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List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Oxygenâ€Deficient Hematite Nanorods as Highâ€Performance and Novel Negative Electrodes for Flexible Asymmetric Supercapacitors. Advanced Materials, 2014, 26, 3148-3155.	21.0	838
2	A review of carbon materials and their composites with alloy metals for sodium ion battery anodes. Carbon, 2016, 98, 162-178.	10.3	527
3	Recent advances in metal nitrides as high-performance electrode materials for energy storage devices. Journal of Materials Chemistry A, 2015, 3, 1364-1387.	10.3	396
4	Oxygen Vacancy Induced Bismuth Oxyiodide with Remarkably Increased Visible-Light Absorption and Superior Photocatalytic Performance. ACS Applied Materials & amp; Interfaces, 2014, 6, 22920-22927.	8.0	370
5	Updates on the development of nanostructured transition metal nitrides for electrochemical energy storage and water splitting. Materials Today, 2017, 20, 425-451.	14.2	339
6	Bifunctional catalytic material: An ultrastable and high-performance surface defect CeO2 nanosheets for formaldehyde thermal oxidation and photocatalytic oxidation. Applied Catalysis B: Environmental, 2016, 181, 779-787.	20.2	268
7	Adsorption energy engineering of nickel oxide hybrid nanosheets for high areal capacity flexible lithium-ion batteries. Energy Storage Materials, 2020, 25, 41-51.	18.0	261
8	Nitrogen treatment generates tunable nanohybridization of Ni5P4 nanosheets with nickel hydr(oxy)oxides for efficient hydrogen production in alkaline, seawater and acidic media. Applied Catalysis B: Environmental, 2019, 251, 181-194.	20.2	260
9	Charge Relays via Dual Carbonâ€Actions on Nanostructured BiVO ₄ for High Performance Photoelectrochemical Water Splitting. Advanced Functional Materials, 2022, 32, .	14.9	219
10	Achieving high gravimetric energy density for flexible lithium-ion batteries facilitated by core–double-shell electrodes. Energy and Environmental Science, 2018, 11, 1859-1869.	30.8	216
11	Three-dimensional nickel nitride (Ni ₃ N) nanosheets: free standing and flexible electrodes for lithium ion batteries and supercapacitors. Journal of Materials Chemistry A, 2016, 4, 9844-9849.	10.3	203
12	A review of the development of full cell lithium-ion batteries: The impact of nanostructured anode materials. Nano Research, 2016, 9, 2823-2851.	10.4	198
13	A monolithic metal-free electrocatalyst for oxygen evolution reaction and overall water splitting. Energy and Environmental Science, 2016, 9, 3411-3416.	30.8	197
14	High power density nitridated hematite (α-Fe2O3) nanorods as anode for high-performance flexible lithium ion batteries. Journal of Power Sources, 2016, 308, 7-17.	7.8	182
15	Binder-free Fe2N nanoparticles on carbon textile with high power density as novel anode for high-performance flexible lithium ion batteries. Nano Energy, 2015, 11, 348-355.	16.0	180
16	Costâ€Effective Alkaline Water Electrolysis Based on Nitrogen―and Phosphorusâ€Doped Selfâ€Supportive Electrocatalysts. Advanced Materials, 2017, 29, 1702095.	21.0	175
17	All-flexible lithium ion battery based on thermally-etched porous carbon cloth anode and cathode. Nano Energy, 2016, 26, 446-455.	16.0	167
18	Co-based MOF-derived Co/CoN/Co2P ternary composite embedded in N- and P-doped carbon as bifunctional nanocatalysts for efficient overall water splitting. International Journal of Hydrogen Energy, 2019, 44, 11402-11410.	7.1	167

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19	All-carbon-frameworks enabled thick electrode with exceptional high-areal-capacity for Li-Ion storage. Carbon, 2021, 174, 1-9.	10.3	160
20	Carbon Quantum Dot Surface-Engineered VO ₂ Interwoven Nanowires: A Flexible Cathode Material for Lithium and Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 9733-9744.	8.0	158
21	Water Surface Assisted Synthesis of Largeâ€Scale Carbon Nanotube Film for Highâ€Performance and Stretchable Supercapacitors. Advanced Materials, 2014, 26, 4724-4729.	21.0	148
22	Facile synthesis of titanium nitride nanowires on carbon fabric for flexible and high-rate lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 10825-10829.	10.3	145
