

Jun Jin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1283316/publications.pdf>

Version: 2024-02-01

75
papers

4,158
citations

87888

38
h-index

114465

63
g-index

75
all docs

75
docs citations

75
times ranked

5755
citing authors

#	ARTICLE	IF	CITATIONS
1	MOF derived Co ₃ O ₄ nanoparticles embedded in N-doped mesoporous carbon layer/MWCNT hybrids: extraordinary bi-functional electrocatalysts for OER and ORR. Journal of Materials Chemistry A, 2015, 3, 17392-17402.	10.3	351
2	Synthesis of Cu-MoS ₂ /rGO hybrid as non-noble metal electrocatalysts for the hydrogen evolution reaction. Journal of Power Sources, 2015, 292, 15-22.	7.8	214
3	Pd immobilized on amine-functionalized magnetite nanoparticles: a novel and highly active catalyst for hydrogenation and Heck reactions. Green Chemistry, 2011, 13, 1238.	9.0	203
4	Lateral-Size-Mediated Efficient Oxygen Evolution Reaction: Insights into the Atomically Thin Quantum Dot Structure of NiFe ₂ O ₄ . ACS Catalysis, 2017, 7, 5557-5567.	11.2	156
5	MoS ₂ quantum dot decorated RGO: a designed electrocatalyst with high active site density for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 21772-21778.	10.3	127
6	Self-assembly of cobalt-centered metal organic framework and multiwalled carbon nanotubes hybrids as a highly active and corrosion-resistant bifunctional oxygen catalyst. Journal of Power Sources, 2016, 326, 50-59.	7.8	118
7	Nitrogen-doped mesoporous carbon nanosheet/carbon nanotube hybrids as metal-free bi-functional electrocatalysts for water oxidation and oxygen reduction. Journal of Materials Chemistry A, 2016, 4, 13133-13141.	10.3	116
8	Ultrafine Co ₂ P nanoparticles encapsulated in nitrogen and phosphorus dual-doped porous carbon nanosheet/carbon nanotube hybrids: high-performance bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2016, 4, 15501-15510.	10.3	90
9	Covalent functionalization of black phosphorus nanoflakes by carbon free radicals for durable air and water stability. Nanoscale, 2018, 10, 5834-5839.	5.6	90
10	Engineering three-dimensional nitrogen-doped carbon black embedding nitrogen-doped graphene anchoring ultrafine surface-clean Pd nanoparticles as efficient ethanol oxidation electrocatalyst. Applied Catalysis B: Environmental, 2021, 280, 119464.	20.2	90
11	Precious-metal-free Co-Fe-O coupled nitrogen-enriched porous carbon nanosheets derived from Schiff-base porous polymers as superior electrocatalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 6505-6512.	10.3	89
12	Dual Modification of a BiVO ₄ Photoanode for Enhanced Photoelectrochemical Performance. ChemSusChem, 2018, 11, 2502-2509.	6.8	84
13	Highly dispersive Ag nanoparticles on functionalized graphene for an excellent electrochemical sensor of nitroaromatic compounds. Chemical Communications, 2011, 47, 12494.	4.1	81
14	Facile regrowth of Mg-Fe ₂ O ₃ /P-Fe ₂ O ₃ homojunction photoelectrode for efficient solar water oxidation. Journal of Materials Chemistry A, 2018, 6, 13412-13418.	10.3	80
15	In ₂ S ₃ /F-Fe ₂ O ₃ type-II heterojunction bonded by interfacial S-O for enhanced charge separation and transport in photoelectrochemical water oxidation. Applied Catalysis B: Environmental, 2022, 305, 121011.	20.2	79
16	Bamboo shoots shaped FeVO ₄ passivated ZnO nanorods photoanode for improved charge separation/transfer process towards efficient solar water splitting. Applied Catalysis B: Environmental, 2019, 257, 117813.	20.2	77
17	Enhanced-electrocatalytic activity of Ni _{1-x} Fe _x alloy supported on polyethyleneimine functionalized MoS ₂ nanosheets for hydrazine oxidation. RSC Advances, 2014, 4, 1988-1995.	3.6	76
18	Boosting Hole Transfer in the Fluorine-Doped Hematite Photoanode by Depositing Ultrathin Amorphous FeOOH/CoOOH Cocatalysts. ACS Applied Materials & Interfaces, 2020, 12, 49705-49712.	8.0	76

