

P Christopher Selvin

List of Publications by Citations

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35
papers

495
citations

14
h-index

21
g-index

36
ext. papers

657
ext. citations

3.3
avg, IF

4.11
L-index

#	Paper	IF	Citations
35	Synthesis and characterization of biopolymer electrolyte based on tamarind seed polysaccharide, lithium perchlorate and ethylene carbonate for electrochemical applications. <i>Ionics</i> , 2019 , 25, 1067-1082	2.7	58
34	Structures, Potential Energy Curves, and Torsional Barrier Heights for Selected Polychlorinated Biphenyls: A Density Functional Theory Study. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 1765-1769	2.8	42
33	Characterization of biopolymer pectin with lithium chloride and its applications to electrochemical devices. <i>Ionics</i> , 2018 , 24, 3259-3270	2.7	34
32	Study of the temperature dependent transport properties in nanocrystalline lithium lanthanum titanate for lithium ion batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2016 , 91, 114-121	3.9	30
31	Investigations on pure and Ag doped lithium lanthanum titanate (LLTO) nanocrystalline ceramic electrolytes for rechargeable lithium-ion batteries. <i>Ceramics International</i> , 2013 , 39, 947-952	5.1	29
30	Defect luminescence and lattice strain in Mn ²⁺ doped ZnGa ₂ O ₄ . <i>Physica B: Condensed Matter</i> , 2016 , 491, 79-83	2.8	26
29	Study of proton-conducting polymer electrolyte based on K-carrageenan and NH ₄ SCN for electrochemical devices. <i>Ionics</i> , 2018 , 24, 3535-3542	2.7	24
28	A study on blend polymer electrolyte based on poly(vinyl alcohol)-poly (acrylonitrile) with magnesium nitrate for magnesium battery. <i>Ionics</i> , 2018 , 24, 3493-3506	2.7	23
27	Preparation and characterization of blend polymer electrolyte film based on poly(vinyl alcohol)-poly(acrylonitrile)/MgCl ₂ for energy storage devices. <i>Ionics</i> , 2018 , 24, 1083-1095	2.7	21
26	Preparation and characterization of proton-conducting polymer electrolyte based on PVA, amino acid proline, and NH ₄ Cl and its applications to electrochemical devices. <i>Ionics</i> , 2019 , 25, 141-154	2.7	21
25	Tamarind seed polysaccharide biopolymer membrane for lithium-ion conducting battery. <i>Ionics</i> , 2018 , 24, 3793-3803	2.7	20
24	Characterization of nanocomposite polymer electrolyte based on P(ECH-EO). <i>Physica B: Condensed Matter</i> , 2011 , 406, 3367-3373	2.8	20
23	Study on the influences of calcination temperature on structure and its electrochemical performance of Li ₂ FeSiO ₄ /C nano cathode for Lithium Ion Batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 1116-1124	5.7	19
22	Investigation on spin coated LLTO thin film nano-electrolytes for rechargeable lithium ion batteries. <i>Ceramics International</i> , 2015 , 41, 13823-13829	5.1	16
21	Effect of propylene carbonate and dimethylformamide on ionic conductivity of P(ECH-EO) based polymer electrolyte. <i>Electrochimica Acta</i> , 2012 , 66, 110-120	6.7	14
20	Blue electroluminescence from ZnGa ₂ O ₄ :Eu powder samples. <i>Journal of Luminescence</i> , 2017 , 185, 145-150	3.8	13
19	Investigations on the influence of Sm ³⁺ ion on the nano TiO ₂ matrix as the anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 710, 205-215	5.7	11

18	Structure, dielectric, and temperature-dependent conductivity studies of the Li ₂ FeSiO ₄ /C nano cathode material for lithium-ion batteries. <i>Ionics</i> , 2019 , 25, 2041-2056	2.7	9
17	Electrochemical Analysis of the Carbon-Encapsulated Lithium Iron Phosphate Nanochains and Their High-Temperature Conductivity Profiles. <i>ACS Omega</i> , 2018 , 3, 6446-6455	3.9	9
16	Correlation study on temperature dependent conductivity and line profile along the LLTO/LFP-C cross section for all solid-state Lithium-ion batteries. <i>Solid State Ionics</i> , 2019 , 341, 115032	3.3	8
15	Thermoluminescence and EPR studies on natural petalite crystals. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 1562-1565	3	8
14	Red algae-derived k-carrageenan-based proton-conducting electrolytes for the wearable electrical devices. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 2249-2260	2.6	6
13	Lithium ion conducting biopolymer electrolyte based on pectin doped with Lithium nitrate 2018 ,		6
12	Free-standing, high Li-ion conducting hybrid PAN/PVdF/LiClO ₄ /Li _{0.5} La _{0.5} TiO ₃ nanocomposite solid polymer electrolytes for all-solid-state batteries. <i>Journal of Solid State Electrochemistry</i> , 2021 , 25, 905-917	2.6	6
11	Investigations on The Effect Of Sm ³⁺ Doping on The Electrochemical Performance of The Li ₂ FeSiO ₄ /C Nanocomposite Cathode Material for Lithium Ion Batteries. <i>Materials Today: Proceedings</i> , 2019 , 8, 346-351	1.4	4
10	Determination of the ionic and neutral chemical components of a H ₂ O microwave discharge plasma. <i>Chemical Physics Letters</i> , 2002 , 360, 367-373	2.5	4
9	Investigations on Na-ion conducting electrolyte based on sodium alginate biopolymer for all-solid-state sodium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2021 , 25, 2009-2020	2.6	4
8	Impact of lithium triflate (LiCF ₃ SO ₃) salt on tamarind seed polysaccharide-based natural solid polymer electrolyte for application in electrochemical device. <i>Polymer Bulletin</i> , 2021 , 78, 1797-1819	2.4	4
7	Tamarind seed polysaccharide biopolymer-assisted synthesis of spinel zinc iron oxide as a promising alternate anode material for lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 10593-10604	2.1	3
6	Design and performance of an atmospheric pressure inlet system for lithium ion attachment mass spectrometry. <i>Analytical Chemistry</i> , 2002 , 74, 2053-7	7.8	3
5	Chitosan based biopolymer electrolyte reinforced with V ₂ O ₅ filler for magnesium batteries: an inclusive investigation. <i>Journal of Materials Science: Materials in Electronics</i> , 2022 , 33, 3925	2.1	0
4	Physical and Interfacial Studies on Li _{0.5} La _{0.5} TiO ₃ - Incorporated Poly(ethylene oxide)-Based Electrolytes for All-Solid-State Lithium Batteries. <i>Energy & Fuels</i> , 2021 , 35, 13402-13410	4.1	0
3	Fine-tuning of stannic oxide anodes material properties through calcination. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	0
2	Analysis on down converting Sm ³⁺ -incorporated TiO ₂ mesoporous nanostructures for DSSC applications. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	
1	A short investigation on LiMn ₂ O ₄ wrapped with MWCNT as composite cathode for lithium-ion batteries. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	

