Peng Li

List of Publications by Year
in descending order

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107	10,484	24978 57	31759 101
papers	citations	h-index	g-index

112	112	112	12575
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Regulating the surface state of ZnIn₂S₄ by gamma-ray irradiation for enhanced photocatalytic hydrogen evolution. Catalysis Science and Technology, 2022, 12, 927-934.	2.1	9
2	A hierarchically three-dimensional CoNi/N-doped porous carbon nanosheets with high performance of electromagnetic wave absorption. Carbon, 2022, 188, 503-512.	5.4	57
3	Fabrication of a Covalent Triazine Framework Functional Interlayer for High-Performance Lithiumâ€“Sulfur Batteries. Nanomaterials, 2022, 12, 255.	1.9	7
4	A quasi-3D Sb₂S₃/reduced graphene oxide/MXene (Ti₃C₂T_x) hybrid for high-rate and durable sodium-ion batteries. Nanoscale, 2022, 14, 5529-5536.	2.8	6
5	A highly efficient and free-standing copper single atoms anchored nitrogen-doped carbon nanofiberÂcathode toward reliable Liâ€“CO2 batteries. Materials Today Energy, 2022, 25, 100967.	2.5	15
6	Layer structured materials for ambient nitrogen fixation. Coordination Chemistry Reviews, 2022, 460, 214468.	9.5	28
7	Revealing the illumination effect on the discharge products in highâ€performance Liâ€“O₂ batteries with heterostructured photocatalysts. , 2022, 4, 1169-1181.		16
8	Cu-Loaded NaNbO₃ Three-Dimensional Networks for CO₂ Photoreduction to C₂ Species. Energy & Fuels, 2022, 36, 11654-11659.	2.5	2
9	Selfâ€Assembled Urchinâ€Like CuWO 4 /WO 3 Heterojunction Nanoarrays as Photoanodes for Photoelectrochemical Water Splitting. ChemElectroChem, 2021, 8, 125-134.	1.7	19
10	Sulfur-Doped Flowerlike Porous Carbon Derived from Metalâ€“Organic Frameworks as a High-Performance Potassium-Ion Battery Anode. ACS Applied Energy Materials, 2021, 4, 2282-2291.	2.5	28
11	Hierarchical Ti₃C₂T_x MXene/Carbon Nanotubes for Low Overpotential and Long-Life Li-CO₂ Batteries. ACS Nano, 2021, 15, 8407-8417.	7.3	54
12	A universal strategy towards highâ€“energy aqueous multivalentâ€“ion batteries. Nature Communications, 2021, 12, 2857.	5.8	126
13	Insights into the critical dual-effect of acid treatment on ZnxCd1-xS for enhanced photocatalytic production of syngas under visible light. Applied Catalysis B: Environmental, 2021, 288, 119976.	10.8	41
14	Fast Lithium Ionic Conductivity in Complex Hydrideâ€Sulfide Electrolytes by Double Anions Substitution. Small Methods, 2021, 5, e2100609.	4.6	14
15	Nanoconfined SnO2/SnSe2 heterostructures in N-doped carbon nanotubes for high-performance sodium-ion batteries. Chemical Engineering Journal, 2021, 418, 129501.	6.6	48
16	Serosa-Mimetic Nanoarchitecture Membranes for Highly Efficient Osmotic Energy Generation. Journal of the American Chemical Society, 2021, 143, 16206-16216.	6.6	70
17	Constructing Atomic Heterometallic Sites in Ultrathin Nickel-Incorporated Cobalt Phosphide Nanosheets via a Boron-Assisted Strategy for Highly Efficient Water Splitting. Nano Letters, 2021, 21, 823-832.	4.5	91
18	Interfacial electronic coupling of ultrathin transition-metal hydroxide nanosheets with layered MXenes as a new prototype for platinum-like hydrogen evolution. Energy and Environmental Science, 2021, 14, 6419-6427.	15.6	154

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19	Wafer-scale Si nanoconed arrays induced syngas in the photoelectrochemical CO2 reduction. Catalysis Today, 2020, 339, 321-327.	2.2	15
20	Electrocatalytic reduction of N₂ and nitrogen-incorporation process on dopant-free defect graphene. Journal of Materials Chemistry A, 2020, 8, 55-61.	5.2	27
21	MXeneâ€Based Dendriteâ€Free Potassium Metal Batteries. Advanced Materials, 2020, 32, e1906739.	11.1	244
