

# M-Sadeeq Jie Tang Balogun

## List of Publications by Year in descending order

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89  
papers

9,082  
citations

50566

48  
h-index

53065

89  
g-index

93  
all docs

93  
docs citations

93  
times ranked

11515  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosted Storage Kinetics in Thick Hierarchical Microâ€“Nano Carbon Architectures for High Areal Capacity Liâ€“Ion Batteries. <i>Energy and Environmental Materials</i> , 2022, 5, 1251-1259.	7.3	31
2	Non-oxygen anion-regulated in situ cobalt based heterojunctions for active alkaline hydrogen evolution catalysis. <i>Chemical Engineering Journal</i> , 2022, 433, 133514.	6.6	32
3	Unveiling the promotion of accelerated water dissociation kinetics on the hydrogen evolution catalysis of NiMoO <sub>4</sub> nanorods. <i>Journal of Energy Chemistry</i> , 2022, 67, 805-813.	7.1	118
4	Molecular cooking: Amino acids trap silicon in carbon matrix to boost lithium-ion storage. <i>Energy Storage Materials</i> , 2022, 46, 344-351.	9.5	25
5	Charge Relays via Dual Carbonâ€“Actions on Nanostructured BiVO <sub>4</sub> for High Performance Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	219
6	Synergetic catalyst effect of Ni/Pd dual metal coating accelerating hydrogen storage properties of ZrCo alloy. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 9946-9957.	3.8	13
7	Oxygen vacancyâ€“based metal oxides photoanodes in photoelectrochemical water splitting. <i>Materials Today Sustainability</i> , 2022, 18, 100118.	1.9	100
8	In Situ Grown Coâ€“Based Interstitial Compounds: Nonâ€“d Metal and Nonâ€“Metal Dual Modulation Boosts Alkaline and Acidic Hydrogen Electrocatalysis. <i>Small</i> , 2022, 18, e2105331.	5.2	122
9	Improved Cycling Performance and High Rate Capacity of LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> Cathode Achieved by Al(PO <sub>3</sub> ) <sub>3</sub> Modification via Dry Coating Ball Milling. <i>Coatings</i> , 2022, 12, 319.	1.2	7
10	Deciphering the lithium storage chemistry in flexible carbon fiberâ€“based selfâ€“supportive electrodes. , 2022, 4, 820-832.		87
11	Ni <sub>3</sub> N: A multifunctional material for energy storage and electrocatalysis. <i>Materials Today Energy</i> , 2022, 26, 101001.	2.5	29
12	Superior high-rate and cycle performances of a single-phase ferrous orthophosphate Na <sub>1.2</sub> Fe <sub>4</sub> (PO <sub>4</sub> ) <sub>3</sub> anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2022, 535, 231447.	4.0	2
13	Actual pseudocapacity for Li ion storage in tunable coreâ€“shell electrode architectures. <i>EcoMat</i> , 2022, 4, .	6.8	8
14	3D carbon networks/NiO nanosheets thick electrodes for high areal capacity lithium ion batteries. <i>Electrochemistry Communications</i> , 2022, 139, 107306.	2.3	6
15	All-carbon-frameworks enabled thick electrode with exceptional high-areal-capacity for Li-Ion storage. <i>Carbon</i> , 2021, 174, 1-9.	5.4	160
16	Tailoring the cationic and anionic sites of LaFeO <sub>3</sub> -based perovskite generates multiple vacancies for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16906-16916.	5.2	29
17	Green large-scale production of N/O-dual doping hard carbon derived from bagasse as high-performance anodes for sodium-ion batteries. <i>Journal of Central South University</i> , 2021, 28, 361-369.	1.2	24
18	Ni <sub>0.58</sub> Al <sub>0.42</sub> alloy growth on various conductive substrates and their use as advanced self-supportive electrocatalysts for boosted oxygen evolution catalysis. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157729.	2.8	7

