

Jae Sung Lee

List of Publications by Year in descending order

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papers

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5268

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all docs

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docs citations

250
times ranked

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#	ARTICLE	IF	CITATIONS
1	Self-motivated, thermally oxidized hematite nanoflake photoanodes: Effects of pre-polishing and ZrO ₂ passivation layer. <i>Journal of Energy Chemistry</i> , 2022, 65, 415-423.	12.9	11
2	Sulfur-doped molybdenum phosphide as fast dis/charging anode for Li-ion and Na-ion batteries. <i>International Journal of Energy Research</i> , 2022, 46, 8452-8463.	4.5	7
3	Metal substrates activate NiFe(oxy)hydroxide catalysts for efficient oxygen evolution reaction in alkaline media. <i>Journal of Alloys and Compounds</i> , 2022, 901, 163689.	5.5	16
4	An <i>in situ</i> fluorine and <i>ex situ</i> titanium two-step co-doping strategy for efficient solar water splitting by hematite photoanodes. <i>Nanoscale Advances</i> , 2022, 4, 1659-1667.	4.6	9
5	Photoelectrochemical Nitrate Reduction to Ammonia on Ordered Silicon Nanowire Array Photocathodes. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
6	Photoelectrochemical Nitrate Reduction to Ammonia on Ordered Silicon Nanowire Array Photocathodes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	25
7	Microwave-assisted metal-ion attachment for ex-situ zirconium doping into hematite for enhanced photoelectrochemical water splitting. <i>Renewable Energy</i> , 2022, 189, 694-703.	8.9	17
8	Hetero-tandem organic solar cells drive water electrolysis with a solar-to-hydrogen conversion efficiency up to 10%. <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121237.	20.2	8
9	Highly Efficient Photoelectrochemical Hydrogen Production Using Nontoxic CuIn _{1.5} Se ₃ Quantum Dots with ZnS/SiO ₂ Double Overlayers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 603-610.	8.0	7
10	Healing Ion-Implanted Semiconductors by Hybrid Microwave Annealing: Activation of Nitrogen-Implanted TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3878-3885.	4.6	1
11	Molecularly Engineered Carbon Platform To Anchor Edge-Hosted Single-Atomic M-N/C (M = Fe, Co, Ni). <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3878-3885.	11.2	36
12	Design of 2D Layered Catalyst by Coherent Heteroepitaxial Conversion for Robust Hydrogen Generation. <i>Advanced Functional Materials</i> , 2021, 31, 2005449.	14.9	11
13	Nanostructured Iron Sulfide/N, S Dual-Doped Carbon Nanotube-Graphene Composites as Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>Materials</i> , 2021, 14, 2146.	2.9	19
14	Base-free CO ₂ hydrogenation to formic acid over Pd supported on defective carbon nitride modified by microwave and acid treatments. <i>Journal of Catalysis</i> , 2021, 396, 395-401.	6.2	17
15	Metal carbides as alternative electrocatalysts for energy conversion reactions. <i>Journal of Catalysis</i> , 2021, 404, 911-924.	6.2	20
16	Layered Double Hydroxide-Derived Intermetallic Ni ₃ Ga _{0.25} Catalysts for Dry Reforming of Methane. <i>ACS Catalysis</i> , 2021, 11, 11091-11102.	11.2	26
17	Rational design of photocatalysts for ammonia production from water and nitrogen gas. <i>Nano Convergence</i> , 2021, 8, 22.	12.1	18
18	Innovative strategies toward challenges in PV-powered electrochemical CO ₂ reduction. <i>Journal of Energy Chemistry</i> , 2021, 60, 410-416.	12.9	23

