

Marco Agostini

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

3,230
citations

29
h-index

54
g-index

106
ext. papers

3,639
ext. citations

6.3
avg, IF

5.41
L-index

#	Paper	IF	Citations
99	Asymmetric separator integrated with ferroelectric-BaTiO ₃ and mesoporous-CNT for the reutilization of soluble polysulfide in lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2022 , 893, 162272	5.7	6
98	Realizing High-Performance Li/Na-Ion Half/Full Batteries via the Synergistic Coupling of Nano-Iron Sulfide and S-doped Graphene. <i>ChemSusChem</i> , 2021 , 14, 1936-1947	8.3	3
97	Critical Role of Functional Groups Containing N, S, and O on Graphene Surface for Stable and Fast Charging Li-S Batteries. <i>Small</i> , 2021 , 17, e2007242	11	7
96	Ultrahigh-rate nickel monosulfide anodes for sodium/potassium-ion storage. <i>Nanoscale</i> , 2021 , 13, 10447-10454	7.1	5
95	Understanding the Electrolytes of Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2021 , 4, 1064-1095	5.6	7
94	Simple design of an in situ generated iron sulfide/carbon heterostructure with N, S codoping for high performance lithium/sodium-ion batteries. <i>Applied Surface Science</i> , 2021 , 554, 149587	6.7	5
93	Multiscale Understanding of Covalently Fixed Sulfur-Polyacrylonitrile Composite as Advanced Cathode for Metal-Sulfur Batteries. <i>Advanced Science</i> , 2021 , 8, e2101123	13.6	9
92	Ultra-long cycle life of flexible Sn anode using DME electrolyte. <i>Journal of Alloys and Compounds</i> , 2021 , 871, 159549	5.7	8
91	Simple and Scalable Synthesis of Sulfurized Polyacrylonitrile Cathodes for Li/s Batteries. <i>Science of Advanced Materials</i> , 2021 , 13, 2282-2286	2.3	2
90	Enhancement of Functional Properties of Liquid Electrolytes for Lithium-Ion Batteries by Addition of Pyrrolidinium-Based Ionic Liquids with Long Alkyl-Chains. <i>Batteries and Supercaps</i> , 2020 , 3, 1059-1068	5.6	4
89	rGO-CNT aerogel embedding iron phosphide nanocubes for high-performance Li-polysulfide batteries. <i>Carbon</i> , 2020 , 167, 446-454	10.4	9
88	Recent Developments and Future Challenges in Designing Rechargeable Potassium-Sulfur and Potassium-Selenium Batteries. <i>Energies</i> , 2020 , 13, 2791	3.1	8
87	Amine- and Amide-Functionalized Mesoporous Carbons: A Strategy for Improving Sulfur/Host Interactions in LiS Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 757-765	5.6	5
86	Enhanced rate and cyclability of a porous Na ₃ V ₂ (PO ₄) ₃ cathode using dimethyl ether as the electrolyte for application in sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9843-9849	13	20
85	Free-Standing NiS ₂ Electrode as High-Rate Anode Material for Sodium-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 7119-7123	1.3	2
84	A flexible and free-standing FeS/sulfurized polyacrylonitrile hybrid anode material for high-rate sodium-ion storage. <i>Chemical Engineering Journal</i> , 2020 , 385, 123453	14.7	23
83	Anchoring MOF-derived CoS ₂ on sulfurized polyacrylonitrile nanofibers for high areal capacity lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1298-1306	13	50

