Mohd Sukor Su'ait

List of Publications by Year
in descending order

72 papers	1,686 citations	257450 24 h-index	315739 38 g-index
72 all docs	72 docs citations	72 times ranked	1858 citing authors

#	Article	IF	Citations
1	Review on polymer electrolyte in dye-sensitized solar cells (DSSCs). Solar Energy, 2015, 115, 452-470.	6.1	248
2	Perovskite Solar Cells: From the Laboratory to the Assembly Line. Chemistry - A European Journal, 2018, 24, 3083-3100.	3.3	118
3	Chitosan as a paradigm for biopolymer electrolytes in solid-state dye-sensitised solar cells. Polymer, 2021, 230, 124092.	3.8	81
4	Bio-Based Polymer Electrolytes for Electrochemical Devices: Insight into the Ionic Conductivity Performance. Materials, 2020, 13, 838.	2.9	78
5	The potential of polyurethane bio-based solid polymer electrolyte for photoelectrochemical cell application. International Journal of Hydrogen Energy, 2014, 39, 3005-3017.	7.1	76
6	Effect of lithium salt concentrations on blended 49% poly(methyl methacrylate) grafted natural rubber and poly(methyl methacrylate) based solid polymer electrolyte. Electrochimica Acta, 2011, 57, 123-131.	5.2	64
7			

#	Article	IF	Citations
19	Structural, morphological and transport properties of Ni doped ZnO thin films deposited by thermal co-evaporation method. Materials Science in Semiconductor Processing, 2021, 123, 105530.	4.0	29
20	Characteristics of ionically conducting jatropha oil-based polyurethane acrylate gel electrolyte doped with potassium iodide. Materials Chemistry and Physics, 2019, 222, 110-117.	4.0	27
21	Influence of binary lithium salts on 49% poly(methyl methacrylate) grafted natural rubber based solid polymer electrolytes. Arabian Journal of Chemistry, 2020, 13, 3351-3361.	4.9	27
22	Preparation and characterization of PVCâ€“LiClO4 based composite polymer electrolyte. Physica B: Condensed Matter, 2008, 403, 4128-4131.	2.7	26
23	Enhancement of Plasticizing Effect on Bio-Based Polyurethane Acrylate Solid Polymer Electrolyte and Its Properties. Polymers, 2018, 10, 1142.	4.5	26
24	Theoretical insight into magnetic and thermoelectric properties of Au doped ZnO compounds using density functional theory. Physica B: Condensed Matter, 2019, 562, 67-74.	2.7	25
25	Novel approach for the utilization of ionic liquid-based cellulose derivative biosourced polymer electrolytes in safe sodium-ion batteries. Polymer Bulletin, 2021, 78, 5355-5377.	3.3	24
26	Zinc(II) salphen complex-based fluorescence optical sensor for biogenic amine detection. Analytical and Bioanalytical Chemistry, 2019, 411, 6449-6461.	3.7	22
27	In situ solâ€“gel preparation of ZrO2 in nano-composite polymer electrolyte of PVDF-HFP/MG49 for lithium-ion polymer battery. Journal of Sol-Gel Science and Technology, 2019, 90, 665-675.	2.4	22
28	Impact of position and concentration of sodium on the photovoltaic properties of zinc oxide solar cells. Physica B: Condensed Matter, 2019, 560, 28-36.	2.7	21
29	Understanding the effect of the carbon on the photovoltaic properties of the Cu2ZnSnS4. Materials Chemistry and Physics, 2020, 251, 123065.	4.0	21
30	Effect of position and concentration of Li on ZnO physical properties: Density functional investigation. Chemical Physics Letters, 2019, 719, 45-53.	2.6	19
31	NickelPalladium alloyâ€“reduced graphene oxide as counter electrode for dye-sensitized solar cells. Journal of Molecular Liquids, 2021, 326, 115289.	4.9	18
32	Investigation on size and conductivity of polyaniline nanofiber synthesised by surfactant-free polymerization. Journal of Materials Research and Technology, 2021, 14, 255-261.	5.8	17
33	Polymer electrolyte for photoelectrochemical cell and dye-sensitized solar cell: a brief review. Ionics, 2014, 20, 1201-1205.	2.4	16
34	Free-Radical Photopolymerization of Acrylonitrile Grafted onto Epoxidized Natural Rubber. Polymers, 2021, 13, 660.	4.5	16
35	Regenerable and selective histamine impedimetric sensor based on hydroxyl functionalised Schiff base complex electrode. Electrochimica Acta, 2021, 379, 138186.	5.2	15
36	Sol-gel prepared Cu2ZnSnS4 (CZTS) semiconductor thin films: Role of solvent removal processing temperature. Materials Science in Semiconductor Processing, 2021, 132, 105874.	4.0	14

