M-Sadeeq Jie Tang Balogun

List of Publications by Year
in descending order

89 papers	9,082 citations	44066 48 h-index	46795 89 g-index
93 all docs	93 docs citations	93 times ranked	10008 citing authors

#	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 & 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 BiVO₄ 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 coreâ€“double-shell electrodes. Energy and Environmental Science, 2018, 11, 1859-1869.	30.8	216
11	Three-dimensional nickel nitride (Ni₃N) 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 (Î±-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 Nitrogenâ€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 VO₂Interwoven 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 Co₃O₄@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 Co₄N 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 SnS₂ 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 vacancyâ€“based metal oxides photoanodes in photoelectrochemical water splitting. Materials Today Sustainability, 2022, 18, 100118.	4.1	100
33	Polypyrrole-encapsulated amorphous Bi₂S₃hollow sphere for long life sodium ion batteries and lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 11370-11378.	10.3	99
34	Dual Doping Induced Interfacial Engineering of Fe₂N/Fe₃N Hybrids with Favorable dâ€Band towards Efficient Overall Water Splitting. ChemCatChem, 2019, 11, 6051-6060.	3.7	92
35	Intermediates Adsorption Engineering of CO₂ 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_xI_{1â^'x} by Introducing Surface Disorders and Bi Nanoparticles as Cocatalyst. Advanced Materials Interfaces, 2015, 2, 1500249.	3.7	82
38	Chemically Lithiated TiO₂ 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 Fe₂O₃/Fe₃O₄â€“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 Niâ€“Fe nitride nanoparticles. Materials Today Physics, 2020, 15, 100267.	6.0	67
45	Low concentration nitric acid facilitate rapid electronâ€“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	Co₃O₄@Cuâ€Based Conductive Metalâ€“Organic Framework Coreâ€“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 TiO₂nanodots 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	Hybrid implanted hybrid 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 Co₃O₄ 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 TiO₂ 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 TiO₂/CeO₂ 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 Microâ€“Nano Carbon Architectures for High Areal Capacity Liâ€Ion 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 LaFeO₃-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 V₆O₁₃ 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 via 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 via 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 Coreâ€“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	CO₂ Electroreduction: Intermediates Adsorption Engineering of CO₂ 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 Special Issue on Functional Materials for Advanced Future Applications. Science of Advanced Materials, 2021, 13, 519-521.	0.7	0