

Samsudin, A S

List of Publications by Year in descending order

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79
papers

1,634
citations

361413

20
h-index

330143

37
g-index

80
all docs

80
docs citations

80
times ranked

657
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization on the potential of carboxy methylcellulose for application as proton conducting biopolymer electrolytes. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1104-1112.	3.1	156
2	Reducing crystallinity on thin film based CMC/PVA hybrid polymer for application as a host in polymer electrolytes. <i>Journal of Non-Crystalline Solids</i> , 2019, 511, 201-211.	3.1	139
3	Biopolymer Materials Based Carboxymethyl Cellulose as a Proton Conducting Biopolymer Electrolyte for Application in Rechargeable Proton Battery. <i>Electrochimica Acta</i> , 2014, 129, 1-13.	5.2	131
4	Studies on ionic conduction properties of modification CMC-PVA based polymer blend electrolytes via impedance approach. <i>Polymer Testing</i> , 2020, 81, 106234.	4.8	70
5	Structural and Ionic Transport Study on CMC Doped NH ₄ Br: A New Types of Biopolymer Electrolytes. <i>Journal of Applied Sciences</i> , 2012, 12, 174-179.	0.3	66
6	An investigation on the abnormal trend of the conductivity properties of CMC/PVA-doped NH ₄ Cl-based solid biopolymer electrolyte system. <i>Ionics</i> , 2019, 25, 2657-2667.	2.4	59
7	Investigation of the Potential of Proton-Conducting Biopolymer Electrolytes Based Methyl Cellulose-Glycolic Acid. <i>International Journal of Polymer Analysis and Characterization</i> , 2011, 16, 477-485.	1.9	57
8	Investigation on the effect of NH ₄ Br at transport properties in carrageenan based biopolymer electrolytes via structural and electrical analysis. <i>Materials Today Communications</i> , 2018, 14, 199-209.	1.9	52
9	Characterization of carboxy methylcellulose doped with DTAB as new types of biopolymer electrolytes. <i>Bulletin of Materials Science</i> , 2012, 35, 1123-1131.	1.7	48
10	Structural and Electrical Properties of Carboxy Methylcellulose-Dodecyltrimethyl Ammonium Bromide-Based Biopolymer Electrolytes System. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2012, 61, 30-40.	3.4	47
11	Investigation on favourable ionic conduction based on CMC-K carrageenan proton conducting hybrid solid bio-polymer electrolytes for applications in EDLC. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8727-8741.	7.1	45
12	Enhancement on amorphous phase in solid biopolymer electrolyte based alginate doped NH ₄ NO ₃ . <i>Ionics</i> , 2019, 25, 641-654.	2.4	41
13	Proton (H ⁺) transport properties of CMC-PVA blended polymer solid electrolyte doped with NH ₄ NO ₃ . <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14880-14896.	7.1	38
14	Ionic conduction study of enhanced amorphous solid bio-polymer electrolytes based carboxymethyl cellulose doped NH ₄ Br. <i>Journal of Non-Crystalline Solids</i> , 2018, 497, 19-29.	3.1	37
15	Study on electrochemical properties of CMC-PVA doped NH ₄ Br based solid polymer electrolytes system as application for EDLC. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	32
16	Characterization of an amorphous materials hybrid polymer electrolyte based on a LiNO ₃ -doped, CMC-PVA blend for application in an electrical double layer capacitor. <i>Materials Chemistry and Physics</i> , 2020, 253, 123312.	4.0	31
17	Natural Polymer Electrolyte System Based on Sago: Structural and Transport Behavior Characteristics. <i>International Journal of Polymer Analysis and Characterization</i> , 2012, 17, 600-607.	1.9	30
18	Studies on favorable ionic conduction and structural properties of biopolymer electrolytes system-based alginate. <i>Polymer Bulletin</i> , 2021, 78, 2155-2175.	3.3	30

