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**Strong nonlinear current-voltage behaviour in perovskite-derivative calcium copper titanate**

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#	Paper	IF	Citations
749	First-principles study of the electronic and magnetic structures of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <b>2005</b> , 344, 238-246		24
748	Real space imaging of the microscopic origins of the ultrahigh dielectric constant in polycrystalline CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Applied Physics Letters</i> , <b>2005</b> , 86, 102902	3.4	63
747	Lattice distortion and polarization switching in calcium copper titanate. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 052901	3.4	64
746	The effect of SiO <sub>2</sub> barrier layer on the dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> films. <b>2005</b> , 38, 4236-4240		18
745	Dielectric properties and Maxwell-Wagner relaxation of compounds ACu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> (A=Ca, Bi <sub>2</sub> B, Y <sub>2</sub> B, La <sub>2</sub> B). <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 093703	2.5	241
744	Dielectric and magnetic properties of Fe- and Nb-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <b>2005</b> , 72,		149
743	Recent advances in characterization of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films by spectroscopic ellipsometric metrology. <b>2005</b> , 127, 13772-3		25
742	Evidence of the Internal Domains for Inducing the Anomalously High Dielectric Constant of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <b>2005</b> , 17, 5167-5171		239
741	Characterization of grain boundary impedances in fine- and coarse-grained CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2006</b> , 73,		382
740	High-pressure x-ray diffraction study of the giant dielectric constant material CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> : Evidence of stiff grain surface. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 191903	3.4	10
739	Site-selectivity of 3d metal cation dopants and dielectric response in calcium copper titanate. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 091917	3.4	44
738	Influence of Processing Conditions on the Electrical Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 3129-3135	3.8	226
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735	Surface-layer effect in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Applied Physics Letters</i> , <b>2006</b> , 88, 042906	3.4	119
734	Calcium copper-titanate thin film growth: tailoring of the operational conditions through nanocharacterization and substrate nature effects. <b>2006</b> , 110, 17460-7		30
733	Behavior modeling of a CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic for capacitor applications. <b>2006</b> ,		5

732	High dielectric and nonlinear electrical behaviors in TiO <sub>2</sub> -rich CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 172902	3.4	97
731	Microsphere templating as means of enhancing surface activity and gas sensitivity of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films. <b>2006</b> , 6, 193-8		136
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729	Decrease of dielectric loss in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by La doping. <b>2006</b> , 203, R22-R24		90
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726	Reduced dielectric loss and leakage current in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /SiO <sub>2</sub> /CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> multilayered films. <i>Solid State Communications</i> , <b>2006</b> , 137, 381-386	1.6	42
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723	Gas sensors: New materials and processing approaches. <b>2006</b> , 17, 1005-1012		49
722	Maxwell-Wagner relaxation in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /Ag composites. <b>2006</b> , 54, 1501-1504		26
721	Characterization of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> varistor-capacitor ceramics by impedance spectroscopy. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 124113	2.5	18
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719	Initial cation stoichiometry and current-voltage behavior in Sc-doped calcium copper titanate. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 191907	3.4	23
718	Oxygen-vacancy-related dielectric anomaly in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> : Post-sintering annealing studies. <b>2006</b> , 74,		72
717	Non-Ohmic and dielectric properties of a Ca <sub>2</sub> Cu <sub>2</sub> Ti <sub>4</sub> O <sub>12</sub> polycrystalline system. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 212102	3.4	87
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715	Dielectric spectroscopy analysis of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> polycrystalline systems. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 191117	3.4	56

714	Influence of the crystal microstructure on the dielectric response of the La <sub>0.67</sub> Li <sub>0.2</sub> Ti <sub>0.8</sub> Al <sub>0.2</sub> O <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 054101	2.5	13
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707	Dielectric response of Sr doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 112901	3.4	35
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512	Absence of polar order in LuFe <sub>2</sub> O <sub>4</sub> . <b>2012</b> , 85, 1		46
511	Giant Dielectric Constant Materials and Their Applications. <b>2012</b> , 123-146		1
510	The origin of giant dielectric relaxation and electrical responses of grains and grain boundaries of W-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 114115	2.5	65
509	Giant dielectric and electrical properties of sodium yttrium copper titanate: Na <sub>1/2</sub> Y <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , <b>2012</b> , 23, 1229-1234	2.1	28
508	Electrical properties of rutile-type FeTiMO <sub>6</sub> (M = Ta,Nb). <b>2012</b> , 29, 240-249		12
507	Dielectric and nonlinear electrical behaviors of Ce-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2012</b> , 29, 250-253		14
506	Microstructure and electrical properties of sol-gel derived Ni-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2012</b> , 22, s127-s132	3.3	24
505	Multi-functional properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 054512	2.5	24
504	Effect of tantalum substitutions on microstructures and dielectric properties of calcium copper titanate (CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ) ceramic. <b>2012</b> , 177, 1213-1218		20
503	Influence of zinc on electrical and microstructural properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics prepared by sol-gel process. <b>2012</b> , 522, 157-161		56
502	Very Low Loss Tangent and High Dielectric Permittivity in Pure-CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics Prepared by a Modified Sol-Gel Process. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 1497-1500	3.8	90
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500	Effect of (Ba <sub>0.6</sub> Sr <sub>0.4</sub> )TiO <sub>3</sub> (BST) Doping on Dielectric Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> (CCTO). <b>2012</b> , 28, 1137-1144		31
499	Dielectric and Electrical Transport Properties of the Fe <sup>3+</sup> -doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <b>2012</b> , 28, 1145-1150		27

498	Progress in Dielectric Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Thin Films. <b>2012</b> , 27, 583-591		1
497	Modified giant dielectric properties of samarium doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 2257-2263	5.1	49
496	Abnormal dielectric behaviors in Mn-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics and their response mechanism. <b>2012</b> , 177, 1773-1776		19
495	Characterization of individual grain boundaries and grains of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic. <b>2012</b> , 55, 879-882		4
494	Effect of Mn doping on the temperature-dependent anomalous giant dielectric behavior of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <b>2012</b> , 85,		50
493	Fractional power-law spectral response of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> dielectric: Many-body effects. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 062908	3.4	6
492	Dielectric Properties of Sol-Gel Prepared Ni-Doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. <b>2012</b> , 204-208, 4193-4196		
491	Open-loop band excitation Kelvin probe force microscopy. <b>2012</b> , 23, 125704		28
490	Extrinsic and intrinsic nonlinear current-voltage characteristics in charge ordered oxides. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 033703	2.5	6
489	Giant dielectric and low voltage varistor behaviors of Ba-doped Bi <sub>1/2</sub> Na <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2012</b> , 23, 1587-1591	2.1	17
488	Grain size effect on the giant dielectric and nonlinear electrical behaviors of Bi <sub>1/2</sub> Na <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2012</b> , 107, 379-383		7
487	Electrical responses and dielectric relaxations in giant permittivity NaCu <sub>3</sub> Ti <sub>3</sub> TaO <sub>12</sub> ceramics. <b>2012</b> , 108, 385-392		15
486	Voltage-Current Nonlinearity of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 476-479	3.8	42
485	Dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> improved by chromium/lanthanum co-doping. <i>Ceramics International</i> , <b>2012</b> , 38, 4217-4220	5.1	32
484	CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films on conductive oxide electrode: A comparative study between chemical and physical vapor deposition routes. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 133, 1108-1115	4.4	3
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482	Dielectric properties and electrical response of grain boundary of Na <sub>1/2</sub> La <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 432-437	5.1	47
481	Synthesis, dielectric and nonlinear electrical properties of Na <sub>1/2</sub> Bi <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by a sol-gel technique. <b>2012</b> , 75, 87-90		30



