# Zhaosheng Li

List of Publications by Year
in descending order

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|---|---|---|---|
| 184 papers | 11,856 citations | 31902 53 h-index | 29081 104 g-index |
| 190 all docs | 190 docs citations | 190 times ranked | 13415 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Organics challenge inorganics for efficient photoelectrochemical water oxidation. Science Bulletin, 2022, 67, 226-228. | 4.3 | 5 |
| 2 | Effects of transition metal doping on electronic structure of metastable Î²-Fe<sub>2</sub>O<sub>3</sub> photocatalyst for solar-to-hydrogen conversion. Physical Chemistry Chemical Physics, 2022, 24, 6958-6963. | 1.3 | 3 |
| 3 | FeVO<sub>4</sub> nanowires for efficient photocatalytic CO<sub>2</sub> reduction. Catalysis Science and Technology, 2022, 12, 3289-3294. | 2.1 | 12 |
| 4 | Bandgap Engineering and Oxygen Vacancies of Ni<sub>x</sub>V<sub>2</sub>O<sub>5+x</sub> (xâ€‰=â€‰1, 2, 3) for Efficient Visible Lightâ€Driven CO<sub>2</sub> to CO with Nearly 100% Selectivity. Solar Rrl, 2022, 6, . | 3.1 | 8 |
| 5 | In situ optical spectroscopic understanding of electrochemical passivation mechanism on solâ€“gel processed WO3 photoanodes. Journal of Energy Chemistry, 2022, 71, 20-28. | 7.1 | 17 |
| 6 | A Waterâ€Soluble Highly Oxidizing Cobalt Molecular Catalyst Designed for Bioinspired Water Oxidation. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 13 |
| 7 | Extraterrestrial photosynthesis by Changâ€™E-5 lunar soil. Joule, 2022, 6, 1008-1014. | 11.7 | 15 |
| 8 | Deactivation and Stabilization Mechanism of Photothermal CO<sub>2</sub> Hydrogenation over Black TiO<sub>2</sub>. ACS Sustainable Chemistry and Engineering, 2022, 10, 6382-6388. | 3.2 | 16 |
| 9 | Homogeneous solution assembled Turing structures with near zero strain semi-coherence interface. Nature Communications, 2022, 13, . | 5.8 | 13 |
| 10 | Ultrathin 3D radial tandem-junction photocathode with a high onset potential of 1.15 V for solar hydrogen production. Chinese Journal of Catalysis, 2022, 43, 1842-1850. | 6.9 | 1 |
| 11 | An energy level alignment strategy to boost the open-circuit voltage via a Mg:TiO2 compact layer in the planar heterojunction CsPbBr3 solar cells. Applied Physics Letters, 2022, 120, . | 1.5 | 5 |
| 12 | Centimeter-scale perovskite SrTaO2N single crystals with enhanced photoelectrochemical performance. Science Bulletin, 2022, 67, 1458-1466. | 4.3 | 6 |
| 13 | A2V2O7 (A = Co, Ni, Cu and Zn) for CO2 reduction under visible-light irradiation: Effects of A site replacement. Applied Catalysis B: Environmental, 2022, 317, 121722. | 10.8 | 10 |
| 14 | Exploring N-Containing Compound Catalyst for H2S Selective Oxidation: Case Study of TaON and Ta3N5. Catalysis Letters, 2021, 151, 1728-1737. | 1.4 | 2 |
| 15 | Evaluating the promotional effects of WO3 underlayers in BiVO4 water splitting photoanodes. Chemical Engineering Journal, 2021, 417, 128095. | 6.6 | 27 |
| 16 | A strategy of asymmetric local structure based on mesoporous MoO<sub>2</sub> toward efficient electrocatalysis. Chemical Communications, 2021, 57, 7834-7837. | 2.2 | 3 |
| 17 | Synthesis of porous Auâ€“Ag alloy nanorods with tunable plasmonic properties and intrinsic hotspots for surface-enhanced Raman scattering. CrystEngComm, 2021, 23, 3467-3476. | 1.3 | 6 |