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19	ZnFe ₂ O ₄ Dendrite/SnO ₂ Helix 3D Heterostructure Photoanodes for Enhanced Photoelectrochemical Water Splitting: Triple Functions of SnO ₂ Nanohelix. <i>Small</i> , 2021, 17, e2103861.	10.0	14
20	A Brief History of Nuclear Medicine Physics, Instrumentation, and Data Sciences in Korea. <i>Nuclear Medicine and Molecular Imaging</i> , 2021, 55, 265-284.	1.0	0
21	Intentional Extrinsic Doping into ZnFe ₂ O ₄ Nanorod Photoanode for Enhanced Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2020, 4, 1900328.	5.8	13
22	Nitrogen-doped carbon nanotube-graphene hybrid stabilizes M _x N (M = Fe, Co) nanoparticles for efficient oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118415.	20.2	46
23	Covalent 0D-2D Heterostructuring of Co ₉ S ₈ -MoS ₂ for Enhanced Hydrogen Evolution in All pH Electrolytes. <i>Advanced Functional Materials</i> , 2020, 30, 2002536.	14.9	114
24	Gradient tantalum-doped hematite homojunction photoanode improves both photocurrents and turn-on voltage for solar water splitting. <i>Nature Communications</i> , 2020, 11, 4622.	12.8	133
25	Immobilizing single atom catalytic sites onto highly reduced carbon hosts: Fe ₄ /CNT as a durable oxygen reduction catalyst for Na-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18891-18902.	10.3	31
26	Recycling Carbon Dioxide through Catalytic Hydrogenation: Recent Key Developments and Perspectives. <i>ACS Catalysis</i> , 2020, 10, 11318-11345.	11.2	215
27	Cobalt Ferrite Nanoparticles to Form a Catalytic Co-Fe Alloy Carbide Phase for Selective CO ₂ Hydrogenation to Light Olefins. <i>ACS Catalysis</i> , 2020, 10, 8660-8671.	11.2	95
28	Nanostructured molybdenum Phosphide/N-Doped carbon nanotube-graphene composites as efficient electrocatalysts for hydrogen evolution reaction. <i>Applied Catalysis A: General</i> , 2020, 594, 117451.	4.3	20
29	Structure-tunable supraparticle assemblies of hollow cupric oxide sheathed with nanographenes. <i>Nanoscale Advances</i> , 2020, 2, 1236-1244.	4.6	5
30	Ferrites: emerging light absorbers for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9447-9482.	10.3	61
31	Immiscible bi-metal single-atoms driven synthesis of electrocatalysts having superb mass-activity and durability. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118896.	20.2	102
32	Benchmark performance of low-cost Sb ₂ Se ₃ photocathodes for unassisted solar overall water splitting. <i>Nature Communications</i> , 2020, 11, 861.	12.8	135
33	Seawater-Mediated Solar-to-Sodium Conversion by Bismuth Vanadate Photoanode- Photovoltaic Tandem Cell: Solar Rechargeable Seawater Battery. <i>IScience</i> , 2019, 19, 232-243.	4.1	16
34	Hybrid Microwave Annealing Synthesizes Highly Crystalline Nanostructures for (Photo)electrocatalytic Water Splitting. <i>Accounts of Chemical Research</i> , 2019, 52, 3132-3142.	15.6	27
35	A Few Atomic FeNbO ₄ Overlayers on Hematite Nanorods: Microwave-Induced High Temperature Phase for Efficient Photoelectrochemical Water Splitting. <i>ACS Catalysis</i> , 2019, 9, 1289-1297.	11.2	58
36	Precipitating Metal Nitrate Deposition of Amorphous Metal Oxyhydroxide Electrodes Containing Ni, Fe, and Co for Electrocatalytic Water Oxidation. <i>ACS Catalysis</i> , 2019, 9, 9650-9662.	11.2	43