#	ARTICLE	IF	CITATIONS
19	Enhancing catalytic performance of Au catalysts by noncovalent functionalized graphene using functional ionic liquids. <i>Journal of Hazardous Materials</i> , 2014, 270, 11-17.	12.4	74
20	Construction of an efficient hole migration pathway on hematite for efficient photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23478-23485.	10.3	73
21	Ultrafine CoPS nanoparticles encapsulated in N, P, and S tri-doped porous carbon as an efficient bifunctional water splitting electrocatalyst in both acid and alkaline solutions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10433-10440.	10.3	72
22	NiO Nanoparticles Anchored on Phosphorus-Doped Fe_2O_3 Nanoarrays: An Efficient Hole Extraction π -n Heterojunction Photoanode for Water Oxidation. <i>ChemSusChem</i> , 2018, 11, 2156-2164.	6.8	69
23	Conformally Coupling CoAl-Layered Double Hydroxides on Fluorine-Doped Hematite: Surface and Bulk Co-Modification for Enhanced Photoelectrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29799-29806.	8.0	68
24	Magnetic Fe nanoparticle functionalized water-soluble multi-walled carbon nanotubes towards the preparation of sorbent for aromatic compounds removal. <i>Chemical Communications</i> , 2007, , 386-388.	4.1	67
25	Ni@Pd/PEI-rGO stack structures with controllable Pd shell thickness as advanced electrodes for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11261-11268.	10.3	64
26	Ultrafine palladium-gold-phosphorus ternary alloyed nanoparticles anchored on ionic liquids-noncovalently functionalized carbon nanotubes with excellent electrocatalytic property for ethanol oxidation reaction in alkaline media. <i>Journal of Catalysis</i> , 2017, 353, 256-264.	6.2	64
27	Facile growth of AgVO_3 nanoparticles on Mo-doped BiVO_4 film for enhanced photoelectrochemical water oxidation. <i>Chemical Engineering Journal</i> , 2019, 378, 122193.	12.7	63
28	In situ growth of Ni-Fe alloy on graphene-like MoS_2 for catalysis of hydrazine oxidation. <i>Journal of Materials Chemistry</i> , 2012, 22, 13925.	6.7	57
29	In situ growth of ultrathin Ni-Fe LDH nanosheets for high performance oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1173-1181.	6.0	57
30	Negatively charged 2D black phosphorus for highly efficient covalent functionalization. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1700-1706.	5.9	56
31	Controllable orientation-dependent crystal growth of high-index faceted dendritic $\text{NiC}_{0.2}$ nanosheets as high-performance bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18499-18508.	10.3	51
32	Polyethyleneimine decorated graphene oxide-supported Ni_1xFe_x bimetallic nanoparticles as efficient and robust electrocatalysts for hydrazine fuel cells. <i>Catalysis Science and Technology</i> , 2013, 3, 3155.	4.1	50
33	Palladium Nanoparticles Anchored on Three-Dimensional Nitrogen-Doped Carbon Nanotubes as a Robust Electrocatalyst for Ethanol Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7918-7923.	6.7	50
34	Surface Reconstruction of Cobalt Species on Amorphous Cobalt Silicate-Coated Fluorine-Doped Hematite for Efficient Photoelectrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47572-47580.	8.0	50
35	N,Cu-Codoped Carbon Nanosheet/ $\text{Au/CuBi}_2\text{O}_4$ Photocathodes for Efficient Photoelectrochemical Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7257-7264.	6.7	48
36	A highly active hydrazine fuel cell catalyst consisting of a Ni-Fe nanoparticle alloy plated on carbon materials by pulse reversal. <i>RSC Advances</i> , 2012, 2, 5038.	3.6	45