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19	Enhancing proton conductivity of sodium alginate doped with glycolic acid in bio-based polymer electrolytes system. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	29
20	Studies on structural and ionic transport in biopolymer electrolytes based on alginate-LiBr. <i>Ionics</i> , 2020, 26, 1923-1938.	2.4	27
21	Study on the effect of PEG in ionic transport for CMC-NH ₄ Br-based solid polymer electrolyte. <i>Ionics</i> , 2018, 24, 3039-3052.	2.4	24
22	Ionic transport studies of solid bio-polymer electrolytes based on carboxymethyl cellulose doped with ammonium acetate and its potential application as an electrical double layer capacitor. <i>EXPRESS Polymer Letters</i> , 2020, 14, 619-637.	2.1	24
23	Potential study of biopolymer-based carboxymethylcellulose electrolytes system for solid-state battery application. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 561-567.	3.4	22
24	Electrical study on Carboxymethyl Cellulose-Polyvinyl alcohol based bio-polymer blend electrolytes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 342, 012045.	0.6	22
25	Effect on Ammonium Bromide in dielectric behavior based Alginate Solid Biopolymer electrolytes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 342, 012080.	0.6	22
26	Ionic transport properties of protonic conducting solid biopolymer electrolytes based on enhanced carboxymethyl cellulose - NH ₄ Br with glycerol. <i>Ionics</i> , 2018, 24, 1639-1650.	2.4	22
27	Conductivity and Transport Properties Study of Plasticized Carboxymethyl Cellulose (CMC) Based Solid Biopolymer Electrolytes (SBE). <i>Advanced Materials Research</i> , 0, 856, 118-122.	0.3	21
28	Study on the effect of lithium nitrate in ionic conduction properties based alginate biopolymer electrolytes. <i>Materials Research Express</i> , 2020, 7, 015902.	1.6	19
29	Characterization on conduction properties of carboxymethyl cellulose/kappa carrageenan blend-based polymer electrolyte system. <i>International Journal of Polymer Analysis and Characterization</i> , 2018, 23, 321-330.	1.9	18
30	Enhancement on protonation (H ⁺) with incorporation of flexible ethylene carbonate in CMC-PVA-30wt % NH ₄ NO ₃ film. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 17231-17245.	7.1	17
31	Highly conducting polymer electrolyte-ionic liquid and porous carbon material for sandwich electric double layer capacitor. <i>High Performance Polymers</i> , 2021, 33, 469-475.	1.8	15
32	A Study on Dielectric Properties of The Cellulose Derivative-NH ₄ Br-Glycerol- Based The Solid Polymer Electrolyte System. <i>Makara Journal of Technology</i> , 2017, 21, 65.	0.3	13
33	The influences of PLA into PMMA on crystallinity and thermal properties enhancement-based hybrid polymer in gel properties. <i>Materials Today: Proceedings</i> , 2022, 49, 3105-3111.	1.8	13
34	Contribution of Methyl Substituent on the Conductivity Properties and Behaviour of CMC-Alkoxy Thiourea Polymer Electrolyte. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 604, 126-141.	0.9	12
35	An enhancement on electrical properties of carboxymethyl cellulose-NH ₄ Br based biopolymer electrolytes through impedance characterization. <i>International Journal of Polymer Analysis and Characterization</i> , 2017, 22, 447-454.	1.9	12
36	Study of the ionic conduction mechanism based on carboxymethyl cellulose biopolymer electrolytes. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1441-1447.	0.7	11

