Muhd Zu Azhan Yahya

List of Publications by Year in Descending Order

148 papers	1,652 citations	20 h-index	35 g-index
166 ext. papers	1,907 ext. citations	1.9 avg, IF	4.74 L-index

#	Paper	IF	Citations
148	First-principles calculations of electronic and optical properties of orthorhombic Bi2Se3 nano thin film. *Computational Condensed Matter*, **2022**, 30, e00618	1.7	0
147	Influence of Nd concentrations on the structural, electronic and optical properties of anatase TiO2: A first-principles approach. *Computational Condensed Matter*, **2022**, 31, e00672	1.7	0
146	Underlying mechanism of surface (001) cubic ATiO3 (A = Pb, Sn) in enhancing thermoelectric performance of thin-film application using density functional theory. *Surfaces and Interfaces*, **2021**, 27, 101524	4.1	2
145	Structural phase instability, mixed-phase, and energy band gap change in BiFeO3 under lattice strain effect from first-principles investigation. *Ceramics International*, **2021**, 47, 12592-12599	5.1	3
144	Effect of ethylene carbonate (EC) plasticizer on epoxidized 30% poly(methyl methacrylate)-grafted natural based polymer electrolytes for lithium batteries **2021**,		1
143	First-principles study on XV2S4 (X = Ni, Cr, and Mo) counter electrode for dye-sensitized solar cells. *Emergent Materials*, **2020**, 3, 125-131	3.5	0
142	Electrochemical properties of pyrolysed graphene/activated carbon composite doped with FeTMPP-Cl as electrode materials. *Ionics*, **2020**, 26, 2825-2834	2.7	1
141	Graphene-based Materials in Gas Sensor Applications: A Review. *Sensors and Materials*, **2020**, 32, 759	1.5	17
140	First principles study of structural, electronic and optical properties of orthorhombic phase Ni-doped Bi2Se3 using density functional theory. *Computational Condensed Matter*, **2020**, 25, e00510	1.7	2
139	Enhanced mechanism of thermoelectric performance of Bi2Se3 using density functional theory. *Materials for Renewable and Sustainable Energy*, **2020**, 9, 1	4.7	6
138	Characteristics of Electron Transport Study of Composited Graphene-Zinc Oxide Thin Film Photoanode for Dye-Sensitized Solar Cells. *Solid State Phenomena*, **2020**, 307, 185-191	0.4	1
137	Structural and electronic properties of TiO2 polymorphs with effective on-site coulomb repulsion term: DFT+U approaches. *Materials Today: Proceedings*, **2019**, 17, 472-483	1.4	2
136	Structural, electronic and magnetic properties of Ca, Sr and Ba heterovalent A-site ion substitution in BiFeO3 with different Fe oxidation states. *Materials Today: Proceedings*, **2019**, 7, 686-691	1.4	0
135	First-principles investigation of the ground state, structural phase transition, and magnetic ordering of strained BiVO3. *Journal of Applied Physics*, **2019**, 125, 082532	2.5	3
134	Effects of strain on electronic and optical properties of LiNbO3: a first principles study. *Materials Research Express*, **2019**, 6, 114002	1.7	3
133	First principles study on Zn doped MgO using Hubbard U correction. *Materials Research Express*, **2019**, 6, 094012	1.7	3
132	Structural and electronic properties of CO and NO gas molecules on Pd-doped vacancy graphene: A first principles study. *Applied Surface Science*, **2019**, 494, 817-828	6.7	25

131	Chitosan-assisted hydrothermal synthesis of multiferroic BiFeO3: Effects on structural, magnetic and optical properties. *Results in Physics*, **2019**, 15, 102740	3.7	8
