Marco Agostini

List of Publications by Citations

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	An advanced lithium-ion battery based on a graphene anode and a lithium iron phosphate cathode. *Nano Letters*, **2014**, 14, 4901-6	11.5	347
98	Rechargeable lithium/sulfur battery with suitable mixed liquid electrolytes. *Electrochimica Acta*, **2007**, 52, 2075-2082	6.7	220
97	Effects of carbon coating on the electrochemical properties of sulfur cathode for lithium/sulfur cell. *Journal of Power Sources*, **2008**, 184, 548-552	8.9	175
96	All Solid-State Lithium–Sulfur Battery Using a Glass-Type P2S5–Li2S Electrolyte: Benefits on Anode Kinetics. *Journal of the Electrochemical Society*, **2015**, 162, A646-A651	3.9	173
95	Electrospun polymer nanofibers: The booming cutting edge technology. *Reactive and Functional Polymers*, **2012**, 72, 915-930	4.6	124
94	A lithium–sulfur battery using a solid, glass-type P2S5–Li2S electrolyte. *Solid State Ionics*, **2013**, 244, 48-51	3.3	113
93	A lithium-ion sulfur battery based on a carbon-coated lithium-sulfide cathode and an electrodeposited silicon-based anode. *ACS Applied Materials & Interfaces*, **2014**, 6, 10924-8	9.5	108
92	Polysulfide-containing Glyme-based Electrolytes for Lithium Sulfur Battery. *Chemistry of Materials*, **2015**, 27, 4604-4611	9.6	91
91	An Advanced Lithium-Ion Sulfur Battery for High Energy Storage. *Advanced Energy Materials*, **2015**, 5, 1500481	21.8	84
90	High capacity cathode materials for Li–S batteries. *Journal of Materials Chemistry A*, **2013**, 1, 1573-1578	13	72
89	A ternary sulfur/polyaniline/carbon composite as cathode material for lithium sulfur batteries. *Electrochimica Acta*, **2013**, 109, 145-152	6.7	71
88	The short-term cycling properties of Na/PVdF/S battery at ambient temperature. *Journal of Solid State Electrochemistry*, **2008**, 12, 861-865	2.6	69
87	Progress in lithium-sulfur batteries: the effective role of a polysulfide-added electrolyte as buffer to prevent cathode dissolution. *ChemSusChem*, **2013**, 6, 2245-8	8.3	64
86	Characteristics of Li2S8-tetraglyme catholyte in a semi-liquid lithium–sulfur battery. *Journal of Power Sources*, **2014**, 265, 14-19	8.9	63
85	Minimizing the Electrolyte Volume in Li–S Batteries: A Step Forward to High Gravimetric Energy Density. *Advanced Energy Materials*, **2018**, 8, 1801560	21.8	56
84	Electrochemical properties of LiFePO4/C synthesized by mechanical activation using sucrose as carbon source. *Journal of Solid State Electrochemistry*, **2008**, 12, 799-805	2.6	56
83	A lithium-ion sulfur battery using a polymer, polysulfide-added membrane. *Scientific Reports*, **2015**, 5, 7591	4.9	50

