

Miguel Angel Ramirez Gil

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65
papers

1,475
citations

24
h-index

35
g-index

65
ext. papers

1,623
ext. citations

3.8
avg, IF

4.16
L-index

#	Paper	IF	Citations
65	A polaronic stacking fault defect model for CaCu ₃ Ti ₄ O ₁₂ material: an approach for the origin of the huge dielectric constant and semiconducting coexistent features. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 055404	3	119
64	Non-Ohmic and dielectric properties of a Ca ₂ Cu ₂ Ti ₄ O ₁₂ polycrystalline system. <i>Applied Physics Letters</i> , 2006 , 89, 212102	3.4	87
63	Dielectric spectroscopy analysis of CaCu ₃ Ti ₄ O ₁₂ polycrystalline systems. <i>Applied Physics Letters</i> , 2006 , 89, 191117	3.4	56
62	Photoluminescence properties of cerium oxide nanoparticles as a function of lanthanum content. <i>Materials Research Bulletin</i> , 2015 , 70, 416-423	5.1	51
61	Influence of mineralizer agents on the growth of crystalline CeO ₂ nanospheres by the microwave-hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 245-251	5.7	50
60	Evaluation of the effect of the stoichiometric ratio of Ca/Cu on the electrical and microstructural properties of the CaCu ₃ Ti ₄ O ₁₂ polycrystalline system. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 185503	5.3	50
59	Evolution of CaCu ₃ Ti ₄ O ₁₂ varistor properties during heat treatment in vacuum. <i>Ceramics International</i> , 2007 , 33, 1187-1190	5.1	48
58	Lanthanum-doped Bi ₄ Ti ₃ O ₁₂ prepared by the soft chemical method: Rietveld analysis and piezoelectric properties. <i>Ceramics International</i> , 2008 , 34, 257-261	5.1	46
57	Electromechanical properties of calcium bismuth titanate films: A potential candidate for lead-free thin-film piezoelectrics. <i>Applied Physics Letters</i> , 2006 , 88, 072916	3.4	36
56	Influence of vanadium on electrical and microstructural properties of CaCu ₃ Ti ₄ O ₁₂ /CaTiO ₃ . <i>Journal of Alloys and Compounds</i> , 2010 , 497, 349-353	5.7	35
55	Comparative Electrical Behavior at Low and High Current of SnO ₂ - and ZnO-Based Varistors. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2402-2404	3.8	33
54	Importance of oxygen atmosphere to recover the ZnO-based varistors properties. <i>Journal of Materials Science</i> , 2006 , 41, 6221-6227	4.3	32
53	Separation of dielectric and space charge polarizations in CaCu ₃ Ti ₄ O ₁₂ /CaTiO ₃ composite polycrystalline systems. <i>Applied Physics Letters</i> , 2007 , 90, 142912	3.4	31
52	Conventional and microwave sintering of CaCu ₃ Ti ₄ O ₁₂ /CaTiO ₃ ceramic composites: non-ohmic and dielectric properties. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 152004	3	30
51	Elastic modulus and hardness of CaTiO ₃ , CaCu ₃ Ti ₄ O ₁₂ and CaTiO ₃ /CaCu ₃ Ti ₄ O ₁₂ mixture. <i>Materials Letters</i> , 2010 , 64, 1226-1228	3.3	29
50	Comparative degradation of ZnO- and SnO ₂ -based polycrystalline non-ohmic devices by current pulse stress. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 122002	3	29
49	Low-temperature synthesis of nanosized bismuth ferrite by the soft chemical method. <i>Ceramics International</i> , 2013 , 39, 13-20	5.1	28