130	Lithium-Ion Supercapacitor Using Vertically-aligned Carbon Nanotubes from Direct Growth Technique, and its Electrochemical Characteristics. *Portugaliae Electrochimica Acta*, **2019**, 37, 167-178	2.4	2
129	First-principles study on structural and electronic properties of Prussian blue cathode material for sodium-ion battery. *Molecular Crystals and Liquid Crystals*, **2019**, 693, 115-122	0.5	1
128	Potential complexes of NaCF3SO3-tetraethylene dimethyl glycol ether (tetraglyme)-based electrolytes for sodium rechargeable battery application. *Ionics*, **2019**, 25, 541-549	2.7	8
127	Electrical Dielectric Permittivity and Conductivity Analysis of Poly(N-Carbazole) (PVK) Blending with Polyvinylpyrrolidone (PVP). *Key Engineering Materials*, **2018**, 762, 244-248	0.4	
126	The Novel Usage of Nitrocellulose as a Propellant of 5.56 mm Bullet. *Solid State Phenomena*, **2018**, 280, 361-367	0.4	
125	The effects of ceramic fillers on chitosan grafted PMMA based polymer electrolyte **2018**,		1
124	First-principles studies on phase stability of TiO2 by using GGA+U calculations **2018**,		4
123	First-principles calculation on electronic properties of zinc oxide by zinc□ir system. *Journal of King Saud University, Engineering Sciences*, **2017**, 29, 278-283	2.2	12
122	Dielectric behaviour of UV-crosslinked sulfonated poly (ether ether ketone) with methyl cellulose (SPEEK-MC) as proton exchange membrane. *International Journal of Hydrogen Energy*, **2017**, 42, 9284-9292	4.7	18
121	Structural, electronic and optical properties of Bi2O3 polymorphs by first-principles calculations for photocatalytic water splitting. *Materials Research Express*, **2017**, 4, 034002	1.7	11
120	FTIR Spectrum Investigation of Thionine-Graphene Nanocomposite. *Applied Mechanics and Materials*, **2017**, 864, 42-47	0.3	1
119	Study of Structural, Electronic and Optical Properties of Lanthanum Doped Perovskite PZT Using Density Functional Theory. *Applied Mechanics and Materials*, **2017**, 864, 127-132	0.3	4
118	Investigation of structural, electronic and optical properties of hexagonal LuFeO3using first principles LDA + U. *Materials Research Express*, **2017**, 4, 044001	1.7	3
117	Structural, electronic and optical properties of brookite phase titanium dioxide. *Materials Research Express*, **2017**, 4, 044003	1.7	7
116	A symmetric supercapacitor based on 30% poly (methyl methacrylate) grafted natural rubber (MG30) polymer and activated carbon electrodes **2017**,		1
115	Ionic conductivity studies of epoxidized poly (methyl methacrylate)-grafted natural rubber based gel polymer electrolyte for dye sensitized polymer solar cell **2017**,		1
114	Cu- and Fe-hexacyanoferrate as cathode materials for Potassium ion battery: A First-principles study. *Chemical Physics Letters*, **2017**, 687, 244-249	2.5	12

113	Studies on graphene zinc-oxide nanocomposites photoanodes for high-efficient dye-sensitized solar cells **2017**,		3
112	Properties of Lead-Free Hybrid Organic-Inorganic Halide Perovskite CH3NH3BX3 Using Density Functional Theory. *Materials Today: Proceedings*, **2017**, 4, 5154-5160	1.4	2
111	Effects of Vanadium Substitution in the Layered LiFeSO 4 OH: A First Principles Investigation. *Materials Today: Proceedings*, **2017**, 4, 5108-5115	1.4	4
110	Theoretical study of PbZrTiO3and PbSnZrTiO3using a total-energy planewave-pseudopotential method. *Materials Research Express*, **2017**, 4, 074001	1.7	2
109	Properties of High Na-Ion Content N-Propyl-N-Methylpyrrolidinium Bis(Fluorosulfonyl)Imide -Ethylene Carbonate Electrolytes. *Electrochimica Acta*, **2017**, 247, 983-993	6.7	20
