

# Claudio Gerbaldi

## List of Publications by Citations

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154  
papers

8,177  
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59  
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161  
ext. papers

9,180  
ext. citations

7.1  
avg. IF

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L-index

#	Paper	IF	Citations
154	Improving efficiency and stability of perovskite solar cells with photocurable fluoropolymers. <i>Science</i> , <b>2016</b> , 354, 203-206	33.3	599
153	Aqueous dye-sensitized solar cells. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 3431-73	58.5	339
152	Super Soft All-Ethylene Oxide Polymer Electrolyte for Safe All-Solid Lithium Batteries. <i>Scientific Reports</i> , <b>2016</b> , 6, 19892	4.9	245
151	Cellulose-based Li-ion batteries: a review. <i>Cellulose</i> , <b>2013</b> , 20, 1523-1545	5.5	209
150	Hydrothermal synthesis of high surface LiFePO <sub>4</sub> powders as cathode for Li-ion cells. <i>Journal of Power Sources</i> , <b>2006</b> , 160, 516-522	8.9	206
149	Lithium ion conducting PVdF-HFP composite gel electrolytes based on N-methoxyethyl-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)-imide ionic liquid. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 559-566	8.9	202
148	Single-Ion Conducting Polymer Electrolytes for Lithium Metal Polymer Batteries that Operate at Ambient Temperature. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 678-682	20.1	195
147	Single-Ion Block Copoly(ionic liquid)s as Electrolytes for All-Solid State Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 10350-9	9.5	188
146	Recent advances in eco-friendly and cost-effective materials towards sustainable dye-sensitized solar cells. <i>Green Chemistry</i> , <b>2020</b> , 22, 7168-7218	10	147
145	Innovative high performing metal organic framework (MOF)-laden nanocomposite polymer electrolytes for all-solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9948-9954	13	142
144	Microfibrillated cellulose-graphite nanocomposites for highly flexible paper-like Li-ion battery electrodes. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7344		107
143	A flexible and portable powerpack by solid-state supercapacitor and dye-sensitized solar cell integration. <i>Journal of Power Sources</i> , <b>2017</b> , 359, 311-321	8.9	105
142	Cellulose-based novel hybrid polymer electrolytes for green and efficient Na-ion batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 174, 185-190	6.7	103
141	A New Design Paradigm for Smart Windows: Photocurable Polymers for Quasi-Solid Photoelectrochromic Devices with Excellent Long-Term Stability under Real Outdoor Operating Conditions. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1127-1137	15.6	100
140	Caesium for Perovskite Solar Cells: An Overview. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 12183-12205	4.8	100
139	Single-ion triblock copolymer electrolytes based on poly(ethylene oxide) and methacrylic sulfonamide blocks for lithium metal batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 364, 191-199	8.9	92
138	Approaching truly sustainable solar cells by the use of water and cellulose derivatives. <i>Green Chemistry</i> , <b>2017</b> , 19, 1043-1051	10	89