480	High permittivity, low dielectric loss, and high electrostatic potential barrier in Ca <sub>2</sub> Cu <sub>2</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2012</b> , 76, 40-42		25
479	The non-ohmic and dielectric behavior evolution of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> after heat treatments in oxygen-rich atmosphere. <b>2012</b> , 177, 168-172		24
478	Impedance and electric modulus approaches to investigate four origins of giant dielectric constant in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2012</b> , 14, 330-334		21
477	CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin film capacitors: Evidence of the presence of a Schottky type barrier at the bottom electrode. <b>2012</b> , 520, 2632-2638		18
476	Influence of Lu <sub>2</sub> O <sub>3</sub> on electrical and microstructural properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Physica B: Condensed Matter</i> , <b>2012</b> , 407, 2385-2389	2.8	24
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470	Control of Heteroepitaxial Growth of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Films on SrTiO <sub>3</sub> Substrates by MOCVD. <b>2012</b> , 18, 76-82		5
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468	Current-voltage nonlinear and dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics prepared by a simple thermal decomposition method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2012</b> , 23, 795-801	2.1	41
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461	Non-Ohmic and dielectric properties of Ba-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 875-883	2.1	18
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458	Enhancement of giant dielectric response in Ga-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2013</b> , 39, 1057-1064	5.1	56
457	Structural and impedance spectroscopy properties of Pr <sub>0.6</sub> Sr <sub>0.4</sub> Mn <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> perovskites. <b>2013</b> , 574, 290-298		44
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455	Extreme effects of Na doping on microstructure, giant dielectric response and dielectric relaxation behavior in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2013</b> , 106, 129-132		14
454	Transformation from insulating p-type to semiconducting n-type conduction in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> -related Na(Cu <sub>5/2</sub> Ti <sub>1/2</sub> )Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 034106	2.5	12
453	Low-temperature synthesis of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> powders, ceramics and thin films via an organic solution. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 4549-4553	2.1	2
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451	Applications of CCTO supercapacitor in energy storage and electronics. <b>2013</b> , 3, 062126		60
450	Sintering effects on dielectric properties of Zn-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic synthesized by modified sol-gel route. <b>2013</b> , 9, 107-113		21
449	Novel single-crystal's voltage-dependent effect and magnetic order of Ln <sub>2</sub> ZrQ <sub>5</sub> (Ln = La, Sm, Gd; Q = S, Se) semiconductors. <b>2013</b> , 42, 2679-82		17
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446	High Schottky barrier at grain boundaries observed in Na <sub>1/2</sub> Sm <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 4087-4092	5.1	20
445	Impedance performances of SnO <sub>2</sub> /n <sub>2</sub> SnO <sub>4</sub> composite ceramics. <b>2013</b> , 580, 611-613		16

444	Polaron relaxation and non-ohmic behavior in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics with different cooling methods. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 139, 844-850	4.4	58
443	Non-Ohmic conduction in In <sub>2</sub> O <sub>3</sub> Bi <sub>2</sub> O <sub>3</sub> ceramics. <i>Physica B: Condensed Matter</i> , <b>2013</b> , 428, 65-72	2.8	2
442	Dielectric, modulus and impedance spectroscopic studies of nanostructured CaCu <sub>2.70</sub> Mg <sub>0.30</sub> Ti <sub>4</sub> O <sub>12</sub> electro-ceramic synthesized by modified sol-gel route. <b>2013</b> , 555, 176-183		41
441	CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films with non-linear resistivity deposited by RF-sputtering. <b>2013</b> , 574, 604-608		19
440	Preparation, microstructure, and improved dielectric and nonlinear electrical properties of Na <sub>1/2</sub> La <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by sol-gel method. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 4877-4883	5.1	20
439	Microstructure and dielectric property of hot-pressed high density CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2013</b> , 559, 16-19		27
438	Electric field modulation of the tetragonal domain orientation revealed in the magnetic ground state of quantum paraelectric EuTiO <sub>3</sub> . <b>2013</b> , 87,		38
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436	Correlation Between Photoluminescence and Structural Defects in Ca <sub>1+x</sub> Cu <sub>3-x</sub> Ti <sub>4</sub> O <sub>12</sub> Systems. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 209-217	3.8	26
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434	Modulus spectroscopy of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics: clues to the internal barrier layer capacitance mechanism. <b>2013</b> , 3, 7030		65
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432	Giant dielectric behavior observed in Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> ceramic. <b>2013</b> , 9, 347-351		5
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429	Giant dielectric constant in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> nanoceramics. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 232908	3.4	36
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421	Origin of giant permittivity and high-temperature dielectric anomaly behavior in Na <sub>0.5</sub> Y <sub>0.5</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 224102	2.5	48
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418	Effects of Ga Substitution for Cu on Microstructure and Giant Dielectric Response of CaGa <sub>x</sub> Cu <sub>3-x</sub> Ti <sub>4</sub> O <sub>12</sub> (x = 0, 0.01, and 0.05) Ceramics. <b>2013</b> , 452, 91-100		
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410	Microstructure and dielectric properties of (Nb + In) co-doped rutile TiO <sub>2</sub> ceramics. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 074105	2.5	117
409	A Novel Route to Greatly Enhanced Dielectric Permittivity with Reduce Loss Tangent in CaCu <sub>3-x</sub> Zn <sub>x</sub> Ti <sub>4</sub> O <sub>12</sub> /CaTiO <sub>3</sub> Composites. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2368-2371	3.8	16

