

# Guo Liejin

## List of Publications by Year in descending order

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189  
papers

17,149  
citations

44444

50  
h-index

16186

128  
g-index

191  
all docs

191  
docs citations

191  
times ranked

19584  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced photo fermentative H <sub>2</sub> production from cornstalk by acid-tolerant <i>R. capsulatus</i> mutation. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 4677-4686.	2.9	1
2	Photocatalytic overall water splitting without noble-metal: Decorating CoP on Al-doped SrTiO <sub>3</sub> . <i>Journal of Colloid and Interface Science</i> , 2022, 606, 491-499.	5.0	27
3	Experimental Study of Gas-Liquid Pressurization Performance and Critical Gas Volume Fractions of a Multiphase Pump. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2022, 144, .	0.8	8
4	A Semiconductor-Mediator-Catalyst Artificial Photosynthetic System for Photoelectrochemical Water Oxidation. <i>Chemistry - A European Journal</i> , 2022, 28, e202102630.	1.7	4
5	An Experimental Investigation of the Effect of Platinum on the Corrosion of Cathode Carbon Support in a PEMFC. <i>ChemSusChem</i> , 2022, 15, .	3.6	5
6	Porous Hierarchical Iron/Nitrogen co-doped Carbon Etched by g-C <sub>3</sub> N <sub>4</sub> Pyrolysis as Efficient Non-noble Metal Catalysts for PEM Fuel Cells. <i>ChemElectroChem</i> , 2022, 9, .	1.7	4
7	Technological innovations on direct carbon mitigation by ordered energy conversion and full resource utilization. , 2022, 1, 1.		18
8	Atomically Dispersed Janus Nickel Sites on Red Phosphorus for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	43
9	Revealing the Nature of C-C Coupling Sites on a Cu Surface for CO <sub>2</sub> Reduction. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4434-4440.	2.1	10
10	Phenyl-incorporated carbon nitride photocatalyst with extended visible-light-absorption for enhanced hydrogen production from water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 494-502.	5.0	10
11	Photo-biological hydrogen production by a temperature-tolerant mutant of <i>Rhodobacter capsulatus</i> isolated by transposon mutagenesis. <i>Bioresource Technology</i> , 2021, 320, 124286.	4.8	29
12	Numerical investigation on the optical properties of TiO <sub>2</sub> photocatalyst suspension by light scattering model of particulate aggregates. <i>Journal of Photonics for Energy</i> , 2021, 11, .	0.8	3
13	NiCo <sub>2</sub> O <sub>4</sub> nanosheets as a novel oxygen-evolution-reaction cocatalyst <i>in situ</i> bonded on the g-C <sub>3</sub> N <sub>4</sub> photocatalyst for excellent overall water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12299-12306.	5.2	92
14	Boron-doped nitrogen-deficient carbon nitride-based Z-scheme heterostructures for photocatalytic overall water splitting. <i>Nature Energy</i> , 2021, 6, 388-397.	19.8	764
15	Experimental Investigation on Supercritical Water Gasification of Organic-Rich Shale with Low Maturity for Syngas Production. <i>Energy &amp; Fuels</i> , 2021, 35, 7657-7665.	2.5	18
16	Numerical simulation of adiabatic/cooled/heated spherical particles with Stefan flow in supercritical water. <i>Physics of Fluids</i> , 2021, 33, .	1.6	9
17	Tandem Electrocatalytic CO <sub>2</sub> Reduction with Efficient Intermediate Conversion over Pyramid-Textured Cu-Ag Catalysts. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 40513-40521.	4.0	23
18	A Review of Experimental Researches on the Thermophysical Properties of Hydrogen-Containing Mixtures at High Temperatures and High Pressures. <i>Journal of Chemical &amp; Engineering Data</i> , 2021, 66, 3361-3385.	1.0	4