137	Microfibrillated cellulose as reinforcement for Li-ion battery polymer electrolytes with excellent mechanical stability. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 10280-10288	8.9	89
136	Nanocellulose-laden composite polymer electrolytes for high performing lithium-sulphur batteries. <i>Energy Storage Materials</i> , <b>2016</b> , 3, 69-76	19.4	87
135	Paper-based quasi-solid dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2017</b> , 237, 87-93	6.7	85
134	Thermally cured semi-interpenetrating electrolyte networks (s-IPN) for safe and aging-resistant secondary lithium polymer batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 306, 258-267	8.9	85
133	Metal organic framework laden poly(ethylene oxide) based composite electrolytes for all-solid-state Li-S and Li-metal polymer batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 285, 355-364	6.7	84
132	Hydrogel Electrolytes Based on Xanthan Gum: Green Route towards Stable Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	84
131	Finely tuning electrolytes and photoanodes in aqueous solar cells by experimental design. <i>Solar Energy</i> , <b>2018</b> , 163, 251-255	6.8	83
130	Light-cured polymer electrolytes for safe, low-cost and sustainable sodium-ion batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 365, 293-302	8.9	82
129	Cycling profile of MgAl <sub>2</sub> O <sub>4</sub> -incorporated composite electrolytes composed of PEO and LiPF <sub>6</sub> for lithium polymer batteries. <i>Electrochimica Acta</i> , <b>2013</b> , 90, 179-185	6.7	82
128	Room temperature ionic liquid (RTIL)-based electrolyte cocktails for safe, high working potential Li-based polymer batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 412, 398-407	8.9	81
127	Cobalt-Based Electrolytes for Dye-Sensitized Solar Cells: Recent Advances towards Stable Devices. <i>Energies</i> , <b>2016</b> , 9, 384	3.1	80
126	Unveiling the controversial mechanism of reversible Na storage in TiO <sub>2</sub> nanotube arrays: Amorphous versus anatase TiO <sub>2</sub> . <i>Nano Research</i> , <b>2017</b> , 10, 2891-2903	10	78
125	Combined Structural, Chemometric, and Electrochemical Investigation of Vertically Aligned TiO Nanotubes for Na-ion Batteries. <i>ACS Omega</i> , <b>2018</b> , 3, 8440-8450	3.9	78
124	Multi-functional energy conversion and storage electrodes using flower-like Zinc oxide nanostructures. <i>Energy</i> , <b>2014</b> , 65, 639-646	7.9	76
123	UV-cured polymer electrolytes encompassing hydrophobic room temperature ionic liquid for lithium batteries. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 1706-1713	8.9	76
122	Unveiling iodine-based electrolytes chemistry in aqueous dye-sensitized solar cells. <i>Chemical Science</i> , <b>2016</b> , 7, 4880-4890	9.4	76
121	UV-Cross-Linked Composite Polymer Electrolyte for High-Rate, Ambient Temperature Lithium Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1600-1607	6.1	76
120	A water-based and metal-free dye solar cell exceeding 7% efficiency using a cationic poly(3,4-ethylenedioxythiophene) derivative. <i>Chemical Science</i> , <b>2020</b> , 11, 1485-1493	9.4	75

119	UV-cured methacrylic membranes as novel gel polymer electrolyte for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2008</b> , 178, 751-757	8.9	75
118	Understanding the Effect of UV-Induced Cross-Linking on the Physicochemical Properties of Highly Performing PEO/LiTFSI-Based Polymer Electrolytes. <i>Langmuir</i> , <b>2019</b> , 35, 8210-8219	4	74
117	Luminescent Downshifting by Photo-Induced Sol-Gel Hybrid Coatings: Accessing Multifunctionality on Flexible Organic Photovoltaics via Ambient Temperature Material Processing. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600288	6.4	73
116	Towards green, efficient and durable quasi-solid dye-sensitized solar cells integrated with a cellulose-based gel-polymer electrolyte optimized by a chemometric DoE approach. <i>RSC Advances</i> , <b>2013</b> , 3, 15993	3.7	73
115	Aqueous processing of cellulose based paper-anodes for flexible Li-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3227		73
114	PEO/LAGP hybrid solid polymer electrolytes for ambient temperature lithium batteries by solvent-free, one pot preparation. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 100947	7.8	71
113	Zinc oxide nanostructures by chemical vapour deposition as anodes for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 640, 321-326	5.7	71
112	Innovative multipolymer electrolyte membrane designed by oxygen inhibited UV-crosslinking enables solid-state in plane integration of energy conversion and storage devices. <i>Energy</i> , <b>2019</b> , 166, 789-795	7.9	71
111	Boosting the efficiency of aqueous solar cells: A photoelectrochemical estimation on the effectiveness of TiCl <sub>4</sub> treatment. <i>Electrochimica Acta</i> , <b>2019</b> , 302, 31-37	6.7	70
110	A simple route toward next-gen green energy storage concept by nanofibres-based self-supporting electrodes and a solid polymeric design. <i>Carbon</i> , <b>2016</b> , 107, 811-822	10.4	70
109	A UV-crosslinked polymer electrolyte membrane for quasi-solid dye-sensitized solar cells with excellent efficiency and durability. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 3706-11	3.6	70
108	Photopolymer Electrolytes for Sustainable, Upscalable, Safe, and Ambient-Temperature Sodium-Ion Secondary Batteries. <i>ChemSusChem</i> , <b>2015</b> , 8, 3668-76	8.3	68
107	Newly Elaborated Multipurpose Polymer Electrolyte Encompassing RTILs for Smart Energy-Efficient Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 12961-71	9.5	65
106	Interfacial Effects in Solid-Liquid Electrolytes for Improved Stability and Performance of Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37797-37803	9.5	63
105	Direct light-induced polymerization of cobalt-based redox shuttles: an ultrafast way towards stable dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2015</b> , 51, 16308-11	5.8	63
104	Photoanode/Electrolyte Interface Stability in Aqueous Dye-Sensitized Solar Cells. <i>Energy Technology</i> , <b>2017</b> , 5, 300-311	3.5	63
103	Flexible cellulose/LiFePO <sub>4</sub> paper-cathodes: toward eco-friendly all-paper Li-ion batteries. <i>Cellulose</i> , <b>2013</b> , 20, 571-582	5.5	63
102	Patterning dye-sensitized solar cell photoanodes through a polymeric approach: A perspective. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 73, 92-98	4.3	62