82	Anchoring MOF-derived CoS2 on sulfurized polyacrylonitrile nanofibers for high areal capacity lithium□sulfur batteries. *Journal of Materials Chemistry A*, **2020**, 8, 1298-1306	13	50
81	High Voltage Li-Ion Battery Using Exfoliated Graphite/Graphene Nanosheets Anode. *ACS Applied Materials & Interfaces*, **2016**, 8, 10850-7	9.5	49
80	Electrochemical properties of rechargeable organic radical battery with PTMA cathode. *Metals and Materials International*, **2009**, 15, 77-82	2.4	47
79	Nano-fibrous polymer films for organic rechargeable batteries. *Journal of Materials Chemistry A*, **2013**, 1, 2426-2430	13	38
78	Highly Ordered Mesoporous Sulfurized Polyacrylonitrile Cathode Material for High-Rate Lithium Sulfur Batteries. *Journal of Physical Chemistry C*, **2017**, 121, 26172-26179	3.8	37
77	Towards flexible secondary lithium batteries: polypyrrole-LiFePO4 thin electrodes with polymer electrolytes. *Journal of Materials Chemistry*, **2012**, 22, 15045		37
76	A long-life lithium ion sulfur battery exploiting high performance electrodes. *Chemical Communications*, **2015**, 51, 14540-2	5.8	34
75	Effect of sulfur loading on energy density of lithium sulfur batteries. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 1895-1899	1.6	33
74	Effect of blend composition on the morphology development of electrospun fibres based on PAN/PMMA blends. *Polymer International*, **2008**, 57, 1357-1362	3.3	33
73	New lignin-based polyurethane foam for wastewater treatment. *RSC Advances*, **2016**, 6, 77768-77776	3.7	32
72	All solid-state battery using layered oxide cathode, lithium-carbon composite anode and thio-LISICON electrolyte. *Solid State Ionics*, **2016**, 296, 13-17	3.3	30
71	A binder-free sulfur/reduced graphene oxide aerogel as high performance electrode materials for lithium sulfur batteries. *Scientific Reports*, **2016**, 6, 39615	4.9	29
70	Simple and scalable synthesis of CuS as an ultrafast and long-cycling anode for sodium ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 16239-16248	13	27
69	A free-standing reduced graphene oxide aerogel as supporting electrode in a fluorine-free Li2S8 catholyte Li-S battery. *Journal of Power Sources*, **2019**, 416, 111-117	8.9	27
68	Nickel-Layer Protected, Carbon-Coated Sulfur Electrode for Lithium Battery. *Journal of the Electrochemical Society*, **2012**, 159, A390-A395	3.9	27
67	A high-power and fast charging Li-ion battery with outstanding cycle-life. *Scientific Reports*, **2017**, 7, 1104	4.9	26
66	A Lithium-Ion Battery based on an Ionic Liquid Electrolyte, Tin□Carbon Nanostructured Anode, and Li2O□ZrO2-Coated Li[Ni0.8Co0.15Al0.05]O2 Cathode. *Energy Technology*, **2015**, 3, 632-637	3.5	26
65	Boosting High Energy Density Lithium-Ion Storage via the Rational Design of an FeS-Incorporated Sulfurized Polyacrylonitrile Fiber Hybrid Cathode. *ACS Applied Materials & Interfaces*, **2019**, 11, 29924-29933	9.5	26

64	Polymer electrolytes based on poly(vinylidene fluoride-co-hexafluoropropylene) nanofibrous membranes containing polymer plasticizers for lithium batteries. *Solid State Ionics*, **2012**, 225, 631-635	3.3	25
63	Graphene oxide–polyaniline–polypyrrole nanocomposite for a supercapacitor electrode. *RSC Advances*, **2015**, 5, 3005-3010	3.7	23
62	A flexible and free-standing FeS/sulfurized polyacrylonitrile hybrid anode material for high-rate sodium-ion storage. *Chemical Engineering Journal*, **2020**, 385, 123453	14.7	23
61	Carbon Composites for a High-Energy Lithium–Sulfur Battey with a Glyme-Based Electrolyte. *ChemElectroChem*, **2017**, 4, 209-215	4.3	22
60	High-power lithium polysulfide-carbon battery. *Carbon*, **2016**, 96, 125-130	10.4	21
59	Improving the stability of an organic battery with an ionic liquid-based polymer electrolyte. *RSC Advances*, **2012**, 2, 9795	3.7	21
58	Designing Highly Conductive Functional Groups Improving Guest-Host Interactions in Li/S Batteries. *Small*, **2020**, 16, e1905585	11	21
57	Lithium battery using sulfur infiltrated in three-dimensional flower-like hierarchical porous carbon electrode. *Materials Chemistry and Physics*, **2016**, 180, 82-88	4.4	21
56	Enhanced rate and cyclability of a porous Na3V2(PO4)3 cathode using dimethyl ether as the electrolyte for application in sodium-ion batteries. *Journal of Materials Chemistry A*, **2020**, 8, 9843-9849	13	20
55	Novel microporous poly(vinylidene fluoride)-graft-poly(tert-butyl acrylate) electrolytes for secondary lithium batteries. *Polymer International*, **2008**, 57, 1199-1205	3.3	20
54	Characteristics of a Graphene Nanoplatelet Anode in Advanced Lithium-Ion Batteries Using Ionic Liquid Added by a Carbonate Electrolyte. *Advanced Materials Interfaces*, **2015**, 2, 1500085	4.6	19
53	A layer-built rechargeable lithium ribbon-type battery for high energy density textile battery applications. *Journal of Materials Chemistry A*, **2014**, 2, 1774-1780	13	19
52	Enhanced safety and galvanostatic performance of high voltage lithium batteries by using ionic liquids. *Electrochimica Acta*, **2019**, 316, 1-7	6.7	18
51	The electrochemical properties of nano-sized cobalt powder as an anode material for lithium batteries. *Electronic Materials Letters*, **2009**, 5, 183-186	2.9	18
50	Stabilizing the Performance of High-Capacity Sulfur Composite Electrodes by a New Gel Polymer Electrolyte Configuration. *ChemSusChem*, **2017**, 10, 3490-3496	8.3	17
49	Effect of sodium salts on the cycling performance of tin anode in sodium ion batteries. *Ionics*, **2018**, 24, 753-761	2.7	16
48	Rational Design of Low Cost and High Energy Lithium Batteries through Tailored Fluorine-free Electrolyte and Nanostructured S/C Composite. *ChemSusChem*, **2018**, 11, 2981-2986	8.3	16
47	Recovery from self-assembly: a composite material for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2014**, 2, 7265	13	16

