Venkata S Puli

List of Publications by Year
in descending order

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62 papers	1,985 citations	201674 27 h-index	243625 44 g-index
63 all docs	63 docs citations	63 times ranked	2121 citing authors

#	Article	IF	Citations
1	Structure, dielectric, ferroelectric, and energy density properties of (1Ââ^'Âx)BZTâ€"xBCT ceramic capacitors for energy storage applications. Journal of Materials Science, 2013, 48, 2151-2157.	3.7	175
2	Barium zirconate-titanate/barium calcium-titanate ceramics via solâ€"gel process: novel high-energy-density capacitors. Journal Physics D: Applied Physics, 2011, 44, 395403.	2.8	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.	5.5	109
4	Studies on structural, dielectric, and transport properties of Ni0.65Zn0.35Fe2O4. Journal of Applied Physics, 2014, 115, 243904.	2.5	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.	2.8	96
6	Structure, dielectric tunability, thermal stability and diffuse phase transition behavior of lead free BZTâ€"BCT ceramic capacitors. Journal of Physics and Chemistry of Solids, 2013, 74, 466-475.	4.0	88
7	Chemical bonding and magnetic properties of gadolinium (Gd) substituted cobalt ferrite. Journal of Alloys and Compounds, 2015, 644, 470-475.	5.5	74
8	Structural, morphological and piezoresponse studies of Pr and Sc co-substituted BiFeO₃ ceramics. Journal Physics D: Applied Physics, 2012, 45, 055302.	2.8	71
9	Studies of Phase Transitions and Magnetoelectric Coupling in PFN-CZFO Multiferroic Composites. Journal of Physical Chemistry C, 2016, 120, 1936-1944.	3.1	71
10	Photovoltaic effect in transition metal modified polycrystalline BiFeO₃thin films. Journal Physics D: Applied Physics, 2014, 47, 075502.	2.8	54
11	Room temperature multiferroic properties of Pb(Fe0.5Nb0.5)O3â€"Co0.65Zn0.35Fe2O4 composites. Journal of Applied Physics, 2013, 114, .	2.5	52
12	Transition metal modified bulk BiFeO3 with improved magnetization and linear magneto-electric coupling. Journal of Alloys and Compounds, 2011, 509, 8223-8227.	5.5	49
13	Crystal structure, dielectric, ferroelectric and energy storage properties of La-doped BaTiO3 semiconducting ceramics. Journal of Advanced Dielectrics, 2015, 05, 1550027.	2.4	48
14	Coreâ€shell structured poly(glycidyl methacrylate)/BaTiO₃ nanocomposites prepared by surfaceâ€initiated atom transfer radical polymerization: A novel material for high energy density dielectric storage. Journal of Polymer Science Part A, 2015, 53, 719-728.	2.3	45
15	Polymer Nanocomposites for Energy Storage Applications. Materials Today: Proceedings, 2015, 2, 3853-3863.	1.8	42
16	Nanoscale polarisation switching and leakage currents in (Ba_{0.955}Ca_{0.045})(Zr_{0.17}Ti_{0.83})O₃epitaxial thin films. Journal Physics D: Applied Physics, 2015, 48, 355502.	2.8	42
17	Structural, dielectric and impedance spectroscopy studies in (Bi0.90R0.10)Fe0.95Sc0.05O3 [R=La, Nd] ceramics. Ceramics International, 2014, 40, 9895-9902.	4.8	41
18	Structure, Ferroelectric, Dielectric and Energy Storage Studies of Ba_{0.70}Ca_{0.30}TiO₃, Ba(Zr_{0.20}Ti_{0.80})O₃ Ceramic Capacitors. Integrated Ferroelectrics, 2014, 157, 139-146.	0.7	40