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37	Correlation Studies Between Structural and Ionic Transport Properties of Lithium-Ion Hybrid Gel Polymer Electrolytes Based PMMA-PLA. <i>Journal of Polymers and the Environment</i> , 2022, 30, 1864-1879.	5.0	10
38	Ionic Conduction Behavior of CMC Based Green Polymer Electrolytes. <i>Advanced Materials Research</i> , 0, 802, 194-198.	0.3	9
39	Enhancement of proton conduction in carboxymethyl cellulose-polyvinyl alcohol employing polyethylene glycol as a plasticizer. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	9
40	Electrical Properties of A Novel Solid Biopolymer Electrolyte based on Algi-nate Incorporated with Citric Acid. <i>Makara Journal of Technology</i> , 2019, 23, 48.	0.3	9
41	Involvement of ethylene carbonate on the enhancement H ⁺ carriers in structural and ionic conduction performance on alginate bio-based polymer electrolytes. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7846-7860.	7.1	9
42	Irregularities trend in electrical conductivity of CMC/PVA-NH ₄ Cl based solid biopolymer electrolytes. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	8
43	Study on ionic conduction of solid bio-polymer hybrid electrolytes based carboxymethyl cellulose (CMC)/polyvinyl alcohol (PVA) doped NH ₄ NO ₃ . <i>AIP Conference Proceedings</i> , 2018, , .	0.4	8
44	Contribution of Li ⁺ Ions to a Gel Polymer Electrolyte Based on Polymethyl Methacrylate and Polylactic Acid Doped with Lithium Bis(oxalato) Borate. <i>Journal of Electronic Materials</i> , 2022, 51, 745-760.	2.2	8
45	Characterization of Biopolymer Blend-based on Alginate and Poly (vinyl Alcohol) as an Application for Polymer Host in Polymer Electrolyte. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1092, 012047.	0.6	7
46	Progress on biopolymer as an application in electrolytes system: A review study. <i>Materials Today: Proceedings</i> , 2022, 49, 3668-3678.	1.8	7
47	Conductive biodegradable film of N-octyloxyphenyl-N ⁺ -(4-methylbenzoyl)thiourea. <i>Bulletin of Materials Science</i> , 2014, 37, 357-369.	1.7	6
48	Conduction Mechanism of Enhanced CMC-NH ₄ Br Biopolymer Electrolytes. <i>Advanced Materials Research</i> , 2015, 1108, 27-32.	0.3	6
49	Influence of Polyethylene Glycol (PEG) in CMC-NH ₄ BR Based Polymer Electrolytes: Conductivity and Electrical Study. <i>Makara Journal of Technology</i> , 2017, 21, 37.	0.3	6
50	Conduction Properties Study on Alginate Incorporated with Glycolic Acid Based Solid Biopolymer Electrolytes. <i>Materials Science Forum</i> , 0, 981, 34-39.	0.3	6
51	Synthesis and Characterization of Nitrobenzoylthiourea Derivatives as Potential Conductive Biodegradable Thin Films. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2014, 189, 640-651.	1.6	5
52	Synthesis and Electrochemical Properties of Ternary Co-, Cu- and Ni- Based Metal-Organic Frameworks Electrode for Battery Supercapacitor Hybrid Application. <i>Materials Science Forum</i> , 0, 981, 17-22.	0.3	5
53	Electrochemical Properties of CMC-PVA Polymer Blend Electrolyte for Solid State Electric Double Layer Capacitors. <i>Journal of Electronic Materials</i> , 2021, 50, 303-313.	2.2	5
54	Immittance Response on Carboxymethyl Cellulose Blend with Polyvinyl Alcohol- Doped Ammonium Bromide-Based Biopolymer Electrolyte. <i>Makara Journal of Technology</i> , 2019, 22, 167.	0.3	5