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19	Experimental measurements on chemical reaction and thermal conductivity of the H <sub>2</sub> /CO <sub>2</sub> /CO/CH <sub>4</sub> /H <sub>2</sub> O system using the short-hot-wire method at 664–915 K and 9.2–22.2 MPa. International Journal of Heat and Mass Transfer, 2021, 177, 121554.	2.5	4
20	Experimental investigation on gasification of cationic ion exchange resin used in nuclear power plants by supercritical water. Journal of Hazardous Materials, 2021, 419, 126437.	6.5	15
21	Bridging regulation in graphitic carbon nitride for band-structure modulation and directional charge transfer towards efficient H <sub>2</sub> evolution under visible-light irradiation. Journal of Colloid and Interface Science, 2021, 601, 220-228.	5.0	19
22	Structural and Catalytic Properties of Isolated Pt <sup>2+</sup> Sites in Platinum Phosphide (PtP <sub>2</sub> ). ACS Catalysis, 2021, 11, 13496-13509.	5.5	15
23	Room-temperature photodeposition of conformal transition metal based cocatalysts on BiVO <sub>4</sub> for enhanced photoelectrochemical water splitting. Nano Research, 2020, 13, 231-237.	5.8	15
24	Enhanced Oil Recovery and in Situ Upgrading of Heavy Oil by Supercritical Water Injection. Energy & Fuels, 2020, 34, 360-367.	2.5	43
25	<i>i&gt;PVT&lt;/i&gt; Measurements of the H<sub>2</sub>–CO<sub>2</sub>–CH<sub>4</sub>–CO–H<sub>2</sub>O System at 740–939 K and 18.1–34.7 MPa with an Isochoric Apparatus and the Development of a Virial Equation of State. Journal of Chemical &amp; Engineering Data, 2020, 65, 4881-4891.</i>	1.0	4
26	Self-assembly synthesis of monodisperse BiVO <sub>4</sub> nanosphere via a hybrid strategy for photoelectrochemical water splitting. ChemCatChem, 2020, 12, 5269-5275.	1.8	2
27	Vertically aligned ZnO/In <sub>2</sub> S <sub>3</sub> core/shell heterostructures with enhanced photoelectrochemical properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 15773-15784.	1.1	5
28	A review on thermal application of metal foam. Science China Technological Sciences, 2020, 63, 2469-2490.	2.0	38
29	Enhanced Light-Driven Charge Separation and H <sub>2</sub> Generation Efficiency in WSe <sub>2</sub> Nanosheet–Semiconductor Nanocrystal Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 44769-44776.	4.0	13
30	Thermal conductivity measurements of the H <sub>2</sub> /CO <sub>2</sub> mixture using the short-hot-wire method at 323.15–620.05 ÅK and 2.14–9.37 ÅMPa. International Journal of Hydrogen Energy, 2020, 45, 31213-31224.	3.8	8
31	First-Principles Investigation of Î²-FeOOH for Hydrogen Evolution: Identifying Reactive Sites and Boosting Surface Reactions. Chemistry - A European Journal, 2020, 26, 7118-7123.	1.7	6
32	Catalytic supercritical water gasification mechanism of coal. International Journal of Hydrogen Energy, 2020, 45, 9504-9511.	3.8	52
33	On factors limiting the performance of photoelectrochemical CO <sub>2</sub> reduction. Journal of Chemical Physics, 2020, 152, 100901.	1.2	30
34	Attenuated Periodical Oscillation Characteristics in a Nanoscale Particle-Laden Laminar Flow. Industrial & Engineering Chemistry Research, 2020, 59, 8018-8027.	1.8	5
35	Effect of Swirl on Gasification Characteristics in an Entrained-flow Coal Gasifier. International Journal of Chemical Reactor Engineering, 2020, 18, .	0.6	6
36	Viscosity Measurements of the H <sub>2</sub> –CO <sub>2</sub> , H <sub>2</sub> –CO <sub>2</sub> –CH <sub>4</sub> , and H <sub>2</sub> –H <sub>2</sub> O Mixtures and the H <sub>2</sub> –CO <sub>2</sub> –CH <sub>4</sub> –CO–H <sub>2</sub> O System at 280–924 K and 0.7–33.1 MPa with a Capillary Apparatus. Journal of Chemical & Engineering Data, 2020, 65, 3834-3847.	1.0	16

