

Daniele Di Lecce

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Lithium-ion batteries for sustainable energy storage: recent advances towards new cell configurations. <i>Green Chemistry</i> , 2017, 19, 3442-3467.	9.0	205
2	Current status and future perspectives of lithium metal batteries. <i>Journal of Power Sources</i> , 2020, 480, 228803.	7.8	109
3	2021 roadmap on lithium sulfur batteries. <i>JPhys Energy</i> , 2021, 3, 031501.	5.3	74
4	Lithium Transport Properties in $\text{LiMn}_{1-x}\text{Fe}_x\text{PO}_4$ Olivine Cathodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20855-20863.	3.1	63
5	Multiwalled Carbon Nanotubes Anode in Lithium-Ion Battery with LiCoO_2 , $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$, and $\text{LiFe}_{1/4}\text{Mn}_{1/2}\text{Co}_{1/4}\text{PO}_4$ Cathodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3225-3232.	6.7	47
6	Rechargeable lithium battery using non-flammable electrolyte based on tetraethylene glycol dimethyl ether and olivine cathodes. <i>Journal of Power Sources</i> , 2016, 334, 146-153.	7.8	46
7	A Lithium-Ion Battery using a 3D Array Nanostructured Graphene-Sulfur Cathode and a Silicon Oxide-Based Anode. <i>ChemSusChem</i> , 2018, 11, 1512-1520.	6.8	46
8	Electrochemical features of LiMnPO_4 olivine prepared by sol-gel pathway. <i>Journal of Alloys and Compounds</i> , 2017, 693, 730-737.	5.5	42
9	Controlled synthesis of LiCoPO_4 by a solvo-thermal method at 220°C . <i>Materials Letters</i> , 2015, 145, 324-327.	2.6	40
10	Effect of the iron doping in LiCoPO_4 cathode materials for lithium cells. <i>Electrochimica Acta</i> , 2015, 185, 17-27.	5.2	39
11	Lithium sulfur battery exploiting material design and electrolyte chemistry: 3D graphene framework and diglyme solution. <i>Journal of Power Sources</i> , 2018, 397, 102-112.	7.8	37
12	A High Voltage Olivine Cathode for Application in Lithium-Ion Batteries. <i>ChemSusChem</i> , 2016, 9, 223-230.	6.8	34
13	A new $\text{Sn-C/LiFe}_{0.1}\text{Co}_{0.9}\text{PO}_4$ full lithium-ion cell with ionic liquid-based electrolyte. <i>Materials Letters</i> , 2015, 139, 329-332.	2.6	33
14	A New $\text{CuO-Fe}_2\text{O}_3$ -Mesocarbon Microbeads Conversion Anode in a High-Performance Lithium-Ion Battery with a $\text{Li}_{1.35}\text{Ni}_{0.48}\text{Fe}_{0.1}\text{Mn}_{1.72}\text{O}_4$ Spinel Cathode. <i>ChemSusChem</i> , 2017, 10, 1607-1615.	6.8	30
15	A Gel-Polymer $\text{Sn-C/LiMn}_{0.5}\text{Fe}_{0.5}\text{PO}_4$ Battery Using a Fluorine-Free Salt. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21198-21207.	8.0	29
16	Glyme-based electrolytes: suitable solutions for next-generation lithium batteries. <i>Green Chemistry</i> , 2022, 24, 1021-1048.	9.0	28
17	Analysis of the self-discharge process in LiCoPO_4 electrodes: bulks. <i>Electrochimica Acta</i> , 2015, 179, 604-610.	5.2	27
18	A Lithium-Ion Battery based on an Ionic Liquid Electrolyte, Tin-Carbon Nanostructured Anode, and $\text{Li}_2\text{O-ZrO}_2$ -Coated $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}]\text{O}_2$ Cathode. <i>Energy Technology</i> , 2015, 3, 632-637.	3.8	27

