

Baskaran Rangasamy

List of Publications by Year in descending order

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38
papers

1,654
citations

361413

20
h-index

434195

31
g-index

39
all docs

39
docs citations

39
times ranked

1642
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, thermal and electrical properties of PVA/LiCF ₃ SO ₃ polymer electrolyte. Journal of Non-Crystalline Solids, 2010, 356, 2277-2281.	3.1	187
2	Conductivity and thermal studies of blend polymer electrolytes based on PVAc/PMMA. Solid State Ionics, 2006, 177, 2679-2682.	2.7	184
3	ac impedance, DSC and FT-IR investigations on (x)PVAc/(1-x)PVdF blends with LiClO ₄ . Materials Chemistry and Physics, 2006, 98, 55-61.	4.0	139
4	Laser Raman and FTIR studies on Li ⁺ interaction in PVAc/LiClO ₄ polymer electrolytes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 65, 1234-1240.	3.9	116
5	Conductivity and thermal behavior of proton conducting polymer electrolyte based on poly (N-vinyl) Tj ETQq1 1 0.784314 rgBT / Overlo	5.4	102
6	Vibrational, ac impedance and dielectric spectroscopic studies of poly(vinylacetate)/N,N-dimethylformamide/LiClO ₄ polymer gel electrolytes. Journal of Power Sources, 2004, 134, 235-240.	7.8	94
7	Dielectric and conductivity relaxations in PVAc based polymer electrolytes. Ionics, 2004, 10, 129-134.	2.4	86
8	Complex AC impedance, transference number and vibrational spectroscopy studies of proton conducting PVAc/NH ₄ SCN polymer electrolytes. Physica B: Condensed Matter, 2005, 357, 412-419.	2.7	84
9	Thermal and dielectric studies of polymer electrolyte based on P(ECH-EO). Materials Chemistry and Physics, 2011, 126, 404-408.	4.0	72
10	Structure, thermal and transport properties of PVAc/LiClO ₄ solid polymer electrolytes. Journal of Physics and Chemistry of Solids, 2007, 68, 407-412.	4.0	70
11	Characterization of PVA/NH ₄ NO ₃ Polymer Electrolyte and Its Application in Rechargeable Proton Battery. Journal of the Physical Society of Japan, 2010, 79, 163-168.	1.6	58
12	3-dimensional carbon nanotube for Li-ion battery anode. Journal of Power Sources, 2012, 219, 364-370.	7.8	53
13	Ag ⁺ ion transport studies in a polyvinyl alcohol-based polymer electrolyte system. Journal of Solid State Electrochemistry, 2006, 10, 193-197.	2.5	52
14	Multi layered Si/CuO quantum dots wrapped by graphene for high-performance anode material in lithium-ion battery. Carbon, 2014, 77, 1065-1072.	10.3	50
15	AC impedance studies on proton conducting polymer electrolyte complexes (PVA+CH ₃ COONH ₄). Ionics, 2004, 10, 135-138.	2.4	49
16	Large scale patternable 3-dimensional carbon nanotube/graphene structure for flexible Li-ion battery. Carbon, 2014, 68, 493-500.	10.3	46
17	Three-dimensional carbon nanotubes for high capacity lithium-ion batteries. Journal of Power Sources, 2015, 299, 465-471.	7.8	40
18	Three-dimensional free-standing carbon nanotubes for a flexible lithium-ion battery anode. Nanotechnology, 2016, 27, 105402.	2.6	27

#	ARTICLE	IF	CITATIONS
19	Biocorrosion and biological properties of sputtered ceramic carbide coatings for biomedical applications. <i>Surface and Coatings Technology</i> , 2019, 374, 569-578.	4.8	23
20	Structural and electrochemical studies on thin film LiNi _{0.8} Co _{0.2} O ₂ by PLD for micro battery. <i>Solid State Ionics</i> , 2009, 180, 636-643.	2.7	21
21	Structural and ionic transport properties of Li ₂ AlZr[PO ₄] ₃ . <i>Journal of Power Sources</i> , 2006, 157, 533-536.	7.8	19
22	Thermal, vibrational and Ac impedance studies on proton conducting polymer electrolytes based on poly(vinyl acetate). <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 531-536.	3.1	19
23	Tribochemistry of TaN, TiAlN and TaAlN coatings under ambient atmosphere and high-vacuum sliding conditions. <i>Applied Surface Science</i> , 2020, 499, 143989.	6.1	17
24	Detection of Degradation of Lithium-Ion Batteries with Acoustic Emission Technique. <i>ECS Transactions</i> , 2010, 25, 163-167.	0.5	12
25	Analysis of P(VdCl-co-AN-co-MMA)-LiClO ₄ -EC triblock copolymer electrolytes. <i>Bulletin of Materials Science</i> , 2015, 38, 183-190.	1.7	8
26	Ionic conductivity studies on Sr stabilized zirconia by impedance spectroscopy. <i>Ionics</i> , 2005, 11, 362-365.	2.4	6
27	¹ H NMR, thermal, and conductivity studies on PVAc based gel polymer electrolytes. <i>Journal of Applied Polymer Science</i> , 2008, 110, 1945-1954.	2.6	6
28	Analysis of Lithium Ion Conducting P(VdCl-co-AN-co-MMA)-LiClO ₄ -DMF Tri Block Copolymer Electrolytes. <i>Indian Journal of Applied Research</i> , 2011, 3, 498-505.	0.0	5
29	Structural and Optical Properties of CdSe/CdTe Core-Shell Quantum Dots. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-7.	2.7	4
30	Enhanced $\hat{\epsilon} \pm$ -Mn ₂ O ₃ nanorods synthesized by one-pot hydrothermal route for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 11067-11077.	2.2	4
31	Synthesis, Growth and Characterization of a Non-Linear Optical Crystal: Glycine Lead acetate (GLA). <i>Materials Today: Proceedings</i> , 2022, 49, 2588-2591.	1.8	1
32	AC IMPEDANCE AND DIELECTRIC RELAXATION ANALYSIS OF PVAc-PVdF BLEND POLYMER ELECTROLYTES. , 2004, , 1057-1064.		0
33	MICRO RAMAN, ⁷ Li NMR AND ac IMPEDANCE ANALYSIS OF PVAc:LiClO ₄ SOLID POLYMER ELECTROLYTES. , 2006, , .		0
34	Temperature Dependent ¹ H NMR Study of PVA: NH ₄ X (X = Cl, Br, I) Polymer Electrolyte. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 15-18.	1.6	0
35	3 Dimensional Carbon Nanostructures for Li-ion Battery Anode. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1505, 1.	0.1	0
36	ELECTRICAL CONDUCTIVITY STUDIES ON PROTON CONDUCTING POLYMER ELECTROLYTES BASED ON POLY (VINYL ACETATE). , 2006, , .		0

#	ARTICLE	IF	CITATIONS
37	STRUCTURAL, VIBRATIONAL AND AC IMPEDANCE ANALYSIS OF NANO COMPOSITE POLYMER ELECTROLYTES BASED ON PVAc. , 2006, , .		0
38	Analysis of Proton Conducting P(Vdcl-co-AN-co-MMA)-NH4SCN-EC Tri Block Copolymer Electrolytes. Indian Journal of Applied Research, 2011, 3, 440-445.	0.0	0