101	Spray-Dried Mesoporous Mixed Cu-Ni Oxide@Graphene Nanocomposite Microspheres for High Power and Durable Li-Ion Battery Anodes. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802438	21.8	62
100	Single Ion Conducting Polymer Electrolytes Based On Versatile Polyurethanes. <i>Electrochimica Acta</i> , <b>2017</b> , 241, 526-534	6.7	61
99	Structure-Performance Correlation of Nanocellulose-Based Polymer Electrolytes for Efficient Quasi-solid DSSCs. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1350-1358	4.3	60
98	UV-curable siloxane-acrylate gel-copolymer electrolytes for lithium-based battery applications. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 1460-1467	6.7	60
97	As-grown vertically aligned amorphous TiO <sub>2</sub> nanotube arrays as high-rate Li-based micro-battery anodes with improved long-term performance. <i>Electrochimica Acta</i> , <b>2015</b> , 151, 222-229	6.7	59
96	Poly(glycidyl ether)s recycling from industrial waste and feasibility study of reuse as electrolytes in sodium-based batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122934	14.7	59
95	Methacrylic-based solid polymer electrolyte membranes for lithium-based batteries by a rapid UV-curing process. <i>Reactive and Functional Polymers</i> , <b>2011</b> , 71, 409-416	4.6	58
94	Hybrid ordered mesoporous carbons doped with tungsten trioxide as supports for Pt electrocatalysts for methanol oxidation reaction. <i>Electrochimica Acta</i> , <b>2013</b> , 94, 80-91	6.7	56
93	Pyridine-based PBI Composite Membranes for PEMFCs. <i>Fuel Cells</i> , <b>2009</b> , 9, 349-355	2.9	56
92	Tuning optical and electronic properties in novel carbazole photosensitizers for p-type dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2018</b> , 292, 805-816	6.7	55
91	PBI Composite and Nanocomposite Membranes for PEMFCs: The Role of the Filler. <i>Fuel Cells</i> , <b>2009</b> , 9, 231-236	2.9	52
90	Photoanodes for Aqueous Solar Cells: Exploring Additives and Formulations Starting from a Commercial TiO <sub>2</sub> Paste. <i>ChemSusChem</i> , <b>2020</b> , 13, 6562-6573	8.3	52
89	Large conductance modulation of gold thin films by huge charge injection via electrochemical gating. <i>Physical Review Letters</i> , <b>2012</b> , 108, 066807	7.4	50
88	First-principles study of Na insertion at TiO <sub>2</sub> anatase surfaces: new hints for Na-ion battery design. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 2745-2751	5.1	47
87	Optimisation of some parameters for the preparation of nanostructured LiFePO <sub>4</sub> /C cathode. <i>Ionics</i> , <b>2009</b> , 15, 19-26	2.7	46
86	Cycling profile of innovative nanochitin-incorporated poly (ethylene oxide) based electrolytes for lithium batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 228, 294-299	8.9	43
85	Polyethylene oxide electrolyte membranes with pyrrolidinium-based ionic liquids. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 5478-5484	6.7	42
84	Photoelectrochromic devices with cobalt redox electrolytes. <i>Materials Today Energy</i> , <b>2020</b> , 15, 100365	7	42

