

# Christopher Selvin

## List of Publications by Citations

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**Version:** 2024-04-27

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24  
papers

311  
citations

10  
h-index

17  
g-index

29  
ext. papers

437  
ext. citations

2.7  
avg, IF

3.98  
L-index

#	Paper	IF	Citations
24	Synthesis and characterization of biopolymer electrolyte based on tamarind seed polysaccharide, lithium perchlorate and ethylene carbonate for electrochemical applications. <i>Ionics</i> , <b>2019</b> , 25, 1067-1082	2.7	58
23	Characterization of biopolymer pectin with lithium chloride and its applications to electrochemical devices. <i>Ionics</i> , <b>2018</b> , 24, 3259-3270	2.7	34
22	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> , <b>2016</b> , 91, 114-121	3.9	30
21	Study of proton-conducting polymer electrolyte based on K-carrageenan and NH <sub>4</sub> SCN for electrochemical devices. <i>Ionics</i> , <b>2018</b> , 24, 3535-3542	2.7	24
20	Plasticizer incorporated, novel eco-friendly bio-polymer based solid bio-membrane for electrochemical clean energy applications. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 159, 43-53	4.7	24
19	Study on Mg-ion conducting solid biopolymer electrolytes based on tamarind seed polysaccharide for magnesium ion batteries. <i>Materials Research Bulletin</i> , <b>2019</b> , 118, 110490	5.1	22
18	Tamarind seed polysaccharide biopolymer membrane for lithium-ion conducting battery. <i>Ionics</i> , <b>2018</b> , 24, 3793-3803	2.7	20
17	Study on the influences of calcination temperature on structure and its electrochemical performance of Li <sub>2</sub> FeSiO <sub>4</sub> /C nano cathode for Lithium Ion Batteries. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 740, 1116-1124	5.7	19
16	Performance Enhancement of PVDF/LiClO <sub>4</sub> Based Nanocomposite Solid Polymer Electrolytes via Incorporation of Li <sub>0.5</sub> La <sub>0.5</sub> TiO <sub>3</sub> Nano Filler for All-Solid-State Batteries. <i>Macromolecular Research</i> , <b>2020</b> , 28, 739-750	1.9	13
15	Insight into cations substitution on structural and electrochemical properties of nanostructured Li <sub>2</sub> FeSiO <sub>4</sub> /C cathodes. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 1685-1697	3.8	11
14	Structure, dielectric, and temperature-dependent conductivity studies of the Li <sub>2</sub> FeSiO <sub>4</sub> /C nano cathode material for lithium-ion batteries. <i>Ionics</i> , <b>2019</b> , 25, 2041-2056	2.7	9
13	Bio-host pectin complexed with dilithium borate based solid electrolytes for polymer batteries. <i>Materials Research Express</i> , <b>2019</b> , 6, 115513	1.7	9
12	Structural and Electrical Properties of Bio-polymer Pectin with LiClO <sub>4</sub> Solid Electrolytes for Lithium Ion Polymer Batteries. <i>Materials Today: Proceedings</i> , <b>2019</b> , 8, 196-202	1.4	8
11	Red algae-derived k-carrageenan-based proton-conducting electrolytes for the wearable electrical devices. <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 2249-2260	2.6	6
10	Free-standing, high Li-ion conducting hybrid PAN/PVdF/LiClO <sub>4</sub> /Li <sub>0.5</sub> La <sub>0.5</sub> TiO <sub>3</sub> nanocomposite solid polymer electrolytes for all-solid-state batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2021</b> , 25, 905-917	2.6	6
9	Investigations on The Effect Of Sm <sup>3+</sup> Doping on The Electrochemical Performance of The Li <sub>2</sub> FeSiO <sub>4</sub> /C Nanocomposite Cathode Material for Lithium Ion Batteries. <i>Materials Today: Proceedings</i> , <b>2019</b> , 8, 346-351	1.4	4
8	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> , <b>2021</b> , 25, 2009-2020	2.6	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> , <b>2020</b> , 31, 10593-10604	2.1	3
6	Green synthesized spinel lithium titanate nano anode material using Aloe Vera extract for potential application to lithium ion batteries. <i>Journal of Science: Advanced Materials and Devices</i> , <b>2020</b> , 5, 346-353	4.2	3
5	Mg-ion conducting electrolytes based on chitosan biopolymer host for the rechargeable Mg batteries. <i>Materials Today: Proceedings</i> , <b>2020</b> ,	1.4	2
4	A Critical Review on Electrochemical Properties and Significance of Orthosilicate-Based Cathode Materials for Rechargeable Li/Na/Mg Batteries and Hybrid Supercapacitors. <i>ChemistrySelect</i> , <b>2021</b> , 6, 12036-12073	1.8	1
3	Chitosan based biopolymer electrolyte reinforced with V <sub>2</sub> O <sub>5</sub> filler for magnesium batteries: an inclusive investigation. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2022</b> , 33, 3925	2.1	0
2	Fine-tuning of stannic oxide anodes material properties through calcination. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	0
1	Analysis on down converting Sm <sup>3+</sup> -incorporated TiO <sub>2</sub> mesoporous nanostructures for DSSC applications. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	