂ by in situ Fourier Transform IR and Time-Resolved IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 8005-8014 | 3.8 | 167 |
| 513 | Mimicking the Key Functions of Photosystem II in Artificial Photosynthesis for Photoelectrocatalytic Water Splitting. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3250-3256 | 16.4 | 165 |
| 512 | Direct synthesis of highly ordered Fe-SBA-15 mesoporous materials under weak acidic conditions. <i>Microporous and Mesoporous Materials</i> , 2005 , 84, 41-49 | 5.3 | 158 |
| 511 | Synthesis of oriented TiO ₂ nanocones with fast charge transfer for perovskite solar cells. <i>Nano Energy</i> , 2015 , 11, 409-418 | 17.1 | 157 |
| 510 | Aerobic oxidative desulfurization of benzothiophene, dibenzothiophene and 4,6-dimethyldibenzothiophene using an Anderson-type catalyst [(C ₁₈ H ₃₇) ₂ N(CH ₃) ₂] ₅ [IMo ₆ O ₂₄]. <i>Green Chemistry</i> , 2010 , 12, 1954 | 10 | 154 |
| 509 | Effect of Metal Doping on Electronic Structure and Visible Light Absorption of SrTiO ₃ and NaTaO ₃ (Metal = Mn, Fe, and Co). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8305-8311 | 3.8 | 153 |
| 508 | Importance of the Relationship between Surface Phases and Photocatalytic Activity of TiO ₂ . <i>Angewandte Chemie</i> , 2008 , 120, 1790-1793 | 3.6 | 152 |
| 507 | Highly Selective Conversion of Carbon Dioxide to Aromatics over Tandem Catalysts. <i>Joule</i> , 2019 , 3, 570-583 | 14.3 | 145 |
| 506 | Water reduction and oxidation on Pt-Ru/Y ₂ Ta ₂ O ₅ N ₂ catalyst under visible light irradiation. <i>Chemical Communications</i> , 2004 , 2192-3 | 5.8 | 143 |
| 505 | Synergetic Effect of Conjugated Ni(OH) ₂ /IrO ₂ Cocatalyst on Titanium-Doped Hematite Photoanode for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19607-19612 | 3.8 | 142 |
| 504 | UV Raman spectroscopic study on the phase transformation of ZrO ₂ , Y ₂ O ₃ /ZrO ₂ and SO ₄ ²⁻ /ZrO ₂ . <i>Journal of Raman Spectroscopy</i> , 2002 , 33, 301-308 | 2.3 | 139 |
| 503 | Directly Probing Charge Separation at Interface of TiO Phase Junction. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1419-1423 | 6.4 | 135 |
| 502 | Spinel ZnMn ₂ O ₄ nanoplate assemblies fabricated via "escape-by-crafty-scheme" strategy. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13328 | | 134 |
| 501 | Achieving solar overall water splitting with hybrid photosystems of photosystem II and artificial photocatalysts. <i>Nature Communications</i> , 2014 , 5, 4647 | 17.4 | 129 |
| 500 | Effect of Redox Cocatalysts Location on Photocatalytic Overall Water Splitting over Cubic NaTaO ₃ Semiconductor Crystals Exposed with Equivalent Facets. <i>ACS Catalysis</i> , 2016 , 6, 2182-2191 | 13.1 | 128 |
| 499 | Sulfur-substituted and zinc-doped In(OH) ₃ : A new class of catalyst for photocatalytic H ₂ production from water under visible light illumination. <i>Journal of Catalysis</i> , 2006 , 237, 322-329 | 7.3 | 126 |

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| 498 | Water Oxidation Catalysts for Artificial Photosynthesis. <i>Advanced Materials</i> , 2019 , 31, e1902069 | 24 | 125 |
| 497 | Transition-Metal-Based Electrocatalysts as Cocatalysts for Photoelectrochemical Water Splitting: A Mini Review. <i>Small</i> , 2018 , 14, e1704179 | 11 | 124 |
| 496 | Structure and Redox Properties of CexTi1-xO2 Solid Solution. <i>Chemistry of Materials</i> , 2001 , 13, 197-202 | 9.6 | 124 |
| 495 | Identifying Framework Titanium in TS-1 Zeolite by UV Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2993-2997 | 3.4 | 123 |
| 494 | Alternating precursor layer deposition for highly stable perovskite films towards efficient solar cells using vacuum deposition. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9401-9405 | 13 | 121 |
| 493 | UV Raman spectroscopic studies on active sites and synthesis mechanisms of transition metal-containing microporous and mesoporous materials. <i>Accounts of Chemical Research</i> , 2010 , 43, 378-387 | 3.3 | 117 |