83	Vertically aligned TiO <sub>2</sub> nanotube array for high rate Li-based micro-battery anodes with improved durability. <i>Electrochimica Acta</i> , <b>2013</b> , 102, 233-239	6.7	41
82	Xanthan-Based Hydrogel for Stable and Efficient Quasi-Solid Truly Aqueous Dye-Sensitized Solar Cell with Cobalt Mediator. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000823	7.1	38
81	Novel cellulose reinforcement for polymer electrolyte membranes with outstanding mechanical properties. <i>Electrochimica Acta</i> , <b>2011</b> , 57, 104-111	6.7	37
80	Highly ionic conducting methacrylic-based gel-polymer electrolytes by UV-curing technique. <i>Journal of Applied Electrochemistry</i> , <b>2009</b> , 39, 2199-2207	2.6	36
79	Mesoporous TiO <sub>2</sub> nanocrystals produced by a fast hydrolytic process as high-rate long-lasting Li-ion battery anodes. <i>Acta Materialia</i> , <b>2014</b> , 69, 60-67	8.4	35
78	UV-cured polymer electrolyte membranes for Li-cells: Improved mechanical properties by a novel cellulose reinforcement. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1796-1798	5.1	35
77	Mesoporous carbons as low temperature fuel cell platinum catalyst supports. <i>Journal of Applied Electrochemistry</i> , <b>2008</b> , 38, 1019-1027	2.6	34
76	Cycling behaviour of sponge-like nanostructured ZnO as thin-film Li-ion battery anodes. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S454-S458	5.7	32
75	Surfactant-assisted sol gel preparation of high-surface area mesoporous TiO <sub>2</sub> nanocrystalline Li-ion battery anodes. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 594, 114-121	5.7	32
74	Smart synthesis of hollow core mesoporous shell carbons (HCMSC) as effective catalyst supports for methanol oxidation and oxygen reduction reactions. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 3087-3096	2.6	32
73	Aqueous processing of paper separators by filtration dewatering: towards Li-ion paper batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14894-14901	13	31
72	Highly Porous Paper Loading with Microfibrillated Cellulose by Spray Coating on Wet Substrates. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 10982-10989	3.9	31
71	FePO <sub>4</sub> nanoparticles supported on mesoporous SBA-15: Interesting cathode materials for Li-ion cells. <i>Journal of Power Sources</i> , <b>2007</b> , 174, 501-507	8.9	30
70	Ordered Mesoporous Carbons as Catalyst Support for PEM Fuel Cells. <i>Fuel Cells</i> , <b>2009</b> , 9, 197-200	2.9	29
69	Facile fabrication of cuprous oxide nanocomposite anode films for flexible Li-ion batteries via thermal oxidation. <i>Electrochimica Acta</i> , <b>2012</b> , 86, 323-329	6.7	27
68	All-solid-state lithium-based polymer cells for high-temperature applications. <i>Ionics</i> , <b>2010</b> , 16, 777-786	2.7	27
67	New electrolyte membranes for Li-based cells: Methacrylic polymers encompassing pyrrolidinium-based ionic liquid by single step photo-polymerisation. <i>Journal of Membrane Science</i> , <b>2012</b> , 423-424, 459-467	9.6	25
66	Temperature dependence of electric transport in few-layer graphene under large charge doping induced by electrochemical gating. <i>Scientific Reports</i> , <b>2015</b> , 5, 9554	4.9	24

