

Tan Winie

List of Publications by Year in descending order

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81
papers

1,062
citations

471477

17
h-index

477281

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97
all docs

97
docs citations

97
times ranked

798
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of mechanical properties of polyvinyl chloride-polyethylene oxide (PVC-PEO) based polymer electrolytes for lithium polymer cells. <i>European Polymer Journal</i> , 2007, 43, 1963-1968.	5.4	129
2	Grafted natural rubber-based polymer electrolytes: ATR-FTIR and conductivity studies. <i>Ionics</i> , 2008, 14, 491-500.	2.4	81
3	Dielectric behaviour and AC conductivity of LiCF ₃ SO ₃ doped H-chitosan polymer films. <i>Ionics</i> , 2004, 10, 193-199.	2.4	76
4	Transport properties of hexanoyl chitosan-based gel electrolyte. <i>Ionics</i> , 2006, 12, 149-152.	2.4	60
5	Studies on the structure and transport properties of hexanoyl chitosan-based polymer electrolytes. <i>Physica B: Condensed Matter</i> , 2009, 404, 4308-4311.	2.7	47
6	FT-IR studies on interactions among components in hexanoyl chitosan-based polymer electrolytes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 63, 677-684.	3.9	43
7	Conductivity and dielectric relaxation of Li salt in poly(ethylene oxide) and epoxidized natural rubber polymer electrolytes. <i>Ionics</i> , 2014, 20, 189-199.	2.4	27
8	Ionic conductivity of chitosan membranes and application for electrochemical devices. <i>Polymers for Advanced Technologies</i> , 2006, 17, 523-527.	3.2	25
9	Studies on cellulose acetate-based gel polymer electrolytes for proton batteries. <i>Materials Research Innovations</i> , 2009, 13, 232-234.	2.3	23
10	Electrical properties of PEO-LiCF ₃ SO ₃ -SiO ₂ nanocomposite polymer electrolytes. <i>Materials Research Innovations</i> , 2009, 13, 255-258.	2.3	22
11	Conductivity enhancement by controlled percolation of inorganic salt in multiphase hexanoyl chitosan/polystyrene polymer blends. <i>Frontiers of Materials Science</i> , 2015, 9, 132-140.	2.2	22
12	Mechanical studies on poly(vinyl chloride)-poly(methyl methacrylate)-based polymer electrolytes. <i>Journal of Materials Science</i> , 2010, 45, 1280-1283.	3.7	20
13	Studies on the Structural and Electrical Properties of Hexanoyl Chitosan/Polystyrene-based Polymer Electrolytes. <i>Physics Procedia</i> , 2012, 25, 215-220.	1.2	19
14	Improved long-term stability of dye-sensitized solar cell employing PMA/PVAc based gel polymer electrolyte. <i>Optical Materials</i> , 2019, 96, 109349.	3.6	19
15	Hexanoyl chitosan/ENR25 blend polymer electrolyte system for electrical double layer capacitor. <i>Polymers for Advanced Technologies</i> , 2019, 30, 726-735.	3.2	19
16	Transport studies on filler-doped chitosan based polymer electrolyte. <i>Ionics</i> , 2005, 11, 451-455.	2.4	18
17	Microwave-assisted reduction of graphene oxide for an electrochemical supercapacitor: Structural and capacitance behavior. <i>Materials Chemistry and Physics</i> , 2021, 262, 124274.	4.0	18
18	Influence of 1-methyl-3-propylimidazolium iodide ionic liquid on the performance of dye-sensitized solar cell using hexanoyl chitosan/poly(vinyl chloride) based polymer electrolyte. <i>Optik</i> , 2020, 208, 164558.	2.9	17