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37	Effect of annealing treatment on multilayer TiO2 films on the performance of dye-sensitized solar cells. Optik, 2020, 218, 164976.	2.9	13
38	Performance Analysis of Jatropha Oil-Based Polyurethane Acrylate Gel Polymer Electrolyte for Dye-Sensitized Solar Cells. ACS Omega, 2020, 5, 14267-14274.	3.5	13
39	Effect of ionic liquid 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide on the properties of poly(glycidyl methacrylate) based solid polymer electrolytes. Russian Journal of Electrochemistry, 2016, 52, 362-373.	0.9	12
40	Electronic and thermoelectric properties of chalcopyrite compounds Cu2(XY)S4 (Xâ€‰=â€‰Zn, Cd and Yâ€‰=â€‰Sn,) Tj ETQq0 0 0	1.8	12
41	Preparation and characterization of blended solid polymer electrolyte 49% poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5 of Solid State Electrochemistry, 2012, 16, 2275-2282.	2.5	11
42	Morphological, infrared, and ionic conductivity studies of poly(ethylene oxide)â€“49% poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Journal of Applied Polymer Science, 2012, 124, 4222-4229.	2.6	11
43	The Influences of 1-Butyl-3-Methylimidazolium Tetrafluoroborate on Electrochemical, Thermal and Structural Studies as Ionic Liquid Gel Polymer Electrolyte. Polymers, 2021, 13, 1277.	4.5	11
44	Palm-based cationic polyurethane membranes for solid polymer electrolytes application: A physico-chemical characteristics studies of chain-extended cationic polyurethane. Industrial Crops and Products, 2020, 155, 112757.	5.2	10
45	Ab-initio, Monte Carlo and experimental investigation on structural, electronic and magnetic properties of Zn1-Ni O nanoparticles prepared via sol-gel method. Journal of Alloys and Compounds, 2021, 854, 157142.	5.5	10
46	Recent Issues and Configuration Factors in Perovskite-Silicon Tandem Solar Cells towards Large Scaling Production. Nanomaterials, 2021, 11, 3186.	4.1	10
47	Electronic and Magnetic Properties of Mn-doped and (Mn,C)-codoped w-AlN with the Presence of N Vacancy. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3691-3697.	1.8	9
48	Schiff base complex/TiO2 chemosensor for visual detection of food freshness level. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 248, 119129.	3.9	8
49	In-situ UV cured acrylonitrile grafted epoxidized natural rubber (ACN-g-ENR) â€“ LiTFSI solid polymer electrolytes for lithium-ion rechargeable batteries. Reactive and Functional Polymers, 2021, 164, 104938.	4.1	8
50	Promising porous Cu2ZnSnS4 electrode composition synthesized by acetate route-based sol-gel process for lithium battery application. Ceramics International, 2021, 47, 20717-20724.	4.8	8
51	Perspectives in biopolymer/graphene-based composite application: Advances, challenges, and recommendations. Nanotechnology Reviews, 2022, 11, 1525-1554.	5.8	8
52	The impact of precursor thickness and surface roughness on the power factor of Cu2ZnSnS4 (CZTS) at near room temperature: Spin-coating deposition. Superlattices and Microstructures, 2021, 160, 107091.	3.1	8
53	Bio-Based Polycationic Polyurethane as an Ion-Selective Membrane for Nitrate Tapered Optical Fiber Sensors. IEEE Access, 2019, 7, 157103-157112.	4.2	6
54	Effects of Iodide/Triiodide (Iâ€“/I3 â€“) Ratios on Palm Based Polyurethane Polymer Electrolyte for Solid-State Dye-Sensitized Solar Cell. Jurnal Kejuruteraan, 2018, SI1, 63-68.	0.3	6

