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	Three-Dimensional Crystalline/Amorphous Co/Co₃O₄ Core/Shell Nanosheets as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. Nano Letters, 2015, 15, 6015-6021.	9.1	485
2	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
3	Electrochemical Activity of Iron Phosphide Nanoparticles in Hydrogen Evolution Reaction. ACS Catalysis, 2016, 6, 5441-5448.	11.2	197
4	Nitrogen/phosphorus co-doped nonporous carbon nanofibers for high-performance supercapacitors. Journal of Power Sources, 2014, 248, 745-751.	7.8	147
5	From Water Oxidation to Reduction: Transformation from Ni_xCo_{3â€“x}O₄ Nanowires to NiCo/NiCoO_x Heterostructures. ACS Applied Materials & Interfaces, 2016, 8, 3208-3214.	8.0	143
6	Converting CoMoO₄ into CoO/MoO_x for Overall Water Splitting by Hydrogenation. ACS Sustainable Chemistry and Engineering, 2016, 4, 3743-3749.	6.7	134
7	In-situ generated Ni-MOF/LDH heterostructures with abundant phase interfaces for enhanced oxygen evolution reaction. Applied Catalysis B: Environmental, 2021, 286, 119906.	20.2	133
8	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
9	Effect of hydrogenation on the microwave absorption properties of BaTiO₃ nanoparticles. Journal of Materials Chemistry A, 2015, 3, 12550-12556.	10.3	108
10	Partially amorphized MnMoO₄for highly efficient energy storage and the hydrogen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 3683-3688.	10.3	86
11	FeNi₃/NiFeO_x Nanohybrids as Highly Efficient Bifunctional Electrocatalysts for Overall Water Splitting. Advanced Materials Interfaces, 2016, 3, 1600368.	3.7	84
12	An Ultra-microporous Carbon Material Boosting Integrated Capacitance for Cellulose-Based Supercapacitors. Nano-Micro Letters, 2020, 12, 63.	27.0	81
13	TiO₂ Nanomaterials as Anode Materials for Lithiumâ€ion Rechargeable Batteries. Energy Technology, 2015, 3, 801-814.	3.8	79
14	Three-dimensional nitrogen-doped graphene foam as metal-free catalyst for the hydrogenation reduction of p-nitrophenol. Journal of Colloid and Interface Science, 2017, 497, 102-107.	9.4	78
15	A two-dimensional semiconducting covalent organic framework with nickel(<scp>ii</scp>) coordination for high capacitive performance. Journal of Materials Chemistry A, 2019, 7, 19676-19681.	10.3	68
16	Hierarchical trimetallic layered double hydroxide nanosheets derived from 2D metal-organic frameworks for enhanced oxygen evolution reaction. Applied Catalysis B: Environmental, 2020, 264, 118532.	20.2	62
17	NiCo layered double hydroxide/hydroxide nanosheet heterostructures for highly efficient electro-oxidation of urea. International Journal of Hydrogen Energy, 2020, 45, 19206-19213.	7.1	61
18	A 3D Anionic Metal Covalent Organic Framework with soc Topology Built from an Octahedral Ti^{IV} Complex for Photocatalytic Reactions. Angewandte Chemie - International Edition, 2021, 60, 17881-17886.	13.8	61

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19	One-pot, large-scale, simple synthesis of Co_xP nanocatalysts for electrochemical hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 13011-13016.	10.3	59
20	One-pot synthesis of a highly porous anionic hypercrosslinked polymer for ultrafast adsorption of organic pollutants. Polymer Chemistry, 2018, 9, 4724-4732.	3.9	59
21	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
22	Metallic cobalt nanoparticles imbedded into ordered mesoporous carbon: A non-precious metal catalyst with excellent hydrogenation performance. Journal of Colloid and Interface Science, 2017, 505, 789-795.	9.4	52