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19	The role of synthesis pathway on the microstructural characteristics of sulfur-carbon composites: X-ray imaging and electrochemistry in lithium battery. <i>Journal of Power Sources</i> , 2020, 472, 228424.	7.8	26
20	Relevant Features of a Triethylene Glycol Dimethyl Ether-Based Electrolyte for Application in Lithium Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17085-17095.	8.0	24
21	High capacity semi-liquid lithium sulfur cells with enhanced reversibility for application in new-generation energy storage systems. <i>Journal of Power Sources</i> , 2019, 412, 575-585.	7.8	23
22	Investigating high-performance sulfur-metal nanocomposites for lithium batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2907-2923.	4.9	22
23	Insight on the Enhanced Reversibility of a Multimetal Layered Oxide for Sodium-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23925-23933.	3.1	21
24	Characteristics of a gold-doped electrode for application in high-performance lithium-sulfur battery. <i>Journal of Energy Chemistry</i> , 2022, 64, 116-128.	12.9	21
25	Triglyme-based electrolyte for sodium-ion and sodium-sulfur batteries. <i>Ionics</i> , 2019, 25, 3129-3141.	2.4	20
26	Investigation of Mn and Fe Substitution Effects on the Characteristics of High-Voltage $\text{LiCo}_{1-x}\text{M}_x\text{PO}_4$ ($x = 0.1, 0.4$) Cathodes Prepared by Sol-gel Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 278-289.	6.7	15
27	New lithium ion batteries exploiting conversion/alloying anode and $\text{LiFe}_{0.25}\text{Mn}_{0.5}\text{Co}_{0.25}\text{PO}_4$ olivine cathode. <i>Electrochimica Acta</i> , 2016, 220, 384-390.	5.2	14
28	X-ray Nano-computed Tomography of Electrochemical Conversion in Lithium-Ion Battery. <i>ChemSusChem</i> , 2019, 12, 3550-3561.	6.8	14
29	Glyme-based electrolytes for lithium metal batteries using insertion electrodes: An electrochemical study. <i>Electrochimica Acta</i> , 2019, 306, 85-95.	5.2	14
30	A multiple electrolyte concept for lithium-metal batteries. <i>Solid State Ionics</i> , 2018, 316, 66-74.	2.7	13
31	Lithium Metal Battery Using $\text{LiFe}_{0.5}\text{Mn}_{0.5}\text{PO}_4$ Olivine Cathode and Pyrrolidinium-Based Ionic Liquid Electrolyte. <i>ACS Omega</i> , 2018, 3, 8583-8588.	3.5	13
32	Electrochemical behavior of nanostructured NiO@C anode in a lithium-ion battery using $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ cathode. <i>Journal of Alloys and Compounds</i> , 2020, 844, 155365.	5.5	13
33	Synthesis of a High-Capacity $\text{Fe}_2\text{O}_3\text{@C}$ Conversion Anode and a High-Voltage $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Spinel Cathode and Their Combination in a Li-Ion Battery. <i>ACS Applied Energy Materials</i> , 2021, 4, 8340-8349.	5.1	13
34	Towards a High-Performance Lithium-Metal Battery with Glyme Solution and an Olivine Cathode. <i>ChemElectroChem</i> , 2020, 7, 2376-2388.	3.4	11
35	Novel Lithium-Sulfur Polymer Battery Operating at Moderate Temperature. <i>ChemElectroChem</i> , 2021, 8, 3971-3981.	3.4	10
36	Degradation of Layered Oxide Cathode in a Sodium Battery: A Detailed Investigation by X-Ray Tomography at the Nanoscale. <i>Small Methods</i> , 2021, 5, e2100596.	8.6	9

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37	Physicochemical and electrochemical investigations of the ionic liquid N-butyl-N-methyl-pyrrolidinium 4,5-dicyano-2-(trifluoromethyl)imidazole. <i>Electrochimica Acta</i> , 2017, 232, 586-595.	5.2	6
38	Towards a High-Performance Lithium-Metal Battery with Glyme Solution and an Olivine Cathode. <i>ChemElectroChem</i> , 2020, 7, 2344-2344.	3.4	5
39	A High-Voltage, Multi-Metal LiNi _{0.35} Cu _{0.1} Mn _{1.45} Fe _{0.1} O ₄ Spinel Cathode for Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030537.	2.9	3