Maglione Mario

List of Publications by Year
in descending order

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97 papers	2,346 citations	218677 26 h-index	243625 44 g-index
101 all docs	101 docs citations	101 times ranked	2941 citing authors

#	Article	IF	Citations
1	Revised structural phase diagram of (Ba0.7Ca0.3TiO3)-(BaZr0.2Ti0.8O3). Applied Physics Letters, 2013, 102, .	3.3	319
2	The crossover from a ferroelectric to a relaxor state in lead-free solid solutions. Journal of Physics Condensed Matter, 2004, 16, 963-970.	1.8	171
3	Photoelectric Effects in Single Domain BiFeO₃ Crystals. Advanced Functional Materials, 2012, 22, 4814-4818.	14.9	86
4	Single-step synthesis of well-crystallized and pure barium titanate nanoparticles in supercritical fluids. Nanotechnology, 2005, 16, 1137-1143.	2.6	73
5	Relaxor properties of Ba0.9Bi0.067(Ti1â^'xZrx)O3 ceramics. Solid State Sciences, 2005, 7, 925-930.	3.2	67
6	Supercritical fluid technology: A reliable process for high quality BaTiO3 based nanomaterials. Advanced Powder Technology, 2014, 25, 1415-1429.	4.1	65
7	Intrinsic energy band alignment of functional oxides. Physica Status Solidi - Rapid Research Letters, 2014, 8, 571-576.	2.4	60
8	Title is missing!. , 2003, 10, 5-18.		54
9	Tailoring Dielectric Properties of Multilayer Composites Using Spark Plasma Sintering. Journal of the American Ceramic Society, 2007, 90, 973-976.	3.8	47
10	Coupling in situ synchrotron radiation with ex situ spectroscopy characterizations to study the formation of Ba1â^'xSrxTiO3 nanoparticles in supercritical fluids. Journal of Supercritical Fluids, 2014, 87, 111-117.	3.2	47
11	Effect of Nonmagnetic Substituents Mg and Zn on the Phase Competition in the Multiferroic Antiferromagnet MnWO₄. Chemistry of Materials, 2009, 21, 5203-5214.	6.7	45
12	Ferroelectric-Based Nanocomposites:Â Toward Multifunctional Materials. Chemistry of Materials, 2007, 19, 987-992.	6.7	44
13	Interface Investigation in Nanostructured BaTiO₃/Silica Composite Ceramics. Journal of the American Ceramic Society, 2010, 93, 865-874.	3.8	44
14	Relaxor behavior of K0.5La0.5Bi2Nb2O9 ceramics. Applied Physics Letters, 2006, 89, 042905.	3.3	43
15	High-performance piezoelectric (K,Na,Li)(Nb,Ta,Sb)O3 single crystals by oxygen annealing. Acta Materialia, 2018, 148, 499-507.	7.9	42
16	Orientation-dependent electromechanical properties of Mn-doped (Li,Na,K)(Nb,Ta)O3 single crystals. Applied Physics Letters, 2016, 109, 152902.	3.3	41
17	Flexible relaxor materials: Ba₂Pr_xNd_{1â^'x}FeNb₄O₁₅tetragonal tungsten bronze solid solution. Journal of Physics Condensed Matter, 2009, 21, 452201.	1.8	39
18	Influence of ceramic process and Eu content on the composite multiferroic properties of the Ba6â^'2xLn2xFe1+xNb9â^'xO30 TTB system. Solid State Sciences, 2009, 11, 1709-1716.	3.2	33