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406	Origin of giant dielectric constant and magnetodielectric study in Ba(Fe <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> nanoceramics. <b>2014</b> , 591, 224-229		36
405	Effect of AETiO <sub>3</sub> (AE=Mg, Ca, Sr) doping on dielectric and varistor characteristics of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic prepared by the sol-gel process. <b>2014</b> , 592, 220-225		25
404	Liquid phase sintering behavior and improvement of giant dielectric properties by modifying microstructure and electrical response at grain boundaries of CaCu <sub>3</sub> Ti <sub>4</sub> M <sub>x</sub> O <sub>12</sub> ceramics. <b>2014</b> , 582, 747-753		35
403	Mechanochemical synthesis and giant dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <b>2014</b> , 116, 1299-1306		12
402	CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics from different methods: microstructure and dielectric. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 146-151	2.1	22
401	Dielectric response of Sb-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 1547-1552	2.1	30
400	Microstructure and dielectric properties of Ca <sub>1-2x</sub> Bi <sub>x</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> (x = 0, 0.05, 0.10, 0.15 and 0.20) ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 817-823	2.1	2
399	Effect of the synthesis route on the phase formation behavior and electric property of Na <sub>0.5</sub> Bi <sub>0.5</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Materials Research Bulletin</i> , <b>2014</b> , 52, 42-49	5.1	17
398	New negative temperature coefficient thermistor ceramics in Mn-doped CaCu <sub>3</sub> M <sub>x</sub> Ti <sub>4</sub> O <sub>12</sub> (M=Bi) system. <i>Ceramics International</i> , <b>2014</b> , 40, 11221-11227	5.1	27
397	Perovskite Oxides as Resistive Switching Memories: A Review. <b>2014</b> , 471, 23-64		69
396	. <b>2014</b> ,		1
395	Varistor and Magnetic Properties of Nickel Copper Zinc Niobium Ferrite Doped with Bi <sub>2</sub> O <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 3918-3925	3.8	7
394	High Permittivity and Varistor Properties of SnO <sub>2</sub> -Zn <sub>2</sub> SnO <sub>4</sub> Composite Ceramics. <b>2014</b> , 670-671, 121-126		
393	Varistor and dielectric properties of Cr <sub>2</sub> O <sub>3</sub> doped SnO <sub>2</sub> -Zn <sub>2</sub> SnO <sub>4</sub> composite ceramics. <b>2014</b> , 14, 1682-1686		11
392	Microstructural evolution and Maxwell-Wagner relaxation in Ca <sub>2</sub> Cu <sub>2</sub> Ti <sub>4</sub> Zr <sub>x</sub> O <sub>12</sub> : The important clue to achieve the origin of the giant dielectric behavior. <i>Materials Research Bulletin</i> , <b>2014</b> , 60, 695-703	5.1	19
391	Grain size independence of giant dielectric permittivity of CaCu <sub>3</sub> Ti <sub>4</sub> Sc <sub>x</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2014</b> , 40, 15897-15906	5.1	37

390	Electrical properties and Mössbauer spectra of rutile-type Fe <sub>1-x</sub> Mn <sub>x</sub> TiTaO <sub>6</sub> (0 ≤ x ≤ 0.3) ceramics. <b>2014</b> , 32, 205-214		2
389	Electrical properties of rutile-type In(Al) 0.025Nb 0.025Ti 0.95O <sub>2</sub> ceramics. <b>2014</b> , 33, 163-171		3
388	Nonlinear current-voltage behavior of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films derived from sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 2710-2715	2.1	12
387	Leading role of grain boundaries in colossal permittivity of doped and undoped CCTO. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 3649-3654	6	70
386	Full range dielectric characteristics of calcium copper titanate thin films prepared by continuous composition-spread sputtering. <b>2014</b> , 16, 478-84		12
385	Effects of praseodymium substitution on electrical properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2014</b> , 40, 181-189	5.1	13
384	Effect of NiO-doping on the microstructure and the dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2014</b> , 40, 9061-9067	5.1	49
383	A novel strategy to enhance dielectric performance and non-Ohmic properties in Ca <sub>2</sub> Cu <sub>2-x</sub> Mg <sub>x</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 2941-2950	6	45
382	Progress in the growth of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> and related functional dielectric perovskites. <b>2014</b> , 60, 15-62		84
381	Effect of defect on the nonlinear and dielectric property of Ca <sub>1-x</sub> Sr <sub>x</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics synthesized by sol-gel process. <b>2014</b> , 599, 145-149		24
380	Dielectric properties of grain-grainboundary binary system. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 449, 160-163	2.8	5
379	Effect of structure on nonlinear optical properties in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> films. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 233103	2.5	11
378	Huge low-frequency dielectric response of (Nb,In)-doped TiO <sub>2</sub> ceramics. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 242904	3.4	80
377	Restoration hysteresis effect of nonlinear current-voltage behavior and negative resistance characteristics of sol-gel derived CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films. <b>2015</b> , 652, 70-73		9
376	Microstructure and electric characteristics of AETiO <sub>3</sub> (AE=Mg, Ca, Sr) doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films prepared by the sol-gel method. <b>2015</b> , 25, 399-404		8
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374	Investigations on Structural, Mechanical, and Dielectric Properties of PVDF/Ceramic Composites. <b>2015</b> , 2015, 1-9		9
373	Giant dielectric response and low dielectric loss in Al <sub>2</sub> O <sub>3</sub> grafted CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 094103	2.5	19

372	Structural and dielectric properties of A- and B-sites doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2015</b> , 41, 10250-10255	5.1	26
371	Effects of Cu stoichiometry on the microstructure, electrical conduction, and dielectric responses of Y <sub>2/3</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Ceramics International</i> , <b>2015</b> , 41, 11314-11322	5.1	9
370	Electrical properties and Mössbauer spectra of rutile-type Fe <sub>x/2</sub> Ta(Nb) <sub>x/2</sub> Ti <sub>1-x</sub> O <sub>2</sub> (x = 0.05, 0.1) ceramics. <b>2015</b> , 34, 158-166		1
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368	Electronic relaxation of deep bulk trap in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics: Post-annealing studies. <b>2015</b> ,		
367	Electrical properties of palladium-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2015</b> , 120, 1011-1021		3
366	Giant dielectric properties of fine-grained Na <sub>1/2</sub> Y <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics prepared by mechanosynthesis and spark plasma sintering. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 8939-8948	2.1	14
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362	Strain induced magnetic transitions and spin reorientations in quantum paraelectric EuTiO <sub>3</sub> material. <b>2015</b> , 382, 193-201		4
361	Growth of Nanocrystalline CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramic by the Microwave Flash Combustion Method: Structural and Impedance Spectroscopic Studies. <b>2015</b> , 15, 1374-1379		13
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356	A versatile salicylic acid precursor method for preparing titanate microspheres. <b>2015</b> , 58, 106-113		5
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352	Effects of rare earth ionic doping on microstructures and electrical properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Materials Research Bulletin</i> , <b>2015</b> , 66, 254-261	5.1	21
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345	Synthesis and dielectric anomalies of CdCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2015</b> , 41, 8501-8510	9.1	28
344	Effects of Bi <sup>3+</sup> doping on microstructure and dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /CaTiO <sub>3</sub> composite ceramics. <i>Ceramics International</i> , <b>2015</b> , 41, S498-S503	5.1	12
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332	Influence of thermal treatment on the nonlinear current-voltage behavior and restoration hysteresis effect of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 10816-10821	2.1	2
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330	Colossal permittivity and impedance analysis of niobium and aluminum co-doped TiO <sub>2</sub> ceramics. <b>2016</b> , 6, 48708-48714		92
329	Effect of SiO <sub>2</sub> on the Varistor and Dielectric Properties of SnO <sub>2</sub> -Zn <sub>2</sub> SnO <sub>4</sub> Ceramic Composites. <b>2016</b> , 75, 225-228		2
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326	Enhanced dielectric and non-ohmic properties in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /CaTiO <sub>3</sub> nanocomposites prepared by a chemical combustion method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 12085-12090	2.1	13
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320	Electric field-assisted flash sintering of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> : Microstructure characteristics and dielectric properties. <b>2016</b> , 682, 753-758		22
319	Grain boundary defect compensation in Ti-doped BaFe <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> ceramics. <b>2016</b> , 122, 1		35