48	Piezoresponse force microscopy characterization of rare-earth doped BiFeO ₃ thin films grown by the soft chemical method. <i>Ceramics International</i> , 2013 , 39, 2185-2195	5.1	27
47	Dielectric behaviour of CaCu ₃ Ti ₄ O ₁₂ -epoxy composites. <i>Materials Research</i> , 2008 , 11, 85-88	1.5	27
46	Dielectric and non-ohmic properties of Ca ₂ Cu ₂ Ti _{4-x} Sn _x O ₁₂ (0.0 ≤ x ≤ 1.0) multiphasic ceramic composites. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 140-149	5.7	27
45	Correlation Between Photoluminescence and Structural Defects in Ca _{1+x} Cu _{3-x} Ti ₄ O ₁₂ Systems. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 209-217	3.8	26
44	Characterization of ZnO-degraded varistors used in high-tension devices. <i>Materials Research Bulletin</i> , 2007 , 42, 1159-1168	5.1	26
43	Towards carbon monoxide sensors based on europium doped cerium dioxide. <i>Applied Surface Science</i> , 2019 , 464, 692-699	6.7	26
42	Electrical behavior analysis of n-type CaCu ₃ Ti ₄ O ₁₂ thick films exposed to different atmospheres. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 153-161	6	25
41	Structural refinement and photoluminescence properties of irregular cube-like (Ca _{1-x} Cu _x)TiO ₃ microcrystals synthesized by the microwave hydrothermal method. <i>Materials Chemistry and Physics</i> , 2012 , 136, 130-139	4.4	22
40	Electric and dielectric behavior of CaCu ₃ Ti ₄ O ₁₂ -based thin films obtained by soft chemical method. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9930-9933	5.7	21
39	The failure analyses on ZnO varistors used in high tension devices. <i>Journal of Materials Science</i> , 2005 , 40, 5591-5596	4.3	21
38	Optical and gas-sensing properties, and electronic structure of the mixed-phase CaCu ₃ Ti ₄ O ₁₂ /CaTiO ₃ composites. <i>Materials Research Bulletin</i> , 2017 , 93, 47-55	5.1	20
37	Comparison of non-Ohmic accelerated ageing of the ZnO- and SnO ₂ -based voltage dependent resistors. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 015503	3	20
36	Control of retention and fatigue-free characteristics in CaBi ₄ Ti ₄ O ₁₅ thin films prepared by chemical method. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 2206-2211	3.3	20
35	Leakage current behavior of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ ferroelectric thin films deposited on different bottom electrodes. <i>Materials Chemistry and Physics</i> , 2008 , 107, 72-76	4.4	19
34	Ferroelectric characteristics of SrBi ₄ Ti ₄ O ₁₅ thin films grown on Pt/Ti/SiO ₂ /Si substrates by the soft chemical method. <i>Materials Letters</i> , 2006 , 60, 2020-2023	3.3	19
33	Influence of degradation on the electrical conduction process in ZnO and SnO ₂ -based varistors. <i>Journal of Applied Physics</i> , 2010 , 108, 074505	2.5	18
32	Ferroelectric properties and leakage current characteristics of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ thin films prepared by the polymeric precursor method. <i>Journal of Applied Physics</i> , 2005 , 98, 114103	2.5	18
31	Effect of Seed Addition on SnO ₂ -Based Varistors for Low Voltage Application. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 524-530	3.8	17

