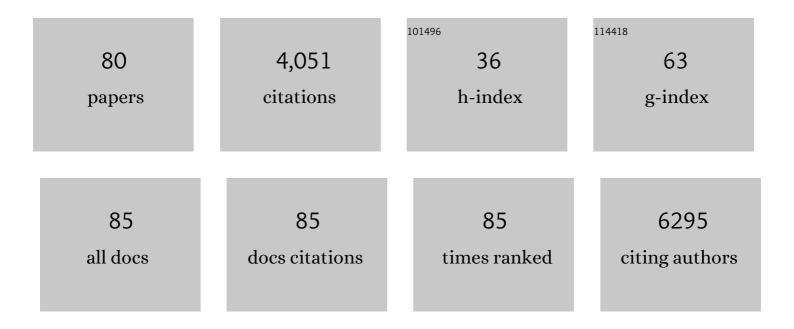
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Bifunctional Composite Catalysts Using Co ₃ O ₄ Nanofibers Immobilized on Nonoxidized Graphene Nanoflakes for High-Capacity and Long-Cycle Li–O ₂ Batteries. Nano Letters, 2013, 13, 4190-4197.	4.5	329
2	Selective Diagnosis of Diabetes Using Pt-Functionalized WO ₃ Hemitube Networks As a Sensing Layer of Acetone in Exhaled Breath. Analytical Chemistry, 2013, 85, 1792-1796.	3.2	276
3	Solution-processed titanium carbide MXene films examined as highly transparent conductors. Nanoscale, 2016, 8, 16371-16378.	2.8	227
4	Development of Omniphobic Desalination Membranes Using a Charged Electrospun Nanofiber Scaffold. ACS Applied Materials & Interfaces, 2016, 8, 11154-11161.	4.0	218
5	Structural enhancement of Na ₃ V ₂ (PO ₄) ₃ /C composite cathode materials by pillar ion doping for high power and long cycle life sodium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 19623-19632.	5.2	156
6	Vine-like MoS ₂ anode materials self-assembled from 1-D nanofibers for high capacity sodium rechargeable batteries. Nanoscale, 2014, 6, 10975-10981.	2.8	144
7	Lithium–Air Batteries: Air-Breathing Challenges and Perspective. ACS Nano, 2020, 14, 14549-14578.	7.3	126
8	Raman Spectroscopy in Lithium–Oxygen Battery Systems. ChemElectroChem, 2015, 2, 1446-1457.	1.7	123
9	Heme biomolecule as redox mediator and oxygen shuttle for efficient charging of lithium-oxygen batteries. Nature Communications, 2016, 7, 12925.	5.8	122
10	Heterogeneous WS _{<i>x</i>} /WO ₃ Thorn-Bush Nanofiber Electrodes for Sodium-Ion Batteries. ACS Nano, 2016, 10, 3257-3266.	7.3	121
11	Al2O3 coating on LiMn2O4 by electrostatic attraction forces and its effects on the high temperature cyclic performance. Electrochimica Acta, 2012, 71, 17-21.	2.6	108
12	3-D dumbbell-like LiNi1/3Mn1/3Co1/3O2 cathode materials assembled with nano-building blocks for lithium-ion batteries. Journal of Power Sources, 2014, 257, 186-191.	4.0	102
13	Electrochemical performance of a smooth and highly ordered TiO2 nanotube electrode for Li-ion batteries. Electrochimica Acta, 2012, 61, 19-24.	2.6	97
14	A Mesoporous Catalytic Membrane Architecture for Lithium–Oxygen Battery Systems. Nano Letters, 2015, 15, 434-441.	4.5	78
15	Black titanium oxide nanoarray electrodes for high rate Li-ion microbatteries. Journal of Materials Chemistry A, 2015, 3, 11183-11188.	5.2	77
16	Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces. Advanced Materials, 2016, 28, 1940-1949.	11.1	71
17	Synergistic effects of various morphologies and Al doping of spinel LiMn2O4 nanostructures on the electrochemical performance of lithium-rechargeable batteries. Journal of Materials Chemistry, 2011, 21, 15337.	6.7	70
18	Bi-functional co-sensitization of graphene oxide sheets and Ir nanoparticles on p-type Co ₃ O ₄ nanofibers for selective acetone detection. Journal of Materials Chemistry B, 2014, 2, 7160-7167.	2.9	70

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19	Operando Observation of the Gold–Electrolyte Interface in Li–O ₂ Batteries. ACS Applied Materials & Interfaces, 2014, 6, 19017-19025.	4.0	70
20	Fabrication of Graphene Embedded LiFePO ₄ Using a Catalyst Assisted Self Assembly Method as a Cathode Material for High Power Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 4731-4736.	4.0	70