108	Effect of Phenylene Diamine Antioxidant on Physico-Chemical Properties of Methyl Grafted Natural Rubber Polymer Electrolytes. *Applied Mechanics and Materials*, **2017**, 864, 48-53	0.3	
107	Effect of ionic liquid incarceration during free radical polymerization of PMMA on its structural and electrical properties. *Ionics*, **2017**, 23, 295-301	2.7	5
106	Mesoporous carbon synthesized from different pore sizes of SBA-15 for high density electrode supercapacitor application **2017**,		1
105	Ultrasonic Assisted Synthesis of Reduced Graphene Oxide in Glucose Solution. *Key Engineering Materials*, **2016**, 708, 25-29	0.4	4
104	Experimental and First-Principles Investigations of Lattice Strain Effect on Electronic and Optical Properties of Biotemplated BiFeO3 Nanoparticles. *Journal of Physical Chemistry C*, **2016**, 120, 26012-26020	3.8	13
103	Effect of Loading Amount of Glucose Precursor on Mesoporous Carbon Surface Area for Supercapacitor Electrode Application. *Materials Science Forum*, **2016**, 857, 101-105	0.4	
102	First-Principles Study on Structural, Electronic and Optical Properties of TiO2 for Dye-Sensitized Solar Cells Photoanode. *Materials Science Forum*, **2016**, 846, 719-725	0.4	7
101	Effects of Different Electrolyte Concentrations and Scan Rates in Mesoporous Carbon Electrode-Based Capacitance. *Advanced Materials Research*, **2016**, 1133, 3-7	0.5	5
100	First Principles Calculation of ε-Phase of Solid Oxygen. *Acta Physica Polonica A*, **2016**, 129, 468-471	0.6	
99	Hubbard U calculations on optical properties of 3d transition metal oxide TiO2. *Results in Physics*, **2016**, 6, 891-896	3.7	34
98	Electrochemical Properties of Glyme Based Plasticizer on Gel Polymer Electrolytes Doped with Lithium Bis(Trifluoromethanesulfonyl)Imide. *Materials Science Forum*, **2016**, 846, 534-538	0.4	3
97	First Principles Study on Structural and Electronic Properties of PZT and PSnZT Using Density Functional Theory. *Materials Science Forum*, **2016**, 846, 734-739	0.4	2
96	Structural, Electronic and Optical Properties of Nd-Doped Anatase TiO2 for Dye-Sensitized Solar Cells from Density Functional Theory. *Materials Science Forum*, **2016**, 846, 726-733	0.4	2

95	Effect of lithium intercalation on the structural and electronic properties of layered LiFeSO4OH and layered FeSO4OH using first-principle calculations. *Computational Materials Science*, **2016**, 119, 144-151	3.2	7
94	X-Ray Diffraction and Infrared Studies on Plasticized Cellulose Acetate Complexed with Ammonium Iodide for Solid Polymer Electrolyte. *Materials Science Forum*, **2016**, 846, 523-527	0.4	5
93	An Investigation on the Effect of La3+ Alteration on Structural Properties of Perovskite PbTiO3: Total Energy Calculation. *Key Engineering Materials*, **2016**, 708, 42-45	0.4	
92	Structural and Magnetic Study on the Effect of Substitution of Cobalt by d-Valent Elements of Co2FeSi Heusler Alloy. *Key Engineering Materials*, **2016**, 708, 37-41	0.4	
91	An Investigation of Structural and Electronic Properties of Novel Cathode Material Li2MnP2O7 and its Delithiated Li2-xMnP2O7 (x=1,2): A First Principle Study. *Advanced Materials Research*, **2015**, 1107, 485-490	0.5	
90	First Principles Study on Structural and Electronic Properties of LiFeSO4F Cathode Material for Lithium Ion Batteries. *Advanced Materials Research*, **2015**, 1107, 508-513	0.5	3