#	ARTICLE	IF	CITATIONS
37	Modulation of the Chemical Microenvironment at the Hematite-Based Photoanode Interface with a Covalent Triazine Framework for Efficient Photoelectrochemical Water Oxidation. <i>ACS Catalysis</i> , 2022, 12, 3700-3709.	11.2	44
38	Crystal lattice distortion in ultrathin Co(OH) ₂ nanosheets inducing elongated Co ²⁺ -O ²⁻ OH ⁻ bonds for highly efficient oxygen evolution reaction. <i>Green Chemistry</i> , 2017, 19, 5809-5817.	9.0	43
39	Heterojunction and Oxygen Vacancy Modification of ZnO Nanorod Array Photoanode for Enhanced Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2018, 11, 4094-4101.	6.8	42
40	Palladium nanoparticles anchored on NCNTs@NGS with a three-dimensional sandwich-stacked framework as an advanced electrocatalyst for ethanol oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14717-14724.	10.3	40
41	Layered Double Hydroxide onto Perovskite Oxide-Decorated ZnO Nanorods for Modulation of Carrier Transfer Behavior in Photoelectrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2452-2459.	8.0	40
42	Activating a hematite nanorod photoanode <i>via</i> fluorine-doping and surface fluorination for enhanced oxygen evolution reaction. <i>Nanoscale</i> , 2020, 12, 3259-3266.	5.6	40
43	Nitrogen-doped truncated carbon nanotubes inserted into nitrogen-doped graphene nanosheets with a sandwich structure: a highly efficient metal-free catalyst for the HER. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6405-6410.	10.3	38
44	Polythiophene coated CuBi ₂ O ₄ networks: A porous inorganic-organic hybrid heterostructure for enhanced photoelectrochemical hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2064-2072.	7.1	34
45	Microenvironment Effects in Electrocatalysis: Ionic-Liquid-Like Coating on Carbon Nanotubes Enhances the Pd-Electrocatalytic Alcohol Oxidation. <i>Chemistry - A European Journal</i> , 2013, 19, 2384-2391.	3.3	33
46	Palladium Nanoparticles with Surface Enrichment of Palladium Oxide Species Immobilized on the Aniline-Functionalized Graphene As an Advanced Electrocatalyst of Ethanol Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14621-14628.	6.7	31
47	2, 2 ^{-(phenylazanediyl) diacetic acid modified Fe₃O₄@PEI for selective removal of cadmium ions from blood. <i>Nanoscale</i>, 2012, 4, 733-736.}	5.6	30
48	Rationally Designed Heterojunction on a CuBi ₂ O ₄ Photocathode for Improved Activity and Stability during Photoelectrochemical Water Reduction. <i>ChemElectroChem</i> , 2019, 6, 3367-3374.	3.4	30
49	Facile fabrication of palladium-ionic liquids-nitrogen-doped graphene nanocomposites as enhanced electro-catalyst for ethanol oxidation. <i>Journal of Power Sources</i> , 2015, 294, 360-368.	7.8	29
50	A oxygen vacancy-modulated homojunction structural CuBi ₂ O ₄ photocathodes for efficient solar water reduction. <i>Nanoscale</i> , 2020, 12, 15193-15200.	5.6	29
51	The green synthesis of ultrafine palladium-phosphorus alloyed nanoparticles anchored on polydopamine functionalized graphene used as an excellent electrocatalyst for ethanol oxidation. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1881-1887.	6.0	28
52	Phosphorus Dual-Doped MoO ₂ Nanosheet/Multiwalled Carbon Nanotube Hybrid as Efficient Electrocatalyst for Hydrogen Evolution. <i>ChemElectroChem</i> , 2018, 5, 2660-2665.	3.4	26
53	Hole extraction and injection pathways constructed by the in situ growth of ultra-thin Fe-doped NiOOH Co-catalysts on a fluorine-doped I ₂ -Fe ₂ O ₃ photoanode. <i>Journal of Power Sources</i> , 2021, 482, 228957.	7.8	26
54	The role of reducing agent in perylene tetracarboxylic acid coating on graphene sheets enhances Pd nanoparticles-electrocatalytic ethanol oxidation. <i>Catalysis Science and Technology</i> , 2013, 3, 2303.	4.1	25