82	Designing Highly Conductive Functional Groups Improving Guest-Host Interactions in Li/S Batteries. <i>Small</i> , 2020 , 16, e1905585	11	21
81	Effect of Nitrogen Doping on the Performance of Mesoporous CMK-8 Carbon Anodes for Li-Ion Batteries. <i>Energies</i> , 2020 , 13, 4998	3.1	2
80	High power Na ₃ V ₂ (PO ₄) ₃ symmetric full cell for sodium-ion batteries. <i>Nanoscale Advances</i> , 2020 , 2, 5166-51708	5.1	1
79	Highly Stable Fe ₃ O ₄ /C Composite: A Candidate Material for All Solid-State Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 070556	3.9	3
78	Simple and scalable synthesis of CuS as an ultrafast and long-cycling anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16239-16248	13	27
77	Enhanced safety and galvanostatic performance of high voltage lithium batteries by using ionic liquids. <i>Electrochimica Acta</i> , 2019 , 316, 1-7	6.7	18
76	In-Situ Construction of Iron Sulfide Nanoparticle Loaded Graphitic Carbon Capsules from Waste Biomass for Sustainable Lithium-Ion Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6870-6879	8.3	11
75	A free-standing reduced graphene oxide aerogel as supporting electrode in a fluorine-free Li ₂ S ₈ catholyte Li-S battery. <i>Journal of Power Sources</i> , 2019 , 416, 111-117	8.9	27
74	Designing a Safe Electrolyte Enabling Long-Life Li/S Batteries. <i>ChemSusChem</i> , 2019 , 12, 4176-4184	8.3	15
73	Boosting High Energy Density Lithium-Ion Storage via the Rational Design of an FeS-Incorporated Sulfurized Polyacrylonitrile Fiber Hybrid Cathode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29924-29933	9.5	26
72	A Novel Li ⁺ -Nafion-Sulfonated Graphene Oxide Membrane as Single Lithium-Ion Conducting Polymer Electrolyte for Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27406-27416	3.8	14
71	V ₂ O ₅ Cryogel: A Versatile Electrode for All Solid State Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3927-A3931	3.9	0
70	An Electrospun Nanofiber Membrane as Gel-Based Electrolyte for Room-Temperature Sodium-Sulfur Batteries. <i>Energy Technology</i> , 2018 , 6, 1214-1219	3.5	12
69	Effect of sodium salts on the cycling performance of tin anode in sodium ion batteries. <i>Ionics</i> , 2018 , 24, 753-761	2.7	16
68	Minimizing the Electrolyte Volume in LiB Batteries: A Step Forward to High Gravimetric Energy Density. <i>Advanced Energy Materials</i> , 2018 , 8, 1801560	21.8	56
67	An Electrospun Core-Shell Nanofiber Web as a High-Performance Cathode for Iron Disulfide-Based Rechargeable Lithium Batteries. <i>ChemSusChem</i> , 2018 , 11, 3625-3630	8.3	10
66	Rational Design of Low Cost and High Energy Lithium Batteries through Tailored Fluorine-free Electrolyte and Nanostructured S/C Composite. <i>ChemSusChem</i> , 2018 , 11, 2981-2986	8.3	16
65	Tailor-Made Electrospun Multilayer Composite Polymer Electrolytes for High-Performance Lithium Polymer Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 6499-6505	1.3	3

64	Initial Discharge Behavior of an Ultra High Loading 3D Sulfur Cathode for a Room-Temperature Na/S Battery. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 6524-6527	1.3	1
63	Electrochemical Properties of Micron-Sized SnO Anode Using a Glyme-Based Electrolyte for Sodium-Ion Battery. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 6422-6426	1.3	4
62	Sodium Ion Storage of Carbon Supported Iron Sulfide Monochalcogenide in Carbonate and Ether Based Electrolytes. <i>Nanoscience and Nanotechnology Letters</i> , 2018 , 10, 1232-1237	0.8	2
61	Electrochemical Behavior of Sn/CuSn/C Composite Prepared by Using Pulsed Wire Explosion in Liquid Medium for Lithium-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 6455-6458 ^{1,3}	1.3	1
60	Free-Standing 3D-Sponged Nanofiber Electrodes for Ultrahigh-Rate Energy-Storage Devices. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34140-34146	9.5	13
59	A high-power and fast charging Li-ion battery with outstanding cycle-life. <i>Scientific Reports</i> , 2017 , 7, 1104.9	4.9	26
58	An innovative membrane-electrode assembly for efficient and durable polymer electrolyte membrane fuel cell operations. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 16686-16694	6.7	12
57	A mixed mechanochemical-ceramic solid-state synthesis as simple and cost effective route to high-performance LiNi _{0.5} Mn _{1.5} O ₄ spinels.. <i>Electrochimica Acta</i> , 2017 , 235, 262-269	6.7	15
56	Stabilizing the Performance of High-Capacity Sulfur Composite Electrodes by a New Gel Polymer Electrolyte Configuration. <i>ChemSusChem</i> , 2017 , 10, 3490-3496	8.3	17
55	Route to sustainable lithium-sulfur batteries with high practical capacity through a fluorine free polysulfide catholyte and self-standing Carbon Nanofiber membranes. <i>Scientific Reports</i> , 2017 , 7, 6327	4.9	16
54	Highly Ordered Mesoporous Sulfurized Polyacrylonitrile Cathode Material for High-Rate Lithium Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 26172-26179	3.8	37
53	Carbon Composites for a High-Energy Lithium Sulfur Battery with a Glyme-Based Electrolyte. <i>ChemElectroChem</i> , 2017 , 4, 209-215	4.3	22
52	High-power lithium polysulfide-carbon battery. <i>Carbon</i> , 2016 , 96, 125-130	10.4	21
51	A binder-free sulfur/reduced graphene oxide aerogel as high performance electrode materials for lithium sulfur batteries. <i>Scientific Reports</i> , 2016 , 6, 39615	4.9	29
50	Lithium battery using sulfur infiltrated in three-dimensional flower-like hierarchical porous carbon electrode. <i>Materials Chemistry and Physics</i> , 2016 , 180, 82-88	4.4	21
49	High Voltage Li-Ion Battery Using Exfoliated Graphite/Graphene Nanosheets Anode. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10850-7	9.5	49
48	All solid-state battery using layered oxide cathode, lithium-carbon composite anode and thio-LISICON electrolyte. <i>Solid State Ionics</i> , 2016 , 296, 13-17	3.3	30
47	New lignin-based polyurethane foam for wastewater treatment. <i>RSC Advances</i> , 2016 , 6, 77768-77776	3.7	32