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19	Synergistic effect of sulfur-doped reduced graphene oxide created via microwave-assisted synthesis for supercapacitor applications. <i>Diamond and Related Materials</i> , 2021, 120, 108696.	3.9	17
20	On the thermodynamics of solid solutions of polymer and salt. <i>Polymer Engineering and Science</i> , 2012, 52, 2277-2284.	3.1	16
21	Thermal, Conductivity and Molecular Interaction Studies of Poly(ethylene oxide)/Poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.7	16
22	Solid solutions of hexanoyl chitosan/poly(vinyl chloride) blends and NaI for all-solid-state dye-sensitized solar cells. <i>Ionics</i> , 2019, 25, 3373-3386.	2.4	15
23	Long-run performance of dye-sensitized solar cell using natural dye extracted from <i>Costus woodsonii</i> leaves. <i>Optical Materials</i> , 2022, 123, 111915.	3.6	15
24	Effect of various plasticizers on the transport properties of hexanoyl chitosan-based polymer electrolyte. <i>Journal of Applied Polymer Science</i> , 2006, 101, 4474-4479.	2.6	14
25	Effect of the surface treatment of the TiO ₂ fillers on the properties of hexanoyl chitosan/polystyrene blend-based composite polymer electrolytes. <i>Ionics</i> , 2014, 20, 347-352.	2.4	14
26	Influence of molar mass on the thermal properties, conductivity and intermolecular interaction of poly(ethylene oxide) solid polymer electrolytes. <i>Polymer International</i> , 2017, 66, 830-838.	3.1	14
27	The synergistic effect of iron cobaltite compare to its single oxides as cathode in supercapacitor. <i>Journal of Electroceramics</i> , 2020, 44, 183-194.	2.0	11
28	Characterization of PMA ^{TPAI} and PVAc ^{TPAI} solid polymer electrolytes and application in dye-sensitized solar cell. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46835.	2.6	10
29	Flexible solid-like electrolytes with ultrahigh conductivity and their applications in all-solid-state supercapacitors. <i>RSC Advances</i> , 2018, 8, 30239-30247.	3.6	10
30	PVdF-HFP Quasi-solid-state Electrolyte for Application in Dye-sensitized Solar Cells. <i>International Journal of Technology</i> , 2018, 9, 1187.	0.8	10
31	Study on factors governing the conductivity performance of acylated chitosan-NaI electrolyte system. <i>Ionics</i> , 2017, 23, 3045-3056.	2.4	9
32	Charge carrier density and mobility of poly(vinyl chloride)-based polymer electrolyte using impedance spectroscopy. <i>Materials Today: Proceedings</i> , 2017, 4, 5130-5137.	1.8	9
33	Effect of ionic liquid concentration on the photovoltaic performance of dye-sensitized solar cell. <i>Materials Today: Proceedings</i> , 2019, 17, 401-407.	1.8	9
34	Thermomechanical Analysis of Isora Nanofibril Incorporated Polyethylene Nanocomposites. <i>Polymers</i> , 2021, 13, 299.	4.5	9
35	Hexanoyl chitosan-based gel electrolyte for use in lithium-ion cell. <i>Polymers for Advanced Technologies</i> , 2006, 17, 552-555.	3.2	8
36	Ac Conductivity and Dielectric Properties of Hexanoyl Chitosan-LiClO ₄ /TiO ₂ Composite Polymer Electrolytes. <i>Advanced Materials Research</i> , 0, 335-336, 873-880.	0.3	8