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37	Three Birds, One Stone Strategy for Hybrid Microwave Synthesis of Ta and Sn Codoped Fe ₂ O ₃ @FeTaO ₄ Nanorods for Photoelectrochemical Water Oxidation. <i>Advanced Functional Materials</i> , 2019, 29, 1805737.	14.9	79
38	Multi-atlas cardiac PET segmentation. <i>Physica Medica</i> , 2019, 58, 32-39.	0.7	9
39	Band Gap Narrowing of Zinc Orthogermanate by Dimensional and Defect Modification. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14573-14581.	3.1	6
40	Precisely-controlled, a few layers of iron titanate inverse opal structure for enhanced photoelectrochemical water splitting. <i>Nano Energy</i> , 2019, 62, 20-29.	16.0	24
41	Solar Water Splitting: Elaborately Modified BiVO ₄ Photoanodes for Solar Water Splitting (<i>Adv. Mater.</i> 20/2019). <i>Advanced Materials</i> , 2019, 31, 1970146.	21.0	64
42	Toward practical solar hydrogen production – an artificial photosynthetic leaf-to-farm challenge. <i>Chemical Society Reviews</i> , 2019, 48, 1908-1971.	38.1	781
43	Elaborately Modified BiVO ₄ Photoanodes for Solar Water Splitting. <i>Advanced Materials</i> , 2019, 31, e1806938.	21.0	333
44	Electrocatalytic property of water oxidation reaction depends on charging state of intermediates on Ag-M (M = Fe, Co, Ni, Cu) in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 5863-5871.	7.1	5
45	Reduced perovskite LaNiO ₃ catalysts modified with Co and Mn for low coke formation in dry reforming of methane. <i>Applied Catalysis A: General</i> , 2019, 575, 198-203.	4.3	107
46	Activating the surface and bulk of hematite photoanodes to improve solar water splitting. <i>Chemical Science</i> , 2019, 10, 10436-10444.	7.4	57
47	Perovskite Tandems Advance Solar Hydrogen Production. <i>Joule</i> , 2019, 3, 2892-2894.	24.0	7
48	Key Strategies to Advance the Photoelectrochemical Water Splitting Performance of Fe ₂ O ₃ Photoanode. <i>ChemCatChem</i> , 2019, 11, 157-179.	3.7	135
49	Activating MoS ₂ Basal Plane with Ni ₂ P Nanoparticles for Pt-Like Hydrogen Evolution Reaction in Acidic Media. <i>Advanced Functional Materials</i> , 2019, 29, 1809151.	14.9	114
50	Photoelectrochemical Water Splitting with p-Type Metal Oxide Semiconductor Photocathodes. <i>ChemSusChem</i> , 2019, 12, 1835-1845.	6.8	96
51	Exfoliated NiFe Layered Double Hydroxide Cocatalyst for Enhanced Photoelectrochemical Water Oxidation with Hematite Photoanode. <i>ChemCatChem</i> , 2019, 11, 443-448.	3.7	22
52	Hybrid Microwave Annealing for Fabrication of More Efficient Semiconductor Photoanodes for Solar Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 944-949.	6.7	15
53	Efficient Hydrogen Evolution Reaction Catalysis in Alkaline Media by All-in-One MoS ₂ with Multifunctional Active Sites. <i>Advanced Materials</i> , 2018, 30, e1707105.	21.0	321
54	Metal-Free Artificial Photosynthesis of Carbon Monoxide Using Na-Doped ZnTe Nanorod Photocathode Decorated with Na-Doped Carbon Electrocatalyst Layer. <i>Advanced Energy Materials</i> , 2018, 8, 1702636.	19.5	42

