Peng Fei Liu

List of Publications by Year
in descending order

60 papers	6,020 citations	212478 28 h-index	156644 58 g-index
61 all docs	61 docs citations	61 times ranked	10036 citing authors

#	Article	IF	Citations
1	Highly Ethyleneâ€Selective Electrocatalytic CO₂ Reduction Enabled by Isolated Cuâ^'S Motifs in Metalâ€“Organic Framework Based Precatalysts. Angewandte Chemie, 2022, 134, .	1.6	5
2	Highly Ethyleneâ€Selective Electrocatalytic CO₂ Reduction Enabled by Isolated Cuâ^'S Motifs in Metalâ€“Organic Framework Based Precatalysts. Angewandte Chemie - International Edition, 2022, 61, .	7.2	81
3	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO₂ Reduction in a Membrane Flow Cell. Advanced Functional Materials, 2022, 32, 2107301.	7.8	43
4	Selective methane electrosynthesis enabled by a hydrophobic carbon coated copper coreâ€“shell architecture. Energy and Environmental Science, 2022, 15, 234-243.	15.6	51
5	Enhanced Surface Kinetics and Charge Transfer of BiVO₄ Photoanodes by Rh₂O₃ Cocatalyst Loading for Improved Solar Water Oxidation. Chemistry - an Asian Journal, 2022, 17, .	1.7	6
6	Electrochemical conversion of CO₂ to syngas with a stable H₂/CO ratio in a wide potential range over ligand-engineered metalâ€“organic frameworks. Journal of Materials Chemistry A, 2022, 10, 9954-9959.	5.2	5
7	In situ reconstruction of vegetable sponge-like Bi₂O₃ for efficient CO₂ electroreduction to formate. Materials Chemistry Frontiers, 2022, 6, 1091-1097.	3.2	10
8	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO₂ Reduction in a Membrane Flow Cell (Adv. Funct. Mater. 11/2022). Advanced Functional Materials, 2022, 32, .	7.8	1
9	Hydrogen Spillover-Bridged Volmer/Tafel Processes Enabling Ampere-Level Current Density Alkaline Hydrogen Evolution Reaction under Low Overpotential. Journal of the American Chemical Society, 2022, 144, 6028-6039.	6.6	179
10	Operando Highâ€Valence Crâ€Modified NiFe Hydroxides for Water Oxidation. Small, 2022, 18, e2200303.	5.2	44
11	In Operando Identification of In Situ Formed Metalloid Zinc^{Î´+} Active Sites for Highly Efficient Electrocatalyzed Carbon Dioxide Reduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	25
12	Operando Converting BiOCl into Bi2O2(CO3)xCly for Efficient Electrocatalytic Reduction of Carbon Dioxide to Formate. Nano-Micro Letters, 2022, 14, 121.	14.4	15
13	Graphite carbon nitride doped with a benzene ring for enhanced photocatalytic H₂ evolution. Chemical Communications, 2021, 57, 3042-3045.	2.2	23
14	A low-valent cobalt oxide co-catalyst to boost photocatalytic water oxidation via enhanced hole-capturing ability. Journal of Materials Chemistry A, 2021, 9, 14786-14792.	5.2	18
15	A template-free synthesis of mesoporous SrTiO₃ single crystals. CrystEngComm, 2021, 23, 5595-5600.	1.3	2
16	InnenrÃ¼cktitelbild: Boosting Photocatalytic Water Oxidation Over Bifunctional Rh⁰â€Rh³⁺ Sites (Angew. Chem. 42/2021). Angewandte Chemie, 2021, 133, 23211-23211.	1.6	0
17	Boosting Photocatalytic Water Oxidation Over Bifunctional Rh 0 â€Rh 3+ Sites. Angewandte Chemie, 2021, 133, 22943.	1.6	2
18	Boosting Photocatalytic Water Oxidation Over Bifunctional Rh⁰â€Rh³⁺ Sites. Angewandte Chemie - International Edition, 2021, 60, 22761-22768.	7.2	19