46	A lithium-ion sulfur battery using a polymer, polysulfide-added membrane. <i>Scientific Reports</i> , 2015 , 5, 7591	4.9	50
45	Polysulfide-containing Glyme-based Electrolytes for Lithium Sulfur Battery. <i>Chemistry of Materials</i> , 2015 , 27, 4604-4611	9.6	91
44	A long-life lithium ion sulfur battery exploiting high performance electrodes. <i>Chemical Communications</i> , 2015 , 51, 14540-2	5.8	34
43	A Lithium-Ion Battery based on an Ionic Liquid Electrolyte, Tin-Carbon Nanostructured Anode, and Li ₂ O ₂ /rO ₂ -Coated Li[Ni _{0.8} Co _{0.15} Al _{0.05}]O ₂ Cathode. <i>Energy Technology</i> , 2015 , 3, 632-637	3.5	26
42	Characteristics of a Graphene Nanoplatelet Anode in Advanced Lithium-Ion Batteries Using Ionic Liquid Added by a Carbonate Electrolyte. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500085	4.6	19
41	Graphene Nanoplatelets: Characteristics of a Graphene Nanoplatelet Anode in Advanced Lithium-Ion Batteries Using Ionic Liquid Added by a Carbonate Electrolyte (Adv. Mater. Interfaces 8/2015). <i>Advanced Materials Interfaces</i> , 2015 , 2, n/a-n/a	4.6	1
40	Graphene oxide-polyaniline-polypyrrole nanocomposite for a supercapacitor electrode. <i>RSC Advances</i> , 2015 , 5, 3005-3010	3.7	23
39	An Advanced Lithium-Ion Sulfur Battery for High Energy Storage. <i>Advanced Energy Materials</i> , 2015 , 5, 1500481	21.8	84
38	All Solid-State Lithium-Sulfur Battery Using a Glass-Type P ₂ S ₅ -Li ₂ S Electrolyte: Benefits on Anode Kinetics. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A646-A651	3.9	173
37	Effect of sulfur loading on energy density of lithium sulfur batteries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1895-1899	1.6	33
36	Recovery from self-assembly: a composite material for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7265	13	16
35	Fe ₂ O ₃ nanoparticles encapsulated in polypyrrole for quasi-solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3551	13	9
34	An advanced lithium-ion battery based on a graphene anode and a lithium iron phosphate cathode. <i>Nano Letters</i> , 2014 , 14, 4901-6	11.5	347
33	Characteristics of Li ₂ S ₈ -tetraglyme catholyte in a semi-liquid lithium-sulfur battery. <i>Journal of Power Sources</i> , 2014 , 265, 14-19	8.9	63
32	Influence of temperature on ionic liquid-based gel polymer electrolyte prepared by electrospun fibrous membrane. <i>Electrochimica Acta</i> , 2014 , 116, 321-325	6.7	12
31	Immobilisation of Flavin-Adenine-Dinucleotide-Dependent Glucose Dehydrogenase Subunit in Free-Standing Graphitised Carbon Nanofiber Paper Using a Bifunctional Cross-Linker for an Enzymatic Biofuel Cell. <i>ChemElectroChem</i> , 2014 , 1, 1844-1848	4.3	12
30	A layer-built rechargeable lithium ribbon-type battery for high energy density textile battery applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1774-1780	13	19
29	A lithium-ion sulfur battery based on a carbon-coated lithium-sulfide cathode and an electrodeposited silicon-based anode. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10924-8	9.5	108