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37	Metal Oxide-Based Tandem Cells for Self-Biased Photoelectrochemical Water Splitting. ACS Energy Letters, 2020, 5, 844-866.	8.8	149
38	Resource utilization of landfill leachate gasification in supercritical water. Chemical Engineering Journal, 2020, 386, 124017.	6.6	31
39	Experimental and Theoretical Study of Interface Characteristics of Gas-Liquid Stratified Flow in Horizontal Pipe at High Pressure. Flow, Turbulence and Combustion, 2020, 105, 1249-1275.	1.4	4
40	Theoretical and experimental advances on heat transfer and flow characteristics of metal foams. Science China Technological Sciences, 2020, 63, 705-718.	2.0	14
41	Effects of Alkaline Metals on the Reactivity of the Carbon Structure after Partial Supercritical Water Gasification of Coal. Energy & Fuels, 2020, 34, 13916-13923.	2.5	7
42	Special Section Guest Editorial: Advanced Materials and Devices for Solar Driven Liquid Fuel and Hydrogen Production. Journal of Photonics for Energy, 2020, 10, 1.	0.8	2
43	Which phase of iron oxyhydroxides (FeOOH) is more competent in overall water splitting as a photocatalyst, goethite, akaganeite or lepidocrocite? A DFT-based investigation. Computational Materials Science, 2019, 169, 109110.	1.4	28
44	Synergy of Dopants and Defects in Graphitic Carbon Nitride with Exceptionally Modulated Band Structures for Efficient Photocatalytic Oxygen Evolution. Advanced Materials, 2019, 31, e1903545.	11.1	604
45	Density Measurements of the H <sub>2</sub> -CO <sub>2</sub> -CH <sub>4</sub> -CO <sub>2</sub> -H <sub>2</sub> O System by the Isochoric Method at 722-930 K and 15.4-30.3 MPa. Journal of Chemical & Engineering Data, 2019, 64, 4024-4036.	1.0	11
46	Theoretical and experimental research on interfacial shear stress and interfacial friction factor of gas-liquid two-phase wavy stratified flow in horizontal pipe. Heat and Mass Transfer, 2019, 55, 2117-2135.	1.2	6
47	Dynamic characteristics of internal current during startups/shutdowns in proton exchange membrane fuel cells. International Journal of Energy Research, 2019, 43, 3768-3778.	2.2	9
48	Density Data of Two (H <sub>2</sub> + CO <sub>2</sub> ) Mixtures and a (H <sub>2</sub> + Tj ETQqO O O rgBT /Overlock 10 Tf 50 307 Pressures up to 25 MPa. Journal of Chemical & Engineering Data, 2019, 64, 1693-1704.	1.0	15
49	Tin(IV)-Tolerant Vapor-Phase Growth and Photophysical Properties of Aligned Cesium Tin Halide Perovskite (CsSnX <sub>3</sub> ; X = Br, I) Nanowires. ACS Energy Letters, 2019, 4, 1045-1052.	8.8	84
50	Obstacles of solar-powered photocatalytic water splitting for hydrogen production: A perspective from energy flow and mass flow. Energy, 2019, 172, 1079-1086.	4.5	99
51	Simply blending Ni nanoparticles with typical photocatalysts for efficient photocatalytic H <sub>2</sub> production. Catalysis Science and Technology, 2019, 9, 7016-7022.	2.1	18
52	On the Theoretical and Experimental Control of Defect Chemistry and Electrical and Photoelectrochemical Properties of Hematite Nanostructures. ACS Applied Materials & Interfaces, 2019, 11, 2031-2041.	4.0	29
53	Experimental study on oil-containing wastewater gasification in supercritical water in a continuous system. International Journal of Hydrogen Energy, 2019, 44, 15871-15881.	3.8	42
54	Hierarchical growth of a novel Mn-Bi coupled BiVO <sub>4</sub> arrays for enhanced photoelectrochemical water splitting. Nano Research, 2019, 12, 575-580.	5.8	21

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55	Controlled Deposition of ZnS Nanoparticles on CuS Nanoplates for Visible-Light-Driven Photocatalytic H <sub>2</sub> Production. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 414-421.	0.9	1
56	Volumetric Convective Heat Transfer Coefficient Model for Metal Foams. <i>Heat Transfer Engineering</i> , 2019, 40, 464-475.	1.2	11
57	Enhanced Photoelectrochemical Water Oxidation on BiVO <sub>4</sub> with Mesoporous Cobalt Nitride Sheets as Oxygen-Evolution Cocatalysts. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2557-2563.	1.0	14
58	Experimental Investigation on Enhanced Oil Recovery of Extra Heavy Oil by Supercritical Water Flooding. <i>Energy &amp; Fuels</i> , 2018, 32, 1685-1692.	2.5	41
59	Kinetics study for sodium transformation in supercritical water gasification of Zhundong coal. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13869-13878.	3.8	39
60	First-Principles Study on Stability and HER Activity of Noble Metal Single Atoms on TiO <sub>2</sub> : The Effect of Loading Density. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2546-2553.	1.5	27
61	DFT study of the enhancement on hydrogen production by alkaline catalyzed water gas shift reaction in supercritical water. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13879-13886.	3.8	36
62	Facile Synthesis of Ultrafine Hematite Nanowire Arrays in Mixed Water/Ethanol/Acetic Acid Solution for Enhanced Charge Transport and Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12594-12602.	4.0	25
63	Numerical Investigation on the Two Phase Flow Behaviors in Supercritical Water Fluidized Bed with Swirling Flow Distributor. <i>Heat Transfer Engineering</i> , 2018, 39, 1593-1604.	1.2	18
64	Facile Selective Growth of Cadmium Sulfide Nanorods on Zinc Oxide Microrods: Intergrowth Effect for Improved Photocatalytic Performance. <i>ChemCatChem</i> , 2018, 10, 153-158.	1.8	21
65	Effect of Water Adsorption on the Interfacial Structure and Band Edge Alignment of Anatase TiO <sub>2</sub> (001)/Water by First-Principles Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26965-26973.	1.5	22
66	Photoelectrochemical Performance Dependence on Geometric Surface Area of Branched ZnO Nanowires. <i>ChemElectroChem</i> , 2018, 5, 3717-3722.	1.7	9
67	Metal-Free Flexible Protonated g-C <sub>3</sub> N <sub>4</sub> /Carbon Dots Photoanode for Photoelectrochemical Water Splitting. <i>ChemElectroChem</i> , 2018, 5, 2734-2737.	1.7	24
68	Making of an Industry-Friendly Artificial Photosynthesis Device. <i>ACS Energy Letters</i> , 2018, 3, 2230-2231.	8.8	48
69	Three-dimensional numerical study on flow dynamics characteristics in supercritical water fluidized bed with consideration of real particle size distribution by computational particle fluid dynamics method. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401877987.	0.8	9
70	Molten Ag <sub>2</sub> SO <sub>4</sub> -based Ion-Exchange Preparation of Ag <sub>0.5</sub> La <sub>0.5</sub> TiO <sub>3</sub> for Photocatalytic O <sub>2</sub> Evolution. <i>Chemistry - an Asian Journal</i> , 2017, 12, 882-889.	1.7	8
71	Transition Metal Oxides as Catalysts for Hydrogen Production from Supercritical Water Gasification of Glucose. <i>Catalysis Letters</i> , 2017, 147, 828-836.	1.4	27
72	High-Efficiency Gasification of Wheat Straw Black Liquor in Supercritical Water at High Temperatures for Hydrogen Production. <i>Energy &amp; Fuels</i> , 2017, 31, 3970-3978.	2.5	86