65	Design of ionic liquid like monomers towards easy-accessible single-ion conducting polymer electrolytes. <i>European Polymer Journal</i> , <b>2018</b> , 107, 218-228	5.2	24
64	Pilot-scale elaboration of graphite/microfibrillated cellulose anodes for Li-ion batteries by spray deposition on a forming paper sheet. <i>Chemical Engineering Journal</i> , <b>2014</b> , 243, 372-379	14.7	24
63	Electrochemistry of orthosilicate-based lithium battery cathodes: a perspective. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 10353-66	3.6	24
62	Facile fabrication of cuprous oxide nanocomposite anode films for flexible Li-ion batteries via thermal oxidation. <i>Electrochimica Acta</i> , <b>2012</b> , 70, 62-68	6.7	24
61	Montmorillonite-based ceramic membranes as novel lithium-ion battery separators. <i>Ionics</i> , <b>2014</b> , 20, 943-948	2.7	24
60	Gallium oxide nanorods as novel, safe and durable anode material for Li- and Na-ion batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 235, 143-149	6.7	23
59	Nanoscale microfibrillated cellulose reinforced truly-solid polymer electrolytes for flexible, safe and sustainable lithium-based batteries. <i>Cellulose</i> , <b>2013</b> , 20, 2439-2449	5.5	23
58	High-rate V2O5-based Li-ion thin film polymer cell with outstanding long-term cyclability. <i>Nano Energy</i> , <b>2013</b> , 2, 1279-1286	17.1	23
57	Truly quasi-solid-state lithium cells utilizing carbonate free polymer electrolytes on engineered LiFePO4. <i>Electrochimica Acta</i> , <b>2016</b> , 199, 172-179	6.7	22
56	Managing transport properties in composite electrodes/electrolytes for all-solid-state lithium-based batteries. <i>Molecular Systems Design and Engineering</i> , <b>2019</b> , 4, 850-871	4.6	21
55	Surfactant-assisted mild hydrothermal synthesis to nanostructured mixed orthophosphates LiMnyFe <sub>1-x</sub> PO <sub>4</sub> /C lithium insertion cathode materials. <i>Electrochimica Acta</i> , <b>2013</b> , 105, 99-109	6.7	21
54	An elegant and facile single-step UV-curing approach to surface nano-silvering of polymer composites. <i>Soft Matter</i> , <b>2010</b> , 6, 4666	3.6	21
53	Cellulose/graphite/carbon fibres composite electrodes for Li-ion batteries. <i>Composites Science and Technology</i> , <b>2013</b> , 87, 232-239	8.6	20
52	MgAl <sub>2</sub> SiO <sub>6</sub> -incorporated poly(ethylene oxide)-based electrolytes for all-solid-state lithium batteries. <i>Ionics</i> , <b>2014</b> , 20, 151-156	2.7	20
51	UV-cured Al <sub>2</sub> O <sub>3</sub> -laden cellulose reinforced polymer electrolyte membranes for Li-based batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 97-105	6.7	19
50	Weak localization in electric-double-layer gated few-layer graphene. <i>2D Materials</i> , <b>2017</b> , 4, 035006	5.9	18
49	Polymer-in-Ceramic Nanocomposite Solid Electrolyte for Lithium Metal Batteries Encompassing PEO-Grafted TiO <sub>2</sub> Nanocrystals. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 070535	3.9	18
48	Role of surface defects in CO <sub>2</sub> adsorption and activation on CuFeO <sub>2</sub> delafossite oxide. <i>Molecular Catalysis</i> , <b>2020</b> , 496, 111181	3.3	17