89	Glucose-Reduced MnO2/Graphene Composites Electrode for Supercapacitor. *Advanced Materials Research*, **2015**, 1108, 39-43	0.5	
88	Cellulose acetate–lithium bis(trifluoromethanesulfonyl)imide solid polymer electrolyte: ATR-FTIR and ionic conductivity behavior. *Functional Materials Letters*, **2015**, 08, 1540017	1.2	6
87	Activated carbon and single-walled carbon nanotube based electrochemical capacitor in 1M LiPF6 electrolyte. *Materials Research Bulletin*, **2015**, 69, 20-23	5.1	18
86	The Effect of LiCF3SO3 Complexed MG30-PEMA Blend Solid Polymer Electrolyte. *Advanced Materials Research*, **2015**, 1107, 158-162	0.5	
85	Impedance Behavior of Treated Methyl-Grafted Natural Rubber Polymer Electrolytes. *Advanced Materials Research*, **2015**, 1107, 217-222	0.5	1
84	Effect of epoxidation on 30% poly(methyl methacrylate)-grafted natural rubber polymer electrolytes **2015**,		1
83	Preparation and characterization of polymer blend based on sulfonated poly (ether ether ketone) and polyetherimide (SPEEK/PEI) as proton exchange membranes for fuel cells **2015**,		1
82	Low-energy phases, electronic and optical properties of Bi 1− x La x FeO 3 solid solution: Ab-initio LDA+U studies. *Ceramics International*, **2015**, 41, 10940-10948	5.1	14
81	Self-interaction corrected LDA + U investigations of BiFeO3properties: plane-wave pseudopotential method. *Materials Research Express*, **2015**, 2, 116101	1.7	24
80	EFFECTS OF DISSOLVED OXYGEN ON THE INTEGRITY OF INDUSTRIAL CHLORINATED RUBBER–BASED PRIMER USED IN RUBBER/METAL COMPOSITES. *Rubber Chemistry and Technology*, **2015**, 88, 502-514	1.7	4
79	Optical Transition, Excitation, and Emission Properties of Poly(N-Vinlycarbazole) Blended with Poly(Vinylidene Fluoride-co-Hexafluoropropene) and Polyvinylpyrrolidone. *Acta Physica Polonica A*, **2015**, 127, 1075-1078	0.6	1
78	Optical Transition, Excitation, and Emission Properties of Poly(N-Vinlycarbazole) Blended with Poly(Vinylidene Fluoride-co-Hexafluoropropene) and Polyvinylpyrrolidone. *Acta Physica Polonica A*, **2015**, 127, 1430-1433	0.6	1

77	First-Principles Comparative Study of the Electronic and Optical Properties of Tetragonal (P4mm) ATiO3 (A = Pb,Sn,Ge). *Integrated Ferroelectrics*, **2014**, 155, 23-32	0.8	20
76	Determination of Electronic Structure and Band Gap of Li2MnP2O7 via First-Principle Study. *Integrated Ferroelectrics*, **2014**, 155, 71-79	0.8	5
75	Conduction mechanism of lithium bis(oxalato)borate□ellulose acetate polymer gel electrolytes. *Ionics*, **2014**, 20, 1671-1680	2.7	7
74	Ab Initio Studies on the Structural and Electronic Properties of Bismuth Ferrite Based on Ferroelectric Hexagonal Phase and Paraelectric Orthorhombic Phase. *Integrated Ferroelectrics*, **2014**, 155, 134-142	0.8	10
73	First Principles Calculation of Tetragonal (P4 mm) Pb-free Ferroelectric Oxide of SnTiO3. *Ferroelectrics*, **2014**, 459, 134-142	0.6	10
72	Influences of Epitaxial Strain and Volume on BaTiO3: Ab Initio Total Energy Calculation. *Integrated Ferroelectrics*, **2014**, 155, 91-99	0.8	3
71	First Principles LDA+U Calculations for ZnO Materials. *Integrated Ferroelectrics*, **2014**, 155, 15-22	0.8	46
70	Preparation and Characterization of Epoxidized-30% Poly(methyl methacrylate)-grafted Natural Rubber Polymer Electrolyte. *Journal of Nano Research*, **2014**, 28, 163-170	1	1
69	Establishment of Structural and Elastic Properties of Titanate Compounds Based on Pb, Sn and Ge by First-Principles Calculation. *Applied Mechanics and Materials*, **2014**, 510, 57-62	0.3	6