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73	Control of Charge Carriers Trapping and Relaxation in Hematite by Oxygen Vacancy Charge: <i>Ab Initio</i> Non-adiabatic Molecular Dynamics. <i>Journal of the American Chemical Society</i> , 2017, 139, 6707-6717.	6.6	132
74	Molecular Design of Polymer Heterojunctions for Efficient Solar Hydrogen Conversion. <i>Advanced Materials</i> , 2017, 29, 1606198.	11.1	203
75	Supercritical water synthesis of nano-particle catalyst on TiO <sub>2</sub> and its application in supercritical water gasification of biomass. <i>Journal of Experimental Nanoscience</i> , 2017, 12, 72-82.	1.3	26
76	Vapor-Phase Epitaxial Growth of Aligned Nanowire Networks of Cesium Lead Halide Perovskites (CsPbX <sub>3</sub> , X = Cl, Br, I). <i>Nano Letters</i> , 2017, 17, 460-466.	4.5	255
77	Enhanced biohydrogen production from cornstalk through a two-step fermentation: Dark fermentation and photofermentation. <i>International Journal of Energy Research</i> , 2017, 41, 2491-2501.	2.2	21
78	Single-Crystal Thin Films of Cesium Lead Bromide Perovskite Epitaxially Grown on Metal Oxide Perovskite (SrTiO <sub>3</sub> ). <i>Journal of the American Chemical Society</i> , 2017, 139, 13525-13532.	6.6	209
79	A bifunctional NiCoP-based core/shell cocatalyst to promote separate photocatalytic hydrogen and oxygen generation over graphitic carbon nitride. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19025-19035.	5.2	151
80	Sulfur Transformation Characteristics and Mechanisms during Hydrogen Production by Coal Gasification in Supercritical Water. <i>Energy &amp; Fuels</i> , 2017, 31, 12046-12053.	2.5	35
81	Sand particle lift-off velocity measurements and numerical simulation of mass flux distributions in a wind tunnel. <i>Journal of Arid Land</i> , 2017, 9, 331-344.	0.9	4
82	Branched Tungsten Oxide Nanorod Arrays Synthesized by Controlled Phase Transformation for Solar Water Oxidation. <i>ChemCatChem</i> , 2016, 8, 2119-2127.	1.8	15
83	Surface Reconstruction of Facet-Functionalized SrTiO <sub>3</sub> Nanocrystals for Photocatalytic Hydrogen Evolution. <i>ChemCatChem</i> , 2016, 8, 798-804.	1.8	34
84	Transformation of zincblende nanoparticles into wurtzite microrods by a dissolution-regrowth process: an intergrowth homojunction with enhanced photocatalytic activity. <i>Catalysis Science and Technology</i> , 2016, 6, 3371-3377.	2.1	22
85	Spontaneous photoelectric field-enhancement effect prompts the low cost hierarchical growth of highly ordered heteronanostructures for solar water splitting. <i>Nano Research</i> , 2016, 9, 1561-1569.	5.8	51
86	Comparison of sandwich and fingers-crossing type WO <sub>3</sub> /BiVO <sub>4</sub> multilayer heterojunctions for photoelectrochemical water oxidation. <i>RSC Advances</i> , 2016, 6, 27557-27565.	1.7	34
87	Fe <sub>2</sub> O <sub>3</sub> quantum dots: low-cost synthesis and photocatalytic oxygen evolution capabilities. <i>RSC Advances</i> , 2016, 6, 41060-41066.	1.7	33
88	Enhanced photocatalytic activity over a novel CuWO <sub>4</sub> /Cu <sup>1-x</sup> Zn <sup>x</sup> WO <sub>4</sub> /ZnWO <sub>4</sub> hybrid material with sandwiched heterojunction. <i>Journal of Materials Research</i> , 2016, 31, 1616-1621.		7
89	PbO-sensitized ZnO nanorod arrays for enhanced visible-light-driven photoelectrochemical performance. <i>Journal of Materials Research</i> , 2016, 31, 1622-1630.	1.2	11
90	Gasification of indole in supercritical water: Nitrogen transformation mechanisms and kinetics. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15985-15997.	3.8	65

