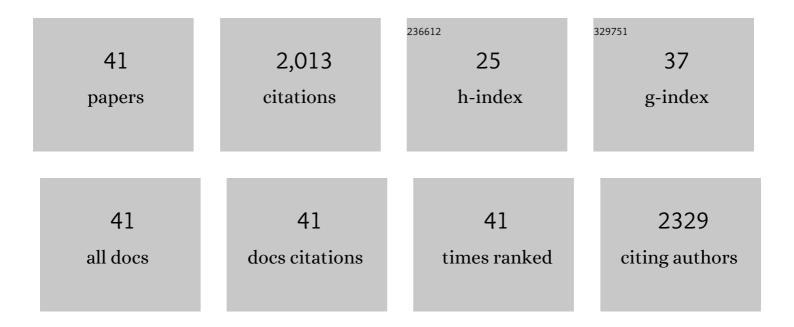
Anji Reddy Polu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8982364/publications.pdf Version: 2024-02-01



ΔΝΙΙ ΡΕΠΟΥ ΡΟΙΤΙ

#	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.	0.8	4
2	Improved ion dissociation and amorphous region of PEO based solid polymer electrolyte by incorporating tetracyanoethylene. Materials Today: Proceedings, 2020, , .	0.9	3
3	Synthesis, optimization and applications of ZnO/polymer nanocomposites. Materials Science and Engineering C, 2019, 98, 1210-1240.	3.8	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.	3.8	150
6	Effect of Organic–Inorganic Hybrid Nanoparticles (POSS–PEG(<i>n</i> = 4)) on Thermal, Mechanical, and Electrical Properties of PEOâ€Based Solid Polymer Electrolytes. Advances in Polymer Technology, 2017, 36, 145-151.	0.8	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.	1.2	59
8	Recent advances in MoS 2 nanostructured materials for energy and environmental applications – A review. Journal of Solid State Chemistry, 2017, 252, 43-71.	1.4	216
9	Eeonomer 200F®: A High-Performance Nanofiller for Polymer Reinforcement—Investigation of the Structure, Morphology and Dielectric Properties of Polyvinyl Alcohol/Eeonomer-200F® Nanocomposites for Embedded Capacitor Applications. Journal of Electronic Materials, 2017, 46, 2406-2418.	1.0	35
10	Newly developed biodegradable polymer nanocomposites of cellulose acetate and Al2O3 nanoparticles with enhanced dielectric performance for embedded passive applications. Journal of Materials Science: Materials in Electronics, 2017, 28, 973-986.	1.1	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.	2.9	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, .	1.3	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.	1.1	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.	2.9	34
15	Effect of TiO 2 nanoparticles on structural, thermal, mechanical and ionic conductivity studies of PEO 12 –LiTDI solid polymer electrolyte. Journal of Industrial and Engineering Chemistry, 2016, 37, 347-353.	2.9	100
16	Perspectives for solid biopolymer electrolytes in dye sensitized solar cell and battery application. Renewable and Sustainable Energy Reviews, 2016, 65, 1098-1117.	8.2	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.	2.9	64
18	The Effects of LiTDI Salt and POSS-PEG (<i>n</i> = 4) Hybrid Nanoparticles on Crystallinity and Ionic Conductivity of PEO Based Solid Polymer Electrolytes. Science of Advanced Materials, 2016, 8, 931-940.	0.1	45

Anji Reddy Polu

#	Article	IF	CITATIONS
19	Poly(ethylene oxide)-lithium difluoro(oxalato)borate new solid polymer electrolytes: ion–polymer interaction, structural, thermal, and ionic conductivity studies. Ionics, 2015, 21, 2771-2780.	1.2	62
20	Electrical performance of soft polymer ionic membranes with mono and multi polymer systems. Karbala International Journal of Modern Science, 2015, 1, 194-199.	0.5	3
21	New solid polymer electrolytes (PEO20–LiTDI–SN) for lithium batteries: structural, thermal and ionic conductivity studies. Journal of Materials Science: Materials in Electronics, 2015, 26, 8548-8554.	1.1	45
22	Nanocomposite solid polymer electrolytes based on poly(ethylene oxide)/POSS-PEG (n=13.3) hybrid nanoparticles for lithium ion batteries. Journal of Industrial and Engineering Chemistry, 2015, 31, 323-329.	2.9	84
23	A comprehensive study of chalcogenide quantum dot sensitized solar cells with a new solar cell exceeding 1 V output. Renewable and Sustainable Energy Reviews, 2015, 52, 1083-1092.	8.2	27
24	Magnesium ion conducting solid polymer blend electrolyte based on biodegradable polymers and application in solid-state batteries. Ionics, 2015, 21, 125-132.	1.2	59
25	Effect of ceramic fillers on polyethylene glycol-based solid polymer electrolytes for solid-state magnesium batteries. High Performance Polymers, 2014, 26, 628-631.	0.8	18
26	Effect of zinc salt on transport, structural, and thermal properties of PEG-based polymer electrolytes for battery application. Ionics, 2014, 20, 675-679.	1.2	26
27	Preparation and characterization of PEG–Mg(CH3COO)2–CeO2 composite polymer electrolytes for battery application. Bulletin of Materials Science, 2014, 37, 309-314.	0.8	28
28	Mg ² ⁺ -ion conducting poly(ethylene) Tj ETQq0 0 0 rgBT /Overlo Materials Express, 2014, 4, 79-84.	ock 10 Tf 5 0.2	50 387 Td (gly 15
29	Preparation and characterization of pva based solid polymer electrolytes for electrochemical cell applications. Chinese Journal of Polymer Science (English Edition), 2013, 31, 641-648.	2.0	70
30	Ionic Conductivity and Discharge Characteristic Studies of PVA-Mg(CH ₃ COO) ₂ Solid Polymer Electrolytes. International Journal of Polymeric Materials and Polymeric Biomaterials, 2013, 62, 76-80.	1.8	62
31	Effect of TiO[sub 2] ceramic filler on PEG-based composite polymer electrolytes for magnesium batteries. AIP Conference Proceedings, 2013, , .	0.3	14
32	Effect Of Al2O3Âceramic Filler On PEG-based Composite PolymerÂelectrolytes For Magnesium Batteries. Advanced Materials Letters, 2013, 4, 543-547.	0.3	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[0.75Agl:0.25AgCl]: (1-x) [Ag ₂ 0-{B ₂ O ₃ :WO ₃ }]. Journal of Physics: Conference Series, 2012, 365, 012034.	0.3	1
35	Ion-Conducting Polymer Electrolyte Based on Poly (Ethylene Glycol) Complexed with Mg(CH ₃ COO) _{2[–]} Application as an Electrochemical Cell. E-Journal of Chemistry, 2012, 9, 869-874.	0.4	10
36	Ionic Conductivity And Electrochemical Cell Studies Of New Mg2+Âion Conducting PVA/PEG Based Polymer Blend ElectrolytesÂ. Advanced Materials Letters, 2012, 3, 406-409.	0.3	13

Anji Reddy Polu

#	Article	IF	CITATIONS
37	Impedance Spectroscopy and FTIR Studies of PEG - Based Polymer Electrolytes. E-Journal of Chemistry, 2011, 8, 347-353.	0.4	62
38	AC impedance and dielectric spectroscopic studies of Mg2 +  ion conducting PVA–PEG blended polym electrolytes. Bulletin of Materials Science, 2011, 34, 1063-1067.	er 0.8	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 Mg2+-ion-conducting Solid Polymer Electrolytes: [PEG: Mg(CH3COO)2]. Journal of the Korean Physical Society, 2011, 59, 114-118.	0.3	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.	0.8	1