

Xiaodong Yan

List of Publications by Year in descending order

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83
papers

3,902
citations

126907

33
h-index

128289

60
g-index

84
all docs

84
docs citations

84
times ranked

5642
citing authors

#	ARTICLE	IF	CITATIONS
1	Intercalation-induced partial exfoliation of NiFe LDHs with abundant active edge sites for highly enhanced oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1353-1361.	9.4	21
2	Phase-dependent catalytic performance of MnO ₂ for solvent-free oxidation of ethylbenzene with molecular oxygen. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121050.	20.2	25
3	Experimental and theoretical investigation of the tuning of electronic structure in SnO ₂ via Co doping for enhanced styrene epoxidation catalysis. <i>Catalysis Science and Technology</i> , 2022, 12, 1499-1511.	4.1	13
4	Promoted selective oxidation of ethylbenzene in liquid phase achieved by hollow CeVO ₄ microspheres. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 102-109.	9.4	18
5	Steered polymorphic nanodomains in TiO ₂ to boost visible-light photocatalytic oxidation. <i>RSC Advances</i> , 2022, 12, 9660-9670.	3.6	1
6	Revealing the surface structure-performance relationship of interface-engineered NiFe alloys for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 986-994.	9.4	23
7	Tailored Ceramic-Metal Piezocomposite Energy Harvester with High Current Output by Controlling the Electrical Impedance. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3679-3685.	4.3	6
8	Sulfur-doped NiCo carbonate hydroxide with surface sulfate groups for highly enhanced electro-oxidation of urea. <i>Electrochimica Acta</i> , 2022, 426, 140792.	5.2	10
9	Ultrafine-grained NiCo layered double hydroxide nanosheets with abundant active edge sites for highly enhanced electro-oxidation of urea. <i>Electrochimica Acta</i> , 2021, 368, 137648.	5.2	27
10	Tailoring the catalytic activity of nickel sites in NiFe ₂ O ₄ by cobalt substitution for highly enhanced oxygen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2668-2677.	4.9	12
11	Surface-reconstructed formation of hierarchical TiO ₂ mesoporous nanosheets with fast lithium-storage capability. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3216-3225.	5.9	16
12	Single crystal to single crystal transformation of spin-crossover coordination polymers from 3D frameworks to 2D layers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5082-5087.	5.5	6
13	In-situ generated Ni-MOF/LDH heterostructures with abundant phase interfaces for enhanced oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119906.	20.2	133
14	A 3D Anionic Metal Covalent Organic Framework with soc Topology Built from an Octahedral Ti ^{IV} Complex for Photocatalytic Reactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17881-17886.	13.8	61
15	Cerium oxide carbonate/nickel hydroxide hybrid nanowires with enhanced performance and stability for urea electrooxidation. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115457.	3.8	7
16	Hierarchical NiCr hydroxide nanospheres with tunable domain boundaries for highly efficient urea electro-oxidation. <i>Electrochimica Acta</i> , 2021, 388, 138633.	5.2	19
17	Interface-strain-confined synthesis of amorphous TiO ₂ mesoporous nanosheets with stable pseudocapacitive lithium storage. <i>Chemical Engineering Journal</i> , 2021, 420, 129894.	12.7	28
18	Effect of direct current and alternating current poling on the piezoelectric properties of Ba _{0.85} Ca _{0.15} Ti _{0.9} Zr _{0.1} O ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27815.	2.2	4

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19	2D Salphen-based heteropore covalent organic frameworks for highly efficient electrocatalytic water oxidation. <i>Chemical Communications</i> , 2021, 57, 13162-13165.	4.1	12
20	Robust, Superelastic Hard Carbon with In Situ Ultrafine Crystals. <i>Advanced Functional Materials</i> , 2020, 30, 1907486.	14.9	20
21	A 2D covalent organic framework involving strong intramolecular hydrogen bonds for advanced supercapacitors. <i>Polymer Chemistry</i> , 2020, 11, 47-52.	3.9	50
22	Room-temperature synthesis of Ni _{1-x} Fe _x (oxy)hydroxides: structure-activity relationship for the oxygen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2020, 4, 932-939.	4.9	6
23	Hierarchical trimetallic layered double hydroxide nanosheets derived from 2D metal-organic frameworks for enhanced oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118532.	20.2	62
24	Soft and Hard Piezoelectric Ceramics for Vibration Energy Harvesting. <i>Crystals</i> , 2020, 10, 907.	2.2	24
25	Bonding Fe(hafc)2TDMA onto the surface of nickel metal organic frameworks for highly efficient oxygen evolution reaction. <i>Materials Letters</i> , 2020, 277, 128339.	2.6	2
26	High-performance lead-free ferroelectric BZT-BCT and its application in energy fields. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13530-13556.	5.5	42
27	Bivariate Metal-Organic Frameworks with Tunable Spin-Crossover Properties. <i>Chemistry - A European Journal</i> , 2020, 26, 12472-12480.	3.3	6
28	NiCo layered double hydroxide/hydroxide nanosheet heterostructures for highly efficient electro-oxidation of urea. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19206-19213.	7.1	61
29	Supramolecular assemblies based on Fe ₈ L ₁₂ cubic metal-organic cages: synergistic adsorption and spin-crossover properties. <i>Dalton Transactions</i> , 2020, 49, 4220-4224.	3.3	9
30	Versatile bifunctional nitrogen-doped porous carbon derived from biomass in catalytic reduction of 4-nitrophenol and oxidation of styrene. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1217-1229.	14.0	36
31	An Ultra-microporous Carbon Material Boosting Integrated Capacitance for Cellulose-Based Supercapacitors. <i>Nano-Micro Letters</i> , 2020, 12, 63.	27.0	81
32	A two-dimensional semiconducting covalent organic framework with nickel coordination for high capacitive performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19676-19681.	10.3	68
33	Diarylethene-based conjugated polymer networks for ultrafast photochromic films. <i>New Journal of Chemistry</i> , 2019, 43, 15797-15803.	2.8	7
34	Defects-rich nickel nanoparticles grown on nickel foam as integrated electrodes for electrocatalytic oxidation of urea. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27664-27670.	7.1	26
35	Ultrafine MoO ₃ nanoparticles embedded in porous carbon nanofibers as anodes for high-performance lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2019, 3, 120-126.	5.9	25
36	A zeolite supramolecular framework with LTA topology based on a tetrahedral metal-organic cage. <i>Chemical Communications</i> , 2019, 55, 1120-1123.	4.1	22

