

Anji Reddy Polu

List of Publications by Year in descending order

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41
papers

2,013
citations

236925

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330143

37
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41
all docs

41
docs citations

41
times ranked

2329
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, thermal, and electrochemical studies of biodegradable gel polymer electrolyte for electric double layer capacitor. High Performance Polymers, 2022, 34, 673-682.	1.8	4
2	Improved ion dissociation and amorphous region of PEO based solid polymer electrolyte by incorporating tetracyanoethylene. Materials Today: Proceedings, 2020, , .	1.8	3
3	Synthesis, optimization and applications of ZnO/polymer nanocomposites. Materials Science and Engineering C, 2019, 98, 1210-1240.	7.3	191
4	A Novel Nanocomposite Polymer Electrolyte for Application in Solid State Lithium Ion Battery. , 2018, , .		2
5	Ionic liquid doped PEO-based solid polymer electrolytes for lithium-ion polymer batteries. International Journal of Hydrogen Energy, 2017, 42, 7212-7219.	7.1	150
6	Effect of Organicâ€“Inorganic Hybrid Nanoparticles (POSSâ€“PEG($n = 4$)) on Thermal, Mechanical, and Electrical Properties of PEOâ€“Based Solid Polymer Electrolytes. Advances in Polymer Technology, 2017, 36, 145-151.	1.7	15
7	Solution-processed white graphene-reinforced ferroelectric polymer nanocomposites with improved thermal conductivity and dielectric properties for electronic encapsulation. Journal of Polymer Research, 2017, 24, 1.	2.4	59
8	Recent advances in MoS ₂ nanostructured materials for energy and environmental applications â€“ A review. Journal of Solid State Chemistry, 2017, 252, 43-71.	2.9	216
9	Eonomer 200F [®] : A High-Performance Nanofiller for Polymer Reinforcementâ€“Investigation of the Structure, Morphology and Dielectric Properties of Polyvinyl Alcohol/Eonomer-200F [®] Nanocomposites for Embedded Capacitor Applications. Journal of Electronic Materials, 2017, 46, 2406-2418.	2.2	35
10	Newly developed biodegradable polymer nanocomposites of cellulose acetate and Al ₂ O ₃ nanoparticles with enhanced dielectric performance for embedded passive applications. Journal of Materials Science: Materials in Electronics, 2017, 28, 973-986.	2.2	73
11	Effect of POSS-PEG hybrid nanoparticles on cycling performance of polyether-LiDFOB based solid polymer electrolytes for all solid-state Li-ion battery applications. Journal of Industrial and Engineering Chemistry, 2017, 45, 68-77.	5.8	43
12	Fumed SiO ₂ nanoparticle reinforced biopolymer blend nanocomposites with high dielectric constant and low dielectric loss for flexible organic electronics. Journal of Applied Polymer Science, 2017, 134, .	2.6	75
13	Impedance spectroscopy, ionic conductivity and dielectric studies of new Li ⁺ ion conducting polymer blend electrolytes based on biodegradable polymers for solid state battery applications. Journal of Materials Science: Materials in Electronics, 2016, 27, 11410-11424.	2.2	65
14	Ionic liquid incorporated nanocomposite polymer electrolytes for rechargeable lithium ion battery: A way to achieve improved electrochemical and interfacial properties. Journal of Industrial and Engineering Chemistry, 2016, 40, 168-176.	5.8	34
15	Effect of TiO ₂ nanoparticles on structural, thermal, mechanical and ionic conductivity studies of PEO 12 â€“LiTDI solid polymer electrolyte. Journal of Industrial and Engineering Chemistry, 2016, 37, 347-353.	5.8	100
16	Perspectives for solid biopolymer electrolytes in dye sensitized solar cell and battery application. Renewable and Sustainable Energy Reviews, 2016, 65, 1098-1117.	16.4	106
17	A study of structural, electrical and electrochemical properties of PVdF-HFP gel polymer electrolyte films for magnesium ion battery applications. Journal of Industrial and Engineering Chemistry, 2016, 37, 67-74.	5.8	64
18	The Effects of LiTDI Salt and POSS-PEG ($n = 4$) Hybrid Nanoparticles on Crystallinity and Ionic Conductivity of PEO Based Solid Polymer Electrolytes. Science of Advanced Materials, 2016, 8, 931-940.	0.7	45