46	Route to sustainable lithium-sulfur batteries with high practical capacity through a fluorine free polysulfide catholyte and self-standing Carbon Nanofiber membranes. *Scientific Reports*, **2017**, 7, 6327	4.9	16
45	A mixed mechanochemical-ceramic solid-state synthesis as simple and cost effective route to high-performance LiNi0.5Mn1.5O4 spinels.. *Electrochimica Acta*, **2017**, 235, 262-269	6.7	15
44	Designing a Safe Electrolyte Enabling Long-Life Li/S Batteries. *ChemSusChem*, **2019**, 12, 4176-4184	8.3	15
43	Polymer electrolyte membranes composed of an electrospun poly(vinylidene fluoride) fibrous mat in a poly(4-vinylpyridine) matrix. *Polymer International*, **2013**, 62, 375-381	3.3	15
42	A Novel Li+-Nafion-Sulfonated Graphene Oxide Membrane as Single Lithium-Ion Conducting Polymer Electrolyte for Lithium Batteries. *Journal of Physical Chemistry C*, **2019**, 123, 27406-27416	3.8	14
41	Free-Standing 3D-Sponged Nanofiber Electrodes for Ultrahigh-Rate Energy-Storage Devices. *ACS Applied Materials & Interfaces*, **2018**, 10, 34140-34146	9.5	13
40	An innovative membrane-electrode assembly for efficient and durable polymer electrolyte membrane fuel cell operations. *International Journal of Hydrogen Energy*, **2017**, 42, 16686-16694	6.7	12
39	An Electrospun Nanofiber Membrane as Gel-Based Electrolyte for Room-Temperature Sodium–Sulfur Batteries. *Energy Technology*, **2018**, 6, 1214-1219	3.5	12
38	Influence of temperature on ionic liquid-based gel polymer electrolyte prepared by electrospun fibrous membrane. *Electrochimica Acta*, **2014**, 116, 321-325	6.7	12
37	Immobilisation of Flavin-Adenine-Dinucleotide-Dependent Glucose Dehydrogenase β-Subunit in Free-Standing Graphitised Carbon Nanofiber Paper Using a Bifunctional Cross-Linker for an Enzymatic Biofuel Cell. *ChemElectroChem*, **2014**, 1, 1844-1848	4.3	12
36	The electrochemical properties of Li/TEGDME/MoS2 cells using multi-wall carbon nanotubes as a conducting agent. *Research on Chemical Intermediates*, **2010**, 36, 749-759	2.8	12
35	In-Situ Construction of Iron Sulfide Nanoparticle Loaded Graphitic Carbon Capsules from Waste Biomass for Sustainable Lithium-Ion Storage. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6870-6879	8.3	11
34	An Electrospun Core-Shell Nanofiber Web as a High-Performance Cathode for Iron Disulfide-Based Rechargeable Lithium Batteries. *ChemSusChem*, **2018**, 11, 3625-3630	8.3	10
33	Preparation and application of TEMPO-based di-radical organic electrode with ionic liquid-based polymer electrolyte. *RSC Advances*, **2012**, 2, 10394	3.7	10
32	rGO-CNT aerogel embedding iron phosphide nanocubes for high-performance Li-polysulfide batteries. *Carbon*, **2020**, 167, 446-454	10.4	9
31	α-Fe2O3 nanoparticles encapsulated in polypyrrole for quasi-solid-state lithium batteries. *Journal of Materials Chemistry A*, **2014**, 2, 3551	13	9
30	Fabrication and characterization of electrolyte membranes based on organoclay/tripropyleneglycol diacrylate/poly(vinylidene fluoride) electrospun nanofiber composites. *Polymer International*, **2009**, 59, n/a-n/a	3.3	9
29	Multiscale Understanding of Covalently Fixed Sulfur-Polyacrylonitrile Composite as Advanced Cathode for Metal-Sulfur Batteries. *Advanced Science*, **2021**, 8, e2101123	13.6	9