318	Chemical composition-tailored $\text{Li}_x\text{Ti}_{0.1}\text{Ni}_{1-x}\text{O}$ ceramics with enhanced dielectric properties. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 184, 82-90	4.4	15
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313	Effects of $\text{Mg}^{2+}$ doping ions on giant dielectric properties and electrical responses of $\text{Na}_{1/2}\text{Y}_{1/2}\text{Cu}_3\text{Ti}_4\text{O}_{12}$ ceramics. <i>Ceramics International</i> , <b>2016</b> , 42, 16287-16295	5.1	24
312	Central role of $\text{TiO}_2$ anatase grain boundaries on resistivity of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ -based materials probed by Raman spectroscopy. <b>2016</b> , 61, 102-105		15
311	Nanostructured $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ for environmental remediation through visible light active catalysis. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 10393-10398	2.1	14
310	Nonlinear current-voltage behavior in La-doped $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ thin films derived from sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 9483-9488	2.1	2
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308	Influence of different dopant sites by lanthanum on the dielectric properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 11241-11247	2.1	5
307	Subsurface Space-Charge Dopant Segregation to Compensate Surface Excess Charge in a Perovskite Oxide. <b>2016</b> , 128, 9832-9836		1
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298	Three-dimensional quantification of composition and electrostatic potential at individual grain boundaries in doped ceria. <b>2016</b> , 4, 5167-5175		36
297	Effect of Hf doping on the structural, dielectric and optical properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 5878-5885	2.1	9
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295	Towards enhanced varistor property and lower dielectric loss of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> based ceramics. <b>2016</b> , 92, 546-551		49
294	Effect of sintering temperature on the dielectric and varistor properties of SnO <sub>2</sub> /n <sub>2</sub> SnO <sub>4</sub> composite ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 2242-2247	2.1	7
293	SiO <sub>2</sub> /Ti <sub>0.98</sub> In <sub>0.01</sub> Nb <sub>0.01</sub> O <sub>2</sub> composite ceramics with low dielectric loss, high dielectric permittivity and an enhanced breakdown electric field. <b>2016</b> , 6, 20074-20080		26
292	Gas sensing and conductivity relationship on nanoporous thin films: A CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> case study. <b>2016</b> , 604, 69-73		12
291	Microstructure and enhanced dielectric response in Mg doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2016</b> , 663, 345-350		52
290	Defect and electrical conduction in Mn-doped CaCu <sub>3</sub> -Mn Ti <sub>4</sub> O <sub>12</sub> negative temperature coefficient ceramics. <b>2016</b> , 663, 474-479		17
289	Structure and electric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics prepared by rapid sintering. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 1345-1349	2.1	12
288	A comparative study on dielectric, structure, and thermal behavior of micro- and nano-sized CCTO in nylon 6,9 matrix. <b>2017</b> , 38, 927-935		7
287	Large and switchable dielectric tunability in Na <sub>1/2</sub> Bi <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2017</b> , 695, 1561-1565		9
286	Study of the dielectric responses of Eu-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <b>2017</b> , 699, 278-282		26
285	Electrical and dielectric behaviour of Na <sub>0.5</sub> La <sub>0.25</sub> Sm <sub>0.25</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics investigated by impedance and modulus spectroscopy. <i>Journal of Asian Ceramic Societies</i> , <b>2017</b> , 5, 56-61	2.4	21
284	Contrasting conduction mechanisms of two internal barrier layer capacitors: (Mn, Nb)-doped SrTiO <sub>3</sub> and CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 064107	2.5	11
283	Preferential orientation and relaxation behaviors of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films in a low frequency range. <b>2017</b> , 704, 676-682		7

282	Large reduction of dielectric losses of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics via air quenching. <i>Ceramics International</i> , <b>2017</b> , 43, 6618-6621	5.1	35
281	Enhanced non-linear current-voltage response of Te-doped calcium copper titanate ceramics. <i>Ceramics International</i> , <b>2017</b> , 43, 6363-6370	5.1	10
280	Quantitative AC - Kelvin Probe Force Microscopy. <b>2017</b> , 176, 28-32		8
279	Microstructural evolution, non-Ohmic properties, and giant dielectric response in CaCu <sub>3</sub> Ti <sub>4</sub> GexO <sub>12</sub> ceramics. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 3478-3487	3.8	16
278	Optical and gas-sensing properties, and electronic structure of the mixed-phase CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /CaTiO <sub>3</sub> composites. <i>Materials Research Bulletin</i> , <b>2017</b> , 93, 47-55	5.1	20
277	Low temperature preparation of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics with high permittivity and low dielectric loss. <i>Ceramics International</i> , <b>2017</b> , 43, 9178-9183	5.1	30
276	Enhanced dielectric properties of Ag-doped CCTO ceramics for energy storage devices. <i>Ceramics International</i> , <b>2017</b> , 43, 9493-9497	5.1	23
275	Enhanced dielectric properties of PVDF/CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> :Ag composite films. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 196, 302-309	4.4	15
274	Comparative studies of pure, Sr-doped, Ni-doped and co-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics: Enhancement of dielectric properties. <b>2017</b> , 717, 121-126		44
273	Improved dielectric properties in A <sup>2</sup> -site nickel-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 4021-4032	3.8	28
272	Preparation, characterization, and giant dielectric permittivity of (Y <sup>3+</sup> and Nb <sup>5+</sup> ) co-doped TiO <sub>2</sub> ceramics. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 3521-3526	6	55
271	Dielectric Properties of Eu-Doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> with Different Compensation Mechanisms. <b>2017</b> , 30, 97-103		9
270	Improved dielectric properties and grain boundary response of SrTiO <sub>3</sub> doped Y <sub>2/3</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics fabricated by Sol-gel process for high-energy-density storage applications. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 4637-4644	6	15
269	Very low loss tangent and giant dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics prepared by the sol-gel process. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 15033-15042	2.1	25
268	Structure and dielectric relaxations of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by heat treatments in different atmospheres. <b>2017</b> , 24, 764-773		10
267	Structural, electrical, optical and magneto-electric characteristics of chemically synthesized CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> dielectric ceramics. <b>2017</b> , 4, 076302		17
266	Microstructure, dielectric and nonlinear electrical properties associated with sintering conditions in calcium copper titanate ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 11091-11097	1.1	3
265	Abnormal capacitance-voltage behaviors of bismuth-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2017</b> , 31, 1750133		6