| 18 | Photocatalytic and Thermocatalytic Conversion of Methane. Solar Rrl, 2021, 5, 2000596. | 3.1 | 16 |

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| 19 | Ureaâ€Assisted Synthesis and Tailoring Cobalt Cores for Synergetic Promotion of Hydrogen Evolution Reaction in Acid and Alkaline Media. Advanced Energy and Sustainability Research, 2021, 2, 2000091. | 2.8 | 5 |
| 20 | Promotion effect of metal phosphides towards electrocatalytic and photocatalytic water splitting. EcoMat, 2021, 3, e12097. | 6.8 | 46 |
| 21 | Material Design and Surface/Interface Engineering of Photoelectrodes for Solar Water Splitting. Solar Rrl, 2021, 5, 2100100. | 3.1 | 33 |
| 22 | An ultraviolet-ozone post-treatment to remove the inherent impurities in all-ambient solution-processed CsPbBr3 perovskite films. Applied Physics Letters, 2021, 118, 221604. | 1.5 | 5 |
| 23 | Suppressing the Defects in CsPbI2Br Perovskite Photovoltaic Films via a Homogeneous Cap-Mediated Annealing Strategy. Energy & Fuels, 2021, 35, 11488-11495. | 2.5 | 4 |
| 24 | Extraterrestrial artificial photosynthetic materials for in-situ resource utilization. National Science Review, 2021, 8, nwab104. | 4.6 | 17 |
| 25 | Direct Molecule Substitution Enabled Rapid Transformation of Wet PbBr<sub>2</sub>(DMF) Precursor Films to CsPbBr<sub>3</sub> Perovskite. ACS Applied Energy Materials, 2021, 4, 6414-6421. | 2.5 | 7 |
| 26 | 2D Highâ€Entropy Hydrotalcites. Small, 2021, 17, e2103412. | 5.2 | 27 |
| 27 | Metastable-phase Î²-Fe2O3 photoanodes for solar water splitting with durability exceeding 100 h. Chinese Journal of Catalysis, 2021, 42, 1992-1998. | 6.9 | 16 |
| 28 | Lanthanum bismuth oxide photocatalysts for CO<sub>2</sub>reduction to CO with high selectivity. Sustainable Energy and Fuels, 2021, 5, 2688-2694. | 2.5 | 6 |
| 29 | Carrier Mobility Enhancement in (121)-Oriented CsPbBr<sub>3</sub> Perovskite Films Induced by the Microstructure Tailoring of PbBr<sub>2</sub> Precursor Films. ACS Applied Electronic Materials, 2021, 3, 373-384. | 2.0 | 30 |
| 30 | Cooperative catalysis coupling photo-/photothermal effect to drive Sabatier reaction with unprecedented conversion and selectivity. Joule, 2021, 5, 3235-3251. | 11.7 | 91 |
| 31 | State-of-the-art advancements of crystal facet-exposed photocatalysts beyond TiO2: Design and dependent performance for solar energy conversion and environment applications. Materials Today, 2020, 33, 75-86. | 8.3 | 97 |
| 32 | Non-oxide semiconductors for artificial photosynthesis: Progress on photoelectrochemical water splitting and carbon dioxide reduction. Nano Today, 2020, 30, 100830. | 6.2 | 76 |
| 33 | Photocatalysis: an overview of recent developments and technological advancements. Science China Chemistry, 2020, 63, 149-181. | 4.2 | 107 |
| 34 | Curing the fundamental issue of impurity phases in two-step solution-processed CsPbBr3 perovskite films. Science Bulletin, 2020, 65, 726-737. | 4.3 | 34 |
| 35 | Modulation of Disordered Coordination Degree Based on Surface Defective Metalâ€“Organic Framework Derivatives toward Boosting Oxygen Evolution Electrocatalysis. Small, 2020, 16, e2003630. | 5.2 | 44 |
| 36 | Sol-gel synthesis of highly reproducible WO3 photoanodes for solar water oxidation. Science China Materials, 2020, 63, 2261-2271. | 3.5 | 12 |