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55	Oxygen vacancy suppress room temperature ferromagnetism of p-type Cu doped ZnO: Synthesis and density functional theory. , 2022, 167, 207291.		5
56	TiO₂-SiO₂-Reinforced Methylated Grafted Natural Rubber (MG49-TiO₂-SiO₂) Polymer Nanocomposites: Preparation, Optimization and Characterization. Polymers and Polymer Composites, 2016, 24, 747-754.	1.9	4
57	Battery management systems (BMS) optimization for electric vehicles (EVs) in Malaysia. AIP Conference Proceedings, 2017, , .	0.4	3
58	Adhesion improvement of polyaniline counter electrode in dye-sensitized solar cell using bio-based alkyd. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	3
59	P-type Cu2ZnSnS4 as Multifunctional Material for Photovoltaic and Thermoelectric Application: Theoretical Investigation. Jurnal Kejuruteraan, 2018, SI1, 15-22.	0.3	3
60	Kajian Elektrolit Polimer berasaskan Getah Asli Terubah Suai (MG49) dalam Sel Suria Terpeka Pewarna. Sains Malaysiana, 2018, 47, 2667-2676.	0.5	3
61	Performance-Enhancing Sulfur-Doped TiO2 Photoanodes for Perovskite Solar Cells. Applied Sciences (Switzerland), 2022, 12, 429.	2.5	3
62	Signal to Noise Improvement Ratio of TDM-FBG Sensor Based on Golay Complementary Codes. , 2018, , .		2
63	Suppressing the secondary phases via N2 preheating of Cu2ZnSnS4 thin films with the addition of oleylamine and/or 1-Dodecanethiol solvents. Inorganic Chemistry Communication, 2021, 134, 109031.	3.9	2
64	Frontispiece: Perovskite Solar Cells: From the Laboratory to the Assembly Line. Chemistry - A European Journal, 2018, 24, .	3.3	1
65	Charge-Discharge Characteristics Improvement Through Optimization of Voltage Range for LiNiCoMnO2 Electrode for High Energy Density Lithium-Ion Batteries. Jurnal Kejuruteraan, 2018, 30, 229-234.	0.3	1
66	Supercapacitor performance gains from structural modification of carbon electrodes using gamma radiations. Journal of Electrochemical Science and Engineering, 0, , .	3.5	1
67	Influence of Electron beam radiation on the properties of Surface-Modified Titania-Filled gel polymer electrolytes using vinyltriethoxysilane (VTES) for lithium battery application. Results in Chemistry, 2022, 4, 100383.	2.0	1
68	Synthesis of palm-based polyurethane-LiClO4 via prepolymerization. AIP Conference Proceedings, 2015, , .	0.4	0
69	Studies on electrochemical behaviour of PVdF-HFP based ionic liquid gel polymer electrolyte. , 2019, , .		0
70	Properties of Gel Polymer Electrolyte Based Poly(Vinylidine Fluoride-Ño-Hexafluoropropylene) (PVdF-HFP), Lithium Perchlorate (LiClO₄) and 1-Butyl-3-Methylimmidazoliumhexafluorophosphate [PF₆]. Solid State Phenomena, 0, 317, 434-439.	0.3	0
71	Poly(Vinyl Alcohol)/ N-Methylene Phosphonic Chitosan/ 2-Hydroxyethylammonium Formate (PVA/NMPC/2-HEAF) Membrane for Fuel Cell Application. Solid State Phenomena, 0, 317, 440-446.	0.3	0
72	Effects of Isocyanate-to-Polyols (NCO/OH) Ratio on Bio-based Polyurethane Film from Palm Kernel Oil based Monoester Polyols (PKO-p) for Polymer Electrolytes Application. Medziagotyra, 2022, 28, 322-332.	0.2	0