264	Improved giant dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> via simultaneously tuning the electrical properties of grains and grain boundaries by F <sup>2+</sup> substitution. <b>2017</b> , 7, 4092-4101			38
263	MOCVD Approach to the Growth of Calcium Copper Titanate (CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ) Thin Films: The Role of the Substrate Nature on Film Structural and Dielectrical Properties. <b>2017</b> , 4, 1600975			2
262	Effect of semiconductive grain and microstructure on the dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics with Sr <sup>2+</sup> doping. <b>2017</b> , 708, 1026-1032			34
261	Effect of nickel substitution on electrical and microstructural properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic. <b>2017</b> , 698, 152-158			25
260	Effects of Ti/Nb stoichiometry on the microstructure and dielectric responses of NaCu <sub>3</sub> Ti <sub>3</sub> Nb <sub>1+x</sub> O <sub>12</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 5323-5328 <sup>2,1</sup>			
259	Investigations of BaFe <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> nano powders prepared by a low temperature aqueous synthesis and resulting ceramics. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 1509-1516	6		11
258	Effects of DC bias on dielectric and electrical responses in (Y + Zn) co-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> perovskite oxides. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 4695-4701	2.1		8
257	Effect of chemical pressure on the electronic phase transition in Ca <sub>1-x</sub> Sr <sub>x</sub> Mn <sub>7</sub> O <sub>12</sub> films. <b>2017</b> , 5, 096105			7
256	Experimental and theoretical investigation of the high dielectric permittivity of tantalum doped titania. <b>2017</b> , 41, 13067-13075			5
255	Investigation of bandgap modulation, field emission and dielectric properties of cadmium doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <b>2017</b> ,			2
254	Nonlinear electrical characteristics of core-satellite CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> @ZnO doped silicone rubber composites. <b>2017</b> , 7, 31654-31662			4
253	Investigation of micro- and nanoscale barrier layer capacitance mechanisms of conductivity in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> via scanning probe microscopy technique. <b>2017</b> , 7, 40695-40704			15
252	Very low loss tangent, high dielectric and non-ohmic properties of Ca <sub>1-x</sub> Pr <sub>x</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics prepared by the sol-gel process. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 18966-18976 <sup>2,1</sup>			14
251	Study of the structural, impedance spectroscopy and dielectric properties of Na and Si co-doped NiO ceramics. <b>2017</b> , 50, 435304			6
250	Preparation, characterization, and dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> -related (Na <sub>1/3</sub> Ca <sub>1/3</sub> Y <sub>1/3</sub> )Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics using a simple sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 14839-14847	2.1		5
249	Donor-acceptor bifunctionality of dysprosium in perovskite calcium copper titanate polycrystals. <b>2017</b> , 17, 1208-1214			
248	Non-ohmic properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films deposited By RF-sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 15685-15693	2.1		3
247	Space charge polarization modulated instability of low frequency permittivity in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 042902	3.4		32

246	Probing dopant segregation in distinct cation sites at perovskite oxide polycrystal interfaces. <b>2017</b> , 8, 1417		29
245	Embedded nonlinear passive components on flexible substrates for microelectronics applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 11550-11556	2.1	2
244	Co-doping effects of A-site Y <sup>3+</sup> and B-site Al <sup>3+</sup> on the microstructures and dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 4653-4659	6	50
243	Enhanced non-Ohmic properties and giant dielectric response of (Sm+Zn) co-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2017</b> , 43, 12736-12741	5.1	27
242	Colossal dielectric permittivity in hydrogen-reduced rutile TiO <sub>2</sub> crystals. <b>2017</b> , 692, 375-380		38
241	Significantly improved non-Ohmic and giant dielectric properties of CaCu <sub>3</sub> -Zn Ti <sub>4</sub> O <sub>12</sub> ceramics by enhancing grain boundary response. <i>Ceramics International</i> , <b>2017</b> , 43, 2705-2711	5.1	59
240	Non-Ohmic Properties and Electrical Responses of Grains and Grain Boundaries of Na <sub>1/2</sub> Y <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 157-166	3.8	25
239	Enhanced UV Photodetector Response of ZnO/Si With AlN Buffer Layer. <b>2017</b> , 64, 4161-4166		17
238	High Breakdown Field CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics: Roles of the Secondary Phase and of Sr Doping. <b>2017</b> , 10, 1031		13
237	Synthesis of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> by modified Sol-gel method with Hydrothermal process. <b>2017</b> , 901, 012101		4
236	Effects of Co-Doping on Dielectric and Electrical Responses of CaCu <sub>3</sub> Ti <sub>4-x</sub> (Nb <sub>1/2</sub> In <sub>1/2</sub> ) <sub>x</sub> O <sub>12</sub> Ceramics. <b>2017</b> , 901, 012078		2
235	. <b>2017</b> ,		
234	Excellent dielectric performance and nonlinear electrical behaviors of Zr-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 5116-5123	2.1	12
233	Non-Ohmic properties of MgTiO <sub>3</sub> doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films deposited by magnetron sputtering method. <b>2018</b> , 743, 570-575		12
232	Nanoscale Transport Imaging of Active Lateral Devices: Static and Frequency Dependent Modes. <b>2018</b> , 251-329		3
231	Improved dielectric, nonlinear and magnetic properties of cobalt-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 3505-3511	6	36
230	Direct Correlations of Grain Boundary Potentials to Chemical States and Dielectric Properties of Doped CaCuTiO Thin Films. <b>2018</b> , 10, 16203-16209		9
229	Very high performance dielectric and non-Ohmics properties of CaCu <sub>3</sub> Ti <sub>4.2</sub> O <sub>12</sub> ceramics for X8R capacitors. <i>Ceramics International</i> , <b>2018</b> , 44, 13267-13277	5.1	27

228	Giant dielectric response in (Sr, Sb) codoped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics: A novel approach. <b>2018</b> ,		1
227	Nanoscale Mapping of the Surface Potential: Multifrequency Modulation Open-Loop Kelvin Probe Force Microscopy. <b>2018</b> , 17, 670-674		0
226	Manipulation of Nanoscale Intergranular Phases for High Proton Conduction and Decomposition Tolerance in BaCeO Polycrystals. <b>2018</b> , 18, 1110-1117		19
225	Abnormal magnetocapacitance of multiferroic perovskite oxide Pb(Fe <sup>1/2</sup> Nb <sup>1/2</sup> ) <sub>1</sub> -Ti O <sub>3</sub> (x=0.48) crystal. <b>2018</b> , 743, 597-602		1
224	Tuning the nonlinear current-voltage behavior of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by spark plasma sintering. <i>Ceramics International</i> , <b>2018</b> , 44, 8650-8655	5.1	26
223	Influence of Processing and Microstructure on Dielectric Properties of Calcium Copper Titanate Ceramics. <b>2018</b> , 237-243		
222	Synthesis, Characterization and Catalytic Activity of Quadruple Perovskite: CaCu <sub>3</sub> -xMnxTi <sub>4</sub> -xMnxO <sub>12</sub> (x=0, 0.5 and 1.0). <b>2018</b> , 3, 1076-1087		6
221	Ag-migration effects on the metastable phase in CaCuTiO capacitors. <b>2018</b> , 8, 1392		3
220	Surface-screening mechanisms in ferroelectric thin films and their effect on polarization dynamics and domain structures. <b>2018</b> , 81, 036502		93
219	Effects of dc bias on dielectric relaxations in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 4488-4494	2.1	22
218	Origin of giant permittivity in Ta, Al co-doped TiO <sub>2</sub> : Surface layer and internal barrier capacitance layer effects. <i>Ceramics International</i> , <b>2018</b> , 44, 5768-5773	5.1	22
217	Fine representation of dielectric properties by impedance spectroscopy. <b>2018</b> , 740, 36-41		13
216	Vanadium doping for lowering the preparation temperatures of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics and its effect on their microstructures and dielectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 9435-9441	2.1	6
215	Conductivity-permittivity relations in oxygen deficient CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Ceramics International</i> , <b>2018</b> , 44, 12007-12013	5.1	4
214	Application of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> based quadruple perovskites as a promising candidate for optoelectronic devices. <b>2018</b> , 699, 229-233		12
213	Effect of thermal history on structural, microstructural properties and J-E characteristics of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> polycrystalline ceramic. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 212, 343-350	4.4	19
212	Photoluminescence behavior on Sr <sup>2+</sup> modified CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> based ceramics. <i>Ceramics International</i> , <b>2018</b> , 44, 10781-10789	5.1	10
211	Interface characteristics of polymer-derived amorphous SiCN ceramics investigated by impedance spectroscopy under direct current bias. <i>Ceramics International</i> , <b>2018</b> , 44, 2074-2076	5.1	6