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55	Ultraporous Nickel-Cobalt-Manganese/Alumina Inverse Opal as a Coke-Tolerant and Pressure-Drop-Free Catalyst for the Dry Reforming of Methane. <i>ChemCatChem</i> , 2018, 10, 2214-2218.	3.7	12
56	Highly loaded PbS/Mn-doped CdS quantum dots for dual application in solar-to-electrical and solar-to-chemical energy conversion. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 409-417.	20.2	59
57	One-dimensional CuIn alloy nanowires as a robust and efficient electrocatalyst for selective CO ₂ -to-CO conversion. <i>Journal of Power Sources</i> , 2018, 378, 412-417.	7.8	35
58	Effective charge separation in site-isolated Pt-nanodot deposited PbTiO ₃ nanotube arrays for enhanced photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 804-809.	20.2	34
59	A precious metal-free solar water splitting cell with a bifunctional cobalt phosphide electrocatalyst and doubly promoted bismuth vanadate photoanode. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1266-1274.	10.3	51
60	Hydrogen Evolution Reaction: Encapsulating Iridium Nanoparticles Inside a 3D Cage-Like Organic Network as an Efficient and Durable Catalyst for the Hydrogen Evolution Reaction (<i>Adv. Mater.</i>) <i>Tj ETQq0 0 0 rgBT Overlock 20 Tf 50 53</i>	21.0	98
61	Sulfur-Doped Dicobalt Phosphide Outperforming Precious Metals as a Bifunctional Electrocatalyst for Alkaline Water Electrolysis. <i>Chemistry of Materials</i> , 2018, 30, 8861-8870.	6.7	71
62	Encapsulating Iridium Nanoparticles Inside a 3D Cage-Like Organic Network as an Efficient and Durable Catalyst for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018, 30, e1805606.	21.0	98
63	All-Bismuth-Based Oxide Tandem Cell for Solar Overall Water Splitting. <i>ACS Applied Energy Materials</i> , 2018, 1, 6694-6699.	5.1	22
64	Bifunctional sulfur-doped cobalt phosphide electrocatalyst outperforms all-noble-metal electrocatalysts in alkaline electrolyzer for overall water splitting. <i>Nano Energy</i> , 2018, 53, 286-295.	16.0	184
65	Boosting the performance of Cu ₂ O photocathodes for unassisted solar water splitting devices. <i>Nature Catalysis</i> , 2018, 1, 412-420.	34.4	489
66	Boron- and Nitrogen-Codoped Molybdenum Carbide Nanoparticles Imbedded in a BCN Network as a Bifunctional Electrocatalyst for Hydrogen and Oxygen Evolution Reactions. <i>ACS Catalysis</i> , 2018, 8, 8296-8305.	11.2	126
67	A multitude of modifications strategy of ZnFe ₂ O ₄ nanorod photoanodes for enhanced photoelectrochemical water splitting activity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12693-12700.	10.3	52
68	Density Functional Theory (DFT) Calculations for Oxygen Reduction Reaction Mechanisms on Metal-, Nitrogen- co-doped Graphene (M-N ₂ -G (M = Ti, Cu, Mo, Nb and Ru)) Electrocatalysts. <i>Electrochimica Acta</i> , 2017, 228, 619-627.	5.2	29
69	2D materials-based photoelectrochemical cells: Combination of transition metal dichalcogenides and reduced graphene oxide for efficient charge transfer. <i>FlatChem</i> , 2017, 4, 54-60.	5.6	18
70	Auto-Reduction Behavior of Cobalt on Graphitic Carbon Nitride Coated Alumina Supports for Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2017, 9, 4098-4104.	3.7	18
71	Effect of lattice strain on nanomaterials in energy applications: A perspective on experiment and theory. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16064-16107.	7.1	12
72	BCN network-encapsulated multiple phases of molybdenum carbide for efficient hydrogen evolution reactions in acidic and alkaline media. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13122-13129.	10.3	82