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19	Advanced Tri-Layer Carbon Matrices with $\pi$ - $\pi$ Stacking Interaction for Binder-Free Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2021, 13, 16516-16527.	4.0	18
20	A Special Issue on Functional Materials for Advanced Future Applications. Science of Advanced Materials, 2021, 13, 519-521.	0.1	0
21	Reduced graphene oxide thin layer induced lattice distortion in high crystalline MnO <sub>2</sub> nanowires for high-performance sodium- and potassium-ion batteries and capacitors. Carbon, 2021, 174, 556-566.	5.4	52
22	Submicron-Thick Electrodes with Enhanced Transport Kinetics via In Situ Epitaxial Heterogeneous Interfaces for High Areal Capacity Lithium Ion Batteries. Small, 2021, 17, e2100778.	5.2	141
23	Engineering graphite microfiber-based thick electrodes as anode material for lithium ion batteries. Inorganic Chemistry Communication, 2021, 128, 108611.	1.8	7
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.	6.6	140
25	Hollow Co <sub>2</sub> P/Co-carbon-based hybrids for lithium storage with improved pseudocapacitance and water oxidation anodes. Journal of Materials Science and Technology, 2020, 55, 203-211.	5.6	23
26	Design of a 1D/2D C <sub>3</sub> N <sub>4</sub> /rGO composite as an anode material for stable and effective potassium storage. Energy Storage Materials, 2020, 25, 495-501.	9.5	68
27	Adsorption energy engineering of nickel oxide hybrid nanosheets for high areal capacity flexible lithium-ion batteries. Energy Storage Materials, 2020, 25, 41-51.	9.5	261
28	Enhanced metallicity boosts hydrogen evolution capability of dual-bimetallic Ni-Fe nitride nanoparticles. Materials Today Physics, 2020, 15, 100267.	2.9	67
29	Polypyrrole Hollow Microspheres with Boosted Hydrophilic Properties for Enhanced Hydrogen Evolution Water Dissociation Kinetics. ACS Applied Materials & Interfaces, 2020, 12, 57093-57101.	4.0	29
30	Harmonizing self-supportive VN/MoS <sub>2</sub> pseudocapacitance core-shell electrodes for boosting the areal capacity of lithium storage. Materials Today Energy, 2020, 17, 100461.	2.5	59
31	Hierarchical Co <sub>3</sub> O <sub>4</sub> @N-Doped Carbon Composite as an Advanced Anode Material for Ultrastable Potassium Storage. ACS Nano, 2020, 14, 5027-5035.	7.3	121
32	Asymmetric Pseudocapacitors Based on Interfacial Engineering of Vanadium Nitride Hybrids. Nanomaterials, 2020, 10, 1141.	1.9	17
33	Dual Doping Induced Interfacial Engineering of Fe <sub>2</sub> N/Fe <sub>3</sub> N Hybrids with Favorable d-Band towards Efficient Overall Water Splitting. ChemCatChem, 2019, 11, 6051-6060.	1.8	92
34	CO <sub>2</sub> Electroreduction: Intermediates Adsorption Engineering of CO <sub>2</sub> Electroreduction Reaction in Highly Selective Heterostructure Cu-Based Electrocatalysts for CO Production (Adv. Energy Mater. 27/2019). Advanced Energy Materials, 2019, 9, 1970107.	10.2	5
35	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.	4.1	19
36	A Simple and Scalable Approach To Remarkably Boost the Overall Water Splitting Activity of Stainless Steel Electrocatalysts. ACS Omega, 2019, 4, 16130-16138.	1.6	73