23	Subâ€Thick Electrodes with Enhanced Transport Kinetics via In Situ Epitaxial Heterogeneous Interfaces for High Arealâ€Capacity Lithium Ion Batteries. Small, 2021, 17, e2100778.	10.0	141
24	Nanostructured transition metal compounds coated 3D porous core-shell carbon fiber as monolith water splitting electrocatalysts: A general strategy. Chemical Engineering Journal, 2021, 423, 130279.	12.7	140
25	Phase Boundary Derived Pseudocapacitance Enhanced Nickelâ€Based Composites for Electrochemical Energy Storage Devices. Advanced Energy Materials, 2018, 8, 1701681.	19.5	124
26	In Situ Grown Coâ€Based Interstitial Compounds: Nonâ€3d Metal and Nonâ€Metal Dual Modulation Boosts Alkaline and Acidic Hydrogen Electrocatalysis. Small, 2022, 18, e2105331.	10.0	122
27	Hierarchical Co ₃ O ₄ @N-Doped Carbon Composite as an Advanced Anode Material for Ultrastable Potassium Storage. ACS Nano, 2020, 14, 5027-5035.	14.6	121
28	Efficient Hydrogen Evolution Activity and Overall Water Splitting of Metallic Co ₄ N Nanowires through Tunable d-Orbitals with Ultrafast Incorporation of FeOOH. ACS Applied Materials & Interfaces, 2019, 11, 5152-5158.	8.0	120
29	Unveiling the promotion of accelerated water dissociation kinetics on the hydrogen evolution catalysis of NiMoO4 nanorods. Journal of Energy Chemistry, 2022, 67, 805-813.	12.9	118
30	Vanadium Nitride Nanowire Supported SnS ₂ Nanosheets with High Reversible Capacity as Anode Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23205-23215.	8.0	115
31	Titanium dioxide@titanium nitride nanowires on carbon cloth with remarkable rate capability for flexible lithium-ion batteries. Journal of Power Sources, 2014, 272, 946-953.	7.8	114
32	Oxygen vacancy–based metal oxides photoanodes in photoelectrochemical water splitting. Materials Today Sustainability, 2022, 18, 100118.	4.1	100
33	Polypyrrole-encapsulated amorphous Bi ₂ S ₃ hollow sphere for long life sodium ion batteries and lithium–sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 11370-11378.	10.3	99
34	Dual Doping Induced Interfacial Engineering of Fe ₂ N/Fe ₃ N Hybrids with Favorable dâ€Band towards Efficient Overall Water Splitting. ChemCatChem, 2019, 11, 6051-6060.	3.7	92
35	Intermediates Adsorption Engineering of CO ₂ Electroreduction Reaction in Highly Selective Heterostructure Cuâ€Based Electrocatalysts for CO Production. Advanced Energy Materials, 2019, 9, 1901396.	19.5	92
36	Deciphering the lithium storage chemistry in flexible carbon fiberâ€based selfâ€supportive electrodes. , 2022, 4, 820-832.		87

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37	Enhancing the Photocatalytic Performance of BiOCl <i>_x</i> l _{1â^'<i>x</i>} by Introducing Surface Disorders and Bi Nanoparticles as Cocatalyst. Advanced Materials Interfaces, 2015, 2, 1500249.	3.7	82
38	Chemically Lithiated TiO ₂ Heterostructured Nanosheet Anode with Excellent Rate Capability and Long Cycle Life for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 25991-26003.	8.0	76
39	Efficient hydrogen and oxygen evolution electrocatalysis by cobalt and phosphorus dual-doped vanadium nitride nanowires. Materials Today Chemistry, 2019, 11, 1-7.	3.5	75
40	A Simple and Scalable Approach To Remarkably Boost the Overall Water Splitting Activity of Stainless Steel Electrocatalysts. ACS Omega, 2019, 4, 16130-16138.	3.5	73
41	Encapsulated Vanadiumâ€Based Hybrids in Amorphous Nâ€Doped Carbon Matrix as Anode Materials for Lithiumâ€Ion Batteries. Small, 2017, 13, 1702081.	10.0	70
42	Sulfurization of FeOOH nanorods on a carbon cloth and their conversion into Fe ₂ O ₃ /Fe ₃ O ₄ –S coreâ"shell nanorods for lithium storage. Chemical Communications, 2015, 51, 13016-13019.	4.1	68
43	Design of a 1D/2D C3N4/rGO composite as an anode material for stable and effective potassium storage. Energy Storage Materials, 2020, 25, 495-501.	18.0	68
44	Enhanced metallicity boosts hydrogen evolution capability of dual-bimetallic Ni–Fe nitride nanoparticles. Materials Today Physics, 2020, 15, 100267.	6.0	67