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73	Sulfur and Nitrogen Dual-Doped Molybdenum Phosphide Nanocrystallites as an Active and Stable Hydrogen Evolution Reaction Electrocatalyst in Acidic and Alkaline Media. <i>ACS Catalysis</i> , 2017, 7, 3030-3038.	11.2	210
74	Screening of Oxygen-Reduction-Reaction-Efficient Electrocatalysts Based on Ag ⁺ M (M = 3d, 4d, and 5d) Tj ETQq0 0 0 rgBT /Overlock 1874-1881.	5.1	13
75	Freeze-dried MoS ₂ sponge electrodes for enhanced electrochemical energy storage. <i>Dalton Transactions</i> , 2017, 46, 2122-2128.	3.3	67
76	Sodium ⁺ -Containing Spinel Zinc Ferrite as a Catalyst Precursor for the Selective Synthesis of Liquid Hydrocarbon Fuels. <i>ChemSusChem</i> , 2017, 10, 4764-4770.	6.8	89
77	Water Splitting: Engineering Highly Ordered Iron Titanate Nanotube Array Photoanodes for Enhanced Solar Water Splitting Activity (<i>Adv. Funct. Mater.</i> 35/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	7
78	Current progress and scientific challenges in the advancement of organic ⁺ inorganic lead halide perovskite solar cells. <i>New Journal of Chemistry</i> , 2017, 41, 10508-10527.	2.8	21
79	Engineering Highly Ordered Iron Titanate Nanotube Array Photoanodes for Enhanced Solar Water Splitting Activity. <i>Advanced Functional Materials</i> , 2017, 27, 1702428.	14.9	52
80	Nanomaterials for photocatalytic hydrogen production: from theoretical perspectives. <i>RSC Advances</i> , 2017, 7, 34875-34885.	3.6	51
81	Vertically Aligned Core ⁺ Shell PbTiO ₃ @TiO ₂ Heterojunction Nanotube Array for Photoelectrochemical and Photocatalytic Applications. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15063-15070.	3.1	39
82	Carbon dioxide Fischer-Tropsch synthesis: A new path to carbon-neutral fuels. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 605-610.	20.2	230
83	Unbiased Sunlight-Driven Artificial Photosynthesis of Carbon Monoxide from CO ₂ Using a ZnTe-Based Photocathode and a Perovskite Solar Cell in Tandem. <i>ACS Nano</i> , 2016, 10, 6980-6987.	14.6	128
84	A multi-stacked hyperporous silicon flake for highly active solar hydrogen production. <i>Chemical Communications</i> , 2016, 52, 10221-10224.	4.1	21
85	Hetero-type dual photoanodes for unbiased solar water splitting with extended light harvesting. <i>Nature Communications</i> , 2016, 7, 13380.	12.8	263
86	Overall Photoelectrochemical Water Splitting using Tandem Cell under Simulated Sunlight. <i>ChemSusChem</i> , 2016, 9, 61-66.	6.8	112
87	All-in-one synthesis of mesoporous silicon nanosheets from natural clay and their applicability to hydrogen evolution. <i>NPG Asia Materials</i> , 2016, 8, e248-e248.	7.9	56
88	Amorphous MoS _x thin-film-coated carbon fiber paper as a 3D electrode for long cycle life symmetric supercapacitors. <i>Nanoscale</i> , 2016, 8, 11787-11791.	5.6	66
89	Coke tolerance of Ni/Al ₂ O ₃ nanosheet catalyst for dry reforming of methane. <i>Catalysis Science and Technology</i> , 2016, 6, 2060-2064.	4.1	47
90	Enhanced activity of carbon-supported PdCo electrocatalysts toward electrooxidation of ethanol in alkaline electrolytes. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1799-1804.	2.7	13

