

Thamil Selvi Velayutham

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6578716/publications.pdf>

Version: 2024-02-01

37
papers

735
citations

623734

14
h-index

552781

26
g-index

37
all docs

37
docs citations

37
times ranked

899
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and theoretical dielectric studies of PVDF/PZT nanocomposite thin films. <i>Ceramics International</i> , 2011, 37, 1653-1660.	4.8	123
2	Synthesis and characterization of polyurethane coatings derived from polyols synthesized with glycerol, phthalic anhydride and oleic acid. <i>Progress in Organic Coatings</i> , 2009, 66, 367-371.	3.9	68
3	Theoretical and experimental approach on dielectric properties of ZnO nanoparticles and polyurethane/ZnO nanocomposites. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	53
4	Pyroelectricity enhancement of PVDF nanocomposite thin films doped with ZnO nanoparticles. <i>Smart Materials and Structures</i> , 2014, 23, 125006.	3.5	49
5	The structural and electrical properties of $Sr_xBa(1-x)Nb_2O_6$ (SBN) ceramic with varied composition. <i>Ceramics International</i> , 2015, 41, 7119-7124.	4.8	34
6	Ferroelectric and pyroelectric properties of novel lead-free polyvinylidene fluoride-trifluoroethylene- ϵ -Bi _{0.5} Na _{0.5} TiO ₃ nanocomposite thin films for sensing applications. <i>Ceramics International</i> , 2015, 41, 13836-13843.	4.8	29
7	Review of Cellulose Smart Material: Biomass Conversion Process and Progress on Cellulose-Based Electroactive Paper. <i>Journal of Renewable Materials</i> , 2018, 6, 1-25.	2.2	29
8	TEMPO-oxidized nanocellulose films derived from coconut residues: Physicochemical, mechanical and electrical properties. <i>International Journal of Biological Macromolecules</i> , 2021, 180, 392-402.	7.5	28
9	Dry Thermotropic Glycolipid Self-Assembly: A Review. <i>Journal of Oleo Science</i> , 2018, 67, 651-668.	1.4	27
10	Pyroelectric, ferroelectric, piezoelectric and dielectric properties of Na _{0.5} Bi _{0.5} TiO ₃ ceramic prepared by sol-gel method. <i>Ceramics International</i> , 2016, 42, 15664-15670.	4.8	24
11	Maximizing the output power density enhancement of solid polymer electrolyte based-triboelectric nanogenerators via contact electrification-induced ionic polarization. <i>Nano Energy</i> , 2021, 90, 106616.	16.0	23
12	Effect of cerium addition on the microstructure, electrical and relaxor behavior of Sr _{0.5} Ba _{0.5} Nb ₂ O ₆ ceramics. <i>Journal of Alloys and Compounds</i> , 2016, 666, 334-340.	5.5	22
13	The physical and mechanical properties of polyurethanes from oleic acid polyols. <i>Journal of Applied Polymer Science</i> , 2009, 112, 3554-3559.	2.6	19
14	Phase sensitive molecular dynamics of self-assembly glycolipid thin films: A dielectric spectroscopy investigation. <i>Journal of Chemical Physics</i> , 2014, 141, 085101.	3.0	17
15	An overlapped electron-cloud model for the contact electrification in piezo-assisted triboelectric nanogenerators via control of piezoelectric polarization. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25857-25866.	10.3	16
16	Structural control of the dielectric, pyroelectric and ferroelectric properties of poly(vinylidene fluoride) based nanocomposites. <i>Journal of Applied Physics</i> , 2014, 116, 2414-2423.	2.8	15
17	Glycolipids from natural sources: dry liquid crystal properties, hydrogen bonding and molecular mobility of Palm Kernel oil mannosides. <i>Liquid Crystals</i> , 2020, 47, 1180-1194.	2.2	14
18	Structure-property interpretation of biological polyhydroxyalkanoates with different monomeric composition: Dielectric spectroscopy investigation. <i>International Journal of Biological Macromolecules</i> , 2021, 169, 311-320.	7.5	14