21	Cobalt(ii) monoxide nanoparticles embedded in porous carbon nanofibers as a highly reversible conversion reaction anode for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 3239.	5.2	68
22	Effects of Cl doping on the structural and electrochemical properties of high voltage LiMn1.5Ni0.5O4 cathode materials for Li-ion batteries. Journal of Alloys and Compounds, 2014, 592, 48-52.	2.8	62
23	Dimensional Effects of MoS ₂ Nanoplates Embedded in Carbon Nanofibers for Bifunctional Li and Na Insertion and Conversion Reactions. ACS Applied Materials & Interfaces, 2016, 8, 26758-26768.	4.0	62
24	Morphological Evolution of Carbon Nanofibers Encapsulating SnCo Alloys and Its Effect on Growth of the Solid Electrolyte Interphase Layer. ACS Nano, 2013, 7, 7330-7341.	7.3	58
25	Glassy Metal Alloy Nanofiber Anodes Employing Graphene Wrapping Layer: Toward Ultralong-Cycle-Life Lithium-Ion Batteries. ACS Nano, 2015, 9, 6717-6727.	7.3	55
26	Ultrathin Nanotube/Nanowire Electrodes by Spin–Spray Layer-by-Layer Assembly: A Concept for Transparent Energy Storage. ACS Nano, 2015, 9, 10005-10017.	7.3	55
27	LaNi _x Co _{1-x} O _{3-Î′} Perovskites as Catalyst Material for Non-Aqueous Lithium-Oxygen Batteries. Journal of the Electrochemical Society, 2014, 161, A880-A889.	1.3	53
28	Multi-layer electrode with nano-Li4Ti5O12 aggregates sandwiched between carbon nanotube and graphene networks for high power Li-ion batteries. Scientific Reports, 2014, 4, 7334.	1.6	49
29	Graphene wrapping as a protective clamping layer anchored to carbon nanofibers encapsulating Si nanoparticles for a Li-ion battery anode. Nanoscale, 2014, 6, 12718-12726.	2.8	47
30	Toward Microcapsule-Embedded Self-Healing Membranes. Environmental Science and Technology Letters, 2016, 3, 216-221.	3.9	47
31	Conceptual Design of Superconducting Linear Synchronous Motor for 600-km/h Wheel-Type Railway. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.	1.1	45
32	Pt and Pd catalyzed oxidation of Li ₂ O ₂ and DMSO during Li–O ₂ battery charging. Chemical Communications, 2016, 52, 6605-6608.	2.2	45
33	Simple synthesis of highly catalytic carbon-free MnCo2O4@Ni as an oxygen electrode for rechargeable Li–O2 batteries with long-term stability. Scientific Reports, 2015, 5, 13266.	1.6	44
34	Effects of Li and Cl Codoping on the Electrochemical Performance and Structural Stability of LiMn ₂ O ₄ Cathode Materials for Hybrid Electric Vehicle Applications. Journal of Physical Chemistry C, 2013, 117, 4913-4919.	1.5	42
35	Tailored Combination of Low Dimensional Catalysts for Efficient Oxygen Reduction and Evolution in Li–O ₂ Batteries. ChemSusChem, 2016, 9, 2080-2088.	3.6	39
36	Alloy design employing high Cr concentrations for Mo-free stainless steels with enhanced corrosion resistance. Corrosion Science, 2018, 140, 61-72.	3.0	38

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37	Polyoxometalate as a Nature-Inspired Bifunctional Catalyst for Lithium–Oxygen Batteries. ACS Catalysis, 2018, 8, 7213-7221.	5.5	35
38	Crystalline IrO2-decorated TiO2 nanofiber scaffolds for robust and sustainable solar water oxidation. Journal of Materials Chemistry A, 2014, 2, 5610.	5.2	34
39	Bi-functional RuO2–Co3O4 core–shell nanofibers as a multi-component one-dimensional water oxidation catalyst. Chemical Communications, 2013, 49, 9725.	2.2	33
40	Highly Conductive Off-Stoichiometric Zirconium Oxide Nanofibers with Controllable Crystalline Structures and Bandgaps and Improved Electrochemical Activities. ACS Applied Energy Materials, 2019, 2, 3513-3522.	2.5	28