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55	Studies on the ions transportation behavior of alginate doped with H ⁺ carrier-based polymer electrolytes. <i>Materials Chemistry and Physics</i> , 2022, 287, 126207.	4.0	5
56	Investigation of a Biodegradable Polymer Electrolytes Based on Carboxy Methylcellulose and its Potential Application in Solid-State Batteries. <i>Advanced Materials Research</i> , 0, 802, 99-103.	0.3	4
57	CONDUCTIVITY STUDY ON PLASTICIZED SOLID BIO-ELECTROLYTES CMC-NH ₄ BR AND APPLICATION IN SOLID-STATE PROTON BATTERIES. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.4	4
58	Ionic Conductivity of Alginate-NH ₄ Cl Polymer Electrolyte. <i>Makara Journal of Technology</i> , 2020, 24, 125.	0.3	4
59	Study on ionic conduction of alginate bio-based polymer electrolytes by incorporating ionic liquid. <i>Materials Today: Proceedings</i> , 2022, 51, 1455-1459.	1.8	4
60	Electrical properties studies of solid polymer electrolytes membrane based on carboxymethyl cellulose (CMC)/kappa carrageenan blend. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
61	Characterization on ionic conductivity of solid bio-polymer electrolytes system based alginate doped ammonium nitrate via impedance spectroscopy. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
62	Characterization of biopolymer Blend-based on alginate and Poly(vinyl Alcohol) as an application for polymer host in polymer electrolyte. <i>Materials Today: Proceedings</i> , 2022, 48, 849-853.	1.8	3
63	Interrelation Between Ionic Conduction and Ions Fraction of Biopolymer Electrolytes Based on Alginate Doped With NH ₄ Cl. <i>Journal of Macromolecular Science - Physics</i> , 2021, 60, 631-646.	1.0	3
64	Transition Metal Dichalcogenide for High-Performance Electrode of Supercapacitor. <i>Makara Journal of Technology</i> , 2019, 22, 123.	0.3	3
65	Ethylene Carbonate and Polyethylene Glycol as Efficient Plasticizers in CMC-PVA-NH ₄ NO ₃ -Based Polymer Electrolyte. <i>Makara Journal of Technology</i> , 2020, 24, 13.	0.3	3
66	Electrical conduction of PMMA/PLA doped lithium bis(oxalato) borate based hybrid gel polymer electrolyte. <i>Materials Today: Proceedings</i> , 2022, 51, 1460-1460.	1.8	3
67	Kinetic Modeling Characterization of Cellulose Modified Surface for Methylene Blue Removal from Aqueous Media. <i>Macromolecular Symposia</i> , 2021, 397, 2000239.	0.7	2
68	Improvement of Electrical Properties of CMC-PVA Doped with Various Contents of LiNO ₃ as an Application for Hybrid Polymer Electrolytes. <i>Makara Journal of Technology</i> , 2021, 25, 55.	0.3	2
69	Ionic Conductivity and Electrochemical Properties of Alginate-NH ₄ NO ₃ -Based Biopolymer Electrolytes for EDLC Application. <i>Makara Journal of Technology</i> , 2020, 24, 7.	0.3	2
70	Study on Electrical Conduction Properties of Plasticized CMC-DTAB Based Solid Biopolymer Electrolytes. <i>Materials Science Forum</i> , 0, 1025, 15-19.	0.3	1
71	Effect of C ₃ H ₄ O ₃ on Band Gap Narrowing of Proton Conductive Hybrid Polymer Electrolyte. <i>Macromolecular Symposia</i> , 2021, 397, 2000237.	0.7	1
72	Ionic Conductivity Study of Ethylene Carbonate as A Plasticizer in Alginate Bio-Based Polymer Electrolytes. <i>Macromolecular Symposia</i> , 2021, 397, 2000236.	0.7	1

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73	Molecularly Conductive Behavior of Blended Polymer Electrolyte-based CMC/PVA. Makara Journal of Technology, 2019, 23, 27.	0.3	1
74	Influence of Lithium Bromide on Electrical Properties in Bio-based Polymer Electrolytes. Makara Journal of Technology, 2020, 24, 106.	0.3	1
75	Studies on the effect of H ⁺ carrier toward ionic conduction properties in alginate-ammonium sulfate complexes based polymer electrolytes system. High Performance Polymers, 0, , 095400832210753.	1.8	1
76	DEVELOPMENT OF LOW COST BLOCK MOLD FOR COPPER ALLOY CASTING. Jurnal Teknologi (Sciences and) Tj ETQ 0 0 0 rgBT /Overloc	0.4	0
77	Effect of Intermolecular Interaction on Ionic Conductivity of CMC-DTAB Plasticized with Ec Based Solid Biopolymer Electrolyte. Materials Science Forum, 0, 1025, 26-31.	0.3	0
78	Development and Characterization of Cellulose Modified Surface with Allylthiourea as Functional Sites to Remove Basic Red 5 from Aqueous Solution. Macromolecular Symposia, 2021, 397, 2000238.	0.7	0
79	Synthesis and Characterization of Cellulose Modified Surface to Remove Lead (II) from Aqueous Solution. Macromolecular Symposia, 2021, 397, 2000240.	0.7	0