#	ARTICLE	IF	CITATIONS
55	Unraveling the Cooperative Synergy of Palladium/Tin Oxide/Aniline-Functionalized Carbon Nanotubes Enabled by Layer-by-Layer Synthetic Strategy for Ethanol Electrooxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10008-10015.	6.7	23
56	Ionic liquids-noncovalently functionalized multi-walled carbon nanotubes decorated with palladium nanoparticles: A promising electrocatalyst for ethanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12358-12368.	7.1	20
57	Nano-Cu-Mediated Multi-Site Approach to Ultrafine MoO ₂ Nanoparticles on Poly(diallyldimethylammonium chloride)-Decorated Reduced Graphene Oxide for Hydrogen Evolution Electrocatalysis. <i>ChemSusChem</i> , 2019, 12, 441-448.	6.8	19
58	Layer-by-layer fabrication of polydopamine functionalized carbon nanotubes-ceria-palladium nanohybrids for boosting ethanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13209-13216.	7.1	17
59	Dual-doping in the bulk and the surface to ameliorate the hematite anode for photoelectrochemical water oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 624, 60-69.	9.4	17
60	Synthesis of Novel Porphyrin and its Complexes Covalently Linked to Multi-Walled Carbon Nanotubes and Study of their Spectroscopy. <i>Nanoscale Research Letters</i> , 2009, 4, 578-583.	5.7	16
61	Bifunctional citrate-Ni _{0.9} Co _{0.1} (OH) _x layer coated fluorine-doped hematite for simultaneous hole extraction and injection towards efficient photoelectrochemical water oxidation. <i>Nanoscale</i> , 2021, 13, 14197-14206.	5.6	16
62	Mxene coupled over nitrogen-doped graphene anchoring palladium nanocrystals as an advanced electrocatalyst for the ethanol electrooxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 944-952.	9.4	16
63	Coaxial ultrathin Co _{1-x} Fe _x O _x nanosheet coating on carbon nanotubes for water oxidation with excellent activity. <i>RSC Advances</i> , 2016, 6, 80613-80620.	3.6	15
64	Achieving surface-sealing of hematite nanoarray photoanode with controllable metal-organic frameworks shell for enhanced photoelectrochemical water oxidation. <i>Journal of Catalysis</i> , 2022, 413, 398-406.	6.2	15
65	Synthesis of Ag nanoparticles decorated multiwalled carbon nanotubes using dialdehydestarch as complexant and reductant for antibacterial purposes. <i>RSC Advances</i> , 2013, 3, 918-922.	3.6	14
66	Polydopamine-functionalized multi-walled carbon nanotubes-supported palladium-lead bimetallic alloy nanoparticles as highly efficient and robust catalysts for ethanol oxidation. <i>RSC Advances</i> , 2016, 6, 90462-90469.	3.6	13
67	Revealing the Essential Role of Iron Phosphide and its Surface-Evolved Species in the Photoelectrochemical Water Oxidation by Gd-Doped Hematite Photoanode. <i>ChemSusChem</i> , 2022, 15, .	6.8	13
68	Decorating the Cocatalyst Membrane with Coordinated Tannic Acid and Ternary Metal for Advancing Photoelectrochemical Performance of F-Doped Hematite Photoanodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13047-13055.	6.7	12
69	Room chemical bath temperature deposition of Mn:FeOOH on BiVO ₄ photoanode to enhance water oxidation. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162571.	5.5	11
70	Coupling palladium nanocrystals over D-phenylalanine-functionalized carbon nanotubes as an advanced electrocatalyst for hydrogen evolution and ethanol oxidation. <i>Electrochimica Acta</i> , 2020, 364, 137290.	5.2	9
71	The enhanced water splitting activity of a ZnO-based photoanode by modification with self-doped lanthanum ferrite. <i>Nanoscale</i> , 2021, 13, 11215-11222.	5.6	9
72	Synergistic two- and three-dimensional morphology engineering of pyrite-type CoPS to boost hydrogen evolution over wide pH range. <i>Journal of Power Sources</i> , 2021, 484, 229144.	7.8	7

#	ARTICLE	IF	CITATIONS
73	Bismuth-containing SBA-15 Mesoporous Silica Catalysts for Solvent-Free Liquid-Phase Oxidation of Cyclohexane by Molecular Oxygen. <i>Helvetica Chimica Acta</i> , 2007, 90, 1837-1847.	1.6	6
74	Spinel-type ferrites decorated ZnO for enhanced photoelectrochemical water splitting. <i>Optical Materials</i> , 2022, 129, 112451.	3.6	5
75	In situ growth of monodispersed Fe ₃ O ₄ nanoparticles on graphene for the removal of heavy metals and aromatic compounds. <i>Water Science and Technology</i> , 2013, 68, 2351-2358.	2.5	2