23	A 2D covalent organic framework involving strong intramolecular hydrogen bonds for advanced supercapacitors. Polymer Chemistry, 2020, 11, 47-52.	3.9	50
24	Simple and scalable synthesis of phosphorus and nitrogen enriched porous carbons with high volumetric capacitance. Electrochimica Acta, 2014, 136, 466-472.	5.2	49
25	High-performance lead-free ferroelectric BZTâ€“BCT and its application in energy fields. Journal of Materials Chemistry C, 2020, 8, 13530-13556.	5.5	42
26	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
27	Hollow urchin-like NiO/NiCo2O4 heterostructures as highly efficient catalysts for selective oxidation of styrene. Journal of Colloid and Interface Science, 2018, 526, 295-301.	9.4	40
28	Black Titanium Dioxide Nanomaterials in Photocatalysis. International Journal of Photoenergy, 2017, 2017, 1-16.	2.5	39
29	Ag nanoparticles/hematite mesocrystals superstructure composite: a facile synthesis and enhanced heterogeneous photo-Fenton activity. Catalysis Science and Technology, 2016, 6, 4184-4191.	4.1	37
30	Mesoporous TiO2 nanoparticles terminated with carbonate-like groups: Amorphous/crystalline structure and visible-light photocatalytic activity. Catalysis Today, 2016, 264, 243-249.	4.4	37
31	Tetrahedral metalâ€“organic cages with cube-like cavities for selective encapsulation of fullerene guests and their spin-crossover properties. Chemical Communications, 2018, 54, 12646-12649.	4.1	36
32	Versatile bifunctional nitrogen-doped porous carbon derived from biomass in catalytic reduction of 4-nitrophenol and oxidation of styrene. Chinese Journal of Catalysis, 2020, 41, 1217-1229.	14.0	36
33	Eco-Friendly Fabricated Porous Carbon Nanofibers Decorated with Nanosized SnO_x as High-Performance Lithium-Ion Battery Anodes. ACS Sustainable Chemistry and Engineering, 2016, 4, 2951-2959.	6.7	34
34	Metalâ€“organic layer derived metal hydroxide nanosheets for highly efficient oxygen evolution. Chemical Communications, 2019, 55, 5467-5470.	4.1	33
35	Li4Ti5O12 nanosheets assembled in tubular architecture for lithium storage. Chemical Engineering Journal, 2019, 361, 1371-1380.	12.7	33
36	The origin of the strong microwave absorption in black TiO2. Applied Physics Letters, 2016, 108, 183102.	3.3	32

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37	Phase-separation induced hollow/porous carbon nanofibers containing in situ generated ultrafine SnO_x as anode materials for lithium-ion batteries. Materials Chemistry Frontiers, 2017, 1, 1331-1337.	5.9	32
38	NiCo2O4 nanoneedle-assembled hierarchical microflowers for highly selective oxidation of styrene. Catalysis Communications, 2018, 109, 71-75.	3.3	32
39	Crystallineâ€“amorphous Co@CoO coreâ€“shell heterostructures for efficient electro-oxidation of hydrazine. Materials Chemistry Frontiers, 2018, 2, 96-101.	5.9	29
40	Three-dimensional porphyrin-based covalent organic frameworks with tetrahedral building blocks for single-site catalysis. New Journal of Chemistry, 2019, 43, 16907-16914.	2.8	28
41	Interface-strain-confined synthesis of amorphous TiO2 mesoporous nanosheets with stable pseudocapacitive lithium storage. Chemical Engineering Journal, 2021, 420, 129894.	12.7	28
42	Self-Reconstructed Formation of a One-Dimensional Hierarchical Porous Nanostructure Assembled by Ultrathin TiO₂ Nanobelts for Fast and Stable Lithium Storage. ACS Applied Materials & Interfaces, 2018, 10, 19047-19058.	8.0	27