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91	Co <sub>3</sub> (OH) <sub>2</sub> (HPO <sub>4</sub> ) <sub>2</sub> as a novel photocatalyst for O <sub>2</sub> evolution under visible-light irradiation. <i>Catalysis Science and Technology</i> , 2016, 6, 8080-8088.	2.1	27
92	Enhanced Bulk and Interfacial Charge Transfer Dynamics for Efficient Photoelectrochemical Water Splitting: The Case of Hematite Nanorod Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 23143-23150.	4.0	41
93	Facile polyol synthesis of CuS nanocrystals with a hierarchical nanoplate structure and their application for electrocatalysis and photocatalysis. <i>RSC Advances</i> , 2016, 6, 80361-80367.	1.7	25
94	Supercritical water gasification of glycerol and glucose in different reactors: The effect of metal wall. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 16002-16008.	3.8	34
95	Controlled Aqueous Growth of Hematite Nanoplate Arrays Directly on Transparent Conductive Substrates and Their Photoelectrochemical Properties. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2328-2334.	1.7	11
96	Photocatalytic hydrogen production using twinned nanocrystals and an unanchored NiS <sub>x</sub> co-catalyst. <i>Nature Energy</i> , 2016, 1, .	19.8	313
97	On the role of metal atom doping in hematite for improved photoelectrochemical properties: a comparison study. <i>RSC Advances</i> , 2016, 6, 101745-101751.	1.7	45
98	Morphology engineering of WO <sub>3</sub> /BiVO <sub>4</sub> heterojunctions for efficient photocatalytic water oxidation. <i>CrystEngComm</i> , 2016, 18, 8961-8970.	1.3	42
99	Enhanced photoelectrochemical water oxidation of bismuth vanadate via a combined strategy of W doping and surface RGO modification. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31803-31810.	1.3	35
100	Understanding divergent behaviors in the photocatalytic hydrogen evolution reaction on CdS and ZnS: a DFT based study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16862-16869.	1.3	36
101	Facile Fabrication of Sandwich Structured WO <sub>3</sub> Nanoplate Arrays for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18089-18096.	4.0	142
102	Intergrowth of Cocatalysts with Host Photocatalysts for Improved Solar-to-Hydrogen Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 1264-1272.	4.0	65
103	Hierarchical architecture of WO <sub>3</sub> nanosheets by self-assembly of nanorods for photoelectrochemical applications. <i>CrystEngComm</i> , 2016, 18, 665-669.	1.3	16
104	N Doping to ZnO Nanorods for Photoelectrochemical Water Splitting under Visible Light: Engineered Impurity Distribution and Terraced Band Structure. <i>Scientific Reports</i> , 2015, 5, 12925.	1.6	176
105	Eosin Y-sensitized nanosheet-stacked hollow-sphere TiO <sub>2</sub> for efficient photocatalytic H <sub>2</sub> production under visible-light irradiation. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	8
106	High aspect ratio TiO <sub>2</sub> nanowires tailored in concentrated HCl hydrothermal condition for photoelectrochemical water splitting. <i>RSC Advances</i> , 2015, 5, 53012-53018.	1.7	27
107	Industrialization prospects for hydrogen production by coal gasification in supercritical water and novel thermodynamic cycle power generation system with no pollution emission. <i>Science China Technological Sciences</i> , 2015, 58, 1989-2002.	2.0	88
108	Understanding Hematite Doping with Group IV Elements: A DFT+U Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26303-26310.	1.5	66