22	Designing composite solid-state electrolytes for high performance lithium ion or lithium metal batteries. Chemical Science, 2020, 11, 8686-8707.	3.7	82
23	Polyolefinâ€Based Janus Separator for Rechargeable Sodium Batteries. Angewandte Chemie, 2020, 132, 16868-16877.	1.6	5
24	Polyolefinâ€Based Janus Separator for Rechargeable Sodium Batteries. Angewandte Chemie - International Edition, 2020, 59, 16725-16734.	7.2	102
25	Promoting hole transfer for photoelectrochemical water oxidation through a manganese cluster catalyst bioinspired by natural photosystem II. Chemical Communications, 2020, 56, 4244-4247.	2.2	9
26	Two Birds with One Stone: FeS₂@C Yolkâ€“Shell Composite for High-Performance Sodium-Ion Energy Storage and Electromagnetic Wave Absorption. Nano Letters, 2020, 20, 3769-3777.	4.5	123
27	Highly disordered cobalt oxide nanostructure induced by sulfur incorporation for efficient overall water splitting. Nano Energy, 2020, 71, 104652.	8.2	105
28	Self-Healing Janus Interfaces for High-Performance LAGP-Based Lithium Metal Batteries. ACS Energy Letters, 2020, 5, 1456-1464.	8.8	104
29	Bimetallic Sulfide/Sulfur Doped T3C2Tx MXene Nanocomposites as High-performance Anode Materials for Sodium-ion Batteries. Chemical Research in Chinese Universities, 2020, 36, 431-438.	1.3	26
30	Boosting the Reversibility of Sodium Metal Anode via Heteroatomâ€Doped Hollow Carbon Fibers. Small, 2019, 15, e1902688.	5.2	76
31	Constructing Sn(<scp>ii</scp>)-doped SrNb₂O₆ for visible light response driven H₂ and O₂ evolution from water. Catalysis Science and Technology, 2019, 9, 3619-3622.	2.1	4
32	Enhanced water oxidation reaction kinetics on a BiVO₄ photoanode by surface modification with Ni₄O₄ cubane. Journal of Materials Chemistry A, 2019, 7, 278-288.	5.2	51
33	Two-dimensional Sb@TiO2â^'x nanoplates as a high-performance anode material for sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 2553-2559.	5.2	42
34	High-performance lithiumâ€“organic batteries by achieving 16 lithium storage in poly(imine-anthraquinone). Journal of Materials Chemistry A, 2019, 7, 2368-2375.	5.2	96
35	High-Performance Quasi-Solid-State MXene-Based Liâ€“I Batteries. ACS Central Science, 2019, 5, 365-373.	5.3	78
36	Cation Vacancy-Initiated CO₂ Photoreduction over ZnS for Efficient Formate Production. ACS Energy Letters, 2019, 4, 1387-1393.	8.8	102

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37	Stable Conversion Chemistryâ€Based Lithium Metal Batteries Enabled by Hierarchical Multifunctional Polymer Electrolytes with Nearâ€Single Ion Conduction. Angewandte Chemie - International Edition, 2019, 58, 6001-6006.	7.2	167
38	Stable Conversion Chemistryâ€Based Lithium Metal Batteries Enabled by Hierarchical Multifunctional Polymer Electrolytes with Nearâ€Single Ion Conduction. Angewandte Chemie, 2019, 131, 6062-6067.	1.6	30
39	Porous Na3V2(PO4)3/C nanoplates for high-performance sodium storage. Journal of Colloid and Interface Science, 2019, 539, 168-174.	5.0	55
40	Dendriteâ€Free Sodiumâ€Metal Anodes for Highâ€Energy Sodiumâ€Metal Batteries. Advanced Materials, 2018, 30, e1801334.	11.1	267
41	Enhanced Visible-Light-Driven Hydrogen Production of Carbon Nitride by Band Structure Tuning. Journal of Physical Chemistry C, 2018, 122, 17261-17267.	1.5	23
42	Selective Deposition of Ag₃PO₄ on Specific Facet of BiVO₄ Nanoplate for Enhanced Photoelectrochemical Performance. Solar Rrl, 2018, 2, 1800102.	3.1	44
43	Co-porphyrin/carbon nitride hybrids for improved photocatalytic CO2 reduction under visible light. Applied Catalysis B: Environmental, 2017, 200, 141-149.	10.8	198
44	Efficient photocatalytic CO 2 reduction in all-inorganic aqueous environment: Cooperation between reaction medium and Cd(II) modified colloidal ZnS. Nano Energy, 2017, 34, 524-532.	8.2	74