45	Low concentration nitric acid facilitate rapid electron–hole separation in vacancy-rich bismuth oxyiodide for photo-thermo-synergistic oxidation of formaldehyde. Applied Catalysis B: Environmental, 2017, 218, 700-708.	20.2	64
46	Co ₃ O ₄ @Cuâ€Based Conductive Metal–Organic Framework Core–Shell Nanowire Electrocatalysts Enable Efficient Lowâ€Overallâ€Potential Water Splitting. Chemistry - A European Journal, 2019, 25, 6575-6583.	3.3	64
47	Harmonizing self-supportive VN/MoS2 pseudocapacitance core-shell electrodes for boosting the areal capacity of lithium storage. Materials Today Energy, 2020, 17, 100461.	4.7	59
48	Interface charges redistribution enhanced monolithic etched copper foam-based Cu2O layer/TiO2 nanodots heterojunction with high hydrogen evolution electrocatalytic activity. Applied Catalysis B: Environmental, 2019, 243, 365-372.	20.2	56
49	High pseudocapacitance boosts the performance of monolithic porous carbon cloth/closely packed TiO ₂ nanodots as an anode of an all-flexible sodium-ion battery. Journal of Materials Chemistry A, 2019, 7, 2626-2635.	10.3	52
50	Reduced graphene oxide thin layer induced lattice distortion in high crystalline MnO2 nanowires for high-performance sodium- and potassium-ion batteries and capacitors. Carbon, 2021, 174, 556-566.	10.3	52
51	<i>Hybrid implanted hybrid</i> hollow nanocube electrocatalyst facilitates efficient hydrogen evolution activity. Journal of Materials Chemistry A, 2019, 7, 11150-11159.	10.3	48
52	Effect of Al content on structure and electrochemical properties of LaNi4.4Ââ~'ÂxCo0.3Mn0.3Alx hydrogen storage alloys. International Journal of Hydrogen Energy, 2013, 38, 10926-10931.	7.1	38
53	Three-dimensional Fe3O4 Nanotube Array on Carbon Cloth Prepared from A Facile Route for Lithium ion Batteries. Electrochimica Acta, 2016, 193, 32-38.	5.2	38
54	Oxygenâ€Deficient Threeâ€Dimensional Porous Co ₃ O ₄ Nanowires as an Electrode Material for Water Oxidation and Energy Storage. ChemElectroChem, 2017, 4, 2453-2459.	3.4	38

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55	Improving the Lithiumâ€Storage Properties of Selfâ€Grown Nickel Oxide: A Backâ€Up from TiO ₂ Nanoparticles. ChemElectroChem, 2015, 2, 1243-1248.	3.4	34
56	Non-oxygen anion-regulated in situ cobalt based heterojunctions for active alkaline hydrogen evolution catalysis. Chemical Engineering Journal, 2022, 433, 133514.	12.7	32
57	Three-dimensional TiO ₂ /CeO ₂ nanowire composite for efficient formaldehyde oxidation at low temperature. RSC Advances, 2015, 5, 7729-7733.	3.6	31
58	Boosted Storage Kinetics in Thick Hierarchical Micro–Nano Carbon Architectures for High Areal Capacity Liâ€lon Batteries. Energy and Environmental Materials, 2022, 5, 1251-1259.	12.8	31
59	Effect of high and low temperature on the electrochemical performance of LaNi4.4â^'Co0.3Mn0.3Al hydrogen storage alloys. Journal of Alloys and Compounds, 2013, 579, 438-443.	5.5	30
60	Chemically-modified stainless steel mesh derived substrate-free iron-based composite as anode materials for affordable flexible energy storage devices. Electrochimica Acta, 2018, 284, 271-278.	5.2	29
61	Polypyrrole Hollow Microspheres with Boosted Hydrophilic Properties for Enhanced Hydrogen Evolution Water Dissociation Kinetics. ACS Applied Materials & Interfaces, 2020, 12, 57093-57101.	8.0	29
62	Tailoring the cationic and anionic sites of LaFeO ₃ -based perovskite generates multiple vacancies for efficient water oxidation. Journal of Materials Chemistry A, 2021, 9, 16906-16916.	10.3	29
63	Ni3N: A multifunctional material for energy storage and electrocatalysis. Materials Today Energy, 2022, 26, 101001.	4.7	29
64	Etched current collector-guided creation of wrinkles in steel-mesh-supported V ₆ O ₁₃ cathode for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 756-764.	10.3	26
65	Molecular cooking: Amino acids trap silicon in carbon matrix to boost lithium-ion storage. Energy Storage Materials, 2022, 46, 344-351.	18.0	25
66	Facile Hydrothermal Synthesis of Three Dimensional Hematite Nanostructures with Enhanced Water Splitting Performance. Electrochimica Acta, 2015, 186, 95-100.	5.2	24
