

Muhamad Hafiz Hamsan

List of Publications by Citations

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44
papers

1,297
citations

26
h-index

35
g-index

45
ext. papers

1,630
ext. citations

3.7
avg, IF

5.55
L-index

#	Paper	IF	Citations
44	NH ₄ NO ₃ as charge carrier contributor in glycerolized potato starch-methyl cellulose blend-based polymer electrolyte and the application in electrochemical double-layer capacitor. <i>Ionics</i> , 2017 , 23, 3429-3453	2.7	78
43	A Promising Polymer Blend Electrolytes Based on Chitosan: Methyl Cellulose for EDLC Application with High Specific Capacitance and Energy Density. <i>Molecules</i> , 2019 , 24,	4.8	68
42	Development of Polymer Blend Electrolyte Membranes Based on Chitosan: Dextran with High Ion Transport Properties for EDLC Application. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	60
41	Fabrication of energy storage EDLC device based on CS:PEO polymer blend electrolytes with high Li ⁺ ion transference number. <i>Results in Physics</i> , 2019 , 15, 102584	3.7	55
40	Biopolymeric electrolyte based on glycerolized methyl cellulose with NH ₄ Br as proton source and potential application in EDLC. <i>Ionics</i> , 2018 , 24, 1651-1662	2.7	45
39	Protonic EDLC cell based on chitosan (CS): methylcellulose (MC) solid polymer blend electrolytes. <i>Ionics</i> , 2020 , 26, 1829-1840	2.7	44
38	Effect of glycerol on EDLC characteristics of chitosan:methylcellulose polymer blend electrolytes. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 8355-8366	5.5	43
37	Effect of ohmic-drop on electrochemical performance of EDLC fabricated from PVA:dextran:NH ₄ I based polymer blend electrolytes. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 3734-3745	5.5	43
36	Fabrication of high performance energy storage EDLC device from proton conducting methylcellulose: dextran polymer blend electrolytes. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 1137-1150	5.5	42
35	Green electrolytes based on dextran-chitosan blend and the effect of NH ₄ SCN as proton provider on the electrical response studies. <i>Ionics</i> , 2018 , 24, 2379-2398	2.7	42
34	High Proton Conducting Polymer Blend Electrolytes Based on Chitosan:Dextran with Constant Specific Capacitance and Energy Density. <i>Biomolecules</i> , 2019 , 9,	5.9	39
33	Increase of metallic silver nanoparticles in Chitosan:AgNt based polymer electrolytes incorporated with alumina filler. <i>Results in Physics</i> , 2019 , 13, 102326	3.7	38
32	Employing of Trukhan Model to Estimate Ion Transport Parameters in PVA Based Solid Polymer Electrolyte. <i>Polymers</i> , 2019 , 11,	4.5	38
31	Structural, Impedance, and EDLC Characteristics of Proton Conducting Chitosan-Based Polymer Blend Electrolytes with High Electrochemical Stability. <i>Molecules</i> , 2019 , 24,	4.8	37
30	Dextran from <i>Leuconostoc mesenteroides</i> -doped ammonium salt-based green polymer electrolyte. <i>Bulletin of Materials Science</i> , 2019 , 42, 1	1.7	37
29	Glycerolized Li Ion Conducting Chitosan-Based Polymer Electrolyte for Energy Storage EDLC Device Applications with Relatively High Energy Density. <i>Polymers</i> , 2020 , 12,	4.5	36
28	The effect of NH ₄ NO ₃ towards the conductivity enhancement and electrical behavior in methyl cellulose-starch blend based ionic conductors. <i>Ionics</i> , 2017 , 23, 1137-1154	2.7	35