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37	High pseudocapacitance boosts the performance of monolithic porous carbon cloth/closely packed TiO <sub>2</sub> nanodots as an anode of an all-flexible sodium-ion battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2626-2635.	5.2	52
38	Intermediates Adsorption Engineering of CO <sub>2</sub> Electroreduction Reaction in Highly Selective Heterostructure Cu-Based Electrocatalysts for CO Production. <i>Advanced Energy Materials</i> , 2019, 9, 1901396.	10.2	92
39	Co <sub>3</sub> O <sub>4</sub> @Cu-Based Conductive Metal-Organic Framework Core-Shell Nanowire Electrocatalysts Enable Efficient Low-Overall-Potential Water Splitting. <i>Chemistry - A European Journal</i> , 2019, 25, 6575-6583.	1.7	64
40	Nitrogen treatment generates tunable nanohybridization of Ni <sub>5</sub> P <sub>4</sub> nanosheets with nickel hydr(oxy)oxides for efficient hydrogen production in alkaline, seawater and acidic media. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 181-194.	10.8	260
41	Hybrid implanted hybrid hollow nanocube electrocatalyst facilitates efficient hydrogen evolution activity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11150-11159.	5.2	48
42	Polypyrrole-encapsulated amorphous Bi <sub>2</sub> S <sub>3</sub> hollow sphere for long life sodium ion batteries and lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11370-11378.	5.2	99
43	Co-based MOF-derived Co/CoN/Co <sub>2</sub> P ternary composite embedded in N- and P-doped carbon as bifunctional nanocatalysts for efficient overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11402-11410.	3.8	167
44	Efficient hydrogen and oxygen evolution electrocatalysis by cobalt and phosphorus dual-doped vanadium nitride nanowires. <i>Materials Today Chemistry</i> , 2019, 11, 1-7.	1.7	75
45	Efficient Hydrogen Evolution Activity and Overall Water Splitting of Metallic Co <sub>4</sub> N Nanowires through Tunable d-Orbitals with Ultrafast Incorporation of FeOOH. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5152-5158.	4.0	120
46	Interface charges redistribution enhanced monolithic etched copper foam-based Cu <sub>2</sub> O layer/TiO <sub>2</sub> nanodots heterojunction with high hydrogen evolution electrocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 365-372.	10.8	56
47	Boosting Interfacial Interaction in Hierarchical Core-Shell Nanostructure for Highly Effective Visible Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6137-6143.	1.5	15
48	Achieving high gravimetric energy density for flexible lithium-ion batteries facilitated by core-double-shell electrodes. <i>Energy and Environmental Science</i> , 2018, 11, 1859-1869.	15.6	216
49	Phase Boundary Derived Pseudocapacitance Enhanced Nickel-Based Composites for Electrochemical Energy Storage Devices. <i>Advanced Energy Materials</i> , 2018, 8, 1701681.	10.2	124
50	Covalently Modified Electrode with Pt Nanoparticles Encapsulated in Porous Organic Polymer for Efficient Electrocatalysis. <i>ACS Applied Nano Materials</i> , 2018, 1, 6477-6482.	2.4	13
51	Using pulverization phenomenon to extend electrodes cyclic life of ternary metal oxides. <i>Materials Today Energy</i> , 2018, 9, 311-318.	2.5	15
52	Promoting Alternative Flexible Substrate for Electrode Materials to Achieve Enhanced Lithium Storage Properties. <i>ChemistrySelect</i> , 2018, 3, 6965-6971.	0.7	7
53	Low-valence bicomponent (FeO) <sub>x</sub> (MnO) <sub>1-x</sub> nanocrystals embedded in amorphous carbon as high-performance anode materials for lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15274-15283.	5.2	24
54	Chemically-modified stainless steel mesh derived substrate-free iron-based composite as anode materials for affordable flexible energy storage devices. <i>Electrochimica Acta</i> , 2018, 284, 271-278.	2.6	29

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55	Enhanced lithium storage performance of porous exfoliated carbon fibers <i>via</i> anchored nickel nanoparticles. RSC Advances, 2018, 8, 17056-17059.	1.7	19
56	Updates on the development of nanostructured transition metal nitrides for electrochemical energy storage and water splitting. Materials Today, 2017, 20, 425-451.	8.3	339
57	Encapsulated Vanadium-Based Hybrids in Amorphous N-Doped Carbon Matrix as Anode Materials for Lithium-Ion Batteries. Small, 2017, 13, 1702081.	5.2	70
58	Cost-Effective Alkaline Water Electrolysis Based on Nitrogen- and Phosphorus-Doped Self-Supportive Electrocatalysts. Advanced Materials, 2017, 29, 1702095.	11.1	175
59	Oxygen-Deficient Three-Dimensional Porous Co <sub>3</sub> O <sub>4</sub> Nanowires as an Electrode Material for Water Oxidation and Energy Storage. ChemElectroChem, 2017, 4, 2453-2459.	1.7	38
60	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.	10.8	64
61	Etched current collector-guided creation of wrinkles in steel-mesh-supported V <sub>6</sub> O <sub>13</sub> cathode for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 756-764.	5.2	26
62	A review of the development of full cell lithium-ion batteries: The impact of nanostructured anode materials. Nano Research, 2016, 9, 2823-2851.	5.8	198
63	Carbon Quantum Dot Surface-Engineered VO <sub>2</sub> Interwoven Nanowires: A Flexible Cathode Material for Lithium and Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 9733-9744.	4.0	158
64	Three-dimensional nickel nitride (Ni <sub>3</sub> N) nanosheets: free standing and flexible electrodes for lithium ion batteries and supercapacitors. Journal of Materials Chemistry A, 2016, 4, 9844-9849.	5.2	203
65	A monolithic metal-free electrocatalyst for oxygen evolution reaction and overall water splitting. Energy and Environmental Science, 2016, 9, 3411-3416.	15.6	197
66	Dual doping strategy enhanced the lithium storage properties of graphene oxide binary composites. Journal of Materials Chemistry A, 2016, 4, 13431-13438.	5.2	23
67	All-flexible lithium ion battery based on thermally-etched porous carbon cloth anode and cathode. Nano Energy, 2016, 26, 446-455.	8.2	167
68	Three-dimensional Fe <sub>3</sub> O <sub>4</sub> Nanotube Array on Carbon Cloth Prepared from A Facile Route for Lithium ion Batteries. Electrochimica Acta, 2016, 193, 32-38.	2.6	38
69	High power density nitridated hematite (±-Fe <sub>2</sub> O <sub>3</sub> ) nanorods as anode for high-performance flexible lithium ion batteries. Journal of Power Sources, 2016, 308, 7-17.	4.0	182
70	A review of carbon materials and their composites with alloy metals for sodium ion battery anodes. Carbon, 2016, 98, 162-178.	5.4	527
71	Bifunctional catalytic material: An ultrastable and high-performance surface defect CeO <sub>2</sub> nanosheets for formaldehyde thermal oxidation and photocatalytic oxidation. Applied Catalysis B: Environmental, 2016, 181, 779-787.	10.8	268
72	Enhancing the Photocatalytic Performance of BiOCl <sub>x</sub> by Introducing Surface Disorders and Bi Nanoparticles as Cocatalyst. Advanced Materials Interfaces, 2015, 2, 1500249.	1.9	82

