

Yan-Gu Lin

List of Publications by Year in descending order

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83
papers

4,876
citations

109137

35
h-index

95083

68
g-index

85
all docs

85
docs citations

85
times ranked

7302
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene oxide as a promising photocatalyst for CO ₂ to methanol conversion. <i>Nanoscale</i> , 2013, 5, 262-268.	2.8	424
2	Structural and Electronic Optimization of MoS ₂ Edges for Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2019, 141, 18578-18584.	6.6	292
3	Co-Induced Electronic Optimization of Hierarchical NiFe LDH for Oxygen Evolution. <i>Small</i> , 2020, 16, e2002426.	5.2	263
4	Highly flexible supercapacitors with manganese oxide nanosheet/carbon cloth electrode. <i>Electrochimica Acta</i> , 2011, 56, 7124-7130.	2.6	224
5	Reversible phase transformation of MnO ₂ nanosheets in an electrochemical capacitor investigated by in situ Raman spectroscopy. <i>Chemical Communications</i> , 2011, 47, 1252-1254.	2.2	196
6	Novel ZnO/Fe ₂ O ₃ Core-Shell Nanowires for Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14157-14162.	4.0	175
7	Synthesis of copper sulfide nanowire arrays for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2014, 139, 401-407.	2.6	163
8	Interstitial boron-triggered electron-deficient Os aerogels for enhanced pH-universal hydrogen evolution. <i>Nature Communications</i> , 2022, 13, 1143.	5.8	152
9	Novel Iron Oxyhydroxide Lepidocrocite Nanosheet as Ultrahigh Power Density Anode Material for Asymmetric Supercapacitors. <i>Small</i> , 2014, 10, 3803-3810.	5.2	143
10	Characteristics and electrochemical performances of lotus-like CuO/Cu(OH) ₂ hybrid material electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2012, 673, 43-47.	1.9	127
11	Visible-light-driven photocatalytic carbon-doped porous ZnO nanoarchitectures for solar water-splitting. <i>Nanoscale</i> , 2012, 4, 6515.	2.8	126
12	High-cell-voltage supercapacitor of carbon nanotube/carbon cloth operating in neutral aqueous solution. <i>Journal of Materials Chemistry</i> , 2012, 22, 3383.	6.7	126
13	Site-Specified Two-Dimensional Heterojunction of Pt Nanoparticles/Metal-Organic Frameworks for Enhanced Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 16512-16518.	6.6	121
14	Plasmonic Ag@Ag ₃ (PO ₄) ₂ nanoparticle photosensitized ZnO nanorod-array photoanodes for water oxidation. <i>Energy and Environmental Science</i> , 2012, 5, 8917.	15.6	103
15	Synthesis of novel Cu ₂ O micro/nanostructural photocathode for solar water splitting. <i>Electrochimica Acta</i> , 2013, 105, 62-68.	2.6	94
16	Birnessite-type manganese oxides nanosheets with hole acceptor assisted photoelectrochemical activity in response to visible light. <i>Journal of Materials Chemistry</i> , 2012, 22, 2733-2739.	6.7	89
17	Beaded stream-like CoSe ₂ nanoneedle array for efficient hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4553-4561.	5.2	89
18	An Efficient Interfacial Synthesis of Two-Dimensional Metal-Organic Framework Nanosheets for Electrochemical Hydrogen Peroxide Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11190-11195.	7.2	89