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| 37 | Phase degradation of all-inorganic perovskite CsPbI2Br films induced by a p-type CuI granular capping layer. Science China Materials, 2020, 63, 2487-2496. | 3.5 | 9 |
| 38 | Paving the road toward the use of Î²-Fe2O3 in solar water splitting: Raman identification, phase transformation and strategies for phase stabilization. National Science Review, 2020, 7, 1059-1067. | 4.6 | 38 |
| 39 | Effects of oxygen impurity concentration on the interfacial properties of Ta3N5/Ta5N6 composite photoelectrode: A DFT calculation. Applied Catalysis B: Environmental, 2020, 278, 119296. | 10.8 | 6 |
| 40 | Suppression of Point Defects for Band Edge Engineering in a Semiconducting Photocatalyst. Journal of Physical Chemistry Letters, 2020, 11, 1708-1713. | 2.1 | 11 |
| 41 | Simultaneous Optimization of Phase and Morphology of CsPbBr 3 Films via Controllable Ostwald Ripening by Ethylene Glycol Monomethylether/Isopropanol Biâ€Solvent Engineering. Advanced Engineering Materials, 2020, 22, 2000162. | 1.6 | 19 |
| 42 | Molecular-level understanding of the deactivation pathways during methanol photo-reforming on Pt-decorated TiO2. Applied Catalysis B: Environmental, 2020, 272, 118980. | 10.8 | 17 |
| 43 | Polaron States as a Massive Electron-Transfer Pathway at Heterojunction Interface. Journal of Physical Chemistry Letters, 2020, 11, 9184-9194. | 2.1 | 14 |
| 44 | In situ preparation of Bi<sub>2</sub>S<sub>3</sub> nanoribbon-anchored BiVO<sub>4</sub> nanoscroll heterostructures for the catalysis of Cr(<scp>vi</scp>) photoreduction. Catalysis Science and Technology, 2020, 10, 3843-3847. | 2.1 | 14 |
| 45 | Elegant Molecular Iodine/Antisolvent Solution Engineering To Tune the Fermi Level of Perovskite CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>. ACS Applied Energy Materials, 2019, 2, 5753-5758. | 2.5 | 7 |
| 46 | Effect of Bulk Hydrogen on the Photocatalytic Activity of Semiconducting Ta<sub>3</sub>N<sub>5</sub>: A Hybrid-DFT Viewpoint. Journal of Physical Chemistry C, 2019, 123, 28763-28768. | 1.5 | 7 |
| 47 | Defect Engineering in Semiconductors: Manipulating Nonstoichiometric Defects and Understanding Their Impact in Oxynitrides for Solar Energy Conversion. Advanced Functional Materials, 2019, 29, 1808389. | 7.8 | 56 |
| 48 | Construction of silica-encapsulated gold-silver core-shell nanorod: Atomic facets enrichment and plasmon enhanced catalytic activity with high stability and reusability. Materials and Design, 2019, 177, 107837. | 3.3 | 21 |
| 49 | Design Principles for Construction of Charge Transport Channels in Particle-Assembled Water-Splitting Photoelectrodes. ACS Sustainable Chemistry and Engineering, 2019, 7, 10509-10515. | 3.2 | 13 |
| 50 | Highly symmetrical, 24-faceted, concave BiVO<sub>4</sub> polyhedron bounded by multiple high-index facets for prominent photocatalytic O<sub>2</sub> evolution under visible light. Chemical Communications, 2019, 55, 4777-4780. | 2.2 | 29 |
| 51 | Interfacial Effects on the Band Edges of Ta3N5 Photoanodes in an Aqueous Environment: A Theoretical View. IScience, 2019, 13, 432-439. | 1.9 | 10 |