41	Electrochemical properties of nanosized Li-rich layered oxide as positive electrode materials for Li-Ion batteries. RSC Advances, 2013, 3, 8527.	1.7	27
42	Facile and fast Na-ion intercalation employing amorphous black TiO2-x/C composite nanofiber anodes. Electrochimica Acta, 2018, 263, 417-425.	2.6	27
43	Rational design and in-situ formation of nickel–cobalt nitride multi-core/hollow N-doped carbon shell anode for Li-ion batteries. Chemical Engineering Journal, 2021, 420, 129630.	6.6	27
44	A New Design Strategy for Observing Lithium Oxide Growth-Evolution Interactions Using Geometric Catalyst Positioning. Nano Letters, 2016, 16, 4799-4806.	4.5	25
45	Selective Anionic Redox and Suppressed Structural Disordering Enabling Highâ€Energy and Longâ€Life Liâ€Rich Layeredâ€Oxide Cathode. Advanced Energy Materials, 2021, 11, 2102311.	10.2	25
46	Controllable Insertion Mechanism of Expanded Graphite Anodes Employing Conversion Reaction Pillars for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 24070-24080.	4.0	24
47	Simple, robust metal fluoride coating on layered Li1.23Ni0.13Co0.14Mn0.56O2 and its effects on enhanced electrochemical properties. Electrochimica Acta, 2013, 100, 10-17.	2.6	23
48	Atomically miniaturized bi-phase IrO _{<i>x</i>} /Ir catalysts loaded on N-doped carbon nanotubes for high-performance Li–CO ₂ batteries. Journal of Materials Chemistry A, 2022, 10, 19710-19721.	5.2	21
49	Black Tungsten Oxide Nanofiber as a Robust Support for Metal Catalysts: High Catalyst Loading for Electrochemical Oxygen Reduction. Small, 2021, 17, e2103755.	5.2	20
50	Capillary-Driven Formation of Iron Nanoparticles Embedded in Nanotubes for Catalyzed Lithium–Carbon Dioxide Reaction. , 2021, 3, 815-825.		19
51	Tailoring Crystal Structure and Morphology of LiFePO ₄ /C Cathode Materials Synthesized by Heterogeneous Growth on Nanostructured LiFePO ₄ Seed Crystals. ACS Applied Materials & Interfaces, 2013, 5, 1342-1347.	4.0	18
52	Iron/carbon composite microfiber catalyst derived from hemoglobin blood protein for lithium-oxygen batteries. Applied Surface Science, 2019, 466, 562-567.	3.1	17
53	Facile route to control the surface morphologies of 3D hierarchical MnO2 and its Al self-doping phenomenon. Journal of Nanoparticle Research, 2011, 13, 4777-4784.	0.8	16
54	Super-Expansion of Assembled Reduced Graphene Oxide Interlayers by Segregation of Al Nanoparticle Pillars for High-Capacity Na-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2020, 12, 23781-23788.	4.0	16

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55	Blood Protein as a Sustainable Bifunctional Catalyst for Reversible Li-CO ₂ Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 16151-16159.	3.2	15
56	Low-temperature synthesis of tetragonal phase of hafnium oxide using polymer-blended nanofiber precursor. Applied Surface Science, 2020, 533, 147496.	3.1	15
57	Autoâ€Oxygenated Porphyrinâ€Derived Redox Mediators for Highâ€Performance Lithium Airâ€Breathing Batteries. Advanced Energy Materials, 2022, 12, 2103527.	10.2	15
58	Group VI metallic pillars for assembly of expanded graphite anodes for high-capacity Na-ion batteries. Carbon, 2021, 175, 585-593.	5.4	14
59	Morphological control of highly aligned manganese dioxide nanostructure formed by electrodeposition. Materials Letters, 2012, 79, 184-187.	1.3	13