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19	Polarity-dependent photoelectrochemical activity in ZnO nanostructures for solar water splitting. <i>Electrochemistry Communications</i> , 2011, 13, 1383-1386.	2.3	84
20	Fabrication of coral-like Cu ₂ O nanoelectrode for solar hydrogen generation. <i>Journal of Power Sources</i> , 2013, 242, 541-547.	4.0	82
21	N,P co-coordinated Fe species embedded in carbon hollow spheres for oxygen electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14732-14742.	5.2	80
22	Photocatalytic hydrogen production from glycerol solution at room temperature by ZnO-ZnS/graphene photocatalysts. <i>Applied Surface Science</i> , 2018, 451, 198-206.	3.1	79
23	Synthesis of Copper Phosphide Nanotube Arrays as Electrodes for Asymmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3863-3870.	3.2	70
24	Nanostructured Zinc Oxide Nanorods with Copper Nanoparticles as a Microreformation Catalyst. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7586-7590.	7.2	63
25	Hierarchical Cu ₂ O photocathodes with nano/microspheres for solar hydrogen generation. <i>RSC Advances</i> , 2012, 2, 12455.	1.7	60
26	Direct-growth of poly(3,4-ethylenedioxythiophene) nanowires/carbon cloth as hierarchical supercapacitor electrode in neutral aqueous solution. <i>Journal of Power Sources</i> , 2013, 242, 718-724.	4.0	60
27	AgI-BiOI-graphene composite photocatalysts with enhanced interfacial charge transfer and photocatalytic H ₂ production activity. <i>Applied Surface Science</i> , 2019, 469, 703-712.	3.1	58
28	Au@Nb@H x K1-xNbO ₃ nanopeapods with near-infrared active plasmonic hot-electron injection for water splitting. <i>Nature Communications</i> , 2018, 9, 232.	5.8	55
29	Nitrogen-Doped Graphene Quantum Dots for Remarkable Solar Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2020, 3, 5322-5332.	2.5	55
30	Fabrication of homojunction Cu ₂ O solar cells by electrochemical deposition. <i>Applied Surface Science</i> , 2015, 354, 8-13.	3.1	48
31	Microwave-activated CuO nanotip/ZnO nanorod nanoarchitectures for efficient hydrogen production. <i>Journal of Materials Chemistry</i> , 2011, 21, 324-326.	6.7	46
32	Template synthesis of copper oxide nanowires for photoelectrochemical hydrogen generation. <i>Journal of Electroanalytical Chemistry</i> , 2013, 704, 19-23.	1.9	44
33	Highly efficient nitrogen and carbon coordinated Ni-Co-C electrocatalysts on reduced graphene oxide derived from vitamin-B12 for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7179-7185.	5.2	41
34	Electrosynthesized Ni-P nanospheres with high activity and selectivity towards photoelectrochemical plastics reforming. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120351.	10.8	41
35	Facile Synthesis of Pt Nanoparticles/ZnO Nanorod Arrays for Photoelectrochemical Water Splitting. <i>Electrochimica Acta</i> , 2014, 120, 1-5.	2.6	38
36	Interfacial Engineered Vanadium Oxide Nanoheterostructures Synchronizing High-Energy and Long-Term Potassium-Ion Storage. <i>ACS Nano</i> , 2022, 16, 1502-1510.	7.3	35