27	Role of nano-capacitor on dielectric constant enhancement in PEO:NH ₄ SCN:xCeO ₂ polymer nano-composites: Electrical and electrochemical properties. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 9283-9294	5.5	35
26	Influence of (hbox {NH}_{4})Br as an ionic source on the structural/electrical properties of dextran-based biopolymer electrolytes and EDLC application. <i>Bulletin of Materials Science</i> , 2020 , 43, 1	1.7	33
25	Metal Complex as a Novel Approach to Enhance the Amorphous Phase and Improve the EDLC Performance of Plasticized Proton Conducting Chitosan-Based Polymer Electrolyte. <i>Membranes</i> , 2020 , 10,	3.8	33
24	The study of EDLC device fabricated from plasticized magnesium ion conducting chitosan based polymer electrolyte. <i>Polymer Testing</i> , 2020 , 90, 106714	4.5	31
23	Electrochemical Impedance study of Proton Conducting Polymer Electrolytes based on PVC Doped with Thiocyanate and Plasticized with Glycerol. <i>International Journal of Electrochemical Science</i> , 2020 , 4671-4683	2.2	30
22	Characteristics of EDLC device fabricated from plasticized chitosan:MgCl ₂ based polymer electrolyte. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 10635-10646	5.5	29
21	Electrical, Dielectric Property and Electrochemical Performances of Plasticized Silver Ion-Conducting Chitosan-Based Polymer Nanocomposites. <i>Membranes</i> , 2020 , 10,	3.8	26
20	From Cellulose, Shrimp and Crab Shells to Energy Storage EDLC Cells: The Study of Structural and Electrochemical Properties of Proton Conducting Chitosan-Based Biopolymer Blend Electrolytes. <i>Polymers</i> , 2020 , 12,	4.5	26
19	Solid-state double layer capacitors and protonic cell fabricated with dextran from <i>Leuconostoc mesenteroides</i> based green polymer electrolyte. <i>Materials Chemistry and Physics</i> , 2020 , 241, 122290	4.4	26
18	Investigation of plasticized ionic conductor based on chitosan and ammonium bromide for EDLC application. <i>Materials Today: Proceedings</i> , 2019 , 17, 490-498	1.4	25
17	Ion association as a main shortcoming in polymer blend electrolytes based on CS:PS incorporated with various amounts of ammonium tetrafluoroborate. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 5410-5421	5.5	22
16	Protonic cell performance employing electrolytes based on plasticized methylcellulose-potato starch-NH ₄ NO ₃ . <i>Ionics</i> , 2019 , 25, 559-572	2.7	22
15	Plasticized solid polymer electrolyte based on natural polymer blend incorporated with lithium perchlorate for electrical double-layer capacitor fabrication. <i>Ionics</i> , 2019 , 25, 5473-5484	2.7	21
14	Study of impedance and solid-state double-layer capacitor behavior of proton (H ⁺)-conducting polymer blend electrolyte-based CS:PS polymers. <i>Ionics</i> , 2020 , 26, 4635-4649	2.7	21
13	Design of Polymer Blends Based on Chitosan:POZ with Improved Dielectric Constant for Application in Polymer Electrolytes and Flexible Electronics. <i>Advances in Polymer Technology</i> , 2020 , 2020, 1-10	1.9	21
12	Development of Polymer Blends Based on PVA:POZ with Low Dielectric Constant for Microelectronic Applications. <i>Scientific Reports</i> , 2019 , 9, 13163	4.9	20
11	Structural, Impedance and Electrochemical Characteristics of Electrical Double Layer Capacitor Devices Based on Chitosan: Dextran Biopolymer Blend Electrolytes. <i>Polymers</i> , 2020 , 12,	4.5	19
10	Metal framework as a novel approach for the fabrication of electric double layer capacitor device with high energy density using plasticized Poly(vinyl alcohol): Ammonium thiocyanate based polymer electrolyte. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 7247-7263	5.9	19

9	Improving EDLC Device Performance Constructed from Plasticized Magnesium Ion Conducting Chitosan Based Polymer Electrolytes via Metal Complex Dispersion. <i>Membranes</i> , 2021 , 11,	3.8	12
8	Impregnation of [Emim]Br ionic liquid as plasticizer in biopolymer electrolytes for EDLC application. <i>Electrochimica Acta</i> , 2021 , 375, 137923	6.7	11
7	Investigation on electrochemical characteristics of maltodextrin γ -methyl cellulose electrolytes. <i>Molecular Crystals and Liquid Crystals</i> , 2020 , 708, 63-91	0.5	6
6	Plasticized Sodium-Ion Conducting PVA Based Polymer Electrolyte for Electrochemical Energy Storage-EEC Modeling, Transport Properties, and Charge-Discharge Characteristics. <i>Polymers</i> , 2021 , 13,	4.5	6
5	Plasticized and plasticizer free lithium acetate doped polyvinyl alcohol γ -chitosan blend solid polymer electrolytes: Comparative studies. <i>Journal of Physics: Conference Series</i> , 2018 , 1123, 012001	0.3	6
4	Plasticized Polymer Blend Electrolyte Based on Chitosan for Energy Storage Application: Structural, Circuit Modeling, Morphological and Electrochemical Properties. <i>Polymers</i> , 2021 , 13,	4.5	5
3	The Study of Structural, Impedance and Energy Storage Behavior of Plasticized PVA:MC Based Proton Conducting Polymer Blend Electrolytes. <i>Materials</i> , 2020 , 13,	3.5	4
2	Investigation on Degradation and Viscoelastic Relaxation of Li Ion in Chitosan Based Solid Electrolyte. <i>International Journal of Electrochemical Science</i> , 2019 , 5521-5534	2.2	4
1	Characteristics of Glycerolized Chitosan: NHNO-Based Polymer Electrolyte for Energy Storage Devices with Extremely High Specific Capacitance and Energy Density Over 1000 Cycles. <i>Polymers</i> , 2020 , 12,	4.5	3