

A A Prabu

List of Publications by Year in descending order

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55
papers

822
citations

623734

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times ranked

927
citing authors

#	ARTICLE	IF	CITATIONS
1	Annealing effect upon chain orientation, crystalline morphology, and polarizability of ultra-thin P(VDF-TrFE) film for nonvolatile polymer memory device. <i>Polymer</i> , 2010, 51, 6319-6333.	3.8	80
2	Piezoelectric properties of electrospun poly(L-lactic acid) nanofiber web. <i>Materials Letters</i> , 2015, 148, 58-62.	2.6	77
3	Metal Salt-Induced Ferroelectric Crystalline Phase in Poly(vinylidene fluoride) Films. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1316-1321.	3.9	66
4	Mechanical and thermal studies of intercross-linked networks based on siliconized polyurethane-epoxy/unsaturated polyester coatings. <i>Progress in Organic Coatings</i> , 2004, 49, 236-243.	3.9	56
5	Infrared spectroscopic studies on crystallization and Curie transition behavior of ultrathin films of P(VDF/TrFE) (72/28). <i>Vibrational Spectroscopy</i> , 2006, 41, 1-13.	2.2	47
6	Effect of thickness on the crystallinity and Curie transition behavior in P(VDF/TrFE) (72/28) copolymer thin films using FTIR-transmission spectroscopy. <i>Vibrational Spectroscopy</i> , 2009, 49, 101-109.	2.2	43
7	Influence of the organic electrolyte and anodization conditions on the preparation of well-aligned TiO ₂ nanotube arrays in dye-sensitized solar cells. <i>Solar Energy</i> , 2011, 85, 1551-1559.	6.1	35
8	Piezoelectric characteristics of electrospun PVDF as a function of phase-separation temperature and metal salt content. <i>Macromolecular Research</i> , 2017, 25, 981-988.	2.4	32
9	Comparative electrical bistable characteristics of ferroelectric poly(vinylidene fluoride)/polyurethane blends. <i>Physics Letters</i> , 2008, 93, 182902.	3.3	30
10	Miscibility, crystallization and annealing studies of poly(vinylidene fluoride)/hyperbranched polyester blends. <i>Polymer</i> , 2014, 55, 886-895.	3.8	29
11	UCST-Type Phase Separation and Crystallization Behavior in Poly(vinylidene fluoride)/Poly(methyl methacrylate) Blends. <i>Polymer</i> , 2014, 55, 886-895.	4.8	28
12	Electrospun poly(vinylidene fluoride)-poly(octafluoropentyl acrylate) blend based piezocapacitive pressure sensors. <i>Macromolecular Research</i> , 2016, 24, 670-674.	2.4	26
13	Electrospun Poly(vinylidene fluoride)-Poly(octafluoropentyl acrylate)-Hydroxyapatite Blend Based Piezoelectric Pressure Sensors. <i>Macromolecular Research</i> , 2019, 27, 743-749.	2.4	24
14	Phase Separation and Crystallization Behavior of Poly(vinylidene fluoride)/Poly(1,4-butylene adipate) Blends under an Electric Field. <i>Macromolecules</i> , 2008, 41, 3598-3604.	4.8	16
15	Electrospun Poly(vinylidene fluoride)-Magnesiochromite Nanofiber-Based Piezoelectric Nanogenerator for Energy Harvesting Applications. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4879-4888.	4.4	15
16	Mechanical and Electrical Studies of Silicone Modified Polyurethane-Epoxy Intercrosslinked Networks. <i>Polymer Journal</i> , 2004, 36, 848-855.	2.7	13
17	A systematic approach to data-driven modeling and soft sensing in a full-scale plant. <i>Water Science and Technology</i> , 2009, 60, 363-370.	2.5	13
18	Hyperbranched polyester as a crosslinker in polyurethane formation: real-time monitoring using in situ FTIR. <i>Polymer Bulletin</i> , 2016, 73, 2867-2888.	3.3	13