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19	Increasing the Phase-Transition Temperatures in Spin-Frustrated Multiferroic MnWO₄ by Mo Doping. Chemistry of Materials, 2012, 24, 353-360.	6.7	33
20	Near-field probing of Mie resonances in single TiO_2 microspheres at terahertz frequencies. Optics Express, 2014, 22, 23034.	3.4	33
21	Continuous BaTi1â^'yZryO3 (0â‰¤yâ‰¤1) nanocrystals synthesis in supercritical fluids for nanostructured lead-free ferroelectric ceramics. Materials and Design, 2015, 86, 354-360.	7.0	33
22	Deposition and dielectric properties of CaCu3Ti4O12 thin films deposited on Pt/Ti/SiO2/Si substrates using radio frequency magnetron sputtering. Thin Solid Films, 2008, 516, 2874-2880.	1.8	32
23	Interface-driven magnetocapacitance in a broad range of materials. Journal of Physics Condensed Matter, 2008, 20, 322202.	1.8	29
24	Growth and Characterization of Ba₂LnFeNb₄O₁₅ (Ln = Pr, Nd, Sm,) Tj ETQq0 0 0 rgBT /Overlock	3.0	29
25	Enhancing the ferroelectric performance of P(VDF-co-TrFE) through modulation of crystallinity and polymorphism. Polymer, 2018, 149, 66-72.	3.8	28
26	Optical diffraction of second-harmonic signals in the LiBO2-Nb2O5 glasses induced by self-organized LiNbO3 crystallites. Applied Physics Letters, 2005, 87, 091113.	3.3	27
27	Structureâ€“microstructureâ€“property relationships in lead-free BCTZ piezoceramics processed by conventional sintering and spark plasma sintering. Journal of the European Ceramic Society, 2015, 35, 4153-4161.	5.7	27
28	Supercritical Fluid Technology of Nanoparticle Coating for New Ceramic Materials. Journal of Nanoscience and Nanotechnology, 2005, 5, 980-983.	0.9	25
29	Lattice dynamics and Raman spectrum of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaZrO</mml:mi><mml:mn>3</mml:mn></mml:msub></m single crystals. Physical Review B, 2019, 100, .	3.2	26
30	Single crystal growth of BaZrO₃ from the melt at 2700 Â°C using optical floating zone technique and growth prospects from BaB₂O₄ flux at 1350 Â°C. CrystEngComm, 2019, 21, 502-512.	2.6	25
31	From coreâ€“shell BaTiO₃@MgO to nanostructured low dielectric loss ceramics by spark plasma sintering. Journal of Materials Chemistry C, 2014, 2, 683-690.	5.5	24
32	High-Tunability and High-<formula formulatype="inline"><tex Notation="TeX">Q</tex></formula>-Factor Integrated Ferroelectric Circuits up to Millimeter Waves. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2570-2578.	4.6	24
33	Incorporation of Jahnâ€“Teller Cu²⁺ Ions into Magnetoelectric Multiferroic MnWO₄: Structural, Magnetic, and Dielectric Permittivity Properties of Mn_{1â€“x}Cu_xWO₄ (x â‰¤ 0.25). Inorganic Chemistry, 2015, 54, 10623-10631.	4.0	24
34	Insights into BaTi_{1â€“y}Zr_yO₃ (0 â‰¤ y â‰¤ 1) Synthesis under Supercritical Fluid Conditions. Chemistry of Materials, 2016, 28, 3391-3400.	6.7	24
35	New application of the coreâ€“shell concept to ferroelectric nanopowders. Journal of Materials Chemistry, 2003, 13, 650-653.	6.7	23
36	Oxygen Vacancy Relaxation and Domain Wall Hysteresis Motion in Cobalt-Doped Barium Titanate Ceramics. Journal of the American Ceramic Society, 2005, 88, 907-911.	3.8	22

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37	Wide-Tunable Low-Field Interdigitated Barium Strontium Titanate Capacitors. IEEE Microwave and Wireless Components Letters, 2007, 17, 769-771.	3.2	21
38	Growth and characterizations of lead-free ferroelectric KNN-based crystals. Comptes Rendus Physique, 2013, 14, 133-140.	0.9	20
39	Relaxor behavior of K0.5La0.5Bi2Ta2O9 ceramics. Solid State Communications, 2006, 139, 268-272.	1.9	19
40	Influence of Ta⁵⁺ content on the crystallographic structure and electrical properties of [001]_{PC}-oriented (Li,Na,K)(Nb,Ta)O₃ single crystals. CrystEngComm, 2016, 18, 2081-2088.	2.6	18
41	Local Distortions in Nanostructured Ferroelectric Ceramics through Strain Tuning. Advanced Electronic Materials, 2015, 1, 1500190.	5.1	17
42	Free charge localization and effective dielectric permittivity in oxides. Journal of Advanced Dielectrics, 2016, 06, 1630006.	2.4	17
43	Hydroxyapatiteâ€barium titanate piezocomposites with enhanced electrical properties. Journal of the American Ceramic Society, 2017, 100, 2621-2631.	3.8	17
44	Structural and electrical properties of BaTi1â^'xZrxO3 sputtered thin films: effect of the sputtering conditions. Thin Solid Films, 2004, 467, 54-58.	1.8	15
45	Growth and Characterization of Centimeterâ€Sized Ba₂LaFeNb₄O₁₅ Crystals from Highâ€Temperature Solution under a Controlled Atmosphere. European Journal of Inorganic Chemistry, 2013, 2013, 2817-2825.	2.0	15
46	Characterization of ferroelectric BST MIM capacitors up to 65 GHz for a compact phase shifter at 60 GHz. , 2014, , .		15
47	Original Crystal-Chemical Behaviors in (Ba,Sr)₂Ln(Fe,Nb,Ta)₅O₁₅ Tetragonal Tungsten Bronze: Anion-Driven Properties Evidenced by Cationic Substitutions. Crystal Growth and Design, 2014, 14, 5428-5435.	3.0	15
48	Splitting of magnetic dipole modes in anisotropic TiO₂ microâ€spheres. Laser and Photonics Reviews, 2016, 10, 681-687.	8.7	15
49	Temperature-Dependent Evolution of Crystallographic and Domain Structures in (K,Na,Li)(Ta,Nb)O₃ Piezoelectric Single Crystals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1508-1516.	3.0	15
50	The ferroelectric transition temperature as an intrinsic probe for sintered nanocrystalline BaTiO3synthesized under supercritical conditions. Nanotechnology, 2005, 16, 797-802.	2.6	14
51	Stoichiometry and Grain Boundaries Control by Spark Plasma Sintering in <scp><scp>Ba</scp></scp>_{0.6}<scp><scp>Sr</scp></scp>_{0.4}<scp><scp>TiO</scp></scp>₃:<sc Composites. Journal of the American Ceramic Society, 2012, 95, 3239-3245.	3.8	14
52	Strain dependent microstructural modifications of BiCrO3 epitaxial thin films. Thin Solid Films, 2013, 545, 130-139.	1.8	14
53	Study of Screenâ€Printed <scp>PZT</scp> Cantilevers Both Selfâ€Actuated and Selfâ€Readâ€Out. International Journal of Applied Ceramic Technology, 2014, 11, 311-320.	2.1	14
54	Physical properties of the new ceramics in the mixed oxide system Na1â^'xLixNb1â^'xSbxO3. Journal of Alloys and Compounds, 2009, 481, 305-309.	5.5	13