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109	Study on gasification kinetics of hydrogen production from lignite in supercritical water. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7523-7529.	3.8	86
110	Rapid Preparation of Perovskite Lead Niobate Nanosheets by Ultrasonic-Assisted Exfoliation for Enhanced Visible-Light-Driven Photocatalytic Hydrogen Production. <i>ChemCatChem</i> , 2015, 7, 584-587.	1.8	27
111	Noble-metal-free Cu <sub>2</sub> S-modified photocatalysts for enhanced photocatalytic hydrogen production by forming nanoscale p-n junction structure. <i>RSC Advances</i> , 2015, 5, 18159-18166.	1.7	67
112	Photocatalytic hydrogen production over CdS: effects of reaction atmosphere studied by in situ Raman spectroscopy. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5701-5707.	5.2	51
113	Experimental study on Zhundong coal gasification in supercritical water with a quartz reactor: Reaction kinetics and pathway. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7424-7432.	3.8	73
114	Experimental Investigation on Hydrogen Production by Anthracene Gasification in Supercritical Water. <i>Energy &amp; Fuels</i> , 2015, 29, 6342-6346.	2.5	35
115	Bifunctional Modification of Graphitic Carbon Nitride with MgFe <sub>2</sub> O <sub>4</sub> for Enhanced Photocatalytic Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 18843-18848.	4.0	64
116	Toward Facet Engineering of CdS Nanocrystals and Their Shape-Dependent Photocatalytic Activities. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20555-20560.	1.5	78
117	A dispersed rutile-TiO <sub>2</sub> -supported Ni nanoparticle for enhanced gas production from catalytic hydrothermal gasification of glucose. <i>RSC Advances</i> , 2015, 5, 81905-81914.	1.7	18
118	Experimental Investigation on the Gasification Kinetic Model of a Char Particle in Supercritical Water. <i>Energy &amp; Fuels</i> , 2015, 29, 8053-8057.	2.5	33
119	Supercritical water gasification research and development in China. <i>Journal of Supercritical Fluids</i> , 2015, 96, 144-150.	1.6	179
120	Nitrogen-doped CeO <sub>x</sub> nanoparticles modified graphitic carbon nitride for enhanced photocatalytic hydrogen production. <i>Green Chemistry</i> , 2015, 17, 509-517.	4.6	115
121	Functionalized nanostructures for enhanced photocatalytic performance under solar light. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 994-1004.	1.5	22
122	Hydrogen Production by Supercritical Water Gasification of Biomass with Homogeneous and Heterogeneous Catalyst. <i>Advances in Condensed Matter Physics</i> , 2014, 2014, 1-9.	0.4	37
123	The Optimization of Matrix Preparation Process and Performance Testing for Molten Carbonate Fuel Cell. <i>Journal of Chemistry</i> , 2014, 2014, 1-7.	0.9	6
124	Enhanced photodynamic therapy of mixed phase TiO <sub>2</sub> (B)/anatase nanofibers for killing of HeLa cells. <i>Nano Research</i> , 2014, 7, 1659-1669.	5.8	65
125	Hydrogen Production by Catalytic Gasification of Coal in Supercritical Water. <i>Energy &amp; Fuels</i> , 2014, 28, 6911-6917.	2.5	79
126	Modeling of cavern formation in yield stress fluids in stirred tanks. <i>AIChE Journal</i> , 2014, 60, 3057-3070.	1.8	16



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127	Configuration dependence of the properties of Cd <sub>x</sub> Z <sub>1-x</sub> S solid solutions by first-principles calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 655-660.	0.7	5
128	Structure defects in g-C <sub>3</sub> N <sub>4</sub> limit visible light driven hydrogen evolution and photovoltage. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20338-20344.	5.2	233
129	Activating ZnO nanorod photoanodes in visible light by Cu ion implantation. <i>Nano Research</i> , 2014, 7, 353-364.	5.8	80
130	Surface passivation of undoped hematite nanorod arrays via aqueous solution growth for improved photoelectrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , 2014, 427, 20-24.	5.0	27
131	Co <sub>3</sub> O <sub>4</sub> quantum dots: reverse micelle synthesis and visible-light-driven photocatalytic overall water splitting. <i>Chemical Communications</i> , 2014, 50, 2002.	2.2	89
132	Heterojunctions in g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> (B) nanofibres with exposed (001) plane and enhanced visible-light photoactivity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2071-2078.	5.2	241
133	Redesign of a Water Heating System Using Evacuated Tube Solar Collectors: TRNSYS Simulation and Techno-Economic Evaluation. <i>Heat Transfer Engineering</i> , 2014, 35, 556-566.	1.2	12
134	Synthesis and characterization of nanoporous Bi <sub>3</sub> NbO <sub>7</sub> films: application to photoelectrochemical water splitting. <i>RSC Advances</i> , 2014, 4, 10542-10548.	1.7	11
135	Hydrogen production by catalytic gasification of coal in supercritical water with alkaline catalysts: Explore the way to complete gasification of coal. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19583-19592.	3.8	92
136	Au@SiO <sub>2</sub> core/shell nanoparticle-decorated TiO <sub>2</sub> nanorod arrays for enhanced photoelectrochemical water splitting. <i>Science Bulletin</i> , 2014, 59, 2191-2198.	1.7	12
137	Spatial engineering of photo-active sites on g-C <sub>3</sub> N <sub>4</sub> for efficient solar hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4605.	5.2	115
138	<i>In Situ</i> Photochemical Synthesis of Zn-Doped Cu <sub>2</sub> O Hollow Microcubes for High Efficient Photocatalytic H <sub>2</sub> Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1446-1452.	3.2	78
139	Plasmonic Ag@SiO <sub>2</sub> core/shell structure modified g-C <sub>3</sub> N <sub>4</sub> with enhanced visible light photocatalytic activity. <i>Journal of Materials Research</i> , 2014, 29, 64-70.	1.2	38
140	Experimental and Numerical Modeling Studies on Production of Mg by Vacuum Silicothermic Reduction of CaO·MgO. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 236-250.	1.0	22
141	Surface Engineered Doping of Hematite Nanorod Arrays for Improved Photoelectrochemical Water Splitting. <i>Scientific Reports</i> , 2014, 4, 6627.	1.6	160
142	Photocatalytic Hydrogen Production from Refinery Gas over a Fluidized-Bed Reactor I: Numerical Simulation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 1982-1991.	1.8	17
143	Hydrogen production by non-catalytic partial oxidation of coal in supercritical water: Explore the way to complete gasification of lignite and bituminous coal. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12786-12794.	3.8	108
144	Metal sulphide semiconductors for photocatalytic hydrogen production. <i>Catalysis Science and Technology</i> , 2013, 3, 1672.	2.1	477