| 492 | Intrinsic Facet-Dependent Reactivity of Well-Defined BiOBr Nanosheets on Photocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6590-6595 | 16.4 | 115 |
| 491 | Enhancing hydrogen production activity and suppressing CO formation from photocatalytic biomass reforming on Pt/TiO2 by optimizing anatase-rutile phase structure. <i>Journal of Catalysis</i> , 2011 , 278, 329-335 | 7.3 | 115 |
| 490 | Understanding the anatase-rutile phase junction in charge separation and transfer in a TiO electrode for photoelectrochemical water splitting. <i>Chemical Science</i> , 2016 , 7, 6076-6082 | 9.4 | 114 |
| 489 | Enantioselective Diels-Alder reactions with G-quadruplex DNA-based catalysts. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9352-5 | 16.4 | 112 |
| 488 | Assembly of ZIF nanostructures around free Pt nanoparticles: efficient size-selective catalysts for hydrogenation of alkenes under mild conditions. <i>Chemical Communications</i> , 2013 , 49, 3330-2 | 5.8 | 110 |
| 487 | Significance of Crystal Morphology Controlling in Semiconductor-Based Photocatalysis: A Case Study on BiVO4 Photocatalyst. <i>Crystal Growth and Design</i> , 2017 , 17, 2923-2928 | 3.5 | 109 |
| 486 | Formal asymmetric catalytic thiolation with a bifunctional catalyst at a water-oil interface: synthesis of benzyl thiols. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4522-6 | 16.4 | 109 |
| 485 | Catalytic Decomposition of Ammonia over Nitrided MoNx/Al2O3 and NiMoNy/Al2O3 Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 3694-3697 | 3.9 | 109 |
| 484 | Visualizing the Nano Cocatalyst Aligned Electric Fields on Single Photocatalyst Particles. <i>Nano Letters</i> , 2017 , 17, 6735-6741 | 11.5 | 108 |
| 483 | Dynamic Interaction between Methylammonium Lead Iodide and TiO2 Nanocrystals Leads to Enhanced Photocatalytic H2 Evolution from HI Splitting. <i>ACS Energy Letters</i> , 2018 , 3, 1159-1164 | 20.1 | 105 |
| 482 | Manipulating the Interfacial Energetics of n-type Silicon Photoanode for Efficient Water Oxidation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13664-13672 | 16.4 | 105 |
| 481 | Where Do Photogenerated Holes Go in Anatase:Rutile TiO2? A Transient Absorption Spectroscopy Study of Charge Transfer and Lifetime. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 715-23 | 2.8 | 101 |

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| 480 | A thorough investigation of the active titanium species in TS-1 zeolite by in situ UV resonance raman spectroscopy. <i>Chemistry - A European Journal</i> , 2012 , 18, 13854-60 | 4.8 | 101 |
| 479 | Composite Sr ₂ TiO ₄ /SrTiO ₃ (La,Cr) heterojunction based photocatalyst for hydrogen production under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7905 | 13 | 101 |
| 478 | Integrating a dual-silicon photoelectrochemical cell into a redox flow battery for unassisted photocharging. <i>Nature Communications</i> , 2016 , 7, 11474 | 17.4 | 100 |
| 477 | The Synergistic Effects of Two Co-catalysts on Zn ₂ GeO ₄ on Photocatalytic Water Splitting. <i>Catalysis Letters</i> , 2010 , 134, 78-86 | 2.8 | 100 |
| 476 | Improving Catalytic Hydrogenation Performance of Pd Nanoparticles by Electronic Modulation Using Phosphine Ligands. <i>ACS Catalysis</i> , 2018 , 8, 6476-6485 | 13.1 | 98 |
| 475 | UV Raman Spectroscopic Study on TiO ₂ . II. Effect of Nanoparticle Size on the Outer/Inner Phase Transformations. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1698-1704 | 3.8 | 98 |
| 474 | Unprecedentedly high formic acid dehydrogenation activity on an iridium complex with an N,N'-diimine ligand in water. <i>Chemistry - A European Journal</i> , 2015 , 21, 12592-5 | 4.8 | 97 |
| 473 | The nature of photogenerated charge separation among different crystal facets of BiVO ₄ studied by density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23503-10 | 3.6 | 95 |
| 472 | Photocatalytic H ₂ production on hybrid catalyst system composed of inorganic semiconductor and cobaloximes catalysts. <i>Journal of Catalysis</i> , 2011 , 281, 318-324 | 7.3 | 95 |