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19	Nanoscale piezoresponse and magnetic studies of multiferroic Co and Pr co-substituted BFO thin films. Materials Research Bulletin, 2012, 47, 4240-4245.	5.2	38
20	Synthesis and characterization of lead-free ternary component BSTâ€“BCTâ€“BZT ceramic capacitors. Journal of Advanced Dielectrics, 2014, 04, 1450014.	2.4	36
21	Studies of the switchable photovoltaic effect in co-substituted BiFeO3 thin films. Applied Physics Letters, 2014, 105, .	3.3	35
22	Polymer-ceramic nanocomposites for high energy density applications. Journal of Sol-Gel Science and Technology, 2015, 73, 641-646.	2.4	31
23	Core-shell like structured barium zirconium titanate-barium calcium titanateâ€“poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	3.8	29
24	Improved magnetic and piezoresponse behavior of cobalt substituted BiFeO3 thin film. Thin Solid Films, 2012, 520, 6493-6498.	1.8	28
25	Observation of magnetization reversal and magnetocaloric effect in manganese modified EuCrO3 orthochromites. Physica B: Condensed Matter, 2017, 519, 69-75.	2.7	28
26	Microwave Assisted Synthesis of ZnO Nano-Sheets and Their Application in UV-Detector. ECS Journal of Solid State Science and Technology, 2012, 1, Q140-Q143.	1.8	27
27	Investigations on electrical and magnetic properties of multiferroic [(1â^'x)Pb(Fe0.5Nb0.5)O3â^'xNi0.65Zn0.35Fe2O4] composites. Journal of Applied Physics, 2013, 113, .	2.5	27
28	Studies on magnetoelectric coupling in PFN-NZFO composite at room temperature. Journal of Applied Physics, 2014, 115, 194105.	2.5	27
29	Observation of large enhancement in energy-storage properties of lead-free polycrystalline 0.5BaZr_{0.2}Ti_{0.8}O₃â€“0.5Ba_{0.7}Ca_{0.3}TiO₃ ferroelectric thin films. Journal Physics D: Applied Physics, 2019, 52, 255304.	2.8	27
30	Exploring the Magnetoelectric Coupling at the Composite Interfaces of FE/FM/FE Heterostructures. Scientific Reports, 2018, 8, 17381.	3.3	26
31	Effect of lead borosilicate glass addition on the crystallization, ferroelectric and dielectric energy storage properties of Ba0.9995La0.0005TiO3 ceramics. Journal of Alloys and Compounds, 2016, 688, 721-728.	5.5	21
32	Dielectric breakdown of BaOâ€“B2O3â€“ZnOâ€“[(BaZr0.2Ti0.80)O3]0.85 [(Ba0.70Ca0.30)TiO3]0.15 glass-ceramic composites. Journal of Non-Crystalline Solids, 2012, 358, 3510-3516.	3.1	20
33	A quaternary lead based perovskite structured materials with diffuse phase transition behavior. Materials Research Bulletin, 2011, 46, 2527-2530.	5.2	18
34	Chemical composition-tailored Li Ti0.1Ni1â^'O ceramics with enhanced dielectric properties. Materials Chemistry and Physics, 2016, 184, 82-90.	4.0	18
35	Instantaneous photoinitiated synthesis and rapid pulsed photothermal treatment of three-dimensional nanostructured TiO₂ thin films through pulsed light irradiation. Journal of Materials Research, 2017, 32, 1701-1709.	2.6	18
36	Room temperature multiferroicity and magnetodielectric coupling in 0â€“3 composite thin films. Journal of Applied Physics, 2020, 127, .	2.5	16