#	ARTICLE	IF	CITATIONS
145	Boiling coal in water: Hydrogen production and power generation system with zero net CO <sub>2</sub> emission based on coal and supercritical water gasification. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12953-12967.	3.8	215
146	Severe slugging in a flexible S-shaped riser system: Experimental studies and transient simulation. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	1
147	Modeling the evolution of aeolian sand transport in a wind tunnel. , 2013, , .		2
148	Gas-liquid two-phase severe slugging in a pipeline-riser system with S-shaped flexible riser: Experiments and modeling. , 2013, , .		1
149	Economic analysis of solar chimney power plants in Northwest China. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 021406.	0.8	22
150	Physical and photoelectrochemical characterization of Ti-doped hematite photoanodes prepared by solution growth. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14498.	5.2	83
151	Concentrating PV/T Hybrid System for Simultaneous Electricity and Usable Heat Generation: A Review. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-8.	1.4	27
152	Highly efficient visible-light-driven photocatalytic hydrogen production from water using Cd <sub>0.5</sub> Zn <sub>0.5</sub> S/TNTs (titanate nanotubes) nanocomposites without noble metals. <i>Journal of Materials Chemistry</i> , 2012, 22, 7507.	6.7	96
153	A novel Sn <sub>2</sub> Sb <sub>2</sub> O <sub>7</sub> nanophotocatalyst for visible-light-driven H <sub>2</sub> evolution. <i>Nano Research</i> , 2012, 5, 576-583.	5.8	22
154	A multichannel system for rapid determination of the activity for photocatalytic H <sub>2</sub> production. <i>AICHE Journal</i> , 2012, 58, 3593-3596.	1.8	7
155	Surface tuning for promoted charge transfer in hematite nanorod arrays as water-splitting photoanodes. <i>Nano Research</i> , 2012, 5, 327-336.	5.8	80
156	Hydrogen production from glycerol by supercritical water gasification in a continuous flow tubular reactor. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 5559-5568.	3.8	145
157	Twins in Cd <sup>1-x</sup> Zn <sub>x</sub> S solid solution: Highly efficient photocatalyst for hydrogen generation from water. <i>Energy and Environmental Science</i> , 2011, 4, 1372.	15.6	332
158	Eosin Y-sensitized ZnO/TiO <sub>2</sub> for efficient visible light photocatalytic hydrogen evolution. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1326, 1.	0.1	0
159	Nanoparticles enwrapped with nanotubes: A unique architecture of CdS/titanate nanotubes for efficient photocatalytic hydrogen production from water. <i>Journal of Materials Chemistry</i> , 2011, 21, 5134.	6.7	108
160	ENHANCING PHOTOCURRENT IN UNANNEALED NiS <sub>x</sub> /CdS PHOTOELECTROCHEMICAL SYSTEM FOR WATER SPLITTING AND HYDROGEN PRODUCTION. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1326, 1.	0.1	1
161	Surface Modification of Fe <sup>1±</sup> -Fe <sub>2</sub> O <sub>3</sub> Nanorod Array Photoanodes for Improved Light-Induced Water Splitting. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1326, 1.	0.1	1
162	Improved Photocatalytic H <sub>2</sub> Evolution from Inorganic/Organic Sacrificial Solution over Ni-Doped (CuIn) <sub>0.2</sub> Zn <sub>1.6</sub> S <sub>2</sub> Photocatalysts. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1326, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
163	Photocatalytic reforming of formic acid with simultaneous hydrogen production under visible light over CdS sensitized Na <sub>2</sub> TiO <sub>4</sub> (OH) <sub>2</sub> . Materials Research Society Symposia Proceedings, 2011, 1326, 1.	0.1	0
164	Convective heat transfer in helical coils for constant-property and variable-property flows with high Reynolds numbers. Frontiers of Energy and Power Engineering in China, 2010, 4, 546-552.	0.4	19
165	Enhanced Hydrogen Production from Water over Ni Doped ZnIn <sub>2</sub> S <sub>4</sub> Microsphere Photocatalysts. Catalysis Letters, 2010, 140, 167-171.	1.4	50
166	Investigation of turbulent mixing layer flow in a vertical water channel by particle image velocimetry (PIV). Canadian Journal of Chemical Engineering, 2010, 88, 919-928.	0.9	3
167	Hydrogen production by coal gasification in supercritical water with a fluidized bed reactor. International Journal of Hydrogen Energy, 2010, 35, 7151-7160.	3.8	187
168	Investigation of Turbulent-Mixing-Layer Flow with Polymer Additives and Bubble Injection by Particle Image Velocimetry. Journal of Chemical Engineering of Japan, 2010, 43, 730-736.	0.3	0
169	Hydrogen Production by CMC Gasification in Supercritical Water. , 2010, , .		1
170	Semiconductor-based Photocatalytic Hydrogen Generation. Chemical Reviews, 2010, 110, 6503-6570.	23.0	6,836
171	Effect of Noble Metal in CdS/M/TiO <sub>2</sub> for Photocatalytic Degradation of Methylene Blue under Visible Light. International Journal of Green Nanotechnology: Materials Science and Engineering, 2010, 1, M94-M104.	0.5	32
172	The dust emission law in the wind erosion process on soil surface. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 258-269.	0.2	1
173	Hydrogen production by biomass gasification in supercritical or subcritical water with Raney-Ni and other catalysts. Frontiers of Energy and Power Engineering in China, 2009, 3, 456-464.	0.4	11
174	Online recognition of the multiphase flow regime. Science in China Series D: Earth Sciences, 2008, 51, 1186-1194.	0.9	14
175	Experimental investigation of particle velocity distributions in windblown sand movement. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 986-1000.	0.2	11
176	Hydrogen production by catalytic gasification of cellulose in supercritical water. Frontiers of Chemical Engineering in China, 2008, 2, 176-180.	0.6	10
177	Enhanced Photocatalytic Hydrogen Evolution over Cu-Doped ZnIn <sub>2</sub> S <sub>4</sub> under Visible Light Irradiation. Journal of Physical Chemistry C, 2008, 112, 16148-16155.	1.5	286
178	Efficient Hydrogen Production by a Composite CdS/Mesoporous Zirconium Titanium Phosphate Photocatalyst under Visible Light. Journal of Physical Chemistry C, 2007, 111, 13437-13441.	1.5	77
179	Shape of isolated bubble in intermittent flows in a horizontal pipe. Heat Transfer - Asian Research, 2007, 36, 276-285.	2.8	3
180	Hydrogen production from co-gasification of coal and biomass in supercritical water by continuous flow thermal-catalytic reaction system. Frontiers of Energy and Power Engineering in China, 2007, 1, 327-330.	0.4	4