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37	Metal-organic layer derived metal hydroxide nanosheets for highly efficient oxygen evolution. <i>Chemical Communications</i> , 2019, 55, 5467-5470.	4.1	33
38	Camphor wood waste-derived microporous carbons as high-performance electrode materials for supercapacitors. <i>Carbon Letters</i> , 2019, 29, 213-218.	5.9	11
39	Three-dimensional porphyrin-based covalent organic frameworks with tetrahedral building blocks for single-site catalysis. <i>New Journal of Chemistry</i> , 2019, 43, 16907-16914.	2.8	28
40	Li ₄ Ti ₅ O ₁₂ nanosheets assembled in tubular architecture for lithium storage. <i>Chemical Engineering Journal</i> , 2019, 361, 1371-1380.	12.7	33
41	Selective oxidation of <i>o</i> -chlorotoluene to <i>o</i> -chlorobenzaldehyde catalyzed by (Co,Mn) ₂ O ₄ catalysts. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 1746-1751.	1.7	12
42	NiCo ₂ O ₄ nanoneedle-assembled hierarchical microflowers for highly selective oxidation of styrene. <i>Catalysis Communications</i> , 2018, 109, 71-75.	3.3	32
43	Electrochemically tuned cobalt hydroxide carbonate with abundant grain boundaries for highly efficient electro-oxidation of hydrazine. <i>Materials Chemistry Frontiers</i> , 2018, 2, 369-375.	5.9	10
44	Hierarchical nano-on-micro copper with enhanced catalytic activity towards electro-oxidation of hydrazine. <i>Frontiers of Materials Science</i> , 2018, 12, 45-52.	2.2	4
45	Hollow urchin-like NiO/NiCo ₂ O ₄ heterostructures as highly efficient catalysts for selective oxidation of styrene. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 295-301.	9.4	40
46	Crystalline-amorphous Co@CoO core-shell heterostructures for efficient electro-oxidation of hydrazine. <i>Materials Chemistry Frontiers</i> , 2018, 2, 96-101.	5.9	29
47	Tunable pseudocapacitive contribution in nanosheet-constructed titania hierarchical tubes to achieve superior lithium-storage properties by phase control. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24298-24310.	10.3	23
48	Tetrahedral metal-organic cages with cube-like cavities for selective encapsulation of fullerene guests and their spin-crossover properties. <i>Chemical Communications</i> , 2018, 54, 12646-12649.	4.1	36
49	Self-Reconstructed Formation of a One-Dimensional Hierarchical Porous Nanostructure Assembled by Ultrathin TiO ₂ Nanobelts for Fast and Stable Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19047-19058.	8.0	27
50	One-pot synthesis of a highly porous anionic hypercrosslinked polymer for ultrafast adsorption of organic pollutants. <i>Polymer Chemistry</i> , 2018, 9, 4724-4732.	3.9	59
51	Phase-separation induced hollow/porous carbon nanofibers containing in situ generated ultrafine SnO _x as anode materials for lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1331-1337.	5.9	32
52	Synthesis and Properties of Hydrogenated Black TiO ₂ Nanomaterials. , 2017, , 5-32.		2
53	Three-dimensional nitrogen-doped graphene foam as metal-free catalyst for the hydrogenation reduction of p-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 102-107.	9.4	78
54	Resin-derived activated carbons with in-situ nitrogen doping and high specific surface area for high-performance supercapacitors. <i>Materials Letters</i> , 2017, 191, 178-181.	2.6	11