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19	Towards the object-oriented design of active hydrogen evolution catalysts on single-atom alloys. Chemical Science, 2021, 12, 10634-10642.	3.7	9
20	Nitrogen-Stabilized Low-Valent Ni Motifs for Efficient CO₂ Electrocatalysis. ACS Catalysis, 2020, 10, 1086-1093.	5.5	101
21	Recent Advances in Photocatalysis over Metalâ€“Organic Frameworksâ€Based Materials. Solar Rrl, 2020, 4, 1900438.	3.1	22
22	Perovskite Microcrystals with Intercalated Monolayer MoS2 Nanosheets as Advanced Photocatalyst for Solar-Powered Hydrogen Generation. Matter, 2020, 3, 935-949.	5.0	81
23	Carbon Nanotubes Codoped with Nickel and Nitrogen for Electrochemical Syngas Production. ACS Applied Nano Materials, 2020, 3, 8581-8585.	2.4	0
24	Activation strategies of water-splitting electrocatalysts. Journal of Materials Chemistry A, 2020, 8, 10096-10129.	5.2	67
25	Controllable synthesis of conical BiVO4 for photocatalytic water oxidation. Journal of Materials Chemistry A, 2020, 8, 2331-2335.	5.2	15
26	One-step coating of commercial Ni nanoparticles with a Ni, N-co-doped carbon shell towards efficient electrocatalysts for CO₂ reduction. Chemical Communications, 2020, 56, 7495-7498.	2.2	13
27	Ultrathin Hematite Photoanode with Gradient Ti Doping. Research, 2020, 2020, 5473217.	2.8	10
28	Boosting Alkaline Hydrogen Evolution Electrocatalysis over Metallic Nickel Sites through Synergistic Coupling with Vanadium Sesquioxide. ChemSusChem, 2019, 12, 5063-5069.	3.6	16
29	Accelerated proton transmission in metalâ€“organic frameworks for the efficient reduction of CO₂in aqueous solutions. Journal of Materials Chemistry A, 2019, 7, 23055-23063.	5.2	12
30	Enhanced CO₂ electroreduction performance over Cl-modified metal catalysts. Journal of Materials Chemistry A, 2019, 7, 12420-12425.	5.2	42
31	Bismuth oxyiodide microflower-derived catalysts for efficient CO₂ electroreduction in a wide negative potential region. Chemical Communications, 2019, 55, 12392-12395.	2.2	25
32	Nâ€Modified NiO Surface for Superior Alkaline Hydrogen Evolution. ChemSusChem, 2018, 11, 1020-1024.	3.6	12
33	Surface Electronic Modification of Perovskite Thin Film with Waterâ€Resistant Electron Delocalized Molecules for Stable and Efficient Photovoltaics. Advanced Energy Materials, 2018, 8, 1703143.	10.2	91
34	Accelerating Neutral Hydrogen Evolution with Tungsten Modulated Amorphous Metal Hydroxides. ACS Catalysis, 2018, 8, 5200-5205.	5.5	73
35	Simple Cadmium Sulfide Compound with Stable 95â€‰% Selectivity for Carbon Dioxide Electroreduction in Aqueous Medium. ChemSusChem, 2018, 11, 1421-1425.	3.6	30
36	Local coulomb attraction for enhanced H2 evolution stability of metal sulfide photocatalysts. Applied Catalysis B: Environmental, 2018, 221, 152-157.	10.8	18