210	Dielectric properties of nanocomposite based on bismuth copper titanate. <b>2018</b> , 54, 139-147		4
209	Magnetic, optical, dielectric, and sintering properties of nano-crystalline BaFe <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> synthesized by a polymerization method. <b>2018</b> , 53, 1024-1034		2
208	New negative temperature coefficient ceramics in Ca <sub>1-x</sub> Y <sub>x</sub> Cu <sub>2.5</sub> Mn <sub>0.5</sub> Ti <sub>4</sub> O <sub>12</sub> system. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 2331-2334	2.1	6
207	Intriguing structural and magnetic properties correlation study on Fe-substituted calcium-copper-titanate. <b>2018</b> , 20, 1914-1922		24
206	Constructing three-dimensionally interwoven structures for ceramic/polymer composites to exhibit colossal dielectric constant and high mechanical strength: CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /epoxy as an example. <b>2018</b> , 105, 214-222		28
205	Significantly enhanced breakdown field in Ca <sub>1-x</sub> Sr <sub>x</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by tailoring donor densities. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 1569-1575	6	38
204	Dielectric and non-ohmic properties of Ca <sub>2</sub> Cu <sub>2</sub> Ti <sub>4-x</sub> Sn <sub>x</sub> O <sub>12</sub> (0.0 ≤ x ≤ 4.0) multiphase ceramic composites. <b>2018</b> , 735, 140-149		27
203	Structural, dielectric, impedance and conductivity studies of Ba(Fe <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> nanomaterial prepared by the mechanochemical method. <b>2018</b> , 537, 198-213		1
202	Effect of spark plasma sintering process on dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2018</b> ,		
201	The dielectric and mechanical properties of NaCu <sub>3</sub> Ti <sub>3</sub> NbO <sub>12</sub> based ceramics doped with a small amount of MgO and Al <sub>2</sub> O <sub>3</sub> nano-particles. <b>2018</b> , 5, 14939-14943		
200	A Rapid Estimation for Interplanetary Low-Thrust Trajectories Using Support Vector Regression. <b>2018</b> , 449, 012020		
199	Very high thermal stability with excellent dielectric, and non-ohmic properties of Mg-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 12639-12651	2.1	12
198	Effects of strontium/lanthanum co-doping on the dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> prepared by reactive sintering. <i>Ceramics International</i> , <b>2018</b> , 44, 15588-15595	5.1	18
197	Investigation on external stimuli engendered magnetic ordering in polycrystalline CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> quadruple perovskite. <i>Ceramics International</i> , <b>2018</b> , 44, 17667-17674	5.1	12
196	Improved non-ohmic and dielectric properties of Cr <sup>3+</sup> doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics prepared by a polymer pyrolysis solution route. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 4994-5001	6	13
195	Improvement of breakdown field and dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by Bi and Al co-doping. <b>2018</b> , 768, 652-658		29
194	Microstructure and dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by quenching after sintering in low vacuum and thermobaric treatment at 9 GPa. <i>Ceramics International</i> , <b>2018</b> , 44, 20069-20074	5.1	5
193	Significantly enhanced dielectric properties of Y <sup>3+</sup> donor-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by controlling electrical properties of grains and grain boundaries. <i>Ceramics International</i> , <b>2018</b> , 44, 18535-18540	5.1	16



192	Performance analysis of Fe-doped calcium copper titanate quadruple perovskite in optoelectronic device. <b>2018</b> , 709, 110-115		5
191	Enhancement of nonlinear electrical properties with high performance dielectric properties of CaCu <sub>2.95</sub> Cr <sub>0.05</sub> Ti <sub>4.1</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2018</b> , 44, S72-S75	5.1	11
190	A Ti L <sub>3,2</sub> - and K- edge XANES and EXAFS study on Fe <sup>3+</sup> - substituted CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Ceramics International</i> , <b>2018</b> , 44, 20716-20722	5.1	11
189	Influence of sintering atmosphere and thermobaric treatment (TBT) on dielectric behaviors of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2018</b> , 382, 2861-2867		4
188	Nonvolatile memories. <b>2018</b> , 275-282		1
187	Improved giant dielectric properties in microwave flash combustion derived and microwave sintered CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2019</b> , 42, 41-46		8
186	Breakdown Characteristics of Varistor Ceramics. <b>2019</b> ,		
185	Tunable dielectric properties of niobium (Nb) doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> nanocubes synthesized via facile molten salt route. <b>2019</b> , 1, 1		1
184	Study on nonlinear conductivity of copper-titanate-calcium/liquid silicone rubber composites. <b>2019</b> , 26, 681-688		1
183	Ultra-high voltage SnO <sub>2</sub> based varistors prepared at low temperature by two-step sintering. <b>2019</b> , 805, 794-801		11
182	From Synthesis to Applications: Copper Calcium Titanate (CCTO) and its Magnetic and Photocatalytic Properties. <b>2019</b> , 8, 922-950		11
181	Introductory Chapter: Electrical and Electronic Properties of Materials. <b>2019</b> ,		
180	Substantially enhanced varistor properties and dielectric response in (Zn <sup>2+</sup> , Sn <sup>4+</sup> ) co-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2019</b> , 45, 22596-22602	5.1	6
179	An engineering design based on nano/micro-sized composite for CaTiO <sub>3</sub> /CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> materials and its dielectric and non-Ohmic properties. <i>Ceramics International</i> , <b>2019</b> , 45, 21676-21683	5.1	12
178	Study of the dielectric properties of ACu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> (A = Eu <sup>2/3</sup> , Tb <sup>2/3</sup> , and Na <sup>1/2</sup> Eu <sup>1/2</sup> ). <b>2019</b> , 34, 345-351		1
177	Colossal dielectric behavior of Co-doped TiO <sub>2</sub> ceramics: A comparative study. <b>2019</b> , 786, 377-384		14
176	Giant dielectric response, electrical properties and nonlinear current-voltage characteristic of Al <sub>2</sub> O <sub>3</sub> -CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> nanocomposites. <b>2019</b> , 476, 623-631		11
175	Ultrafast synthesis and sintering of materials in a single running experiment approach by using electric fields. <b>2019</b> , 8, 265-277		18