| 52 | BiVO<sub>4</sub> tubular structures: oxygen defect-rich and largely exposed reactive {010} facets synergistically boost photocatalytic water oxidation and the selective Nî€N coupling reaction of 5-amino-1H-tetrazole. Chemical Communications, 2019, 55, 5635-5638. | 2.2 | 17 |
| 53 | Charge compensation doping to improve the photocatalytic and photoelectrochemical activities of Ta3N5: A theoretical study. Applied Catalysis B: Environmental, 2019, 244, 502-510. | 10.8 | 24 |
| 54 | Heterogeneous degradation of organic contaminants in the photo-Fenton reaction employing pure cubic Î²-Fe2O3. Applied Catalysis B: Environmental, 2019, 245, 410-419. | 10.8 | 107 |

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| 55 | Reactive Inorganic Vapor Deposition of Perovskite Oxynitride Films for Solar Energy Conversion. Research, 2019, 2019, 9282674. | 2.8 | 17 |
| 56 | Surface states as electron transfer pathway enhanced charge separation in TiO2 nanotube water splitting photoanodes. Applied Catalysis B: Environmental, 2018, 234, 100-108. | 10.8 | 77 |
| 57 | High Energy Density Asymmetric Supercapacitor Based ZnS/NiCo<sub>2</sub>S<sub>4</sub>/Co<sub>9</sub>S<sub>8</sub> Nanotube Composites Materials. Advanced Materials Interfaces, 2018, 5, 1800018. | 1.9 | 54 |
| 58 | Interfacial Engineering of Hierarchical Transition Metal Oxide Heterostructures for Highly Sensitive Sensing of Hydrogen Peroxide. Small, 2018, 14, e1703713. | 5.2 | 40 |
| 59 | Insight into the influence of high temperature annealing on the onset potential of Ti-doped hematite photoanodes for solar water splitting. Chinese Chemical Letters, 2018, 29, 791-794. | 4.8 | 6 |
| 60 | Tuning spontaneous polarization to alter water oxidation/reduction activities of LiNbO3. Applied Physics Letters, 2018, 112, . | 1.5 | 11 |
| 61 | Rational design of electrocatalysts for simultaneously promoting bulk charge separation and surface charge transfer in solar water splitting photoelectrodes. Journal of Materials Chemistry A, 2018, 6, 2568-2576. | 5.2 | 56 |
| 62 | Promoted photoelectrochemical activity of BiVO4 coupled with LaFeO3 and LaCoO3. Research on Chemical Intermediates, 2018, 44, 1013-1024. | 1.3 | 10 |
| 63 | Improving solar water-splitting performance of LaTaON2 by bulk defect control and interface engineering. Applied Catalysis B: Environmental, 2018, 226, 111-116. | 10.8 | 26 |
| 64 | Theoretical Insight into Charge-Recombination Center in Ta<sub>3</sub>N<sub>5</sub> Photocatalyst: Interstitial Hydrogen. Journal of Physical Chemistry C, 2018, 122, 489-494. | 1.5 | 9 |
| 65 | Tandem photoelectrochemical cells for solar water splitting. Advances in Physics: X, 2018, 3, 1487267. | 1.5 | 25 |
| 66 | Exploring facile strategies for high-oxidation-state metal nitride synthesis: carbonate-assisted one-step synthesis of Ta3N5 films for solar water splitting. Science Bulletin, 2018, 63, 1404-1410. | 4.3 | 19 |
| 67 | Facet-Dependent Enhancement in the Activity of Bismuth Vanadate Microcrystals for the Photocatalytic Conversion of Methane to Methanol. ACS Applied Nano Materials, 2018, 1, 6683-6691. | 2.4 | 79 |
| 68 | Improved water-splitting performances of CuW1â^'xMoxO4 photoanodes synthesized by spray pyrolysis. Science China Materials, 2018, 61, 1297-1304. | 3.5 | 22 |