60	Zirconium disulfides as an electrode material alternative for Li-ion batteries. Applied Surface Science, 2021, 547, 149029.	3.1	12
61	Highly conductive ZrO2–x spheres as bifunctional framework stabilizers and gas evolution relievers in nickel-rich layered cathodes for lithium-ion batteries. Composites Part B: Engineering, 2022, 238, 109911.	5.9	11
62	Synthesis of Highly Ordered TiO ₂ Nanotube in Malonic Acid Solution by Anodization. Journal of Nanoscience and Nanotechnology, 2008, 8, 5467-5470.	0.9	9
63	Multi-stacked electrodes employing aluminum coated tissue papers and non-oxidized graphene nanoflakes for high performance lithium–sulfur batteries. RSC Advances, 2016, 6, 60537-60545.	1.7	8
64	Self-Oxygenated Blood Protein-Embedded Nanotube Catalysts for Longer Cyclable Lithium Oxygen-Breathing Batteries. ACS Sustainable Chemistry and Engineering, 2022, 10, 4198-4205.	3.2	8
65	Rhenium oxide/sulfide binary phase flakes decorated on nanofiber support for enhanced activation of electrochemical conversion reactions. Chemical Engineering Journal, 2022, 446, 136951.	6.6	8
66	Effects of Highly Ordered TiO ₂ Nanotube Substrates on the Nucleation of Cu Electrodeposits. Journal of Nanoscience and Nanotechnology, 2010, 10, 3671-3675.	0.9	5
67	Fabrication and Characterization of Nanoscale Ferroelectric Honeycombs. Journal of the American Ceramic Society, 2013, 96, 1355-1358.	1.9	5
68	Electrospun Functional Nanofibers and Their Applications in Chemical Sensors and Li-Ion Batteries. , 2014, , 793-838.		4
69	Titanum Carbide MXene Flakes as Novel 2D Metallic Solution-Processed Films. ECS Meeting Abstracts, 2016, MA2016-02, 2311-2311.	0.0	3
70	Titanum Carbide MXene Flakes as Novel 2D Metallic Solution-Processed Films. ECS Transactions, 2016, 75, 37-41.	0.3	2
71	Tailored Combination of Low Dimensional Catalysts for Efficient Oxygen Reduction and Evolution in Li-O2 Batteries. ChemSusChem, 2016, 9, 2007-2007.	3.6	2
72	Enhanced durability of gold-coated current collectors for high power electrochemical devices. RSC Advances, 2015, 5, 43956-43960.	1.7	1

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73	Electrocatalysts: Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces (Adv. Mater. 10/2016). Advanced Materials, 2016, 28, 1902-1902.	11.1	0
74	Metal Sulfide Nanofiber Anodes for High Capacity Sodium Rechargeable Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0
75	A New Architecture Design for Observing Lithium Oxide Growth-Evolution Employing Geometric Catalyst Positioning. ECS Meeting Abstracts, 2016, , .	0.0	0
76	A Nature-Inspired Molecular Catalyst for Sustainable and Efficient Lithium-Oxygen Batteries. ECS Meeting Abstracts, 2018, , .	0.0	0
77	Super-Expanded Graphite Anodes Achieved By Employing Metallic Pillars for High Capacity Sodium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 296-296.	0.0	0
78	Iron Nanoparticles Embedded in Carbon Nanotubes for Reversible Li-CO ₂ Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 293-293.	0.0	0
79	Highly Durable and Conductive Tungsten Oxide Nanofiber Supports for Improved Oxygen Reduction Reactions. ECS Meeting Abstracts, 2020, MA2020-02, 2335-2335.	0.0	Ο
80	Active MoSx Nanoparticle Pillars Embedded in Reduced Graphene Oxide As Anode Materials for High Performance Na-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 297-297.	0.0	0