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37	Bimetallic Carbide as a Stable Hydrogen Evolution Catalyst in Harsh Acidic Water. ACS Energy Letters, 2018, 3, 78-84.	8.8	42
38	Cobalt Covalent Doping in MoS₂ to Induce Bifunctionality of Overall Water Splitting. Advanced Materials, 2018, 30, e1801450.	11.1	402
39	1D/1D Hierarchical Nickel Sulfide/Phosphide Nanostructures for Electrocatalytic Water Oxidation. ACS Energy Letters, 2018, 3, 2021-2029.	8.8	93
40	Surface engineering of nickel selenide for an enhanced intrinsic overall water splitting ability. Materials Chemistry Frontiers, 2018, 2, 1725-1731.	3.2	44
41	Sharpâ€Tipped Zinc Nanowires as an Efficient Electrocatalyst for Carbon Dioxide Reduction. Chemistry - A European Journal, 2018, 24, 15486-15490.	1.7	16
42	Facile Fabrication of Large-Aspect-Ratio g-C₃N₄ Nanosheets for Enhanced Photocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2017, 5, 2039-2043.	3.2	104
43	Band-aligned C₃N_{4â^'x}S_{3x/2} stabilizes CdS/CuInGaS₂ photocathodes for efficient water reduction. Journal of Materials Chemistry A, 2017, 5, 3167-3171.	5.2	9
44	Mo⁶⁺activated multimetal oxygen-evolving catalysts. Chemical Science, 2017, 8, 3484-3488.	3.7	129
45	Amorphous ferric oxide as a hole-extraction and transfer layer on nanoporous bismuth vanadate photoanode for water oxidation. Chinese Journal of Catalysis, 2017, 38, 1045-1051.	6.9	5
46	Metallic Ni₃P/Ni Coâ€Catalyst To Enhance Photocatalytic Hydrogen Evolution. Chemistry - A European Journal, 2017, 23, 16734-16737.	1.7	16
47	Ni₂P(O)/Fe₂P(O) Interface Can Boost Oxygen Evolution Electrocatalysis. ACS Energy Letters, 2017, 2, 2257-2263.	8.8	173
48	Nickel nanoparticles coated with graphene layers as efficient co-catalyst for photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2017, 200, 578-584.	10.8	77
49	Defect-Rich Ultrathin Cobaltâ€“Iron Layered Double Hydroxide for Electrochemical Overall Water Splitting. ACS Applied Materials & Interfaces, 2016, 8, 34474-34481.	4.0	345
50	Electrochemical etching of Î±-cobalt hydroxide for improvement of oxygen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 9578-9584.	5.2	125
51	Enhancing alkaline hydrogen evolution reaction activity through Niâ€“Mn₃O₄ nanocomposites. Chemical Communications, 2016, 52, 10566-10569.	2.2	106
52	Homogeneously dispersed multimetal oxygen-evolving catalysts. Science, 2016, 352, 333-337.	6.0	1,948
53	Atomically isolated nickel species anchored on graphitized carbon for efficient hydrogen evolution electrocatalysis. Nature Communications, 2016, 7, 10667.	5.8	577
54	Mn₃O₄ nano-octahedrons on Ni foam as an efficient three-dimensional oxygen evolution electrocatalyst. Journal of Materials Chemistry A, 2015, 3, 14101-14104.	5.2	95

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55	Local atomic structure modulations activate metal oxide as electrocatalyst for hydrogen evolution in acidic water. Nature Communications, 2015, 6, 8064.	5.8	270
56	Bottom-Up Enhancement of g-C3N4Photocatalytic H2Evolution Utilising Disordering Intermolecular Interactions of Precursor. International Journal of Photoenergy, 2014, 2014, 1-8.	1.4	10
57	Structure disorder of graphitic carbon nitride induced by liquid-assisted grinding for enhanced photocatalytic conversion. RSC Advances, 2014, 4, 10676-10679.	1.7	28
58	Molybdenum carbide stabilized on graphene with high electrocatalytic activity for hydrogen evolution reaction. Chemical Communications, 2014, 50, 13135-13137.	2.2	235
59	Synthesis of well-defined functional crystals by high temperature gas-phase reactions. Science Bulletin, 2014, 59, 2135-2143.	1.7	4
60	Operando Metalloid ZnÎ´+ Active Sites for Highly Efficient Carbon Dioxide Reduction Electrocatalysis. Angewandte Chemie, 0, , .	1.6	0