68	First Principles Study on Structural and Electronic Properties of LiFeSO4OH Cathode Material for Lithium Ion Batteries. *Applied Mechanics and Materials*, **2014**, 510, 33-38	0.3	1
67	First-Principles Calculation of the Structural, Elastic, Electronic and Lattice Dynamics of GeTiO3. *Ferroelectrics*, **2013**, 452, 122-128	0.6	8
66	First principles calculation on structural and lattice dynamic of SnTiO3 and SnZrO3. *Ceramics International*, **2013**, 39, S297-S300	5.1	17
65	Structural, Electronic, and Lattice Dynamics of PbTiO3, SnTiO3, and SnZrO3: A Comparative First-Principles Study. *Integrated Ferroelectrics*, **2013**, 142, 119-127	0.8	29
64	Characterization of Poly(N-vinlycarbazole) Blending with Different Composition by Using Polarized Electronic Spectroscopy. *Advanced Materials Research*, **2013**, 660, 19-23	0.5	2
63	First principle study on structural, elastic and electronic properties of cubic BiFeO3. *Ceramics International*, **2013**, 39, S283-S286	5.1	20
62	Investigation on modified natural rubber gel polymer electrolytes for lithium polymer battery. *Journal of Power Sources*, **2013**, 244, 636-640	8.9	30
61	Electrochemical Studies of Composite Cellulose Acetate-Based Polymer Gel Electrolytes for Proton Batteries. *Proceedings of the National Academy of Sciences India Section A - Physical Sciences*, **2012**, 82, 49-52	0.9	3
60	The effect of composition nanofiller Al2O3 to the conductivity, morphology and thermal properties of MG30-LiTf polymer electrolyte **2012**,		1

59	Polarized absorption and dielectric spectra of poly (N-carbazole) blends **2012**,		1
58	First Principle Study on the Lead-Free Perovskite Structure of SnTiO3. *Advanced Structured Materials*, **2012**, 251-258	0.6	2
57	Comparative study of cubic Pm3m between SnZrO3 and PbZrO3 by first principles calculation **2012**,		1
56	First principles calculation on elastic, electronic and optical properties of new cubic (Pm3m) pb-free perovskite oxide of SnZrO3 **2012**,		2
55	Dielectric behaviour of cellulose acetate-based polymer electrolytes. *Ionics*, **2012**, 18, 599-606	2.7	37
54	Graft Copolymerazation of 1-Vinylimidazole onto Poly(vinylidene Flouride) by Radiation-Induced Grafting for Fuel Cells Membrane. *Advanced Materials Research*, **2012**, 476-478, 636-641	0.5	
53	Freely-Suspended, Single Chamber Glucose Oxidase-Laccase Enzymatic Fuel Cell. *Advanced Materials Research*, **2012**, 512-515, 1499-1502	0.5	1
52	Effect of Pressure on Structural, Electronic and Elastic Properties of Cubic (Pm3m) SnTiO3 Using First Principle Calculation. *Advanced Materials Research*, **2012**, 501, 342-346	0.5	21
51	MG49-KOH-PC alkaline gel polymer electrolytes membrane for supercapacitors **2012**,		2
50	Bioenergy from Gloeophyllum-Rhizopus Fungal Biofuel Cell. *Advanced Materials Research*, **2012**, 512-515, 1461-1465	0.5	2
49	Evaluation of Porous Electrode Properties Using Metal-Air Electrochemical System. *Advanced Materials Research*, **2012**, 512-515, 1619-1623	0.5	
48	Effect of Salt Concentration and Humidity on the Ionic Conductivity of Poly(Vinylidene Fluoride-Hexafluoropropylene) (PVdF-HFP). *Advanced Materials Research*, **2012**, 501, 39-43	0.5	9
47	Optical Characterization of Luminescence Polymer Blends Using Tauc/Davis-Mott Model. *Advanced Materials Research*, **2012**, 488-489, 628-632	0.5	12
46	First Principle Study of Dynamical Properties of a New Perovskite Material Based on GeTiO3. *Advanced Materials Research*, **2012**, 501, 352-356	0.5	7