43	Ultrafine-grained NiCo layered double hydroxide nanosheets with abundant active edge sites for highly enhanced electro-oxidation of urea. Electrochimica Acta, 2021, 368, 137648.	5.2	27
44	Defects-rich nickel nanoparticles grown on nickel foam as integrated electrodes for electrocatalytic oxidation of urea. International Journal of Hydrogen Energy, 2019, 44, 27664-27670.	7.1	26
45	Ultrafine MoO₃ nanoparticles embedded in porous carbon nanofibers as anodes for high-performance lithium-ion batteries. Materials Chemistry Frontiers, 2019, 3, 120-126.	5.9	25
46	Phase-dependent catalytic performance of MnO2 for solvent-free oxidation of ethybenzene with molecular oxygen. Applied Catalysis B: Environmental, 2022, 305, 121050.	20.2	25
47	Hydrogenation effects on the lithium ion battery performance of TiOF2. Journal of Power Sources, 2016, 306, 309-316.	7.8	24
48	Soft and Hard Piezoelectric Ceramics for Vibration Energy Harvesting. Crystals, 2020, 10, 907.	2.2	24
49	Tunable pseudocapacitive contribution in nanosheet-constructed titania hierarchical tubes to achieve superior lithium-storage properties by phase control. Journal of Materials Chemistry A, 2018, 6, 24298-24310.	10.3	23
50	Revealing the surface structure-performance relationship of interface-engineered NiFe alloys for oxygen evolution reaction. Journal of Colloid and Interface Science, 2022, 622, 986-994.	9.4	23
51	Ag₂Mo₃O₁₀ Nanorods Decorated with Ag₂S Nanoparticles: Visibleâ€Light Photocatalytic Activity, Photostability, and Charge Transfer. Chemistry - A European Journal, 2015, 21, 18711-18716.	3.3	22
52	A zeolite supramolecular framework with LTA topology based on a tetrahedral metalâ€“organic cage. Chemical Communications, 2019, 55, 1120-1123.	4.1	22
53	Intercalation-induced partial exfoliation of NiFe LDHs with abundant active edge sites for highly enhanced oxygen evolution reaction. Journal of Colloid and Interface Science, 2022, 607, 1353-1361.	9.4	21
54	Ti-doped SnOx encapsulated in Carbon nanofibers with enhanced lithium storage properties. Electrochimica Acta, 2014, 137, 9-16.	5.2	20

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55	Robust, Superelastic Hard Carbon with In Situ Ultrafine Crystals. Advanced Functional Materials, 2020, 30, 1907486.	14.9	20
56	Hierarchical NiCr hydroxide nanospheres with tunable domain boundaries for highly efficient urea electro-oxidation. Electrochimica Acta, 2021, 388, 138633.	5.2	19
57	Promoted selective oxidation of ethylbenzene in liquid phase achieved by hollow CeVO4 microspheres. Journal of Colloid and Interface Science, 2022, 614, 102-109.	9.4	18
58	Surface-reconstructed formation of hierarchical TiO₂ mesoporous nanosheets with fast lithium-storage capability. Materials Chemistry Frontiers, 2021, 5, 3216-3225.	5.9	16
59	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
60	Modifying oxide nanomaterialsâ€™ properties by hydrogenation. MRS Communications, 2016, 6, 192-203.	1.8	15
61	Tertiary butyl hydroquinone as a novel additive for SEI film formation in lithium-ion batteries. RSC Advances, 2016, 6, 42885-42891.	3.6	13
62	Experimental and theoretical investigation of the tuning of electronic structure in SnO₂viaCo doping for enhanced styrene epoxidation catalysis. Catalysis Science and Technology, 2022, 12, 1499-1511.	4.1	13
63	Selective oxidation of oâ€chlorotoluene to oâ€chlorobenzaldehyde catalyzed by (Co,Mn)(Co,Mn)₂O₄ catalysts. Canadian Journal of Chemical Engineering, 2018, 96, 1746-1751.	1.7	12