| 471 | Mo ₂ C as Non-Noble Metal Co-Catalyst in Mo ₂ C/CdS Composite for Enhanced Photocatalytic H ₂ Evolution under Visible Light Irradiation. <i>ChemSusChem</i> , 2016 , 9, 820-4 | 8.3 | 94 |
| 470 | Direct and indirect Z-scheme heterostructure-coupled photosystem enabling cooperation of CO reduction and HO oxidation. <i>Nature Communications</i> , 2020 , 11, 3043 | 17.4 | 93 |
| 469 | Enantioselective Friedel-Crafts reactions in water catalyzed by a human telomeric G-quadruplex DNA metalloenzyme. <i>Chemical Communications</i> , 2012 , 48, 6232-4 | 5.8 | 92 |
| 468 | Noble-Metal Based Random Alloy and Intermetallic Nanocrystals: Syntheses and Applications. <i>Chemical Reviews</i> , 2021 , 121, 736-795 | 68.1 | 92 |
| 467 | Stable Potential Windows for Long-Term Electrocatalysis by Manganese Oxides Under Acidic Conditions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5054-5058 | 16.4 | 91 |
| 466 | Visible-Light-Responsive 2D Cadmium-Organic Framework Single Crystals with Dual Functions of Water Reduction and Oxidation. <i>Advanced Materials</i> , 2018 , 30, e1803401 | 24 | 90 |
| 465 | Transfer of Photoinduced Electrons in Anatase/Rutile TiO ₂ Determined by Time-Resolved Mid-Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12661-12668 | 3.8 | 89 |
| 464 | Surface Strategies for Particulate Photocatalysts toward Artificial Photosynthesis. <i>Joule</i> , 2018 , 2, 2260-2288 | 27.8 | 89 |
| 463 | A hybrid photocatalytic system comprising ZnS as light harvester and an [Fe(2)S(2)] hydrogenase mimic as hydrogen evolution catalyst. <i>ChemSusChem</i> , 2012 , 5, 849-53 | 8.3 | 87 |

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| 462 | Highly Efficient Dehydrogenation of Primary Aliphatic Alcohols Catalyzed by Cu Nanoparticles Dispersed on Rod-Shaped La ₂ O ₂ CO ₃ . <i>ACS Catalysis</i> , 2013 , 3, 890-894 | 13.1 | 87 |
| 461 | Bismuth Tantalum Oxyhalogen: A Promising Candidate Photocatalyst for Solar Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1701392 | 21.8 | 86 |
| 460 | Photocatalytic H ₂ production on Pt/TiO ₂ /BiO ₄ with tuned surface-phase structures: enhancing activity and reducing CO formation. <i>Energy and Environmental Science</i> , 2012 , 5, 6345-6351 | 35.4 | 86 |
| 459 | Enantioselective Reactions of 2-Sulfonylalkyl Phenols with Allenic Esters: Dynamic Kinetic Resolution and [4+2] Cycloaddition Involving ortho-Quinone Methide Intermediates. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3689-3693 | 16.4 | 84 |
| 458 | Effect of Phase Junction Structure on the Photocatalytic Performance in Overall Water Splitting: Ga ₂ O ₃ Photocatalyst as an Example. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18221-18228 | 3.8 | 83 |
| 457 | Direct synthesis of highly ordered amine-functionalized mesoporous ethane-silicas. <i>Microporous and Mesoporous Materials</i> , 2008 , 109, 172-183 | 5.3 | 83 |
| 456 | Cu ₂ O/CuO photocathode with improved stability for photoelectrochemical water reduction. <i>RSC Advances</i> , 2015 , 5, 10790-10794 | 3.7 | 82 |
| 455 | Amorphous Multi-elements Electrocatalysts with Tunable Bifunctionality toward Overall Water Splitting. <i>ACS Catalysis</i> , 2018 , 8, 9926-9935 | 13.1 | 82 |
| 454 | Achievement of visible-light-driven Z-scheme overall water splitting using barium-modified TaN as a H ₂ -evolving photocatalyst. <i>Chemical Science</i> , 2017 , 8, 437-443 | 9.4 | 81 |
| 453 | Promoting Photocatalytic H ₂ Evolution on Organic/organic Hybrid Perovskite Nanocrystals by Simultaneous Dual-Charge Transportation Modulation. <i>ACS Energy Letters</i> , 2019 , 4, 40-47 | 20.1 | 81 |
| 452 | Crystallographic-Orientation-Dependent Charge Separation of BiVO ₄ for Solar Water Oxidation. <i>ACS Energy Letters</i> , 2019 , 4, 825-831 | 20.1 | 80 |
| 451 | Base-free hydrogenation of CO ₂ to formic acid in water with an iridium complex bearing a N,N'-diimine ligand. <i>Green Chemistry</i> , 2016 , 18, 4553-4558 | 10 | 80 |
| 450 | Solar-to-hydrogen efficiency exceeding 2.5% achieved for overall water splitting with an all earth-abundant dual-photoelectrode. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15608-14 | 3.6 | 79 |