| 69 | Galvanic cell reaction driven electrochemical doping of TiO2 nanotube photoanodes for enhanced charge separation. Chemical Communications, 2018, 54, 11116-11119. | 2.2 | 3 |
| 70 | Effects of Mgâ€“Zr codoping on the photoelectrochemical properties of a Ta<sub>3</sub>N<sub>5</sub>semiconductor: a theoretical insight. Journal of Materials Chemistry A, 2017, 5, 6966-6973. | 5.2 | 19 |
| 71 | Selective Electrochemical Detection of Dopamine on Polyoxometalateâ€Based Metalâ€“Organic Framework and Its Composite with Reduced Graphene Oxide. Advanced Materials Interfaces, 2017, 4, 1601241. | 1.9 | 51 |
| 72 | Oxygen-Impurity-Induced Directâ€“Indirect Band Gap in Perovskite SrTaO<sub>2</sub>N. Journal of Physical Chemistry C, 2017, 121, 6864-6867. | 1.5 | 14 |

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| 73 | A beta-Fe<sub>2</sub>O<sub>3</sub> nanoparticle-assembled film for photoelectrochemical water splitting. Dalton Transactions, 2017, 46, 10673-10677. | 1.6 | 27 |
| 74 | A novel wide-spectrum response hexagonal YFeO<sub>3</sub> photoanode for solar water splitting. RSC Advances, 2017, 7, 18418-18420. | 1.7 | 18 |
| 75 | Current advances in MoS2/semiconductor heterojunction with enhanced photocatalytic activity. Current Opinion in Green and Sustainable Chemistry, 2017, 6, 42-47. | 3.2 | 10 |
| 76 | A facile spray pyrolysis method to prepare Ti-doped ZnFe<sub>2</sub>O<sub>4</sub> for boosting photoelectrochemical water splitting. Journal of Materials Chemistry A, 2017, 5, 7571-7577. | 5.2 | 113 |
| 77 | Two-dimensional nanomaterials for photocatalytic CO<sub>2</sub>reduction to solar fuels. Sustainable Energy and Fuels, 2017, 1, 1875-1898. | 2.5 | 156 |
| 78 | Bi<sub>2</sub>MoO<sub>6</sub> Nanostrip Networks for Enhanced Visibleâ€Light Photocatalytic Reduction of CO<sub>2</sub> to CH<sub>4</sub>. ChemPhysChem, 2017, 18, 3240-3244. | 1.0 | 38 |
| 79 | Improved charge separation efficiency of hematite photoanodes by coating an ultrathin p-type LaFeO<sub>3</sub> overlayer. Nanotechnology, 2017, 28, 394003. | 1.3 | 9 |
| 80 | Back Electron Transfer at TiO<sub>2</sub> Nanotube Photoanodes in the Presence of a H<sub>2</sub>O<sub>2</sub> Hole Scavenger. ACS Applied Materials & Interfaces, 2017, 9, 33887-33895. | 4.0 | 31 |
| 81 | Threeâ€Dimensional Hierarchical Architectures Derived from Surfaceâ€Mounted Metalâ€“Organic Framework Membranes for Enhanced Electrocatalysis. Angewandte Chemie - International Edition, 2017, 56, 13781-13785. | 7.2 | 193 |
| 82 | Enhanced solar photocurrent of LaTaON<sub>2</sub> photoanodes via electrochemical treatment. IOP Conference Series: Materials Science and Engineering, 2017, 182, 012007. | 0.3 | 2 |
| 83 | Threeâ€Dimensional Hierarchical Architectures Derived from Surfaceâ€Mounted Metalâ€“Organic Framework Membranes for Enhanced Electrocatalysis. Angewandte Chemie, 2017, 129, 13969-13973. | 1.6 | 42 |
| 84 | Compensation of band-edge positions in titanium-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ta</mml:mi><mml:mn>3</mml:mn></mml:r mathvariant="normal">N</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math> photoanode for enhanced water splitting performance: A first-principles insight. Physical Review Materials, 2017, 1, . | 0.9 | 11 |