64	Tailoring the catalytic activity of nickel sites in NiFe₂O₄ by cobalt substitution for highly enhanced oxygen evolution reaction. Sustainable Energy and Fuels, 2021, 5, 2668-2677.	4.9	12
65	2D Salphen-based heteropore covalent organic frameworks for highly efficient electrocatalytic water oxidation. Chemical Communications, 2021, 57, 13162-13165.	4.1	12
66	Resin-derived activated carbons with in-situ nitrogen doping and high specific surface area for high-performance supercapacitors. Materials Letters, 2017, 191, 178-181.	2.6	11
67	Camphor wood waste-derived microporous carbons as high-performance electrode materials for supercapacitors. Carbon Letters, 2019, 29, 213-218.	5.9	11
68	Electrochemically tuned cobalt hydroxide carbonate with abundant grain boundaries for highly efficient electro-oxidation of hydrazine. Materials Chemistry Frontiers, 2018, 2, 369-375.	5.9	10
69	Sulfur-doped NiCo carbonate hydroxide with surface sulfate groups for highly enhanced electro-oxidation of urea. Electrochimica Acta, 2022, 426, 140792.	5.2	10
70	Phosphorus groups assisted growth of vertically oriented polyaniline nanothorns on N/P co-doped carbon nanofibers for high-performance supercapacitors. Electrochimica Acta, 2016, 216, 355-363.	5.2	9
71	Supramolecular assemblies based on Fe₈L₁₂cubic metalâ€“organic cages: synergistic adsorption and spin-crossover properties. Dalton Transactions, 2020, 49, 4220-4224.	3.3	9
72	Diarylethene-based conjugated polymer networks for ultrafast photochromic films. New Journal of Chemistry, 2019, 43, 15797-15803.	2.8	7

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73	Cerium oxide carbonate/nickel hydroxide hybrid nanowires with enhanced performance and stability for urea electrooxidation. Journal of Electroanalytical Chemistry, 2021, 895, 115457.	3.8	7
74	Room-temperature synthesis of Ni_{1â^'x}Fe_x (oxy)hydroxides: structureâ€“activity relationship for the oxygen evolution reaction. Sustainable Energy and Fuels, 2020, 4, 932-939.	4.9	6
75	Bivariate Metalâ€“Organic Frameworks with Tunable Spinâ€Crossover Properties. Chemistry - A European Journal, 2020, 26, 12472-12480.	3.3	6
76	Single crystal to single crystal transformation of spin-crossover coordination polymers from 3D frameworks to 2D layers. Journal of Materials Chemistry C, 2021, 9, 5082-5087.	5.5	6
77	Tailored Ceramicâ€“Metal Piezocomposite Energy Harvester with High Current Output by Controlling the Electrical Impedance. ACS Applied Electronic Materials, 2022, 4, 3679-3685.	4.3	6
78	Hierarchical nano-on-micro copper with enhanced catalytic activity towards electro-oxidation of hydrazine. Frontiers of Materials Science, 2018, 12, 45-52.	2.2	4
79	Effect of direct current and alternating current poling on the piezoelectric properties of Ba0.85Ca0.15Ti0.9Zr0.1O3 ceramics. Journal of Materials Science: Materials in Electronics, 2021, 32, 27815.	2.2	4
80	Black Titanium Dioxide (TiO₂) Nanomaterials. World Scientific Series in Nanoscience and Nanotechnology, 2016, , 1-26.	0.1	2
81	Synthesis and Properties of Hydrogenated Black TiO₂ Nanomaterials. , 2017, , 5-32.		2
82	Bonding Fe(hafc)2TDMA onto the surface of nickel metal organic frameworks for highly efficient oxygen evolution reaction. Materials Letters, 2020, 277, 128339.	2.6	2
83	Steered polymorphic nanodomains in TiO₂ to boost visible-light photocatalytic oxidation. RSC Advances, 2022, 12, 9660-9670.	3.6	1