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19	Poly(ethylene oxide)-lithium difluoro(oxalato)borate new solid polymer electrolytes: ion-polymer interaction, structural, thermal, and ionic conductivity studies. <i>Ionics</i> , 2015, 21, 2771-2780.	2.4	62
20	Electrical performance of soft polymer ionic membranes with mono and multi polymer systems. <i>Karbala International Journal of Modern Science</i> , 2015, 1, 194-199.	1.0	3
21	New solid polymer electrolytes (PEO ₂₀ -LiTfD ⁺ SN) for lithium batteries: structural, thermal and ionic conductivity studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8548-8554.	2.2	45
22	Nanocomposite solid polymer electrolytes based on poly(ethylene oxide)/POSS-PEG (n=13.3) hybrid nanoparticles for lithium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 323-329.	5.8	84
23	A comprehensive study of chalcogenide quantum dot sensitized solar cells with a new solar cell exceeding 1 V output. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 1083-1092.	16.4	27
24	Magnesium ion conducting solid polymer blend electrolyte based on biodegradable polymers and application in solid-state batteries. <i>Ionics</i> , 2015, 21, 125-132.	2.4	59
25	Effect of ceramic fillers on polyethylene glycol-based solid polymer electrolytes for solid-state magnesium batteries. <i>High Performance Polymers</i> , 2014, 26, 628-631.	1.8	18
26	Effect of zinc salt on transport, structural, and thermal properties of PEG-based polymer electrolytes for battery application. <i>Ionics</i> , 2014, 20, 675-679.	2.4	26
27	Preparation and characterization of PEG-Mg(CH ₃ COO) ₂ -CeO ₂ composite polymer electrolytes for battery application. <i>Bulletin of Materials Science</i> , 2014, 37, 309-314.	1.7	28
28	Mg ²⁺ -ion conducting poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (gly Materials Express, 2014, 4, 79-84.	0.5	15
29	Preparation and characterization of pva based solid polymer electrolytes for electrochemical cell applications. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 641-648.	3.8	70
30	Ionic Conductivity and Discharge Characteristic Studies of PVA-Mg(CH ₃ COO) ₂ Solid Polymer Electrolytes. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013, 62, 76-80.	3.4	62
31	Effect of TiO ₂ ceramic filler on PEG-based composite polymer electrolytes for magnesium batteries. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	14
32	Effect Of Al ₂ O ₃ ceramic Filler On PEG-based Composite Polymer Electrolytes For Magnesium Batteries. <i>Advanced Materials Letters</i> , 2013, 4, 543-547.	0.6	41
33	AC conductivity and electrochemical studies of PVA/PEG based polymer blend electrolyte films. , 2012, , .		2
34	Effect of Mixed Glass Former on Ionic Conductivity of Silver Boro Tungstate glass system x[0.75Ag:0.25AgCl]: (1-x) [Ag ₂ O-B ₂ O ₃ :WO ₃]. <i>Journal of Physics: Conference Series</i> , 2012, 365, 012034.	0.4	1
35	Ion-Conducting Polymer Electrolyte Based on Poly (Ethylene Glycol) Complexed with Mg(CH ₃ COO) ₂ Application as an Electrochemical Cell. <i>E-Journal of Chemistry</i> , 2012, 9, 869-874.	0.5	10
36	Ionic Conductivity And Electrochemical Cell Studies Of New Mg ²⁺ Ion Conducting PVA/PEG Based Polymer Blend Electrolytes. <i>Advanced Materials Letters</i> , 2012, 3, 406-409.	0.6	13

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37	Impedance Spectroscopy and FTIR Studies of PEG - Based Polymer Electrolytes. E-Journal of Chemistry, 2011, 8, 347-353.	0.5	62
38	AC impedance and dielectric spectroscopic studies of Mg ²⁺ ion conducting PVA-PEG blended polymer electrolytes. Bulletin of Materials Science, 2011, 34, 1063-1067.	1.7	63
39	Frequency and Temperature Dependence of Conductivity Studies of New Silver-Calcia-Borate Glass System. , 2011, , .		0
40	Conductivity, XRD, and FTIR Studies of New Mg ²⁺ -ion-conducting Solid Polymer Electrolytes: [PEG: Mg(CH ₃ COO) ₂]. Journal of the Korean Physical Society, 2011, 59, 114-118.	0.7	27
41	Development of solid polymer electrolytes based on poly (ethylene oxide) complexed with 2-trifluoromethyl-4, 5-dicyanoimidazole lithium salt and 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquid for Li-ion batteries. High Performance Polymers, 0, , 095400832211130.	1.8	1