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37	Structure and dielectric properties of BaOâ€“B2O3â€“ZnOâ€“[(BaZr0.2Ti0.80)O3]0.85Ââ^'Â[(Ba0.70Ca0.30)TiO3]0.15 glassâ€“ceramics for energy storage. Journal of Materials Science: Materials in Electronics, 2012, 23, 2005-2009.	2.2	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.	2.5	13
39	Low temperature sintered giant dielectric permittivity CaCu₃Ti₄O12 sol-gel synthesized nanoparticle capacitors. Journal of Advanced Dielectrics, 2017, 07, 1750017.	2.4	13
40	Surface modified BaTiO<SUB align="right">3-polystyrene nanocomposites for energy storage. International Journal of Nanotechnology, 2014, 11, 910.	0.2	11
41	Magnetoelectric coupling effect in transition metal modified polycrystalline BiFeO3 thin films. Journal of Magnetism and Magnetic Materials, 2014, 369, 9-13.	2.3	11
42	Temperature Dependent Magnetic, Dielectric Studies of Sm-Substituted Bulk BiFeO3. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1109-1114.	1.8	10
43	PVDFâ€“BaSrTiO3nanocomposites for flexible electrical energy storage devices. Emerging Materials Research, 2014, 3, 265-270.	0.7	10
44	Ferroelectric and Piezoelectric Studies on Moâ€”Substituted SrBi₂Ta₂O₉ Ferroelectric Ceramics. Integrated Ferroelectrics, 2011, 124, 1-9.	0.7	9
45	Impedance and Raman Spectroscopic Studies on La-modified BLSF Ceramics. Ferroelectrics, 2015, 474, 29-42.	0.6	9
46	Controlled and enhanced dielectric properties of high-titanium containing Li Ti0.1Ni1â¿¿O via chemical composition-tailoring. Chemical Physics Letters, 2016, 649, 115-118.	2.6	9
47	Exploring phase transitions and magnetoelectric coupling of epitaxial asymmetric multilayer heterostructures. Journal of Materials Chemistry C, 2020, 8, 12113-12122.	5.5	8
48	Review on energy storage in leadâ€free ferroelectric films. Energy Storage, 2023, 5, .	4.3	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.	2.2	7
50	Low-Temperature Magnetic and Magnetocaloric Properties of Manganese-Substituted Gd0.5Er0.5CrO3 Orthochromites. Crystals, 2022, 12, 263.	2.2	7
51	Room temperature structural, morphological, and enhanced ferroelectromagnetic properties of xBa0.7Ca0.3TiO3â^'(1â^'x)BaFe0.2Ti0.8O3 multiferroic composites. Journal of Applied Physics, 2012, 111, 102802.	2.5	6
52	Electric field induced weak ferroelectricity in Ba_{0.70}Sr_{0.30}TiO₃, ceramics capacitors. Ferroelectrics, 2017, 516, 133-139.	0.6	6
53	Recent Progress in Synthesis Methods of Shape-Memory Polymer Nanocomposites. , 2022, , 173-212.		6
54	Magnetoelectric and Multiferroic Properties of BaTiO3/NiFe2O4/BaTiO3 Heterostructured Thin Films Grown by Pulsed Laser Deposition Technique. Crystals, 2021, 11, 1192.	2.2	5

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55	Nanoscale Ferroelectric Switchable Polarization and Leakage Current Behavior in (Ba0.50Sr0.50)(Ti0.80Sn0.20)O3Thin Films Prepared Using Chemical Solution Deposition. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	4
56	Dielectric and Magnetic Properties of Pb(Fe0.5Nb0.5)O3 - Ni0.65Zn0.35Fe2O4 Composites. ECS Transactions, 2013, 50, 59-65.	0.5	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)LaxTiO3 perovskite nanoparticles fabricated by solvothermal synthesis route. AIP Conference Proceedings, 2017, , .	0.4	2
59	Enhanced energy storage properties of epitaxial (Ba_{0.}<scp>₉₅₅Ca₀</scp>_{.045})(Zr_{0.}<scp>₁</scp>₇Ti<sub>0 ferroelectric thin films. Energy Storage, 2022, 4, .	4.3	12
60	Structural and magnetic studies on praseodymium and transition-metal co-substituted BiFeO3 ceramics. Multiferroic Materials, 2015, 1, .	0.0	0
61	Thin-film growth and structural characterization of a novel layered iridate Ba₇Ir₃O_{13+Î´}. Semiconductor Science and Technology, 2019, 34, 025002.	2.0	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