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#	ARTICLE	IF	CITATIONS
37	Piezoelectric sensor based on electrospun poly(vinylidene fluoride)/sulfonated poly(1,4-phenylene) Tj ETQq1 1 0.784314 rgBT /Over	2.6	4
38	Development of energy harvesting piezoelectric sensors based on electrospun polyvinylidene fluoride/aliphatic hyperbranched polyester (Gen-1) (80/20) blend. Materials Today: Proceedings, 2021, 47, 914-920.	1.8	3
39	Studies on electrospun polyvinylidene fluoride/aromatic hyperbranched polyester (gen-1) blend nanoweb for energy harvesting applications. Materials Today: Proceedings, 2021, 47, 885-888.	1.8	3
40	Effect of Varying Memory Device Architectures on the Electrical Properties of P(VDF/TrFE)(72/28) Copolymer Thin Film. Advances in Science and Technology, 0, , .	0.2	2
41	Effect of Dissolved Cadmium Chloride and Ammonium Chloride Salts on the Enthalpy of Mixing of the Methanol + Benzene System at 303.15 K. Chinese Journal of Chemical Engineering, 2010, 18, 995-999.	3.5	2
42	A Review on Electrospun PVDF-Doped Metal Oxide Nanoparticles for Sensor Applications. ECS Transactions, 2022, 107, 14675-14685.	0.5	2
43	A Review on Electrospun PVDF-Metal Nanoparticle Composites for Electronic Applications. ECS Transactions, 2022, 107, 13289-13298.	0.5	2
44	Studies on Electrical and Thermal Properties of Vinyloxyaminosilane Grafted Ethylene-Propylene-Diene Terpolymer/Linear Low Density Polyethylene Blends for Cable Applications. Polymer Journal, 2003, 35, 30-36.	2.7	1
45	Effect of Thermal Cycling on the Ferroelectric Characteristics of Vinylidene Fluoride-Trifluoroethylene Copolymer Thin Films. Advanced Materials Research, 2012, 584, 201-204.	0.3	1
46	Effect of Cadmium Chloride and Ammonium Chloride Salts on the Enthalpy of Mixing of Pyridine + Water at 303.15 K. Journal of Chemical & Engineering Data, 2012, 57, 1-6.	1.9	1
47	UV and thermally stable polystyrene-MWCNT superhydrophobic coatings. Surface and Interface Analysis, 2017, 49, 93-98.	1.8	1
48	Studies on electrospun polyvinylidene fluoride/aliphatic hyperbranched polyester (3rd gen) based piezoelectric sensors. Materials Today: Proceedings, 2021, 47, 950-956.	1.8	1
49	Synthesis of Aromatic Hyperbranched Polymer Based on Diphenolic Acid and Pentaerythritol: Reaction Kinetics Using FTIR Technique. ECS Transactions, 2022, 107, 11137-11144.	0.5	1
50	Chemistry and Applications of Organosilanes - An Overview. ECS Transactions, 2022, 107, 14539-14546.	0.5	1
51	New Evaluation Methods of Average Molecular Weight and the Degree of Branching of Poly(1,4-phenylene sulfide) Samples through Their Partial Sulfonation. Fibers and Polymers, 2022, 23, 900-913.	2.1	1
52	Fabrication and Electrical Studies of P(VDF/TrFE)(72/28) Copolymer based Non-Volatile Memory Devices as a Function of Varying Device Structures. Materials Research Society Symposia Proceedings, 2008, 1071, 1.	0.1	0
53	Synthesis and Characterization of Some New Metallo-Organic Derivatives of Germanium(IV). Asian Journal of Chemistry, 2014, 26, 2019-2021.	0.3	0
54	Phase Transition in PVDF-TrFE/Hyperbranched Polyester (90/10) Blend Thin Film During Heating-Cooling Cycle Using FTIR Spectroscopy. ECS Transactions, 2022, 107, 9445-9452.	0.5	0

#	ARTICLE	IF	CITATIONS
55	A Mini-Review on the Synthesis, Characterization and Applications of End-capped Hyperbranched Polymers. ECS Transactions, 2022, 107, 11351-11360.	0.5	0