45	Electrical and physical studies on 49% methyl-grafted natural rubber-based composite polymer gel electrolytes. *Electrochimica Acta*, **2011**, 57, 207-211	6.7	14
44	Effects of lithium salt on chitosan-g-PMMA based polymer electrolytes. *Materials Research Innovations*, **2011**, 15, s202-s205	1.9	8
43	Conductivity studies on plasticised cellulose acetate-ammonium iodide based polymer electrolytes. *Materials Research Innovations*, **2011**, 15, s39-s42	1.9	3
42	Conductivity Studies on Li1-XAlxTi2-X(PO4)3 (X=0.0-0.5) Due to the Addition of Al3+ Trivalent Cation. *Advanced Materials Research*, **2011**, 418-420, 1869-1872	0.5	

41	Conductivity modification of polymer gel electrolytes: addition of MG49 and SiO2. *Materials Research Innovations*, **2011**, 15, s153-s156	1.9	1
40	Effects of TiO2 on conductivity performance of cellulose acetate based polymer gel electrolytes for proton batteries. *Materials Research Innovations*, **2011**, 15, s229-s231	1.9	5
39	Conductivity studies on cellulose acetate ammonium tetrafluoroborate based polymer electrolytes. *Materials Research Innovations*, **2011**, 15, s168-s172	1.9	15
38	Effects of UV irradiation time on electrical, physical and thermal properties of SPEEK TS composite membranes. *Materials Research Innovations*, **2011**, 15, s206-s209	1.9	
37	Natural rubber-grafted with 30% poly(methylmethacrylate) characterization for application in lithium polymer battery **2010**,		5
36	Proton Conductivity Studies on Biopolymer Electrolytes **2010**,		3
35	Ionic Conductivity in Solutions of Poly(ethylene oxide) and Lithium Perchlorate. *Macromolecular Symposia*, **2010**, 290, 46-55	0.8	21
34	Gel polymer electrolyte based on methyl-grafted natural rubber for proton batteries. *Materials Research Innovations*, **2009**, 13, 263-265	1.9	7
33	PLASTICIZED PVA/PVP KOH ALKALINE SOLID POLYMER BLEND ELECTROLYTE FOR ELECTROCHEMICAL CELLS. *Functional Materials Letters*, **2009**, 02, 121-125	1.2	6
32	Studies on cellulose acetate-based gel polymer electrolytes for proton batteries. *Materials Research Innovations*, **2009**, 13, 232-234	1.9	17
31	Electrical properties of PEO iCF3SO3 SiO2 nanocomposite polymer electrolytes. *Materials Research Innovations*, **2009**, 13, 255-258	1.9	19
30	Frequency dependent conductivity studies on PMMA iCF3SO3 polymer electrolytes. *Materials Research Innovations*, **2009**, 13, 285-287	1.9	6
29	Investigation on effects of substituents in N,N?-dibensylidene ethane-1,2-diamine towards corrosion inhibition on steel in 1M HCl. *Materials Research Innovations*, **2009**, 13, 305-308	1.9	4
28	Electrochemical performance of anode material from palm oils derived carbon nanotubes for lithium ion batteries. *Materials Research Innovations*, **2009**, 13, 269-271	1.9	4
27	The Coagulation Impact of 50% Epoxidised Natural Rubber Chain in Ethylene Carbonate-Plasticized Solid Electrolytes. *Macromolecular Symposia*, **2009**, 277, 62-68	0.8	11
26	Conductivity studies of phosphonated methylcellulose membrane. *Materials Research Innovations*, **2009**, 13, 243-245	1.9	1
25	Solid state proton battery using plasticised cellulose alt complex electrolyte. *Materials Research Innovations*, **2009**, 13, 252-254	1.9	4
24	Effects of double solvents/plasticisers on proton conducting gel polymer electrolytes. *Materials Research Innovations*, **2009**, 13, 298-301	1.9	1

23	Grafted natural rubber-based polymer electrolytes: ATR-FTIR and conductivity studies. *Ionics*, **2008**, 14, 491-500	2.7	65