174	First observation of reversible mechanochromism and chromaticity study on calcium copper titanate. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 6872-6881	3.8	8
173	A systematic investigation on morphology tailoring, defect tuning and visible-light photocatalytic functionality of Ti-based perovskite nanostructures. <b>2019</b> , 335, 591-598		8
172	A detailed study on the dielectric properties of CCTO@SiO <sub>2</sub> core-shell nanoparticles: Role of SiO <sub>2</sub> -NH <sub>2</sub> shell over CCTO core surface. <b>2019</b> , 277, 346-355		6
171	Rapid fabrication and improved electrical properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by sol-gel and spark plasma sintering techniques. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 13401-13411	2.1	11
170	New insights into understanding the defect structures and relationship of frequency dependences of dielectric permittivity and ac conductivity of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 215108	2.5	3
169	Study on nonlinear conductivity of copper-titanate-calcium/liquid silicone rubber composites. <b>2019</b> , 26, 681-688		4
168	The effects of sintered sample thickness on the dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics prepared at 1000±100 °C in air. <i>Ceramics International</i> , <b>2019</b> , 45, 14652-14662	5.1	1
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166	Enhanced electrical behavior in Ca <sub>1-xSrx</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2019</b> , 45, 14305-14311	5.1	9
165	Room temperature crystal structure and high temperature structural and magnetic phase transitions in Sr(Fe <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> ceramic. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 174102	2.5	3
164	Improved dielectric and nonlinear properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics with Cu-rich phase at grain boundary layers. <i>Ceramics International</i> , <b>2019</b> , 45, 15082-15090	5.1	31
163	. <b>2019</b> ,		21
162	Improved dielectric and non-ohmic properties of (Zn + Zr) codoped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films. <i>Ceramics International</i> , <b>2019</b> , 45, 11421-11427	5.1	42
161	Non-Ohmic behavior of copper-rich CCTO thin film prepared through magnetron sputtering method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 9266-9272	2.1	2
160	Improving Dielectric Properties and Thermostability of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /Polyimide Composites by Employing Surface Hydroxylated CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Particles. <b>2019</b> , 1, 1263-1271		6
159	Colossal Permittivity Materials as Superior Dielectrics for Diverse Applications. <b>2019</b> , 29, 1808118		67
158	Ni <sup>2+</sup> -doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /TiO <sub>2</sub> nanocomposite ceramics with high temperature stability dielectric and nonlinear electrical properties for X9R capacitors. <b>2019</b> , 484, 925-932		5
157	Enhanced electrical properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by spark plasma sintering: Role of Zn and Al co-doping. <b>2019</b> , 792, 1079-1087		23

156	Localized polarons and conductive charge carriers: Understanding CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> over a broad temperature range. <b>2019</b> , 99,		30
155	The novel effects of Cu-deficient on the dielectric properties and voltage-current nonlinearity in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2019</b> , 243, 1-7		12
154	Origin of the temperature stability of dielectric constant in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Ceramics International</i> , <b>2019</b> , 45, 12994-13003	5.1	19
153	Effect of niobium doping on the dielectric and nonlinear current-voltage characteristics of Na <sub>0.5</sub> La <sub>0.5</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2019</b> , 89, 299-307		1
152	Understanding the Impact of Bismuth Heterovalent Doping on the Structural and Photophysical Properties of CH <sub>3</sub> NH <sub>3</sub> PbBr Halide Perovskite Crystals with Near-IR Photoluminescence. <b>2019</b> , 25, 5480-5488		22
151	Introduction of Varistor Ceramics. <b>2019</b> , 1-30		
150	Titanium-Based Dual-function Varistor Ceramics. <b>2019</b> , 335-406		
149	Disorder-insensitivity of room-temperature giant permittivity in Ca <sub>4-3x</sub> Cu <sub>x</sub> Ti <sub>4</sub> O <sub>12</sub> (x = 3, 2 and 1) polycrystalline ceramics. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 224102	2.5	5
148	Properties of NaCu <sub>3</sub> Ti <sub>3</sub> NbO <sub>12</sub> based-ceramics doped with nanopowders. <b>2019</b> , 552, 159-164		
147	Very high-performance dielectric and non-ohmic properties of novel X8R type Ca <sub>1-1.5x</sub> HoxCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /TiO <sub>2</sub> ceramics. <b>2019</b> , 779, 521-530		13
146	Origin of significantly enhanced dielectric response and nonlinear electrical behavior in Ni <sup>2+</sup> -doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> : Influence of DC bias on electrical properties of grain boundary and associated giant dielectric properties. <i>Ceramics International</i> , <b>2019</b> , 45, 6944-6949	5.1	11
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113	Improved dielectric properties of indium and tantalum co-doped $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramic prepared by spark plasma sintering. <b>2020</b> , 27, 1400-1408		5
112	Controlling microstructure and significantly increased dielectric permittivity with largely reduced dielectric loss in $\text{CaCu}_3\text{Ge}_x\text{Ti}_4\text{O}_{12}$ ceramics. <b>2020</b> , 126, 1		4
111	Strongly Enhanced Dielectric Response and Structural Investigation of $(\text{Sr}^{2+}, \text{Ge}^{4+})$ Co-Doped CCTO Ceramics. <b>2020</b> , 124, 20682-20692		19
110	The Potential of Overlayers on Tin-based Perovskites for Water Splitting. <b>2020</b> , 11, 4124-4130		1
109	Low temperature dielectric study of $\text{La}_2\text{CuMnO}_6$ ceramics. <b>2020</b> , 29, 768-771		0
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107	Significantly improved non-ohmic and giant dielectric response in $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics by incorporating Portland cement. <b>2020</b> , 7, 066301		
106	Enhanced Sensitivity of Capacitive Pressure and Strain Sensor Based on $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Wrapped Hybrid Sponge for Wearable Applications. <b>2020</b> , 30, 1910020		56
105	Giant photostriction of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics under visible light illumination. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 112901	3-4	8
104	Significantly enhanced breakdown field with high grain boundary resistance and dielectric response in $0.1\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3-0.9\text{BaTiO}_3$ doped $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 3011-3018	6	10
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95	Investigation of the dielectric properties and nonlinear electrical response of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics prepared by a chemical combustion method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 4511-4519	2.1	6
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93	Study on phase structures and compositions, microstructures, and dielectric characteristics of (1-x)NdGaO <sub>3</sub> -xBi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> microwave ceramic systems. <i>Ceramics International</i> , <b>2020</b> , 46, 16185-16195 <sup>5.1</sup>		3
92	Enhanced dielectric properties of CCTO ceramics doped by different halogen elements. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 8481-8488	2.1	9
91	Influence of grain boundary insulation on nonlinear and dielectric discrepancy in Ni <sup>2+</sup> /Ni <sup>3+</sup> doped CaCu <sub>3-x</sub> Ni <sub>x</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2020</b> , 46, 16949-16955	5.1	3
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85	Frequency stable dielectric constant with reduced dielectric loss of one-dimensional ZnO-ZnS heterostructures. <b>2021</b> , 13, 15711-15720		2