| 85 | Hydrogen Evolution Reaction of Î³-Mo0.5W0.5 C Achieved by High Pressure High Temperature Synthesis. Catalysts, 2016, 6, 208. | 1.6 | 3 |
| 86 | Enhanced InGaN/GaN photoelectrodes for visibleâ€lightâ€driven hydrogen generation by surface roughening. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2704-2708. | 0.8 | 1 |
| 87 | A perspective on perovskite oxide semiconductor catalysts for gas phase photoreduction of carbon dioxide. MRS Communications, 2016, 6, 216-225. | 0.8 | 18 |
| 88 | Formation of Hierarchical Structure Composed of (Co/Ni)Mn-LDH Nanosheets on MWCNT Backbones for Efficient Electrocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 14527-14534. | 4.0 | 155 |
| 89 | Enhanced Waterâ€Splitting Performance of Perovskite SrTaO<sub>2</sub>N Photoanode Film through Ameliorating Interparticle Charge Transport. Advanced Functional Materials, 2016, 26, 7156-7163. | 7.8 | 86 |
| 90 | Layered crystalline ZnIn<sub>2</sub>S<sub>4</sub>nanosheets: CVD synthesis and photo-electrochemical properties. Nanoscale, 2016, 8, 18197-18203. | 2.8 | 42 |

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| 91 | Photoelectrochemical cell for unassisted overall solar water splitting using a BiVO<sub>4</sub>photoanode and Si nanoarray photocathode. RSC Advances, 2016, 6, 9905-9910. | 1.7 | 64 |
| 92 | Theoretical study on the surface stabilities, electronic structures and water adsorption behavior of the Ta<sub>3</sub>N<sub>5</sub>(110) surface. Physical Chemistry Chemical Physics, 2016, 18, 7938-7945. | 1.3 | 8 |
| 93 | Significant improvements in InGaN/GaN nano-photoelectrodes for hydrogen generation by structure and polarization optimization. Scientific Reports, 2016, 6, 20218. | 1.6 | 27 |
| 94 | Enhancement of Photoelectrochemical Performance in Water Oxidation over Bismuth Vanadate Photoanodes by Incorporation with Reduced Graphene Oxide. ChemCatChem, 2015, 7, 2979-2985. | 1.8 | 11 |
| 95 | Unraveling the mechanism of 720 nm sub-band-gap optical absorption of a Ta<sub>3</sub>N<sub>5</sub> semiconductor photocatalyst: a hybrid-DFT calculation. Physical Chemistry Chemical Physics, 2015, 17, 8166-8171. | 1.3 | 34 |
| 96 | Effects of oxygen impurities and nitrogen vacancies on the surface properties of the Ta<sub>3</sub>N<sub>5</sub>photocatalyst: a DFT study. Physical Chemistry Chemical Physics, 2015, 17, 23265-23272. | 1.3 | 19 |
| 97 | Enhanced Performance of Photoelectrochemical Water Splitting with ITO@Î±-Fe<sub>2</sub>O<sub>3</sub> Coreâ€“Shell Nanowire Array as Photoanode. ACS Applied Materials & Interfaces, 2015, 7, 26482-26490. | 4.0 | 60 |
| 98 | Construction of Visible-Light-Responsive SrTiO3 with Enhanced CO2 Adsorption Ability: Highly Efficient Photocatalysts for Artifical Photosynthesis. Catalysis Letters, 2015, 145, 640-646. | 1.4 | 29 |
| 99 | Application of binder-free TiOxN1â^'x nanogrid film as a high-power supercapacitor electrode. Journal of Power Sources, 2015, 296, 53-63. | 4.0 | 25 |
| 100 | Solar fuel production: Strategies and new opportunities with nanostructures. Nano Today, 2015, 10, 468-486. | 6.2 | 126 |
| 101 | A hybrid density functional theory study of the anion distribution and applied electronic properties of the LaTiO<sub>2</sub>N semiconductor photocatalyst. Physical Chemistry Chemical Physics, 2015, 17, 19631-19636. | 1.3 | 11 |
