

Venkata S Puli

List of Publications by Year in descending order

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62
papers

1,985
citations

201385

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63
docs citations

63
times ranked

2121
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure, dielectric, ferroelectric, and energy density properties of (1-x)BZT-xBCT ceramic capacitors for energy storage applications. Journal of Materials Science, 2013, 48, 2151-2157.	1.7	175
2	Barium zirconate-titanate/barium calcium-titanate ceramics via sol-gel process: novel high-energy-density capacitors. Journal Physics D: Applied Physics, 2011, 44, 395403.	1.3	141
3	Investigations on structure, ferroelectric, piezoelectric and energy storage properties of barium calcium titanate (BCT) ceramics. Journal of Alloys and Compounds, 2014, 584, 369-373.	2.8	109
4	Studies on structural, dielectric, and transport properties of Ni _{0.65} Zn _{0.35} Fe ₂ O ₄ . Journal of Applied Physics, 2014, 115, 243904.	1.1	102
5	Correlation of dielectric, electrical and magnetic properties near the magnetic phase transition temperature of cobalt zinc ferrite. Physical Chemistry Chemical Physics, 2017, 19, 210-218.	1.3	96
6	Structure, dielectric tunability, thermal stability and diffuse phase transition behavior of lead free BZT-xBCT ceramic capacitors. Journal of Physics and Chemistry of Solids, 2013, 74, 466-475.	1.9	88
7	Chemical bonding and magnetic properties of gadolinium (Gd) substituted cobalt ferrite. Journal of Alloys and Compounds, 2015, 644, 470-475.	2.8	74
8	Structural, morphological and piezoresponse studies of Pr and Sc co-substituted BiFeO ₃ ceramics. Journal Physics D: Applied Physics, 2012, 45, 055302.	1.3	71
9	Studies of Phase Transitions and Magnetoelectric Coupling in PFN-CZFO Multiferroic Composites. Journal of Physical Chemistry C, 2016, 120, 1936-1944.	1.5	71
10	Photovoltaic effect in transition metal modified polycrystalline BiFeO ₃ thin films. Journal Physics D: Applied Physics, 2014, 47, 075502.	1.3	54
11	Room temperature multiferroic properties of Pb(Fe _{0.5} Nb _{0.5})O ₃ -Co _{0.65} Zn _{0.35} Fe ₂ O ₄ composites. Journal of Applied Physics, 2013, 114, .	1.1	52
12	Transition metal modified bulk BiFeO ₃ with improved magnetization and linear magneto-electric coupling. Journal of Alloys and Compounds, 2011, 509, 8223-8227.	2.8	49
13	Crystal structure, dielectric, ferroelectric and energy storage properties of La-doped BaTiO ₃ semiconducting ceramics. Journal of Advanced Dielectrics, 2015, 05, 1550027.	1.5	48
14	Core-shell structured poly(glycidyl methacrylate)/BaTiO ₃ nanocomposites prepared by surface-initiated atom transfer radical polymerization: A novel material for high energy density dielectric storage. Journal of Polymer Science Part A, 2015, 53, 719-728.	2.5	45
15	Polymer Nanocomposites for Energy Storage Applications. Materials Today: Proceedings, 2015, 2, 3853-3863.	0.9	42
16	Nanoscale polarisation switching and leakage currents in (Ba _{0.955} Ca _{0.045})(Zr _{0.17} Ti _{0.83})O ₃ epitaxial thin films. Journal Physics D: Applied Physics, 2015, 48, 355502.	1.3	42
17	Structural, dielectric and impedance spectroscopy studies in (Bi _{0.90} R _{0.10})Fe _{0.95} Sc _{0.05} O ₃ [R=La, Nd] ceramics. Ceramics International, 2014, 40, 9895-9902.	2.3	41
18	Structure, Ferroelectric, Dielectric and Energy Storage Studies of Ba _{0.70} Ca _{0.30} TiO ₃ , Ba(Zr _{0.20} Ti _{0.80})O ₃ Ceramic Capacitors. Integrated Ferroelectrics, 2014, 157, 139-146.	0.3	40