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80	Thermodynamics of order and randomness in dopant distributions inferred from atomically resolved imaging. <b>2021</b> , 7,		1
79	Effective strategies for reduced dielectric loss in ceramic/ polymer nanocomposite film. <i>Ceramics International</i> , <b>2021</b> , 47, 10096-10103	5.1	4
78	Influences of Sr Doping on Microstructure, Giant Dielectric Behavior, and Non-Ohmic Properties of CaCuTiO/CaTiO Ceramic Composites. <b>2021</b> , 26,		5
77	Effects of Charge Compensation on Colossal Permittivity and Electrical Properties of Grain Boundary of CaCuTiO Ceramics Substituted by Al and Ta/Nb. <b>2021</b> , 26,		2
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74	A structural perspective on giant permittivity CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> : One way to quantum dielectric physics in solids. <b>2021</b> , 6, 100126		2
73	Dielectric, magnetic and optical study of La- doped BFO-BST ceramic for multifunctional applications. <b>2021</b> , 128, 105720		1
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71	Preparation of zinc oxide/poly-ether-ether-ketone (PEEK) composites via the cold sintering process. <b>2021</b> , 215, 117036		6
70	Structure-dependent dielectric relaxations in Sm-doped BaTiO <sub>3</sub> ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 34042-34042	5.1	0
69	First-principles calculations and experimental study of enhanced nonlinear and dielectric properties of Sn <sup>4+</sup> -doped CaCu <sub>2.95</sub> Mg <sub>0.05</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 5176-5183 <sup>7</sup>	6	7
68	Effects of Lu <sup>3+</sup> Doping on Microstructures and Electrical Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. 1		4
67	Enhancement of dielectric performance in BaZr <sub>0.02</sub> (Fe <sub>0.5</sub> Nb <sub>0.5</sub> ) <sub>0.98</sub> O <sub>3</sub> ceramics influenced by sintering temperatures. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 617, 413114	2.8	0

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64	Permittivity order modulation by intrinsic dielectric coupling. <b>2021</b> , 11, 015354	0
63	Frequency-Dependent Transport Imaging by Scanning Probe Microscopy. <b>2007</b> , 132-172	4
62	Improved Dielectric Properties of Poly(vinylidene fluoride) Composites Incorporating Na <sub>1/2</sub> Y <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Particles. <b>2020</b> , 25, 101654	8
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59	Dielectric Response and Structural Analysis of (A, Nb) Cosubstituted CaCuTiO Ceramics (A: Al and Bi). <b>2020</b> , 13,	3
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57	Significantly Improved Colossal Dielectric Properties and Maxwell-Wagner Relaxation of TiO-Rich NaYCuTiO Ceramics. <b>2021</b> , 26,	1
56	Colossal Permittivity in Advanced Functional Heterogeneous Materials: The Relevance of the Local Measurements at Submicron Scale. <b>2010</b> , 613-646	
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53	Origin of Giant Dielectric Permittivity in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. <b>2011</b> , 26, 1058-1062	
52	Investigation on relaxation loss mechanism of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic. <b>2013</b> , 62, 087702	
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50	Investigation of Microstructural Evolution and Suitable Potential Barrier Model for Non-Linear Electrical Response of Sr and Nb Co-Doped CCTO Ceramics. <i>SSRN Electronic Journal</i> ,	1
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47	Nonlinear dielectric composites with Calcium Copper Titanate varistor ceramics for power applications. <b>2021</b> ,		
46	Exploring the electrical behavior of iodine substituted CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12-xI<sub>x</sub></sub> by impedance and modulus spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , <b>2022</b> , 164, 110613	3.9	1
45	Enhancing giant dielectric properties of Ta <sup>5+</sup> -doped Na <sup>1/2</sup> Y <sup>1/2</sup> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by engineering grain and grain boundary. <i>Journal of the American Ceramic Society</i> ,	3.8	0
44	Influence of heating modes on the microstructural and dielectric properties of calcium copper titanium oxide (CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /CCTO) using conventional and microwave sintering. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2022</b> , 33, 5806	2.1	2
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40	High dielectric permittivity and dielectric relaxation behavior in a Y <sub>2/3</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic prepared by a modified Sol-Gel route. <i>Ceramics International</i> , <b>2022</b> ,	5.1	0
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37	Modulated structure and hopping transport mechanism involving a defect-induced localization-delocalization transition in a CaTe(La)Nb <sub>2</sub> WO <sub>10</sub> system. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 112106	3.4	1
36	Dielectric and optical properties of cubic perovskites ATiO <sub>3</sub> (A = Ca, Sr, Ba, Pb). <i>Solid State Communications</i> , <b>2022</b> , 114760	1.6	0
35	Impact of defect migration on electrical and dielectric properties in molten salt synthesized CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> and customizing the properties by compositional engineering with Mg doping. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 281, 125893	4.4	0
34	Investigation of microstructural evolution and suitable potential barrier model for non-linear electrical response of Sr and Nb co-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Physica B: Condensed Matter</i> , <b>2022</b> , 633, 413715	2.8	
33	Intrinsic Enhancement of Permittivity with Ultralow Dielectric Loss in Donor-Acceptor Co-Doped Rutile TiO <sub>2</sub> Ceramics. <i>Integrated Ferroelectrics</i> , <b>2022</b> , 223, 152-161	0.8	0
32	The Study on Microstructure, Dielectric and Nonlinear Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> (a = Ca And/Or Cd) Thin Films. <i>SSRN Electronic Journal</i> ,		1
31	Giant dielectric behavior and non-ohmic properties in Mg <sup>2+</sup> +F <sup>-</sup> -doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Asian Ceramic Societies</i> , 1-10	2.4	0

30	Exploring the global publications on varistors using the Scopus database through a bibliometric analysis. <i>Journal of Asian Ceramic Societies</i> , 1-15	2.4	
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28	Effect of porosity on structural, optical, thermal, and electrical properties of Nickel-Foam coated Graphene sheets. <i>Journal of Materials Research and Technology</i> , <b>2022</b> ,	5.5	0
27	Preparation and characterization of Mg-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2022</b> , 32, 1589-1597	3.3	0
26	Dielectric properties of conventional and microwave sintered Lanthanum doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics for high-frequency applications. <i>Ceramics International</i> , <b>2022</b> ,	5.1	1
25	Calcium copper titanate a perovskite oxide structure: effect of fabrication techniques and doping on electrical properties—review. <i>Journal of Materials Science: Materials in Electronics</i> ,	2.1	0
24	Dielectric properties with high dielectric permittivity and low loss tangent and nonlinear electrical response of sol-gel synthesized Na <sub>1/2</sub> Sm <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> perovskite ceramic. <i>Journal of the European Ceramic Society</i> , <b>2022</b> ,	6	0
23	The flexoelectric transition in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> material with colossal permittivity. <i>Journal of Applied Physics</i> , <b>2022</b> , 132, 024101	2.5	2
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20	Preparation, characterizations, dielectric properties and nonlinear behavior of (Na <sub>1/3</sub> Ca <sub>2/3</sub> Yb <sub>3/3</sub> )Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <b>2022</b> , 132, 106994		
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15	Effects of synthetic routes on structural, dielectric and electrical properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics.		0
14	Exploring the dielectric and conduction characteristics of iodine substituted CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> -xI <sub>x</sub> . <b>2022</b> ,		0
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