| 102 | Photocatalytic CO2 reduction of BaCeO3 with 4f configuration electrons. Applied Surface Science, 2015, 358, 463-467. | 3.1 | 27 |
| 103 | Barium zirconate: a new photocatalyst for converting CO<sub>2</sub> into hydrocarbons under UV irradiation. Catalysis Science and Technology, 2015, 5, 1758-1763. | 2.1 | 44 |
| 104 | Geâ€Mediated Modification in Ta<sub>3</sub>N<sub>5</sub> Photoelectrodes with Enhanced Charge Transport for Solar Water Splitting. Chemistry - A European Journal, 2014, 20, 16384-16390. | 1.7 | 38 |
| 105 | Quantitative Analysis and Visualized Evidence for High Charge Separation Efficiency in a Solidâ€Liquid Bulk Heterojunction. Advanced Energy Materials, 2014, 4, 1301785. | 10.2 | 88 |
| 106 | Effects of Baâ€“O codoping on the photocatalytic activities of Ta<sub>3</sub>N<sub>5</sub>photocatalyst: a DFT study. RSC Advances, 2014, 4, 55615-55621. | 1.7 | 9 |
| 107 | Highly Photoâ€Responsive LaTiO<sub>2</sub>N Photoanodes by Improvement of Charge Carrier Transport among Film Particles. Advanced Functional Materials, 2014, 24, 3535-3542. | 7.8 | 166 |
| 108 | MnO2 nanolayers on highly conductive TiO0.54N0.46 nanotubes for supercapacitor electrodes with high power density and cyclic stability. Physical Chemistry Chemical Physics, 2014, 16, 8521. | 1.3 | 21 |

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| 109 | Basic Molten Salt Route to Prepare Porous SrTiO<sub>3</sub> Nanocrystals for Efficient Photocatalytic Hydrogen Production. European Journal of Inorganic Chemistry, 2014, 2014, 3731-3735. | 1.0 | 19 |
| 110 | Role of oxygen impurity on the mechanical stability and atomic cohesion of Ta<sub>3</sub>N<sub>5</sub> semiconductor photocatalyst. Physical Chemistry Chemical Physics, 2014, 16, 15375-15380. | 1.3 | 37 |
| 111 | Cathodic shift of onset potential for water oxidation on a Ti<sup>4+</sup>doped Fe<sub>2</sub>O<sub>3</sub>photoanode by suppressing the back reaction. Energy and Environmental Science, 2014, 7, 752-759. | 15.6 | 228 |
| 112 | Photoelectrochemical water oxidation of LaTaON2 under visible-light irradiation. International Journal of Hydrogen Energy, 2014, 39, 7697-7704. | 3.8 | 53 |
| 113 | Effects of oxygen doping on optical band gap and band edge positions of Ta3N5 photocatalyst: A GGA+U calculation. Journal of Catalysis, 2014, 309, 291-299. | 3.1 | 67 |
| 114 | Improvement in photocatalytic H2 evolution over g-C3N4 prepared from protonated melamine. Applied Surface Science, 2014, 295, 253-259. | 3.1 | 119 |
| 115 | Enhanced luminescence intensity of Sr3B2O6:Eu2+ phosphor prepared by solâ€“gel method. Journal of Alloys and Compounds, 2013, 579, 432-437. | 2.8 | 20 |
| 116 | A Coâ€catalystâ€Loaded Ta<sub>3</sub>N<sub>5</sub> Photoanode with a High Solar Photocurrent for Water Splitting upon Facile Removal of the Surface Layer. Angewandte Chemie - International Edition, 2013, 52, 11016-11020. | 7.2 | 208 |
| 117 | Efficient red phosphor double-perovskite Ca3WO6 with A-site substitution of Eu3+. Dalton Transactions, 2013, 42, 13502. | 1.6 | 39 |
| 118 | Theoretical study of water adsorption and dissociation on Ta3N5(100) surfaces. Physical Chemistry Chemical Physics, 2013, 15, 16054. | 1.3 | 28 |
| 119 | A transparent Ti4+ doped hematite photoanode protectively grown by a facile hydrothermal method. CrystEngComm, 2013, 15, 2386. | 1.3 | 42 |