45	Series of ZnSn(OH)₆ Polyhedra: Enhanced CO₂ Dissociation Activation and Crystal Facet-Based Homojunction Boosting Solar Fuel Synthesis. Inorganic Chemistry, 2017, 56, 5704-5709.	1.9	27
46	Light assisted CO₂reduction with methane over SiO₂encapsulated Ni nanocatalysts for boosted activity and stability. Journal of Materials Chemistry A, 2017, 5, 10567-10573.	5.2	71
47	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. Angewandte Chemie, 2017, 129, 5662-5666.	1.6	17
48	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. Angewandte Chemie - International Edition, 2017, 56, 5570-5574.	7.2	104
49	Three-Dimensional Lupinus-like TiO₂ Nanorod@Sn₃O₄ Nanosheet Hierarchical Heterostructured Arrays as Photoanode for Enhanced Photoelectrochemical Performance. ACS Applied Materials & Interfaces, 2017, 9, 38537-38544.	4.0	59
50	Hematite homojunctions without foreign element doping for efficient and stable overall water splitting. RSC Advances, 2016, 6, 62263-62269.	1.7	14
51	Enhanced Photocatalytic Oxidation of Isopropanol by HKUST-1@TiO₂ Coreâ€“Shell Structure with Ultrathin Anatase Porous Shell: Toxic Intermediate Control. Industrial & Engineering Chemistry Research, 2016, 55, 8096-8103.	1.8	61
52	Promoting Active Species Generation by Plasmon-Induced Hot-Electron Excitation for Efficient Electrocatalytic Oxygen Evolution. Journal of the American Chemical Society, 2016, 138, 9128-9136.	6.6	341
53	Photocatalytic reduction of CO₂over Ag/TiO₂nanocomposites prepared with a simple and rapid silver mirror method. Nanoscale, 2016, 8, 11870-11874.	2.8	139
54	Biomimetic polymeric semiconductor based hybrid nanosystems for artificial photosynthesis towards solar fuels generation via CO2 reduction. Nano Energy, 2016, 25, 128-135.	8.2	97

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55	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct pâ€“n Homojunctions for Enhanced Photocatalytic Hydrogen Production. Advanced Functional Materials, 2016, 26, 6822-6829.	7.8	583
56	n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. Nano Energy, 2016, 28, 158-163.	8.2	94
57	Engineering the Edges of MoS₂ (WS₂) Crystals for Direct Exfoliation into Monolayers in Polar Micromolecular Solvents. Journal of the American Chemical Society, 2016, 138, 14962-14969.	6.6	189
58	Design of a photoelectrochemical device for the selective conversion of aqueous CO2to CO: using mesoporous palladiumâ€“copper bimetallic cathode and hierarchical ZnO-based nanowire array photoanode. Chemical Communications, 2016, 52, 8235-8238.	2.2	32
59	In situ synthesis of N-doped carbon nanotubesâ€“BiOCl nanocomposites and their synergistic photocatalytic performance. RSC Advances, 2016, 6, 2926-2934.	1.7	21
60	Room-temperature driven and visible light enhanced dehydrogenation reactions catalysed by basic Au/SrTiO₃. Journal of Materials Chemistry A, 2016, 4, 1941-1946.	5.2	17
61	Bonding and Electron Energy-Level Alignment at Metal/TiO₂ Interfaces: A Density Functional Theory Study. Journal of Physical Chemistry C, 2016, 120, 5549-5556.	1.5	45
62	Mesoporous palladiumâ€“copper bimetallic electrodes for selective electrocatalytic reduction of aqueous CO₂to CO. Journal of Materials Chemistry A, 2016, 4, 4776-4782.	5.2	115
63	Effects of cation concentration on photocatalytic performance over magnesium vanadates. APL Materials, 2015, 3, 104405.	2.2	11
64	Conversion of Carbon Dioxide by Methane Reforming under Visibleâ€Light Irradiation: Surfaceâ€Plasmonâ€Mediated Nonpolar Molecule Activation. Angewandte Chemie - International Edition, 2015, 54, 11545-11549.	7.2	168
65	Natureâ€Inspired Environmental â€œPhosphorylationâ€•Boosts Photocatalytic H₂ Production over Carbon Nitride Nanosheets under Visibleâ€Light Irradiation. Angewandte Chemie - International Edition, 2015, 54, 13561-13565.	7.2	287