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91	Highly Active and Coke-tolerant Hierarchical Mordenite Catalysts Synthesized by Recrystallization for the Isopropylation of Naphthalene. <i>ChemCatChem</i> , 2016, 8, 2996-3001.	3.7	4
92	Photocatalytic activity of electron-deficient and porous WO ₃ nanoparticles derived from thermal oxidation of bulk WC particles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 330, 37-43.	3.9	3
93	Highly Conformal Deposition of an Ultrathin FeOOH Layer on a Hematite Nanostructure for Efficient Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10854-10858.	13.8	200
94	Highly Conformal Deposition of an Ultrathin FeOOH Layer on a Hematite Nanostructure for Efficient Solar Water Splitting. <i>Angewandte Chemie</i> , 2016, 128, 11012-11016.	2.0	32
95	Oxygen-Intercalated CuFeO ₂ Photocathode Fabricated by Hybrid Microwave Annealing for Efficient Solar Hydrogen Production. <i>Chemistry of Materials</i> , 2016, 28, 6054-6061.	6.7	113
96	Ultrafast fabrication of highly active BiVO ₄ photoanodes by hybrid microwave annealing for unbiased solar water splitting. <i>Nanoscale</i> , 2016, 8, 17623-17631.	5.6	40
97	A highly active and stable palladium catalyst on a g-C ₃ N ₄ support for direct formic acid synthesis under neutral conditions. <i>Chemical Communications</i> , 2016, 52, 14302-14305.	4.1	60
98	Structure engineering of a core/shell Si@Ta ₃ N ₅ heterojunction nanowires array for photoelectrochemical water oxidation. <i>RSC Advances</i> , 2016, 6, 104955-104961.	3.6	5
99	Hydrogen-doped Brookite TiO ₂ Nanobullets Array as a Novel Photoanode for Efficient Solar Water Splitting. <i>Scientific Reports</i> , 2016, 6, 36099.	3.3	33
100	Facile surfactant driven fabrication of transparent WO ₃ photoanodes for improved photoelectrochemical properties. <i>Applied Catalysis A: General</i> , 2016, 521, 233-239.	4.3	10
101	Two-dimensional metal-dielectric hybrid-structured film with titanium oxide for enhanced visible light absorption and photo-catalytic application. <i>Nano Energy</i> , 2016, 21, 115-122.	16.0	21
102	Solar Hydrogen Production from Zinc Telluride Photocathode Modified with Carbon and Molybdenum Sulfide. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7748-7755.	8.0	37
103	Photoelectrochemical, impedance and optical data for self Sn-diffusion doped Fe ₂ O ₃ photoanodes fabricated at high temperature by one and two-step annealing methods. <i>Data in Brief</i> , 2015, 5, 796-804.	1.0	16
104	Tungsten Carbide and CNT-graphene-supported Pd Electrocatalyst toward Electrooxidation of Hydrogen. <i>ChemCatChem</i> , 2015, 7, 1483-1489.	3.7	7
105	Selective Formation of Iron Carbide with g-C ₃ N ₄ as a Sacrificial Support for Highly Active Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2015, 7, 3488-3494.	3.7	46
106	Influence of Metal Particle Size on Oxidative CO ₂ Reforming of Methane over Supported Nickel Catalysts: Effects of Secondary Metal Addition. <i>ChemCatChem</i> , 2015, 7, 1445-1452.	3.7	24
107	MOR/SBA-15 Composite Catalysts with Interconnected Meso/Micropores for Improved Activity and Stability in Isopropylation of Naphthalene. <i>ChemCatChem</i> , 2015, 7, 2354-2360.	3.7	7
108	Tree branch-shaped cupric oxide for highly effective photoelectrochemical water reduction. <i>Nanoscale</i> , 2015, 7, 7624-7631.	5.6	90