| 120 | Photoelectrochemical cells for solar hydrogen production: current state of promising photoelectrodes, methods to improve their properties, and outlook. Energy and Environmental Science, 2013, 6, 347-370. | 15.6 | 969 |
| 121 | Formation energy and photoelectrochemical properties of BiVO<sub>4</sub>after doping at Bi<sup>3+</sup>or V<sup>5+</sup>sites with higher valence metal ions. Physical Chemistry Chemical Physics, 2013, 15, 1006-1013. | 1.3 | 138 |
| 122 | Tunable orange red phosphors: S<sup>2â^'</sup>-doped high temperature phase Ca<sub>3</sub>SiO<sub>4</sub>Cl<sub>2</sub>:Eu<sup>2+</sup>for solid-state lighting. RSC Advances, 2013, 3, 1965-1969. | 1.7 | 12 |
| 123 | Zinc Gallogermanate Solid Solution: A Novel Photocatalyst for Efficiently Converting CO<sub>2</sub> into Solar Fuels. Advanced Functional Materials, 2013, 23, 1839-1845. | 7.8 | 89 |
| 124 | Highly efficient visible light photocatalytic activity of Crâ€“La codoped SrTiO3 with surface alkalinization: An insight from DFT calculation. Computational Materials Science, 2013, 79, 87-94. | 1.4 | 19 |
| 125 | An efficient charge compensated red phosphor Sr3WO6: K+, Eu3+ â€“ For white LEDs. Journal of Alloys and Compounds, 2013, 553, 221-224. | 2.8 | 50 |
| 126 | Na adsorption on SrTiO3 (0 0 1) surface and its interaction with water: A DFT calculation. Applied Surface Science, 2013, 270, 359-363. | 3.1 | 6 |

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| 127 | Water Adsorption and Decomposition on N/V-Doped Anatase TiO<sub>2</sub> (101) Surfaces. Journal of Physical Chemistry C, 2013, 117, 6172-6184. | 1.5 | 24 |
| 128 | Nearly Monodispersed LiNbO<sub>3</sub> Nanocrystals Synthesized by a Nonaqueous Solâ€“Gel Process and Their Photocatalytic H<sub>2</sub> Evolution Activities. European Journal of Inorganic Chemistry, 2013, 2013, 4142-4145. | 1.0 | 10 |
| 129 | An Ionâ€Exchange Phase Transformation to ZnGa<sub>2</sub>O<sub>4</sub> Nanocube Towards Efficient Solar Fuel Synthesis. Advanced Functional Materials, 2013, 23, 758-763. | 7.8 | 72 |
| 130 | Semiconductors for Photoelectrochemical Hydrogen Generation. , 2013, , 201-232. | | 0 |
| 131 | InnenrÃ¼cktitelbild: A Co-catalyst-Loaded Ta3N5Photoanode with a High Solar Photocurrent for Water Splitting upon Facile Removal of the Surface Layer (Angew. Chem. 42/2013). Angewandte Chemie, 2013, 125, 11381-11381. | 1.6 | 0 |
| 132 | Firstâ€Principles Calculations on Electronic Structures of N/Vâ€Doped and Nâ€Vâ€Dodoped Anatase TiO<sub>2</sub> (101) Surfaces. ChemPhysChem, 2012, 13, 3836-3847. | 1.0 | 21 |
| 133 | Reconstruction of the (001) surface of TiO2 nanosheets induced by the fluorine-surfactant removal process under UV-irradiation for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 4763. | 1.3 | 40 |
| 134 | A facile strategy to passivate surface states on the undoped hematite photoanode for water splitting. Electrochemistry Communications, 2012, 23, 41-43. | 2.3 | 43 |
| 135 | A Theoretical Study of Water Adsorption and Decomposition on the Low-Index Stoichiometric Anatase TiO<sub>2</sub> Surfaces. Journal of Physical Chemistry C, 2012, 116, 7430-7441. | 1.5 | 70 |
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