22	Conductivity studies of plasticized anhydrous PEO-KOH alkaline solid polymer electrolyte. *Ionics*, **2008**, 14, 59-62	2.7	6
21	Electrochemical studies on epoxidised natural rubber-based gel polymer electrolytes for lithium–air cells. *Journal of Power Sources*, **2008**, 183, 351-354	8.9	62
20	Impedance studies on plasticized PMMA-LiX [X: CF_3SO_3, $N(CF_3SO_2)_2$] polymer electrolytes. *Materials Letters*, **2007**, 61, 2026-2029	3.3	78
19	Adsorption of Cd(II) Ions from Aqueous Solutions by Lalang (Imperata cylindrica) Leaf Powder: Effect of Physicochemical Environment. *Journal of Applied Sciences*, **2007**, 7, 489-493	0.3	9
18	Electrochemical studies on polymer electrolytes based on poly(methyl methacrylate)-grafted natural rubber for lithium polymer battery. *Ionics*, **2006**, 12, 303-307	2.7	40
17	Kinetic and Thermodynamic Study of Cd2+ Adsorption onto Rubber Tree (hevea brasiliensis) Leaf Powder. *Materials Science Forum*, **2006**, 517, 217-221	0.4	17
16	The role and impact of rubber in poly(methyl methacrylate)/lithium triflate electrolyte. *Journal of Power Sources*, **2006**, 159, 1401-1404	8.9	73
15	Ionic Conduction Model in Salted Chitosan Membranes Plasticized with Fatty Acid. *Journal of Applied Sciences*, **2006**, 6, 1287-1291	0.3	19
14	XRD and Surface Morphology Studies on Chitosan-Based Film Electrolytes. *Journal of Applied Sciences*, **2006**, 6, 3150-3154	0.3	13
13	Electrical conductivity studies on PVA/PVP-KOH alkaline solid polymer blend electrolyte. *Ionics*, **2005**, 11, 418-422	2.7	43
12	Electrical properties of plasticized chitosan-lithium imide with oleic acid-based polymer electrolytes for lithium rechargeable batteries. *Ionics*, **2005**, 11, 460-463	2.7	13
11	Conductivity and X-ray photoelectron studies on lithium acetate doped chitosan films. *Carbohydrate Polymers*, **2004**, 55, 95-100	10.3	51
10	Sulphide based anode material for lithium rechargeable battery. *Ionics*, **2003**, 9, 253-257	2.7	4
9	Effect of oleic acid plasticizer on chitosan–lithium acetate solid polymer electrolytes. *European Polymer Journal*, **2003**, 39, 897-902	5.2	129
8	Ionic conductivity studies of poly(vinyl alcohol) alkaline solid polymer electrolyte and its use in nickel–zinc cells. *Solid State Ionics*, **2003**, 156, 171-177	3.3	161
7	Studies on lithium acetate doped chitosan conducting polymer system. *European Polymer Journal*, **2002**, 38, 1191-1197	5.2	40
6	Evaluation of Olivine LiFePO4 Polyanionic Cathode Material Using Density Functional Theory. *Key Engineering Materials*,908, 293-298	0.4	0

5	Effect of pH and Immersion Time on the Corrosion Protection of SDBS:ZnSO4 Pretreated Mild Steel in Sodium Chloride Solution. *Solid State Phenomena*,317, 491-497	0.4	0
4	Ab Initio Study on Structural Properties of NaFeSO4OH Cathode Material for Rechargeable Sodium Ion Battery. *Solid State Phenomena*,317, 400-405	0.4	
3	Physical and Electrical Studies of High Molecular Weight Poly (Methyl Methacrylate) Based Solid Polymer Electrolytes. *Solid State Phenomena*,317, 393-399	0.4	
2	Electrical and Electrochemical Studies of Polymer Gel Electrolytes Based on Agarose-LiBOB and P(VP-co-VAc)-LiBOB. *Solid State Phenomena*,317, 385-392	0.4	
1	Electrochemical analysis of silane incorporated sodium dodecylbenzene sulphonate: zinc sulphate pre-treatment on mild steel and its effect on epoxy coating performance. *Corrosion Engineering Science and Technology*,1-10	1.7	