#	ARTICLE	IF	CITATIONS
181	Simulation of horizontal slug-flow pneumatic conveying with kinetic theory. <i>Frontiers of Energy and Power Engineering in China</i> , 2007, 1, 336-340.	0.4	2
182	Experimental research on catalysts and their catalytic mechanism for hydrogen production by gasification of peanut shell in supercritical water. <i>Frontiers of Energy and Power Engineering in China</i> , 2007, 1, 451-456.	0.4	9
183	Mixed convective heat transfer of water in a pipe under supercritical pressure. <i>Heat Transfer - Asian Research</i> , 2005, 34, 608-619.	2.8	4
184	A mathematical model and numerical simulation of pressure wave in horizontal gas-liquid bubbly flow*. <i>Progress in Natural Science: Materials International</i> , 2004, 14, 344-349.	1.8	13
185	Simulation of flow across complicated domain between tube bundles by the discrete vortex method*. <i>Progress in Natural Science: Materials International</i> , 2003, 13, 213-218.	1.8	0
186	Numerical investigation of developing turbulent flow in a helical square duct with large curvature. <i>Journal of Thermal Science</i> , 2001, 10, 1-6.	0.9	3
187	Turbulent heat transfer in a horizontal helically coiled tube. <i>Heat Transfer - Asian Research</i> , 1999, 28, 395-403.	2.8	46
188	The behavior and characteristics of the interfacial waves in gas-liquid two-phase separated flow through downward inclined rectangular channel. <i>Journal of Thermal Science</i> , 1998, 7, 29-36.	0.9	2
189	Atomically Dispersed Janus Nickel Sites on Red Phosphorus for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie</i> , 0, , .	1.6	2