47	Huge field-effect surface charge injection and conductance modulation in metallic thin films by electrochemical gating. <i>Applied Surface Science</i> , <b>2013</b> , 269, 17-22	6.7	17
46	Use of paper-making techniques for the production of Li-ion paper-batteries. <i>Nordic Pulp and Paper Research Journal</i> , <b>2012</b> , 27, 472-475	1.1	16
45	Graphene and Lithium-Based Battery Electrodes: A Review of Recent Literature. <i>Energies</i> , <b>2020</b> , 13, 48673.1	16	
44	Unveiling Oxygen Redox Activity in P2-Type $\text{Na}_x\text{Ni}_{0.25}\text{Mn}_{0.68}\text{O}_2$ High-Energy Cathode for Na-Ion Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2470-2480	20.1	16
43	. <i>Advanced Energy Materials</i> , 2100785	21.8	16
42	Carrier mobility and scattering lifetime in electric double-layer gated few-layer graphene. <i>Applied Surface Science</i> , <b>2017</b> , 395, 37-41	6.7	15
41	Cellulose/acrylate membranes for flexible lithium batteries electrolytes: Balancing improved interfacial integrity and ionic conductivity. <i>European Polymer Journal</i> , <b>2014</b> , 57, 22-29	5.2	15
40	Surfactant-assisted mild solvothermal synthesis of nanostructured $\text{LiFePO}_4/\text{C}$ cathodes evidencing ultrafast rate capability. <i>Electrochimica Acta</i> , <b>2015</b> , 156, 188-198	6.7	15
39	Pd/SiO <sub>2</sub> as Heterogeneous Catalyst for the Heck Reaction: Evidence for a Sensitivity to the Surface Structure of Supported Particles. <i>Catalysis Letters</i> , <b>2009</b> , 132, 50-57	2.8	15
38	Superconducting Transition Temperature Modulation in NbN via EDL Gating. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2016</b> , 29, 587-591	1.5	15
37	Metallopolymer capacitor in "one pot" by self-directed UV-assisted process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 3192-200	9.5	14
36	Floating, Flexible Polymeric Dye-Sensitized Solar-Cell Architecture: The Way of Near-Future Photovoltaics. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1,	6.8	14
35	Novel multiphase electrode/electrolyte composites for next generation of flexible polymeric Li-ion cells. <i>Journal of Applied Electrochemistry</i> , <b>2013</b> , 43, 137-145	2.6	13
34	Development of gel-polymer electrolytes and nano-structured electrodes for Li-ion polymer batteries. <i>Journal of Applied Electrochemistry</i> , <b>2008</b> , 38, 985-992	2.6	12
33	Mesoporous Si and Multi-Layered Si/C Films by Pulsed Laser Deposition as Li-Ion Microbattery Anodes. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A1816-A1822	3.9	11
32	Remarkably stable high power Li-ion battery anodes based on vertically arranged multilayered-graphene. <i>Electrochimica Acta</i> , <b>2015</b> , 182, 500-506	6.7	11
31	$\text{Na}_3\text{V}_2(\text{PO}_4)_3$ -Supported Electrospun Carbon Nanofiber Nonwoven Fabric as Self-Standing Na-Ion Cell Cathode. <i>ChemElectroChem</i> , <b>2020</b> , 7, 1652-1659	4.3	11
30	UV-Induced Radical Photo-Polymerization: A Smart Tool for Preparing Polymer Electrolyte Membranes for Energy Storage Devices. <i>Membranes</i> , <b>2012</b> , 2, 687-704	3.8	11