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37	Pentafluoropyridine functionalized novel heteroatom-doped with hierarchical porous 3D cross-linked graphene for supercapacitor applications. RSC Advances, 2021, 11, 26892-26907.	3.6	8
38	Rapid microwave synthesis of molybdenum disulfide-decorated reduced-graphene oxide nanosheets for use in high electrochemical performance supercapacitors. Journal of Energy Storage, 2022, 52, 104991.	8.1	8
39	Selective localization of lithium trifluoromethanesulfonate in the blend of hexanoyl chitosan and polystyrene. High Performance Polymers, 2014, 26, 666-671.	1.8	7
40	Blends of hexanoyl chitosan/epoxidized natural rubber doped with EMImTFSI. Ionics, 2017, 23, 357-366.	2.4	7
41	Dye-sensitized solar cell based on poly(μ -caprolactone) gel polymer electrolyte and cobalt selenide counter electrode. Journal of Polymer Research, 2020, 27, 1.	2.4	7
42	Effect of Anion Size on the Conductivity Behaviour of Hexanoyl Chitosan-Based Polymer Electrolytes. Advanced Materials Research, 0, 545, 317-320.	0.3	6
43	Ionic liquid effect for efficiency improvement in poly(methyl acrylate)/poly(vinyl acetate)-based dye-sensitized solar cells. High Performance Polymers, 2018, 30, 937-948.	1.8	6
44	Electrical Studies On Hexanoyl Chitosan-based Nanocomposite Polymer Electrolytes. , 2009, , .		5
45	Stability improvement by incorporating poly(μ -caprolactone) in dimethylformamide-potassium iodide liquid electrolyte for dye-sensitized solar cell. Journal of Solid State Electrochemistry, 2019, 23, 2411-2421.	2.5	5
46	Analyzing FTIR spectra using high sensitivity compare function of FTIR software for 2-pack epoxy paints. AIP Conference Proceedings, 2015, , .	0.4	4
47	Effect of temperature on the transport property of PVdF-HFP-MPII-PC/DME gel polymer electrolytes. AIP Conference Proceedings, 2017, , .	0.4	4
48	PEMA - LiCF ₃ SO ₃ polymer electrolytes: Assessment of conductivity and transport properties. AIP Conference Proceedings, 2017, , .	0.4	4
49	Characterization of Plasticized Hexanoyl Chitosan-Based Polymer Electrolytes and Application in LiCo ₂ /MCMB Cells. Materials Science Forum, 2006, 517, 85-88.	0.3	3
50	Characterisation of Al ₂ O ₃ doped hexanoyl chitosan-LiCF ₃ SO ₃ -EC polymer electrolytes. Materials Research Innovations, 2009, 13, 249-251.	2.3	3
51	Structural and electrical studies of hexanoyl chitosan based electrolyte system. Materials Research Innovations, 2011, 15, s94-s96.	2.3	3
52	Effect of solvent donor number and temperature on the conductivity of liquid electrolyte. Materials Today: Proceedings, 2019, 17, 459-464.	1.8	3
53	Dielectric and AC conductivity behavior of Hexanoyl Chitosan-Nal based polymer electrolytes. International Journal of Advanced and Applied Sciences, 2016, 3, 9-13.	0.4	3
54	Flower-like nanosheets FeCo ₂ O ₄ for application in supercapacitor and dye-sensitized solar cell. Journal of Materials Science: Materials in Electronics, 2022, 33, 3648-3669.	2.2	3

