

N Angulakshmi

List of Publications by Year in descending order

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31
papers

1,143
citations

394421

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477307

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times ranked

1505
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-organic framework@SiO ₂ as permselective separator for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14623-14632.	10.3	116
2	Composite Polymer Electrolytes Encompassing Metal Organic Frame Works: A New Strategy for All-Solid-State Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24240-24247.	3.1	99
3	Cycling profile of MgAl ₂ O ₄ -incorporated composite electrolytes composed of PEO and LiPF ₆ for lithium polymer batteries. <i>Electrochimica Acta</i> , 2013, 90, 179-185.	5.2	95
4	Electrospun Trilayer Polymeric Membranes as Separator for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2014, 127, 167-172.	5.2	79
5	Metal-organic frameworks based membrane as a permselective separator for lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2018, 265, 151-159.	5.2	79
6	Electrochemical and mechanical properties of nanochitin-incorporated PVDF-HFP-based polymer electrolytes for lithium batteries. <i>Ionics</i> , 2011, 17, 407-414.	2.4	74
7	Thin, flexible and thermally stable ceramic membranes as separator for lithium-ion batteries. <i>Journal of Membrane Science</i> , 2014, 471, 103-109.	8.2	71
8	Microporous Metal-Organic Framework (MOF)-Based Composite Polymer Electrolyte (CPE) Mitigating Lithium Dendrite Formation in All-Solid-State-Lithium Batteries. <i>ACS Omega</i> , 2020, 5, 7885-7894.	3.5	55
9	Charge-discharge studies of all-solid-state Li/LiFePO ₄ cells with PEO-based composite electrolytes encompassing metal organic frameworks. <i>RSC Advances</i> , 2016, 6, 97180-97186.	3.6	50
10	Synthesis and electrochemical properties of SnS as possible anode material for lithium batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1187-1190.	4.0	45
11	Sisal-derived activated carbons for cost-effective lithium-sulfur batteries. <i>RSC Advances</i> , 2016, 6, 13772-13779.	3.6	45
12	A flexible zirconium oxide based-ceramic membrane as a separator for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 92020-92027.	3.6	36
13	V ₂ O ₃ -decorated carbon nanofibers as a robust interlayer for long-lived, high-performance, room-temperature sodium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2022, 431, 134205.	12.7	30
14	MgAl ₂ SiO ₆ -incorporated poly(ethylene oxide)-based electrolytes for all-solid-state lithium batteries. <i>Ionics</i> , 2014, 20, 151-156.	2.4	28
15	Ionic conductivity and interfacial properties of nanochitin-incorporated polyethylene oxide-LiN(C ₂ F ₅ SO ₂) ₂ polymer electrolytes. <i>Electrochimica Acta</i> , 2010, 55, 1401-1406.	5.2	25
16	High performance multi-functional trilayer membranes as permselective separators for lithium-sulfur batteries. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1013-1021.	6.0	25
17	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.	5.5	25
18	Understanding the Electrolytes of Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1064-1095.	4.7	23

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19	A high-performance BaTiO ₃ -grafted-GO-laden poly(ethylene oxide)-based membrane as an electrolyte for all-solid lithium-batteries. <i>Materials Chemistry Frontiers</i> , 2017, 1, 269-277.	5.9	22
20	Influence of calix[2]piperidobenzopyrrole on the electrochemical properties of poly(ethylene oxide) based nanocomposite electrolytes for lithium-sulfur batteries. <i>Journal of Applied Polymer Science</i> , 2017, 124, 3245-3254.	2.6	18
21	Better performing composite cathode encompassing graphene and magnesium aluminate for Li-S batteries. <i>Nano Structures Nano Objects</i> , 2017, 11, 46-55.	3.5	18
22	The suppression of lithium dendrites by a triazine-based porous organic polymer-laden PEO-based electrolyte and its application for all-solid-state lithium batteries. <i>Materials Chemistry Frontiers</i> , 2020, 4, 933-940.	5.9	18
23	An efficient bi-functional permselective separator coated with cubic type-Li ₇ La ₃ Zr ₂ O ₁₂ and activated carbon for lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3500-3510.	4.9	15
24	Calcium phosphate incorporated poly(ethylene oxide)-based nanocomposite electrolytes for lithium batteries. I. Ionic conductivity and positron annihilation lifetime spectroscopy studies. <i>Journal of Applied Polymer Science</i> , 2012, 124, 3245-3254.	2.6	12
25	BaTiO ₃ -GO as an efficient permselective material for lithium-sulfur batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 950-960.	5.9	12
26	High performing magnesium aluminate-coated separator for lithium batteries. <i>Ionics</i> , 2018, 24, 3451-3457.	2.4	11
27	Physical and Electrochemical Properties of MgAl ₂ O ₄ -Incorporated Polymer Electrolytes Composed of Poly(ethylene oxide) and LiClO ₄ . <i>Science of Advanced Materials</i> , 2011, 3, 702-708.	0.7	6
28	Influence of Additives on the Electrochemical and Interfacial Properties of SiO ₂ -Based Anode Materials for Lithium-Sulfur Batteries. <i>Langmuir</i> , 2022, 38, 2423-2434.	3.5	6
29	Electrochemical Properties of Coconut Shell Flour-Incorporated Poly(vinylidenehexafluoropropylene)-Based Electrospun Membranes for Lithium Batteries. <i>Science of Advanced Materials</i> , 2013, 5, 606-611.	0.7	5
30	Studies on Chitin Dispersed Poly(ethylene oxide)-poly(methyl methacrylate) Blend Nanocomposite Electrolytes for Lithium Batteries. <i>ECS Meeting Abstracts</i> , 2010, , .	0.0	0
31	Interfacial Properties of Ca ₃ (PO ₄) ₂ -Incorporated Poly(ethylene oxide)-Based Nanocomposite Electrolytes Investigated by XPS and FTIR Studies. <i>ECS Meeting Abstracts</i> , 2010, , .	0.0	0