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19	Nanoscale piezoresponse and magnetic studies of multiferroic Co and Pr co-substituted BFO thin films. <i>Materials Research Bulletin</i> , 2012, 47, 4240-4245.	2.7	38
20	Synthesis and characterization of lead-free ternary component BSTâ€“BCTâ€“BZT ceramic capacitors. <i>Journal of Advanced Dielectrics</i> , 2014, 04, 1450014.	1.5	36
21	Studies of the switchable photovoltaic effect in co-substituted BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	35
22	Polymer-ceramic nanocomposites for high energy density applications. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 641-646.	1.1	31
23	Core-shell like structured barium zirconium titanate-barium calcium titanateâ€“poly(methyl Tj ETQq1 1 0.784314 ggBT /Overlock 10 Tf	1.8	29
24	Improved magnetic and piezoresponse behavior of cobalt substituted BiFeO ₃ thin film. <i>Thin Solid Films</i> , 2012, 520, 6493-6498.	0.8	28
25	Observation of magnetization reversal and magnetocaloric effect in manganese modified EuCrO ₃ orthochromites. <i>Physica B: Condensed Matter</i> , 2017, 519, 69-75.	1.3	28
26	Microwave Assisted Synthesis of ZnO Nano-Sheets and Their Application in UV-Detector. <i>ECS Journal of Solid State Science and Technology</i> , 2012, 1, Q140-Q143.	0.9	27
27	Investigations on electrical and magnetic properties of multiferroic [(1âˆ“x)Pb(Fe _{0.5} Nb _{0.5})O ₃ âˆ“xNi _{0.65} Zn _{0.35} Fe ₂ O ₄] composites. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	27
28	Studies on magnetoelectric coupling in PFN-NZFO composite at room temperature. <i>Journal of Applied Physics</i> , 2014, 115, 194105.	1.1	27
29	Observation of large enhancement in energy-storage properties of lead-free polycrystalline 0.5BaZr _{0.2} Ti _{0.8} O ₃ âˆ“0.5Ba _{0.7} Ca _{0.3} TiO ₃ ferroelectric thin films. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 255304.		27
30	Exploring the Magnetoelectric Coupling at the Composite Interfaces of FE/FM/FE Heterostructures. <i>Scientific Reports</i> , 2018, 8, 17381.	1.6	26
31	Effect of lead borosilicate glass addition on the crystallization, ferroelectric and dielectric energy storage properties of Ba _{0.9995} La _{0.0005} TiO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2016, 688, 721-728.	2.8	21
32	Dielectric breakdown of BaOâ€“B ₂ O ₃ â€“ZnOâ€“[(BaZr _{0.2} Ti _{0.8})O ₃] _{0.85} [(Ba _{0.7} Ca _{0.3})TiO ₃] _{0.15} glass-ceramic composites. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 3510-3516.	1.5	20
33	A quaternary lead based perovskite structured materials with diffuse phase transition behavior. <i>Materials Research Bulletin</i> , 2011, 46, 2527-2530.	2.7	18
34	Chemical composition-tailored Li Ti _{0.1} Ni ₁ âˆ“O ceramics with enhanced dielectric properties. <i>Materials Chemistry and Physics</i> , 2016, 184, 82-90.	2.0	18
35	Instantaneous photoinitiated synthesis and rapid pulsed photothermal treatment of three-dimensional nanostructured TiO ₂ thin films through pulsed light irradiation. <i>Journal of Materials Research</i> , 2017, 32, 1701-1709.	1.2	18
36	Room temperature multiferroicity and magnetodielectric coupling in Oâ€“ ₃ composite thin films. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	16