67	Low-valence bicomponent (FeO) _x (MnO) _{1â^'x} nanocrystals embedded in amorphous carbon as high-performance anode materials for lithium storage. Journal of Materials Chemistry A, 2018, 6, 15274-15283.	10.3	24
68	Green large-scale production of N/O-dual doping hard carbon derived from bagasse as high-performance anodes for sodium-ion batteries. Journal of Central South University, 2021, 28, 361-369.	3.0	24
69	Dual doping strategy enhanced the lithium storage properties of graphene oxide binary composites. Journal of Materials Chemistry A, 2016, 4, 13431-13438.	10.3	23
70	Hollow Co2P/Co-carbon-based hybrids for lithium storage with improved pseudocapacitance and water oxidation anodes. Journal of Materials Science and Technology, 2020, 55, 203-211.	10.7	23
71	Enhanced lithium storage performance of porous exfoliated carbon fibers <i>via</i> anchored nickel nanoparticles. RSC Advances, 2018, 8, 17056-17059.	3.6	19
72	Surface functionalized 3D carbon fiber boosts the lithium storage behaviour of transition metal oxide nanowires <i>via</i> strong electronic interaction and tunable adsorption energy. Nanoscale Horizons, 2019, 4, 1402-1410.	8.0	19

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73	Advanced Tri-Layer Carbon Matrices with ï€â€"ï€ Stacking Interaction for Binder-Free Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2021, 13, 16516-16527.	8.0	18
74	Asymmetric Pseudocapacitors Based on Interfacial Engineering of Vanadium Nitride Hybrids. Nanomaterials, 2020, 10, 1141.	4.1	17
75	Boosting Interfacial Interaction in Hierarchical Core–Shell Nanostructure for Highly Effective Visible Photocatalytic Performance. Journal of Physical Chemistry C, 2018, 122, 6137-6143.	3.1	15
76	Using pulverization phenomenon to extend electrodes cyclic life of ternary metal oxides. Materials Today Energy, 2018, 9, 311-318.	4.7	15
77	Covalently Modified Electrode with Pt Nanoparticles Encapsulated in Porous Organic Polymer for Efficient Electrocatalysis. ACS Applied Nano Materials, 2018, 1, 6477-6482.	5.0	13
78	Synergetic catalyst effect of Ni/Pd dual metal coating accelerating hydrogen storage properties of ZrCo alloy. International Journal of Hydrogen Energy, 2022, 47, 9946-9957.	7.1	13
79	Study on glass-forming ability and hydrogen storage properties of amorphous Mg60Ni30La10â^'xCox (x=0, 4) alloys. Materials Characterization, 2013, 86, 200-205.	4.4	8
80	Actual pseudocapacity for Li ion storage in tunable coreâ€shell electrode architectures. EcoMat, 2022, 4, .	11.9	8
81	Promoting Alternative Flexible Substrate for Electrode Materials to Achieve Enhanced Lithium Storage Properties. ChemistrySelect, 2018, 3, 6965-6971.	1.5	7
82	Ni0.58Al0.42 alloy growth on various conductive substrates and their use as advanced self-supportive electrocatalysts for boosted oxygen evolution catalysis. Journal of Alloys and Compounds, 2021, 858, 157729.	5.5	7
83	Engineering graphite microfiber-based thick electrodes as anode material for lithium ion batteries. Inorganic Chemistry Communication, 2021, 128, 108611.	3.9	7
84	Improved Cycling Performance and High Rate Capacity of LiNi0.8Co0.1Mn0.1O2 Cathode Achieved by Al(PO3)3 Modification via Dry Coating Ball Milling. Coatings, 2022, 12, 319.	2.6	7
85	3D carbon networks/NiO nanosheets thick electrodes for high areal capacity lithium ion batteries. Electrochemistry Communications, 2022, 139, 107306.	4.7	6
86	CO ₂ Electroreduction: Intermediates Adsorption Engineering of CO ₂ Electroreduction Reaction in Highly Selective Heterostructure Cuâ€Based Electrocatalysts for CO Production (Adv. Energy Mater. 27/2019). Advanced Energy Materials, 2019, 9, 1970107.	19.5	5
87	Effect of Cu content on structure, hydrogen storage properties and electrode performance of LaNi4.1-x Co0.6Mn0.3Cu x alloys. Journal of Solid State Electrochemistry, 2014, 18, 2563-2572.	2.5	3
88	Superior high-rate and cycle performances of a single-phase ferrous orthophosphate Na1.2Fe4(PO4)3 anode material for lithium-ion batteries. Journal of Power Sources, 2022, 535, 231447.	7.8	2
89	A <i>Special Issue on</i> Functional Materials for Advanced Future Applications. Science of Advanced Materials, 2021, 13, 519-521.	0.7	0