29	Novel self-directed dual surface metallisation via UV-curing technique for flexible polymeric capacitors. <i>Organic Electronics</i> , <b>2010</b> , 11, 1802-1808	3.5	11
28	Degradable photopolymerized thiol-based solid polymer electrolytes towards greener Li-ion batteries. <i>Polymer</i> , <b>2015</b> , 75, 64-72	3.9	9
27	Ultrafast, low temperature microwave-assisted solvothermal synthesis of nanostructured lithium iron phosphate optimized by a chemometric approach. <i>Electrochimica Acta</i> , <b>2015</b> , 184, 381-386	6.7	9
26	Flexible and high performing polymer electrolytes obtained by UV-induced polymer/cellulose grafting. <i>RSC Advances</i> , <b>2014</b> , 4, 40873-40881	3.7	9
25	Mechanochemical synthesis and electrochemical properties of nanostructured electrode materials for Li ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2009</b> , 13, 239-243	2.6	9
24	Ambipolar suppression of superconductivity by ionic gating in optimally doped BaFe <sub>2</sub> (As,P) <sub>2</sub> ultrathin films. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	9
23	Unique Carbonate-Based Single Ion Conducting Block Copolymers Enabling High-Voltage, All-Solid-State Lithium Metal Batteries. <i>Macromolecules</i> , <b>2021</b> , 54, 6911-6924	5.5	8
22	Enabling safe and stable Li metal batteries with protic ionic liquid electrolytes and high voltage cathodes. <i>Journal of Power Sources</i> , <b>2021</b> , 481, 228979	8.9	8
21	Fe <sub>2</sub> O <sub>3</sub> lithium battery anodes by nanocasting strategy from ordered 2D and 3D templates. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S482-S486	5.7	7
20	Protic Ionic Liquids-Based Crosslinked Polymer Electrolytes: A New Class of Solid Electrolytes for Energy Storage Devices. <i>Energy Technology</i> , <b>2020</b> , 8, 2000742	3.5	7
19	Waste to life: Low-cost, self-standing, 2D carbon fiber green Li-ion battery anode made from end-of-life cotton textile. <i>Electrochimica Acta</i> , <b>2021</b> , 368, 137644	6.7	7
18	Xanthan-Based Hydrogel for Stable and Efficient Quasi-Solid Truly Aqueous Dye-Sensitized Solar Cell with Cobalt Mediator. <i>Solar Rrl</i> , <b>2021</b> , 5, 2170074	7.1	6
17	Nanostructured Electrodes and Gel-Polymer Electrolyte for an Improved Li-ion Battery. <i>Fuel Cells</i> , <b>2009</b> , 9, 273-276	2.9	5
16	Characterization of Mn species in mesoporous systems: An electrochemical study. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 5539-5545	6.7	5
15	A bilayer polymer electrolyte encompassing pyrrolidinium-based RTIL for binder-free silicon few-layer graphene nanocomposite anodes for Li-ion battery. <i>Electrochemistry Communications</i> , <b>2020</b> , 118, 106807	5.1	5
14	Mesoporous Silicon Nanostructures by Pulsed Laser Deposition as Li-Ion Battery Anodes. <i>ECS Transactions</i> , <b>2014</b> , 62, 107-115	1	4
13	Facile functionalization by $\pi$ -stacking of macroscopic substrates made of vertically aligned carbon nanotubes: Tracing reactive groups by electrochemiluminescence. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 9269-9276	6.7	3
12	Sodium diffusion in ionic liquid-based electrolytes for Na-ion batteries: the effect of polarizable force fields. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 20114-20122	3.6	3

11	Structure-Performance Correlation of Nanocellulose-Based Polymer Electrolytes for Efficient Quasi-solid DSSCs. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1241-1241	4.3	2
10	UV-Induced Radical Photo-Polymerization: A Smart Tool for Preparing Polymer Electrolyte Membranes for Energy Storage Devices. <i>Membranes</i> , <b>2012</b> , 2, 307-24	3.8	2
9	Membranes for lithium batteries <b>2011</b> , 435-464		2
8	Nanocast nitrogen-containing ordered mesoporous carbons from glucosamine for selective CO <sub>2</sub> capture. <i>Materials Today Sustainability</i> , <b>2021</b> , 100089	5	2
7	Self-assembly of Li single-ion-conducting block copolymers for improved conductivity and viscoelastic properties. <i>Electrochimica Acta</i> , <b>2022</b> , 413, 140126	6.7	2
6	Li <sub>1.4</sub> Al <sub>0.4</sub> Ge <sub>0.4</sub> Ti <sub>1.4</sub> (PO <sub>4</sub> ) <sub>3</sub> promising NASICON-structured glass-ceramic electrolyte for all-solid-state Li-based batteries: Unravelling the effect of diboron trioxide. <i>Journal of the European Ceramic Society</i> , <b>2022</b> , 42, 1023-1032	6	1
5	Effect of Thermal Stabilization on PAN-Derived Electrospun Carbon Nanofibers for CO Capture. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
4	Chapter 16:Photopolymers for Third-generation Solar Cells. <i>RSC Polymer Chemistry Series</i> , <b>2018</b> , 504-523	1.3	1
3	Natural Polymers for Dye-Sensitized Solar Cells: Electrolytes and Electrodes <b>2016</b> , 1-17		1
2	Solvent-Free Mechanochemical Approach towards Thiospinel MgCr <sub>2</sub> S <sub>4</sub> as a Potential Electrode for Post-Lithium Ion Batteries. <i>Batteries</i> , <b>2020</b> , 6, 43	5.7	0
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