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37	Structure and dielectric properties of BaO ϵ B ₂ O ₃ ϵ ZnO ϵ [(BaZr _{0.2} Ti _{0.8})O ₃] _{0.85} ϵ [(Ba _{0.7} Ca _{0.3})TiO ₃] _{0.15} glass ϵ ceramics for energy storage. Journal of Materials Science: Materials in Electronics, 2012, 23, 2005-2009.		13
38	Studies on dielectric, optical, magnetic, magnetic domain structure, and resistance switching characteristics of highly c-axis oriented NZFO thin films. Journal of Applied Physics, 2017, 122, 033902.	1.1	13
39	Low temperature sintered giant dielectric permittivity CaCu ₃ Ti ₄ O ₁₂ sol-gel synthesized nanoparticle capacitors. Journal of Advanced Dielectrics, 2017, 07, 1750017.	1.5	13
40	Surface modified BaTiO ₃ -polystyrene nanocomposites for energy storage. International Journal of Nanotechnology, 2014, 11, 910.	0.1	11
41	Magnetoelectric coupling effect in transition metal modified polycrystalline BiFeO ₃ thin films. Journal of Magnetism and Magnetic Materials, 2014, 369, 9-13.	1.0	11
42	Temperature Dependent Magnetic, Dielectric Studies of Sm-Substituted Bulk BiFeO ₃ . Journal of Superconductivity and Novel Magnetism, 2012, 25, 1109-1114.	0.8	10
43	PVDF ϵ BaSrTiO ₃ nanocomposites for flexible electrical energy storage devices. Emerging Materials Research, 2014, 3, 265-270.	0.4	10
44	Ferroelectric and Piezoelectric Studies on Mo ϵ Substituted SrBi ₂ Ta ₂ O ₉ Ferroelectric Ceramics. Integrated Ferroelectrics, 2011, 124, 1-9.	0.3	9
45	Impedance and Raman Spectroscopic Studies on La-modified BLSF Ceramics. Ferroelectrics, 2015, 474, 29-42.	0.3	9
46	Controlled and enhanced dielectric properties of high-titanium containing Li Ti _{0.1} Ni ₁ O via chemical composition-tailoring. Chemical Physics Letters, 2016, 649, 115-118.	1.2	9
47	Exploring phase transitions and magnetoelectric coupling of epitaxial asymmetric multilayer heterostructures. Journal of Materials Chemistry C, 2020, 8, 12113-12122.	2.7	8
48	Review on energy storage in lead ϵ free ferroelectric films. Energy Storage, 2023, 5, .	2.3	8
49	High-temperature phase transitions in a quaternary lead based perovskite structured materials with negative temperature coefficient of resistance (NTCR) behavior. Journal of Materials Science: Materials in Electronics, 2013, 24, 2790-2795.	1.1	7
50	Low-Temperature Magnetic and Magnetocaloric Properties of Manganese-Substituted Gd _{0.5} Er _{0.5} CrO ₃ Orthochromites. Crystals, 2022, 12, 263.	1.0	7
51	Room temperature structural, morphological, and enhanced ferroelectromagnetic properties of xBa _{0.7} Ca _{0.3} TiO ₃ ϵ (1 ϵ x)BaFe _{0.2} Ti _{0.8} O ₃ multiferroic composites. Journal of Applied Physics, 2012, 111, 102802.	1.1	6
52	Electric field induced weak ferroelectricity in Ba _{0.70} Sr _{0.30} TiO ₃ , ceramics capacitors. Ferroelectrics, 2017, 516, 133-139.	0.3	6
53	Recent Progress in Synthesis Methods of Shape-Memory Polymer Nanocomposites. , 2022, , 173-212.		6
54	Magnetoelectric and Multiferroic Properties of BaTiO ₃ /NiFe ₂ O ₄ /BaTiO ₃ Heterostructured Thin Films Grown by Pulsed Laser Deposition Technique. Crystals, 2021, 11, 1192.	1.0	5

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55	Nanoscale Ferroelectric Switchable Polarization and Leakage Current Behavior in (Ba _{0.50} Sr _{0.50})(Ti _{0.80} Sn _{0.20})O ₃ Thin Films Prepared Using Chemical Solution Deposition. Journal of Nanomaterials, 2015, 2015, 1-7.	1.5	4
56	Dielectric and Magnetic Properties of Pb(Fe _{0.5} Nb _{0.5})O ₃ - Ni _{0.65} Zn _{0.35} Fe ₂ O ₄ Composites. ECS Transactions, 2013, 50, 59-65.	0.3	3
57	Dielectric Properties of UV Cured Thick Film Polymer Networks through High Power Xenon Flash Lamp Curing. Materials Research Society Symposia Proceedings, 2014, 1630, 1.	0.1	3
58	Synthesis and structural properties of Ba(1-x)LaxTiO ₃ perovskite nanoparticles fabricated by solvothermal synthesis route. AIP Conference Proceedings, 2017, , .	0.3	2
59	Enhanced energy storage properties of epitaxial (Ba _{0.955} Ca _{0.045})(Zr _{1-x} Ti _x)O ₃ ferroelectric thin films. Energy Storage, 2022, 4, .		
60	Structural and magnetic studies on praseodymium and transition-metal co-substituted BiFeO ₃ ceramics. Multiferroic Materials, 2015, 1, .	0.0	0
61	Thin-film growth and structural characterization of a novel layered iridate Ba ₇ Ir ₃ O ₁₃ . Semiconductor Science and Technology, 2019, 34, 025002.	1.0	0
62	Electrochemical Properties of Nickel Oxide Nanostructures Grown Using a Low Pressure Chemical Vapor Deposition Process As Anode in Lithium Ion Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0