28	Recent Developments and Future Challenges in Designing Rechargeable Potassium-Sulfur and Potassium-Selenium Batteries. *Energies*, **2020**, 13, 2791	3.1	8
27	High power Na3V2(PO4)3 symmetric full cell for sodium-ion batteries. *Nanoscale Advances*, **2020**, 2, 5166-5170	5.1	8
26	Ultra-long cycle life of flexible Sn anode using DME electrolyte. *Journal of Alloys and Compounds*, **2021**, 871, 159549	5.7	8
25	Gel polymer electrolytes based on nanofibrous polyacrylonitrile–acrylate for lithium batteries. *Materials Research Bulletin*, **2014**, 58, 208-212	5.1	7
24	Critical Role of Functional Groups Containing N, S, and O on Graphene Surface for Stable and Fast Charging Li-S Batteries. *Small*, **2021**, 17, e2007242	11	7
23	Understanding the Electrolytes of Lithium–Sulfur Batteries. *Batteries and Supercaps*, **2021**, 4, 1064-1095	5.6	7
22	Facile preparation of nanoporous and nanocrystalline LiFePO4 with excellent electrochemical properties. *RSC Advances*, **2013**, 3, 20836	3.7	6
21	Asymmetric separator integrated with ferroelectric-BaTiO3 and mesoporous-CNT for the reutilization of soluble polysulfide in lithium-sulfur batteries. *Journal of Alloys and Compounds*, **2022**, 893, 162272	5.7	6
20	Amine- and Amide-Functionalized Mesoporous Carbons: A Strategy for Improving Sulfur/Host Interactions in Li–S Batteries. *Batteries and Supercaps*, **2020**, 3, 757-765	5.6	5
19	Simple design of an in situ generated iron sulfide/carbon heterostructure with N, S codoping for high performance lithium/sodium-ion batteries. *Applied Surface Science*, **2021**, 554, 149587	6.7	5
18	Enhancement of Functional Properties of Liquid Electrolytes for Lithium-Ion Batteries by Addition of Pyrrolidinium-Based Ionic Liquids with Long Alkyl-Chains. *Batteries and Supercaps*, **2020**, 3, 1059-1068	5.6	4
17	Electrochemical Properties of Micron-Sized SnO Anode Using a Glyme-Based Electrolyte for Sodium-Ion Battery. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 6422-6426	1.3	4
16	Tailor-Made Electrospun Multilayer Composite Polymer Electrolytes for High-Performance Lithium Polymer Batteries. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 6499-6505	1.3	3
15	Electrospinning of Cellulose: Process and Applications **2014**, 311-340		3
14	Polysulfobetaines as extractants for Sr(II) ions from its aqueous solutions. *Polymers for Advanced Technologies*, **2011**, 22, 1794-1801	3.2	3
13	Realizing High-Performance Li/Na-Ion Half/Full Batteries via the Synergistic Coupling of Nano-Iron Sulfide and S-doped Graphene. *ChemSusChem*, **2021**, 14, 1936-1947	8.3	3
12	Highly Stable Fe3O4/C Composite: A Candidate Material for All Solid-State Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2020**, 167, 070556	3.9	3
11	Ultrahigh-rate nickel monosulfide anodes for sodium/potassium-ion storage. *Nanoscale*, **2021**, 13, 10447-10454	7.7	3

10	Free-Standing NiSⅡElectrode as High-Rate Anode Material for Sodium-Ion Batteries. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 7119-7123	1.3	2
9	Sodium Ion Storage of Carbon Supported Iron Sulfide Monochalcogenide in Carbonate and Ether Based Electrolytes. *Nanoscience and Nanotechnology Letters*, **2018**, 10, 1232-1237	0.8	2
8	Excellent Electrochemical Performance of a Mesoporous Nickel Sulfide Anode for Na/K-Ion Batteries. *ACS Applied Energy Materials*,	6.1	2
7	Effect of Nitrogen Doping on the Performance of Mesoporous CMK-8 Carbon Anodes for Li-Ion Batteries. *Energies*, **2020**, 13, 4998	3.1	2
6	Simple and Scalable Synthesis of Sulfurized Polyacrylonitrile Cathodes for Li/s Batteries. *Science of Advanced Materials*, **2021**, 13, 2282-2286	2.3	2
5	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). *Advanced Materials Interfaces*, **2015**, 2, n/a-n/a	4.6	1
4	Initial Discharge Behavior of an Ultra High Loading 3D Sulfur Cathode for a Room-Temperature Na/S Battery. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 6524-6527	1.3	1
3	Electrochemical Behavior of Sn/CuSn/C Composite Prepared by Using Pulsed Wire Explosion in Liquid Medium for Lithium-Ion Batteries. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 6455-6458	1.3	1
2	A high-rate free-standing Na3V2(PO4)3 symmetric full cell for sodium-ion batteries. *Sustainable Energy and Fuels*,	5.8	1
1	V2O5 Cryogel: A Versatile Electrode for All Solid State Lithium Batteries. *Journal of the Electrochemical Society*, **2019**, 166, A3927-A3931	3.9	0