28	Electrospinning of Cellulose: Process and Applications 2014 , 311-340		3
27	Gel polymer electrolytes based on nanofibrous polyacrylonitrile- <i>acrylate</i> for lithium batteries. <i>Materials Research Bulletin</i> , 2014 , 58, 208-212	5-1	7
26	Polymer electrolyte membranes composed of an electrospun poly(vinylidene fluoride) fibrous mat in a poly(4-vinylpyridine) matrix. <i>Polymer International</i> , 2013 , 62, 375-381	3-3	15
25	Progress in lithium-sulfur batteries: the effective role of a polysulfide-added electrolyte as buffer to prevent cathode dissolution. <i>ChemSusChem</i> , 2013 , 6, 2245-8	8-3	64
24	A ternary sulfur/polyaniline/carbon composite as cathode material for lithium sulfur batteries. <i>Electrochimica Acta</i> , 2013 , 109, 145-152	6-7	71
23	Facile preparation of nanoporous and nanocrystalline LiFePO ₄ with excellent electrochemical properties. <i>RSC Advances</i> , 2013 , 3, 20836	3-7	6
22	A lithium-sulfur battery using a solid, glass-type P ₂ S ₅ -Li ₂ S electrolyte. <i>Solid State Ionics</i> , 2013 , 244, 48-51	3-3	113
21	Nano-fibrous polymer films for organic rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2426-2430	13	38
20	High capacity cathode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1573-1578	13	72
19	Nickel-Layer Protected, Carbon-Coated Sulfur Electrode for Lithium Battery. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A390-A395	3-9	27
18	Preparation and application of TEMPO-based di-radical organic electrode with ionic liquid-based polymer electrolyte. <i>RSC Advances</i> , 2012 , 2, 10394	3-7	10
17	Electrospun polymer nanofibers: The booming cutting edge technology. <i>Reactive and Functional Polymers</i> , 2012 , 72, 915-930	4-6	124
16	Polymer electrolytes based on poly(vinylidene fluoride-co-hexafluoropropylene) nanofibrous membranes containing polymer plasticizers for lithium batteries. <i>Solid State Ionics</i> , 2012 , 225, 631-635	3-3	25
15	Improving the stability of an organic battery with an ionic liquid-based polymer electrolyte. <i>RSC Advances</i> , 2012 , 2, 9795	3-7	21
14	Towards flexible secondary lithium batteries: polypyrrole-LiFePO ₄ thin electrodes with polymer electrolytes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15045		37
13	Polysulfobetaines as extractants for Sr(II) ions from its aqueous solutions. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 1794-1801	3-2	3
12	The electrochemical properties of Li/TEGDME/MoS ₂ cells using multi-wall carbon nanotubes as a conducting agent. <i>Research on Chemical Intermediates</i> , 2010 , 36, 749-759	2-8	12
11	Electrochemical properties of rechargeable organic radical battery with PTMA cathode. <i>Metals and Materials International</i> , 2009 , 15, 77-82	2-4	47

10	Fabrication and characterization of electrolyte membranes based on organoclay/tripropyleneglycol diacrylate/poly(vinylidene fluoride) electrospun nanofiber composites. <i>Polymer International</i> , 2009 , 59, n/a-n/a	3.3	9
9	The electrochemical properties of nano-sized cobalt powder as an anode material for lithium batteries. <i>Electronic Materials Letters</i> , 2009 , 5, 183-186	2.9	18
8	Electrochemical properties of LiFePO ₄ /C synthesized by mechanical activation using sucrose as carbon source. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 799-805	2.6	56
7	The short-term cycling properties of Na/PVdF/S battery at ambient temperature. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 861-865	2.6	69
6	Novel microporous poly(vinylidene fluoride)-graft-poly(tert-butyl acrylate) electrolytes for secondary lithium batteries. <i>Polymer International</i> , 2008 , 57, 1199-1205	3.3	20
5	Effect of blend composition on the morphology development of electrospun fibres based on PAN/PMMA blends. <i>Polymer International</i> , 2008 , 57, 1357-1362	3.3	33
4	Effects of carbon coating on the electrochemical properties of sulfur cathode for lithium/sulfur cell. <i>Journal of Power Sources</i> , 2008 , 184, 548-552	8.9	175
3	Rechargeable lithium/sulfur battery with suitable mixed liquid electrolytes. <i>Electrochimica Acta</i> , 2007 , 52, 2075-2082	6.7	220
2	Excellent Electrochemical Performance of a Mesoporous Nickel Sulfide Anode for Na/K-Ion Batteries. <i>ACS Applied Energy Materials</i> ,	6.1	2
1	A high-rate free-standing Na ₃ V ₂ (PO ₄) ₃ symmetric full cell for sodium-ion batteries. <i>Sustainable Energy and Fuels</i> ,	5.8	1