30	Synthesis and characterization of CaBi ₄ Ti ₄ O ₁₅ thin films annealed by microwave and conventional furnaces. <i>Solid State Sciences</i> , 2007 , 9, 756-760	3-4	17
29	Retention characteristics in Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ thin films prepared by the polymeric precursor method. <i>Applied Physics Letters</i> , 2005 , 86, 112909	3-4	17
28	Influence of temperature on the dielectric and ferroelectric properties of bismuth titanate thin films obtained by the polymeric precursor method. <i>Materials Chemistry and Physics</i> , 2005 , 92, 373-378	4-4	17
27	Electrical and microstructural properties of CaTiO ₃ -doped K ^{1/2} Na ^{1/2} NbO ₃ -lead free ceramics. <i>Bulletin of Materials Science</i> , 2011 , 34, 1213-1217	1-7	16
26	Synthesis and electrical characterization of CaBi ₂ Nb ₂ O ₉ thin films deposited on Pt/Ti/SiO ₂ /Si substrates by polymeric precursor method. <i>Materials Chemistry and Physics</i> , 2006 , 98, 203-206	4-4	16
25	Enhanced ferroelectric properties of La-substituted BiFeO ₃ thin films on LaSrCoO ₃ /Pt/TiO ₂ /SiO ₂ /Si (1 0 0) substrates prepared by the soft chemical method. <i>Ceramics International</i> , 2012 , 38, 3841-3849	5-1	15
24	Enhancement of ferromagnetic and ferroelectric properties in calcium doped BiFeO ₃ by chemical synthesis. <i>Ceramics International</i> , 2015 , 41, 9265-9275	5-1	13
23	Magnetoelectric coupling of LaFeO ₃ /BiFeO ₃ heterostructures. <i>Ceramics International</i> , 2015 , 41, 13126-13134	13-14	12
22	Growth of SrBi ₄ Ti ₄ O ₁₅ thin films in a microwave oven by the polymeric precursor method. <i>Journal of Alloys and Compounds</i> , 2008 , 455, 407-412	5-7	12
21	Mechanical Properties and Dimensional Effects of ZnO- and SnO ₂ -Based Varistors. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3105-3108	3-8	12
20	Degradation Analysis of the SnO ₂ and ZnO-Based Varistors Using Electrostatic Force Microscopy. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1801-1809	3-8	11
19	Synthesis, structure and magnetic properties of Y ₃ Fe _{5-x} Al _x O ₁₂ garnets prepared by the soft chemical method. <i>Processing and Application of Ceramics</i> , 2014 , 8, 211-218	1-4	11
18	Photoluminescence behavior on Sr ²⁺ modified CaCu ₃ Ti ₄ O ₁₂ based ceramics. <i>Ceramics International</i> , 2018 , 44, 10781-10789	5-1	10
17	Influence of Sm ³⁺ doping on the dielectric properties of CaCu ₃ Ti ₄ O ₁₂ ceramics synthesized via autocombustion. <i>Inorganic Chemistry Communication</i> , 2014 , 40, 5-7	3-1	10
16	The influence of area/volume ratio on microstructure and non-Ohmic properties of SnO ₂ -based varistor ceramic blocks. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 49-54	2-1	10
15	Effect of the microwave oven on structural, morphological and electrical properties of SrBi ₄ Ti ₄ O ₁₅ thin films grown on Pt/Ti/SiO ₂ /Si substrates by a soft chemical method. <i>Materials Characterization</i> , 2008 , 59, 675-680	3-9	10
14	Ferroelectric and piezoelectric properties of bismuth layered thin films grown on (1 0 0) Pt electrodes. <i>Journal of Materials Processing Technology</i> , 2008 , 196, 10-14	5-3	10
13	Enhanced electrical behavior in Ca _{1-x} Sr _x Cu ₃ Ti ₄ O ₁₂ ceramics. <i>Ceramics International</i> , 2019 , 45, 14305-14311	13-11	9

12	Relationship between grain-boundary capacitance and bulk shallow donors in SnO ₂ polycrystalline semiconductor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1694-1698	1.6	9
11	Effect of the excess of bismuth on the morphology and properties of the BaBi ₂ Ta ₂ O ₉ ceramics. <i>Materials Letters</i> , 2005 , 59, 656-661	3.3	9
10	Magnetoelectricity at room temperature in the LaFeO ₃ /BiFeO ₃ heterostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 9325-9334	2.1	8
9	Novel Approaches of Nanoceramics with Magnetic, Photoluminescent, and Gas-Sensing Properties. <i>ACS Omega</i> , 2020 , 5, 14879-14889	3.9	6
8	Effect of oxidizing atmosphere on the electrical properties of SrBi ₄ Ti ₄ O ₁₅ thin films obtained by the polymeric precursor method. <i>Solid State Sciences</i> , 2008 , 10, 1951-1957	3.4	6
7	Microwave synthesis of calcium bismuth niobate thin films obtained by the polymeric precursor method. <i>Materials Research Bulletin</i> , 2006 , 41, 1461-1467	5.1	6
6	The effect of microwave annealing on the electrical characteristics of lanthanum doped bismuth titanate films obtained by the polymeric precursor method. <i>Applied Surface Science</i> , 2006 , 252, 8471-8475	6.7	5
5	Microstructural and nonohmic properties of ZnO:Pr ₆ O ₁₁ CoO polycrystalline system. <i>Materials Research</i> , 2010 , 13, 29-34	1.5	4
4	Dielectric properties of bismuth niobate films using LaNiO ₃ bottom electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2866-2874	2.1	3
3	Fabrication and structural characterization of bismuth niobate thin films grown by chemical solution deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 1142-1150	2.1	2
2	Caracterização elétrica de blocos varistores à base de SnO ₂ . <i>Cerâmica</i> , 2012 , 58, 349-356	1	
1	Oriented growth of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ thin films on RuO ₂ /SiO ₂ /Si substrates by using the polymeric precursor method: Structural, microstructural and electrical properties. <i>Journal of Electroceramics</i> , 2007 , 18, 39-43	1.5	