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55	Effects of double solvents/plasticisers on proton conducting gel polymer electrolytes. Materials Research Innovations, 2009, 13, 298-301.	2.3	2
56	Mixed doped lithium nickel vanadate as cathode material by sol-gel and polymer precursor method. Materials Research Innovations, 2011, 15, s86-s91.	2.3	2
57	Ac Conductivity Study of Hexanoyl Chitosan-LiCF ₃ SO ₃ -EC-Al ₂ O ₃ Nanocomposite Polymer Electrolytes. Advanced Materials Research, 2013, 667, 93-98.	0.3	2
58	Effect of Filler Type on the Electrical Properties of Hexanoyl Chitosan-Based Polymer Electrolytes. Advanced Materials Research, 2013, 832, 224-227.	0.3	2
59	Effect of Ethylene Sulphite on the Conductivity and Morphology of PEO-KOH Films. Materials Science Forum, 2006, 517, 89-92.	0.3	1
60	Electrical conductivity of solvent free PEO based polymer electrolytes. Materials Research Innovations, 2009, 13, 272-274.	2.3	1
61	Effect of Amino Acid (L-Leucine) on the Conductivity of PVA-CHITOSAN-LiCF ₃ SO ₃ . , 2009, , .		1
62	Preparation and characterization of Li ^{1.4} Al ^{0.4} Ti ^{1.6} (PO ₄) ₃ conducting electrolyte. , 2012, , .		1
63	Structural and Electrical Characterization of Hexanoyl Chitosan-LiClO ₄ -TiO ₂ -DMC Polymer Electrolytes. Key Engineering Materials, 0, 594-595, 608-612.	0.4	1
64	Hexanoyl Chitosan-Polystyrene Blend Based Composite Polymer Electrolyte with Surface Treated TiO ₂ Fillers. Key Engineering Materials, 2013, 594-595, 656-660.	0.4	1
65	FTIR and Electrical Studies of Hexanoyl Chitosan-Based Nanocomposite Polymer Electrolytes. Advanced Materials Research, 0, 1043, 36-39.	0.3	1
66	Studies on the effect of acid treated TiO ₂ on the electrical and tensile properties of hexanoyl chitosan-polystyrene-LiCF ₃ SO ₃ composite polymer electrolytes. AIP Conference Proceedings, 2015, , .	0.4	1
67	Effect of epoxidation level on thermal properties and ionic conductivity of epoxidized natural rubber solid polymer nanocomposite electrolytes. AIP Conference Proceedings, 2015, , .	0.4	1
68	Transport properties of hexanoyl chitosan-LiClO ₄ -TiO ₂ composite polymer electrolyte. AIP Conference Proceedings, 2015, , .	0.4	1
69	Characterisation of Polymer Electrolytes Based on High Molecular Weight PVC and BMIMCF ₃ SO ₃ . Key Engineering Materials, 2016, 705, 150-154.	0.4	1
70	Effect of Temperature on Conductivity Performance of PEO-NaI Based Polymer Electrolytes. Advanced Materials Research, 0, 1142, 128-133.	0.3	1
71	The Influence of Temperature on Conductivity and Dielectric Properties of PMA/PVAc Blend with Addition of TPAI Salt. Materials Science Forum, 0, 889, 201-206.	0.3	1
72	Study on miscibility of poly(methyl acrylate) and poly(vinyl acetate) by viscometric, thermal and structural analyses. Materials Today: Proceedings, 2017, 4, 5100-5107.	1.8	1

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73	Conductivity Studies On Plasticized PEO-Lithium Triflate Electrolyte System. , 2009, , .		0
74	ICFMD-2008. Materials Research Innovations, 2009, 13, 133-133.	2.3	0
75	The Effect Of Filler Size On Electrical Properties Of PEO-Based Polymer Electrolyte. , 2009, , .		0
76	Effect of H ₂ SO ₄ Treated TiO ₂ Nano Fillers on the AC Conductivity of Hexanoyl Chitosan-Polystyrene-LiCF ₃ SO ₃ Polymer Electrolytes. Advanced Materials Research, 2013, 832, 228-232.	0.3	0
77	Miscibility study of hexanoyl chitosan in blend with epoxidized natural rubber by viscometric analysis. AIP Conference Proceedings, 2015, , .	0.4	0
78	Special proceedings of the International Symposium on Materials and Assets Integrity (ISMAI 2016) "Advancements and Innovations in Materials and Asset Integrity Analysis and Management" during 10th International Materials Technology Conference & Exhibition (IMTCE 2016), Kuala Lumpur, Malaysia, 16-18 May 2016. Ionics, 2017, 23, 253-255.	2.4	0
79	Infrared studies of PVC-based electrolytes incorporated with lithium triflate and 1-butyl-3-methyl imidazolium trifluoromethanesulfonate as ionic liquid. AIP Conference Proceedings, 2017, , .	0.4	0
80	Development of pma/pvac-tpai-bmii solid polymer electrolytes for application in dye sensitized solar cell. E3S Web of Conferences, 2018, 67, 03032.	0.5	0
81	Comparative study of nickel selenide, iron selenide and platinum on triiodide reduction for dye-sensitized solar cells. Optical Materials: X, 2021, 13, 100119.	0.8	0