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73	Three-dimensional TiO <sub>2</sub> /CeO <sub>2</sub> nanowire composite for efficient formaldehyde oxidation at low temperature. RSC Advances, 2015, 5, 7729-7733.	1.7	31
74	Sulfurization of FeOOH nanorods on a carbon cloth and their conversion into Fe <sub>2</sub> O <sub>3</sub> /Fe <sub>3</sub> O <sub>4</sub> "S core" shell nanorods for lithium storage. Chemical Communications, 2015, 51, 13016-13019.	2.2	68
75	Facile Hydrothermal Synthesis of Three Dimensional Hematite Nanostructures with Enhanced Water Splitting Performance. Electrochimica Acta, 2015, 186, 95-100.	2.6	24
76	Vanadium Nitride Nanowire Supported SnS <sub>2</sub> Nanosheets with High Reversible Capacity as Anode Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23205-23215.	4.0	115
77	Improving the Lithium Storage Properties of Self-Grown Nickel Oxide: A Back-Up from TiO <sub>2</sub> Nanoparticles. ChemElectroChem, 2015, 2, 1243-1248.	1.7	34
78	Chemically Lithiated TiO <sub>2</sub> 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.	4.0	76
79	Binder-free Fe <sub>2</sub> N nanoparticles on carbon textile with high power density as novel anode for high-performance flexible lithium ion batteries. Nano Energy, 2015, 11, 348-355.	8.2	180
80	Recent advances in metal nitrides as high-performance electrode materials for energy storage devices. Journal of Materials Chemistry A, 2015, 3, 1364-1387.	5.2	396
81	Oxygen Vacancy Induced Bismuth Oxyiodide with Remarkably Increased Visible-Light Absorption and Superior Photocatalytic Performance. ACS Applied Materials & Interfaces, 2014, 6, 22920-22927.	4.0	370
82	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.	5.2	145
83	Oxygen-Deficient Hematite Nanorods as High-Performance and Novel Negative Electrodes for Flexible Asymmetric Supercapacitors. Advanced Materials, 2014, 26, 3148-3155.	11.1	838
84	Effect of Cu content on structure, hydrogen storage properties and electrode performance of LaNi <sub>4.1-x</sub> Co <sub>0.6</sub> Mn <sub>0.3</sub> Cu <sub>x</sub> alloys. Journal of Solid State Electrochemistry, 2014, 18, 2563-2572.	1.2	3
85	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.	4.0	114
86	Water Surface Assisted Synthesis of Large-Scale Carbon Nanotube Film for High-Performance and Stretchable Supercapacitors. Advanced Materials, 2014, 26, 4724-4729.	11.1	148
87	Effect of high and low temperature on the electrochemical performance of LaNi <sub>4.4</sub> Co <sub>0.3</sub> Mn <sub>0.3</sub> Al hydrogen storage alloys. Journal of Alloys and Compounds, 2013, 579, 438-443.	2.8	30
88	Study on glass-forming ability and hydrogen storage properties of amorphous Mg <sub>60</sub> Ni <sub>30</sub> La <sub>10</sub> xCo <sub>x</sub> (x=0, 4) alloys. Materials Characterization, 2013, 86, 200-205.	1.9	8
89	Effect of Al content on structure and electrochemical properties of LaNi <sub>4.4</sub> xCo <sub>0.3</sub> Mn <sub>0.3</sub> Al <sub>x</sub> hydrogen storage alloys. International Journal of Hydrogen Energy, 2013, 38, 10926-10931.	3.8	38