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37	Silver nanowires on coffee filter as dual-sensing functionality for efficient and low-cost SERS substrate and electrochemical detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 189-195.	4.0	32
38	Two-Dimensional Cobalt Phosphate Hydroxide Nanosheets: A New Type of High-Performance Electrocatalysts with Intrinsic $\text{CoO}_{6/6}$ Lattice Distortion for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38633-38640.	4.0	31
39	Sandwich-Nanostructured $\text{n-Cu}_{2}\text{O}/\text{AuAg}/\text{p-Cu}_{2}\text{O}$ Photocathode with Highly Positive Onset Potential for Improved Water Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38625-38632.	4.0	30
40	Ternary PtRuNi Nanocatalysts Supported on N-Doped Carbon Nanotubes: Deposition Process, Material Characterization, and Electrochemistry. <i>Journal of the Electrochemical Society</i> , 2009, 156, B1249.	1.3	29
41	$\text{I}^{2}\text{-SnWO}_{4}$ Photocatalyst with Controlled Morphological Transition of Cubes to Spikecubes. <i>ACS Catalysis</i> , 2016, 6, 2357-2367.	5.5	29
42	Electrochemical growth and characterization of a p-Cu ₂ O thin film on n-ZnO nanorods for solar cell application. <i>RSC Advances</i> , 2014, 4, 7655.	1.7	28
43	Silver-decorated hierarchical cuprous oxide micro/nanospheres as highly effective surface-enhanced Raman scattering substrates. <i>Optics Express</i> , 2014, 22, 14617.	1.7	27
44	Photoelectrochemical activity on Ga-polar and N-polar GaN surfaces for energy conversion. <i>Optics Express</i> , 2014, 22, A21.	1.7	26
45	Spontaneous formation of CuO nanosheets on Cu foil for H ₂ O ₂ detection. <i>Applied Surface Science</i> , 2015, 354, 85-89.	3.1	26
46	Identifying the Active Sites of a Single Atom Catalyst with pH-Universal Oxygen Reduction Reaction Activity. <i>Cell Reports Physical Science</i> , 2020, 1, 100115.	2.8	26
47	Ionic liquid/surfactant-hydrothermal synthesis of dendritic PbS@CuS core-shell photocatalysts with improved photocatalytic performance. <i>Applied Surface Science</i> , 2021, 546, 149106.	3.1	26
48	Hierarchical Fe ₂ O ₃ nanotube/nickel foam electrodes for electrochemical energy storage. <i>Electrochimica Acta</i> , 2016, 216, 287-294.	2.6	25
49	Synthesis and characterization of H ₃ PW ₁₂ O ₄₀ /Ce _{0.1} Ti _{0.9} O ₂ for dimethyl carbonate formation via Methanol carbonation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22108-22122.	3.8	25
50	Study on Optoelectronic Characteristics of ZnGa ₂ O ₄ Thin-Film Phototransistors. <i>ACS Applied Electronic Materials</i> , 2019, 1, 783-788.	2.0	24
51	Photochemically active reduced graphene oxide with controllable oxidation level. <i>RSC Advances</i> , 2012, 2, 11258.	1.7	22
52	Electrochemical exploration of the effects of calcination temperature of a mesoporous zinc vanadate anode material on the performance of Na-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2653-2659.	3.0	22
53	Carbon-coated porous Si/C composite anode materials via two-step etching/coating processes for lithium-ion batteries. <i>Ceramics International</i> , 2020, 46, 26598-26607.	2.3	22
54	FeN@N-doped graphitic biochars derived from hydrothermal-microwave pyrolysis of cellulose biomass for fuel cell catalysts. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 153, 104991.	2.6	22

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55	O ₂ plasma-activated CuO-ZnO inverse opals as high-performance methanol microreformer. <i>Journal of Materials Chemistry</i> , 2010, 20, 10611.	6.7	21
56	Electrodeposited Fe ₂ TiO ₅ nanostructures for photoelectrochemical oxidation of water. <i>Electrochimica Acta</i> , 2016, 213, 898-903.	2.6	20
57	Tailoring the surface oxygen engineering of a carbon-quantum-dot-sensitized ZnO@H-ZnO _{1-x} multijunction toward efficient charge dynamics and photoactivity enhancement. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119846.	10.8	20
58	Cobalt-Phosphate-Assisted Photoelectrochemical Water Oxidation by Arrays of Molybdenum-Doped Zinc Oxide Nanorods. <i>ChemSusChem</i> , 2014, 7, 2748-2754.	3.6	19
59	Polarity-dependant Performance of p-Cu ₂ O/n-ZnO Heterojunction Solar Cells. <i>Electrochimica Acta</i> , 2014, 144, 295-299.	2.6	18
60	Preparation and characterization of V-Loaded titania nanotubes for adsorption/photocatalysis of basic dye and environmental hormone contaminated wastewaters. <i>Catalysis Today</i> , 2018, 307, 119-130.	2.2	18
61	Synthesis of Cu ₂ O nanoparticle films at room temperature for solar water splitting. <i>Journal of Colloid and Interface Science</i> , 2016, 471, 76-80.	5.0	17
62	Efficient hydrogen production using Cu-based catalysts prepared via homogeneous precipitation. <i>Journal of Materials Chemistry</i> , 2009, 19, 9186.	6.7	16
63	Tailoring the mesoporous ZnMn ₂ O ₄ spheres as anode materials with excellent cycle stability for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156018.	2.8	16
64	KSCN-activation of hydrogenated NiO/TiO ₂ for enhanced photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2020, 511, 145548.	3.1	15
65	Calcium containing iron oxide as an efficient and robust catalyst in (photo-)electrocatalytic water oxidation at neutral pH. <i>Sustainable Energy and Fuels</i> , 2018, 2, 271-279.	2.5	14
66	Synthesis of FeCo-N@N-doped carbon oxygen reduction catalysts via microwave-assisted ammoxidation. <i>Catalysis Science and Technology</i> , 2020, 10, 3949-3958.	2.1	14
67	Electron transfer dynamics and enhanced H ₂ production activity of hydrangea-like BiOBr/Bi ₂ S ₃ -based photocatalysts with Cu-complex as a redox mediator. <i>Applied Surface Science</i> , 2022, 576, 151870.	3.1	14
68	Extra Storage Capacity Enabled by Structural Defects in Pseudocapacitive NbN Monocrystals for High-Energy Hybrid Supercapacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
69	Synthesis and characterization of magnetic zinc and manganese ferrite catalysts for decomposition of carbon dioxide into methane. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22123-22137.	3.8	13
70	One-pot synthesis of CuFeSe ₂ cuboid nanoparticles. <i>Materials Research Bulletin</i> , 2011, 46, 2117-2119.	2.7	12
71	Thermally activated Cu/Cu ₂ S/ZnO nanoarchitectures with surface-plasmon-enhanced Raman scattering. <i>Journal of Colloid and Interface Science</i> , 2016, 464, 66-72.	5.0	12
72	Effective hydrogenation of TiO ₂ photocatalysts with CH ₃ OH for enhanced water splitting: A computational and X-ray study. <i>Applied Surface Science</i> , 2019, 488, 546-554.	3.1	11