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109	Nanostructure-Preserved Hematite Thin Film for Efficient Solar Water Splitting. ACS Applied Materials & Interfaces, 2015, 7, 14123-14129.	8.0	69
110	Carbonate-coordinated cobalt co-catalyzed BiVO ₄ /WO ₃ composite photoanode tailored for CO ₂ reduction to fuels. Nano Energy, 2015, 15, 153-163.	16.0	113
111	Catalytic CO ₂ hydrogenation to formic acid over carbon nanotube-graphene supported PdNi alloy catalysts. RSC Advances, 2015, 5, 105560-105566.	3.6	99
112	Bifunctional TiO ₂ underlayer for Fe_2O_3 nanorod based photoelectrochemical cells: enhanced interface and Ti ⁴⁺ doping. Journal of Materials Chemistry A, 2015, 3, 5007-5013.	10.3	90
113	Fine-Tuning Pulse Reverse Electrodeposition for Enhanced Photoelectrochemical Water Oxidation Performance of Fe_2O_3 Photoanodes. Journal of Physical Chemistry C, 2015, 119, 5281-5292.	3.1	30
114	Ultrafast synthesis of MoS ₂ or WS ₂ -reduced graphene oxide composites via hybrid microwave annealing for anode materials of lithium ion batteries. Journal of Power Sources, 2015, 295, 228-234.	7.8	82
115	One-pot synthesis of NiFe layered double hydroxide/reduced graphene oxide composite as an efficient electrocatalyst for electrochemical and photoelectrochemical water oxidation. Journal of Power Sources, 2015, 294, 437-443.	7.8	183
116	Recent theoretical progress in the development of photoanode materials for solar water splitting photoelectrochemical cells. Journal of Materials Chemistry A, 2015, 3, 10632-10659.	10.3	146
117	Phase transition-induced band edge engineering of BiVO ₄ to split pure water under visible light. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13774-13778.	7.1	116
118	Defective ZnFe ₂ O ₄ nanorods with oxygen vacancy for photoelectrochemical water splitting. Nanoscale, 2015, 7, 19144-19151.	5.6	183
119	Wireless Solar Water Splitting Device with Robust Cobalt-Catalyzed, Dual-Doped BiVO ₄ Photoanode and Perovskite Solar Cell in Tandem: A Dual Absorber Artificial Leaf. ACS Nano, 2015, 9, 11820-11829.	14.6	219
120	One-Pot Defunctionalization of Lignin-Derived Compounds by Dual-Functional Pd ₅₀ /Ag ₅₀ /Fe ₃ O ₄ /N-rGO Catalyst. ACS Catalysis, 2015, 5, 6964-6972.	11.2	62
121	Selective CO production by Au coupled ZnTe/ZnO in the photoelectrochemical CO ₂ reduction system. Energy and Environmental Science, 2015, 8, 3597-3604.	30.8	152
122	Awakening Solar Water Splitting Activity of ZnFe ₂ O ₄ Nanorods by Hybrid Microwave Annealing. Advanced Energy Materials, 2015, 5, 1401933.	19.5	95
123	BiVO ₄ -Based Heterostructured Photocatalysts for Solar Water Splitting: A Review. Energy and Environment Focus, 2014, 3, 339-353.	0.3	96
124	Photochemistry: A Stable and Efficient Hematite Photoanode in a Neutral Electrolyte for Solar Water Splitting: Towards Stability Engineering (Adv. Energy Mater. 13/2014). Advanced Energy Materials, 2014, 4, n/a-n/a.	19.5	3
125	CaFe ₂ O ₄ sensitized hierarchical TiO ₂ photo composite for hydrogen production under solar light irradiation. Chemical Engineering Journal, 2014, 247, 152-160.	12.7	73
126	An exceptionally facile method to produce layered double hydroxides on a conducting substrate and their application for solar water splitting without an external bias. Energy and Environmental Science, 2014, 7, 2301.	30.8	37

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127	Aqueous Solution Route to Zinc Telluride Films for Application to CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5852-5857.	13.8	91
128	Research Update: Strategies for efficient photoelectrochemical water splitting using metal oxide photoanodes. <i>APL Materials</i> , 2014, 2, .	5.1	120
129	A Stable and Efficient Hematite Photoanode in a Neutral Electrolyte for Solar Water Splitting: Towards Stability Engineering. <i>Advanced Energy Materials</i> , 2014, 4, 1400476.	19.5	110
130	Highly Active and Stable Hydrogen Evolution Electrocatalysts Based on Molybdenum Compounds on Carbon Nanotube-Graphene Hybrid Support. <i>ACS Nano</i> , 2014, 8, 5164-5173.	14.6	531
131	Isopropylation of naphthalene by isopropanol over conventional and Zn- and Fe-modified USY zeolites. <i>Catalysis Science and Technology</i> , 2014, 4, 120-128.	4.1	21
132	Mo-Compound/CNT-Graphene Composites as Efficient Catalytic Electrodes for Quantum-Dot-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1300775.	19.5	84
133	Palladium oxide as a novel oxygen evolution catalyst on BiVO ₄ photoanode for photoelectrochemical water splitting. <i>Journal of Catalysis</i> , 2014, 317, 126-134.	6.2	65
134	Improved Photoelectrochemical Activity of CaFe ₂ O ₄ /BiVO ₄ Heterojunction Photoanode by Reduced Surface Recombination in Solar Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17762-17769.	8.0	114
135	A versatile photoanode-driven photoelectrochemical system for conversion of CO ₂ to fuels with high faradaic efficiencies at low bias potentials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2044.	10.3	85
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