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55	Metallic cobalt nanoparticles imbedded into ordered mesoporous carbon: A non-precious metal catalyst with excellent hydrogenation performance. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 789-795.	9.4	52
56	Black Titanium Dioxide Nanomaterials in Photocatalysis. <i>International Journal of Photoenergy</i> , 2017, 2017, 1-16.	2.5	39
57	Modifying oxide nanomaterials's properties by hydrogenation. <i>MRS Communications</i> , 2016, 6, 192-203.	1.8	15
58	The origin of the strong microwave absorption in black TiO ₂ . <i>Applied Physics Letters</i> , 2016, 108, 183102.	3.3	32
59	Eco-Friendly Fabricated Porous Carbon Nanofibers Decorated with Nanosized SnO _x as High-Performance Lithium-Ion Battery Anodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2951-2959.	6.7	34
60	Tertiary butyl hydroquinone as a novel additive for SEI film formation in lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 42885-42891.	3.6	13
61	FeNi ₃ /NiFeO _x Nanohybrids as Highly Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600368.	3.7	84
62	Black Titanium Dioxide (TiO ₂) Nanomaterials. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2016, , 1-26.	0.1	2
63	Phosphorus groups assisted growth of vertically oriented polyaniline nanothorns on N/P co-doped carbon nanofibers for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2016, 216, 355-363.	5.2	9
64	Electrochemical Activity of Iron Phosphide Nanoparticles in Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2016, 6, 5441-5448.	11.2	197
65	One-pot, large-scale, simple synthesis of Co _x P nanocatalysts for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13011-13016.	10.3	59
66	Converting CoMoO ₄ into CoO/MoO _x for Overall Water Splitting by Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3743-3749.	6.7	134
67	Ag nanoparticles/hematite mesocrystals superstructure composite: a facile synthesis and enhanced heterogeneous photo-Fenton activity. <i>Catalysis Science and Technology</i> , 2016, 6, 4184-4191.	4.1	37
68	From Water Oxidation to Reduction: Transformation from Ni _x Co ₃ O ₄ Nanowires to NiCo/NiCoO _x Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3208-3214.	8.0	143
69	Partially amorphized MnMoO ₄ for highly efficient energy storage and the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3683-3688.	10.3	86
70	Hydrogenation effects on the lithium ion battery performance of TiOF ₂ . <i>Journal of Power Sources</i> , 2016, 306, 309-316.	7.8	24
71	Mesoporous TiO ₂ nanoparticles terminated with carbonate-like groups: Amorphous/crystalline structure and visible-light photocatalytic activity. <i>Catalysis Today</i> , 2016, 264, 243-249.	4.4	37
72	Ag ₂ Mo ₃ O ₁₀ Nanorods Decorated with Ag ₂ S Nanoparticles: Visible-Light Photocatalytic Activity, Photostability, and Charge Transfer. <i>Chemistry - A European Journal</i> , 2015, 21, 18711-18716.	3.3	22

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73	TiO ₂ Nanomaterials as Anode Materials for Lithium-ion Rechargeable Batteries. Energy Technology, 2015, 3, 801-814.	3.8	79
74	Effect of hydrogenation on the microwave absorption properties of BaTiO ₃ nanoparticles. Journal of Materials Chemistry A, 2015, 3, 12550-12556.	10.3	108
75	Self-improving anodes for lithium-ion batteries: continuous interlamellar spacing expansion induced capacity increase in polydopamine-derived nitrogen-doped carbon tubes during cycling. Journal of Materials Chemistry A, 2015, 3, 20880-20885.	10.3	41
76	Crystalline/amorphous Ni/NiO core/shell nanosheets as highly active electrocatalysts for hydrogen evolution reaction. Journal of Power Sources, 2015, 300, 336-343.	7.8	251
77	Three-Dimensional Crystalline/Amorphous Co/Co ₃ O ₄ Core/Shell Nanosheets as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. Nano Letters, 2015, 15, 6015-6021.	9.1	485
78	Sustainable activated carbon fibers from liquefied wood with controllable porosity for high-performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 11706-11715.	10.3	129
79	Nitrogen/phosphorus co-doped nonporous carbon nanofibers for high-performance supercapacitors. Journal of Power Sources, 2014, 248, 745-751.	7.8	147
80	Effects of electrolytes on the capacitive behavior of nitrogen/phosphorus co-doped nonporous carbon nanofibers: an insight into the role of phosphorus groups. RSC Advances, 2014, 4, 24986-24990.	3.6	56
81	Ti-doped SnOx encapsulated in Carbon nanofibers with enhanced lithium storage properties. Electrochimica Acta, 2014, 137, 9-16.	5.2	20
82	Simple and scalable synthesis of phosphorus and nitrogen enriched porous carbons with high volumetric capacitance. Electrochimica Acta, 2014, 136, 466-472.	5.2	49
83	Improving the cyclability and rate capability of carbon nanofiber anodes through in-site generation of SiOx-rich overlayers. Electrochimica Acta, 2013, 108, 196-202.	5.2	15