66	Synthesis, Characterization, and Photocatalytic Activity of g-C₃N₄/KTaO₃Composites under Visible Light Irradiation. Journal of Nanomaterials, 2015, 2015, 1-7.	1.5	17
67	Synthesis and photocatalytic properties of metastable Î²-Bi₂O₃stabilized by surface-coordination effects. Journal of Materials Chemistry A, 2015, 3, 5119-5125.	5.2	149
68	Hierarchical nanowire arrays based on carbon nanotubes and Co₃O₄ decorated ZnO for enhanced photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2015, 3, 13731-13737.	5.2	54
69	Exceptional enhancement of H2 production in alkaline environment over plasmonic Au/TiO2 photocatalyst under visible light. APL Materials, 2015, 3, .	2.2	16
70	In situ synthesis of ordered mesoporous Co-doped TiO₂ and its enhanced photocatalytic activity and selectivity for the reduction of CO₂. Journal of Materials Chemistry A, 2015, 3, 9491-9501.	5.2	155
71	Constructing a multicomponent junction for improved visible-light photocatalytic performance induced by Au nanoparticles. Chemical Communications, 2015, 51, 2173-2176.	2.2	15
72	A highly durable p-LaFeO₃/n-Fe₂O₃ photocell for effective water splitting under visible light. Chemical Communications, 2015, 51, 3630-3633.	2.2	83

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73	Drastic Layerâ€Numberâ€Dependent Activity Enhancement in Photocatalytic H₂ Evolution over nMoS₂/CdS (n â‰¥ 1) Under Visible Light. Advanced Energy Materials, 2015, 5, 1402279.	10.2	239
74	Modulation of sulfur partial pressure in sulfurization to significantly improve the photoelectrochemical performance over the Cu₂ZnSnS₄ photocathode. Chemical Communications, 2015, 51, 14057-14059.	2.2	21
75	Hollow spheres consisting of Ti_{0.91}O₂/CdS nanohybrids for CO₂ photofixation. Chemical Communications, 2015, 51, 13354-13357.	2.2	71
76	Novel visible-light sensitive vanadate photocatalysts for water oxidation: implications from density functional theory calculations. Journal of Materials Chemistry A, 2015, 3, 10720-10723.	5.2	27
77	Hematite Films Decorated with Nanostructured Ferric Oxyhydroxide as Photoanodes for Efficient and Stable Photoelectrochemical Water Splitting. Advanced Functional Materials, 2015, 25, 2686-2692.	7.8	223
78	Highly efficient and stable photocatalytic reduction of CO₂ to CH₄ over Ru loaded NaTaO₃. Chemical Communications, 2015, 51, 7645-7648.	2.2	81
79	In situ construction of Î±-Bi₂O₃/g-C₃N₄/Î²-Bi₂O₃ composites and their highly efficient photocatalytic performances. RSC Advances, 2015, 5, 92963-92969.	3.7	45
80	Photocatalytic Reduction of Carbon Dioxide by Hydrous Hydrazine over Auâ€“Cu Alloy Nanoparticles Supported on SrTiO₃/TiO₂ Coaxial Nanotube Arrays. Angewandte Chemie - International Edition, 2015, 54, 841-845.	7.2	223
81	Artificial photosynthesis on tree trunk derived alkaline tantalates with hierarchical anatomy: towards CO₂ photo-fixation into CO and CH₄. Nanoscale, 2015, 7, 113-120.	2.8	59
82	Bifunctional-Nanotemplate Assisted Synthesis of Nanoporous SrTiO₃ Photocatalysts Toward Efficient Degradation of Organic Pollutant. ACS Applied Materials & Interfaces, 2014, 6, 22726-22732.	4.0	50
83	Photothermal Conversion of CO₂ into CH₄ with H₂ over Groupâ€…VIII Nanocatalysts: An Alternative Approach for Solar Fuel Production. Angewandte Chemie - International Edition, 2014, 53, 11478-11482.	7.2	385
84	Nanorod-like Î±-Bi₂O₃: a highly active photocatalyst synthesized using g-C₃N₄ as a template. RSC Advances, 2014, 4, 55062-55066.	1.7	22
85	Band-Gap Engineering of NaNbO₃for Photocatalytic H₂Evolution with Visible Light. International Journal of Photoenergy, 2014, 2014, 1-6.	1.4	9
86	Photocatalytic Water Splitting under Visible Light by Mixed-Valence Sn₃O₄. ACS Applied Materials & Interfaces, 2014, 6, 3790-3793.	4.0	148