#	ARTICLE	IF	CITATIONS
19	p-Methoxy Azobenzene Terpolymer as a Promising Energy-Storage Liquid Crystal System. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22472-22482.	3.1	13
20	Dielectric, pyroelectric, and ferroelectric properties of gadolinium doped Sr _{0.53} Ba _{0.47} Nb ₂ O ₆ ceramic. <i>Ceramics International</i> , 2017, 43, 9783-9789.	4.8	12
21	Liquid Crystalline Copolymers Containing Sulfonic and Light-Responsive Groups: From Molecular Design to Conductivity. <i>Molecules</i> , 2020, 25, 2579.	3.8	12
22	Molecular dynamics of anhydrous glycolipid self-assembly in lamellar and hexagonal phases. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15182-15190.	2.8	11
23	The role of conductivity and molecular mobility on the photoanisotropic response of a new azo-polymer containing sulfonic groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112268.	3.9	10
24	Ferroelectric, pyroelectric and piezoelectric properties of CeO ₂ -doped Na _{0.5} Bi _{0.5} TiO ₃ ceramics. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	8
25	The synergic influence of carbon nanotube and nanosilica on the compressive strength of lightweight concrete. <i>Journal of Building Engineering</i> , 2020, 32, 101719.	3.4	8
26	A new light-responsive resistive random-access memory device containing hydrogen-bonded complexes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 404, 112914.	3.9	8
27	Energy storage properties of Dy ³⁺ doped Sr _{0.5} Ba _{0.5} Nb ₂ O ₆ thick film with nano-size grains. <i>Metals and Materials International</i> , 2017, 23, 1045-1049.	3.4	7
28	Improving the operational voltage of vertical organic field effect transistor (VOFET) by altering the morphology of dielectric layer. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11961-11968.	2.2	6
29	New side-chain liquid crystalline terpolymers with anhydrous conductivity: Effect of azobenzene substitution on light response and charge transfer. <i>European Polymer Journal</i> , 2021, 146, 110246.	5.4	6
30	Pyroelectricity in Synthetic Amphitropic Glycolipid for Potential Application of IR Sensor Device. <i>Ferroelectrics</i> , 2013, 445, 67-73.	0.6	5
31	Effect of oleic acid content and chemical crosslinking on the properties of palm oil based polyurethane coatings. <i>Journal of Applied Polymer Science</i> , 2013, 129, 415-421.	2.6	5
32	Effects of lipid packing and intermolecular hydrogen bond on thermotropic phase transition of stearyl glucoside. <i>Journal of Molecular Liquids</i> , 2019, 281, 20-28.	4.9	5
33	Mesomorphic, optical, dielectric, and electro-optic properties of azo-ester materials: Effect of lateral methyl and terminal substituents. <i>Journal of Molecular Liquids</i> , 2021, 336, 116308.	4.9	5
34	Synthesis and Characterization of Methyl Acrylate-Copolymerized Medium-Chain-Length Poly-3-hydroxyalkanoates. <i>Journal of Polymers and the Environment</i> , 2021, 29, 3004-3014.	5.0	4
35	Electrical behavior of polyurethane derived from polyols synthesized with glycerol, phthalic anhydride, and oleic acid. <i>Journal of Applied Polymer Science</i> , 2011, 121, 1796-1803.	2.6	2
36	Thermally induced crystallization of mechanically alloyed Na _{0.5} Bi _{0.5} TiO ₃ and K _{0.5} Bi _{0.5} TiO ₃ piezoelectric ceramic nanopowders. <i>Ceramics International</i> , 2015, 41, 14157-14164.	4.8	2

#	ARTICLE	IF	CITATIONS
37	Miscibility and Crystallinity Study of Poly(vinylidene Fluoride) / Poly(L-Lactic Acid) Polymer Blend. Materials Today: Proceedings, 2018, 5, S130-S136.	1.8	2