| 449 | Nitrogen-doped layered oxide Sr ₅ Ta ₄ O ₁₅ N _x for water reduction and oxidation under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5651 | 13 | 79 |
| 448 | Hydration of epoxides on [Co(III) salen] encapsulated in silica-based nanoreactors. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11517-21 | 16.4 | 78 |
| 447 | Work-Function-Tunable Chlorinated Graphene Oxide as an Anode Interface Layer in High-Efficiency Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400591 | 21.8 | 75 |
| 446 | Tuning the energy band-gap of crystalline gallium oxide to enhance photocatalytic water splitting: mixed-phase junctions. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17005-17014 | 13 | 75 |
| 445 | Thermochemical CO ₂ splitting reaction with supported La _x A _{1-x} FeyB _{1-y} O ₃ (A=Sr, Ce, B=Co, Mn; 0<x, y<1) perovskite oxides. <i>Solar Energy</i> , 2014 , 103, 425-437 | 6.8 | 75 |

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| 444 | Synthesis and Demonstration of Subnanometric Iridium Oxide as Highly Efficient and Robust Water Oxidation Catalyst. <i>ACS Catalysis</i> , 2017 , 7, 5983-5986 | 13.1 | 75 |
| 443 | Photocatalytic Overall Water Splitting Promoted by an Heterophase Junction on Ga ₂ O ₃ . <i>Angewandte Chemie</i> , 2012 , 124, 13266-13269 | 3.6 | 75 |
| 442 | UV Raman spectroscopic study on the synthesis mechanism and assembly of molecular sieves. <i>Chemical Society Reviews</i> , 2010 , 39, 4794-801 | 58.5 | 75 |
| 441 | From molecular fragments to crystals: a UV Raman spectroscopic study on the mechanism of Fe-ZSM-5 synthesis. <i>Chemistry - A European Journal</i> , 2009 , 15, 3268-76 | 4.8 | 75 |
| 440 | Evidence for the binding mode of porphyrins to G-quadruplex DNA. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 4025-32 | 3.6 | 75 |
| 439 | Pyroelectric effect in CdS nanorods decorated with a molecular Co-catalyst for hydrogen evolution. <i>Nano Energy</i> , 2020 , 73, 104810 | 17.1 | 74 |
| 438 | The synthesis of chiral isotetronic acids with amphiphilic imidazole/pyrrolidine catalysts assembled in oil-in-water emulsion droplets. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 13159-62 | 16.4 | 74 |
| 437 | Photoelectrochemical water oxidation on photoanodes fabricated with hexagonal nanoflower and nanoblock WO ₃ . <i>Nanoscale</i> , 2014 , 6, 2061-6 | 7.7 | 72 |
| 436 | Homophase Junction for Promoting Spatial Charge Separation in Photocatalytic Water Splitting. <i>ACS Catalysis</i> , 2019 , 9, 3242-3252 | 13.1 | 71 |
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| 20 | Identifying the Role of the Local Charge Density on the Hydrogen Evolution Reaction of the Photoelectrode. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10829-10836 | 6.4 | 1 |
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| 13 | Room Temperature Allenation of Terminal Alkynes with Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25708-25713 | 16.4 | 1 |

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| 10 | Designing a Z-scheme system based on photocatalyst panels towards separated hydrogen and oxygen production from overall water splitting. <i>Catalysis Science and Technology</i> , 2022 , 12, 572-578 | 5.5 | 0 |
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| 5 | Surface Phosphate Functionalization for Boosting Plasmon-Induced Water Oxidation on Au/TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5167-5174 | 3.8 | 0 |
| 4 | Aromatic bromination with hydrogen production on organic-inorganic hybrid perovskite-based photocatalysts under visible light irradiation. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1805-1811 | 11.3 | 0 |
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| 2 | Rektilbild: Photocatalytic Overall Water Splitting Promoted by an H-phase Junction on Ga ₂ O ₃ (Angew. Chem. 52/2012). <i>Angewandte Chemie</i> , 2012 , 124, 13356-13356 | 3.6 | |
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