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73	Microwave solvothermal synthesis of cubic MnS@Ag ₂ S core-shell photocatalysts with improved charge separation and photocatalytic activity. <i>Applied Surface Science</i> , 2021, 558, 149875.	3.1	11
74	Synergistic Effects of Plasmonic Gold and Perovskite-Type SrTiO ₃ for Enhanced Photocatalytic Performance of TiO ₂ Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24340-24349.	1.5	10
75	Electrophoretic deposition of PtRu nanoparticles on carbon nanotubes for methanol oxidation. <i>Diamond and Related Materials</i> , 2009, 18, 557-562.	1.8	9
76	Hierarchically Porous Calcium-containing Manganese Dioxide Nanorod Bundles with Superior Photoelectrochemical Activity. <i>ChemCatChem</i> , 2014, 6, 1684-1690.	1.8	9
77	Room-temperature fabrication of Cu nanobrushes as an effective surface-enhanced Raman scattering substrate. <i>CrystEngComm</i> , 2016, 18, 8284-8290.	1.3	8
78	Direct Synthesis of Bimetallic Pd ₃ Ag Nanoalloys from Bulk Pd ₃ Ag Alloy. <i>Inorganic Chemistry</i> , 2012, 51, 13281-13288.	1.9	7
79	Ligand-Promoted Cooperative Electrochemical Oxidation of Bio-Alcohol on Distorted Cobalt Hydroxides for Bio-Hydrogen Extraction. <i>ChemSusChem</i> , 2021, 14, 2612-2620.	3.6	6
80	Biomimicry of Cuscuta electrode design endows hybrid capacitor with ultrahigh energy density exceeding 2 mW h cm ⁻² at a power delivery of 25 mW cm ⁻² . <i>Journal of Materials Chemistry A</i> , 2017, 5, 4779-4784.	5.2	5
81	Hydrogenation engineering of bimetallic Ag-Cu-modified-titania photocatalysts for production of hydrogen. <i>Catalysis Today</i> , 2022, 388-389, 79-86.	2.2	4
82	Au-assisted methanol-hydrogenated titanium dioxide for photocatalytic evolution of hydrogen. <i>Catalysis Today</i> , 2020, 358, 143-148.	2.2	3
83	Exploring Lithium Storage Mechanism and Cycling Stability of Bi ₂ Mo ₃ O ₁₂ Binary Metal Oxide Anode Compositing with Ti ₃ C ₂ MXene. <i>Batteries and Supercaps</i> , 2020, 3, 1296-1305.	2.4	3