87	Gold photosensitized SrTiO3 for visible-light water oxidation induced by Au interband transitions. Journal of Materials Chemistry A, 2014, 2, 9875.	5.2	106
88	Constructing cubicâ€“orthorhombic surface-phase junctions of NaNbO₃ towards significant enhancement of CO₂ photoreduction. Journal of Materials Chemistry A, 2014, 2, 5606-5609.	5.2	93
89	Photocatalytic CO₂conversion over alkali modified TiO₂without loading noble metal cocatalyst. Chemical Communications, 2014, 50, 11517-11519.	2.2	162
90	Photoreduction of CO 2 over the well-crystallized ordered mesoporous TiO 2 with the confined space effect. Nano Energy, 2014, 9, 50-60.	8.2	137

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91	W18O49 nanowire networks for catalyzed dehydration of isopropyl alcohol to propylene under visible light. Journal of Materials Chemistry A, 2013, 1, 6125.	5.2	65
92	Surface-coordination-induced selective synthesis of cubic and orthorhombic NaNbO₃and their photocatalytic properties. Journal of Materials Chemistry A, 2013, 1, 1185-1191.	5.2	89
93	High-Active Anatase TiO₂ Nanosheets Exposed with 95% {100} Facets Toward Efficient H₂ Evolution and CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2013, 5, 1348-1354.	4.0	203
94	Leaf-architectured 3D Hierarchical Artificial Photosynthetic System of Perovskite Titanates Towards CO2 Photoreduction Into Hydrocarbon Fuels. Scientific Reports, 2013, 3, 1667.	1.6	159
95	A new heterojunction Ag3PO4/Cr-SrTiO3 photocatalyst towards efficient elimination of gaseous organic pollutants under visible light irradiation. Applied Catalysis B: Environmental, 2013, 134-135, 286-292.	10.8	123
96	Selective local nitrogen doping in a TiO2 electrode for enhancing photoelectrochemical water splitting. Chemical Communications, 2012, 48, 8649.	2.2	37
97	Surface-Alkalinization-Induced Enhancement of Photocatalytic H₂ Evolution over SrTiO₃-Based Photocatalysts. Journal of the American Chemical Society, 2012, 134, 1974-1977.	6.6	330
98	The Effects of Crystal Structure and Electronic Structure on Photocatalytic H₂ Evolution and CO₂ Reduction over Two Phases of Perovskite-Structured NaNbO₃. Journal of Physical Chemistry C, 2012, 116, 7621-7628.	1.5	243
99	Ultrathin W₁₈O₄₉ Nanowires with Diameters below 1â€…nm: Synthesis, Nearâ€Infrared Absorption, Photoluminescence, and Photochemical Reduction of Carbon Dioxide. Angewandte Chemie - International Edition, 2012, 51, 2395-2399.	7.2	492
100	Theoretical investigation into molecular diodes integrated in series using the non-equilibrium Green's function method. Physical Chemistry Chemical Physics, 2011, 13, 1301-1306.	1.3	26
101	Ion-exchange synthesis of a micro/mesoporous Zn2GeO4 photocatalyst at room temperature for photoreduction of CO2. Chemical Communications, 2011, 47, 2041.	2.2	119
102	Fabrication of p-type CaFe2O4 nanofilms for photoelectrochemical hydrogen generation. Electrochemistry Communications, 2011, 13, 275-278.	2.3	71
103	Nanoarchitectonics of a Au nanoprism array on WO₃film for synergistic optoelectronic response. Science and Technology of Advanced Materials, 2011, 12, 044604.	2.8	34
104	A quantum chemistry study of diethynylbenzene macrocycles: Structural and electronic properties. Computational and Theoretical Chemistry, 2008, 861, 7-13.	1.5	6
105	Theoretical investigation on molecular rectification on the basis of asymmetric substitution and proton transfer reaction. Journal of Chemical Physics, 2008, 129, 224704.	1.2	51
106	Theoretical investigation on conformational behavior of 2,2â€²-bithiophene under the influence of external electric field at ab initio levels. Computational and Theoretical Chemistry, 2007, 808, 125-134.	1.5	9
107	Theoretical analysis of geometry-correlated conductivity of molecular wire. Chemical Physics Letters, 2006, 422, 111-116.	1.2	60