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55	Structure refinement, dielectric, pyroelectric and Raman characterizations of Ba1â^'xLax(1â^'y)/2Euxy/2Nax/2TiO3 solid solution. Journal of Solid State Chemistry, 2006, 179, 4011-4019.	2.9	12
56	Na1â^'xLixNbO3 ceramics studied by X-ray diffraction, dielectric, pyroelectric, piezoelectric and Raman spectroscopy. Journal of Physics and Chemistry of Solids, 2011, 72, 1140-1146.	4.0	12
57	Thin films sputtered from Ba2NdFeNb4O15 multiferroic targets on BaFe12O19 coated substrates. Materials Research Bulletin, 2016, 81, 49-54.	5.2	12
58	Simple synthesis and characterization of vertically aligned Ba_{0.7}Sr_{0.3}TiO₃â€“CoFe₂O₄multiferroic nanocomposites from CoFe₂nanopillar arrays. Nanotechnology, 2017, 28, 475707.	2.6	12
59	Lead-free piezoelectric crystals grown by the micro-pulling down technique in the BaTiO₃â€“CaTiO₃â€“BaZrO₃ system. CrystEngComm, 2019, 21, 3844-3853.	2.6	12
60	Piezoelectric, pyroelectric, dielectric and ferroelectric properties of Ba0.3Na0.7Ti0.3Nb0.7O3. Journal of Applied Physics, 2007, 102, 114106.	2.5	11
61	Surface segregation in Nb-doped BaTiO3 films. Applied Surface Science, 2010, 256, 6228-6232.	6.1	11
62	Coexistence of ferroelectric and relaxor states in Ba₂Pr_xNd_{1-x}FeNb₄O₁₅. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1879-1882.	3.0	11
63	Dielectric properties of tetragonal tungsten bronze films deposited by RF magnetron sputtering. Solid State Sciences, 2014, 38, 112-118.	3.2	11
64	Spinodal Decomposition in Lead-free Piezoelectric BaTiO₃â€“CaTiO₃â€“BaZrO₃ Crystals. Crystal Growth and Design, 2018, 18, 5874-5884.	3.0	11
65	Adjustable dielectric properties of BaTiO 3 containing MgO inclusions deformable under Spark Plasma Sintering. Scripta Materialia, 2016, 110, 82-86.	5.2	9
66	Intrinsic ionic screening of the ferroelectric polarization of KTP revealed by second-harmonic generation microscopy. Optical Materials Express, 2016, 6, 137.	3.0	9
67	Influence of the Spark Plasma Sintering temperature on the structure and dielectric properties of BaTi(1-x)ZrxO3 ceramics. Ceramics International, 2021, 47, 3614-3625.	4.8	9
68	In situ investigation of the stability field and relaxation behavior of nanodomain structures in morphotropic Pb[Zr1â^'xTix]O3 under variations in electric field and temperature. Applied Physics Letters, 2009, 94, .	3.3	8
69	The study of dielectric, pyroelectric and piezoelectric properties on hot pressed PZT-PMN systems. AIP Advances, 2012, 2, 042170.	1.3	8
70	Crystal growth and dielectric characterization of crystals derived from the solid-solution Ba(1â^'x)NaxTi(1â^'x)NbxO3 (BTNN). Materials Research Bulletin, 2009, 44, 2240-2245.	5.2	7
71	Laserâ€Induced Periodic Surface Crystalline Patterns on SrOâ€“0.5Li₂Oâ€“4.5B₂O₃ and BaOâ€“0.5Na₂Oâ€“4.5B₂O₃ Glasses and Optical Second Harmonic Generation. International Journal of Applied Glass Science, 2010, 1, 350-357.	2.0	7
72	Persistent Type-II Multiferroicity in Nanostructured MnWO₄ Ceramics. Chemistry of Materials, 2016, 28, 7582-7585.	6.7	7

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73	Ferroelectricity in Undoped ZnO Nanorods. Journal of Physical Chemistry C, 2019, 123, 29436-29444.	3.1	7
74	Key features in the development of unimorph stainless steel cantilever with screenâ€printed PZT dedicated to energy harvesting applications. International Journal of Applied Ceramic Technology, 2020, 17, 2533-2544.	2.1	7
75	Relaxor characteristics of layered Ba1â^'(3â^•2)xLaxBi2Nb2O9 ceramics. Journal of Applied Physics, 2007, 101, 014106.	2.5	6
76	Anisotropic polar state of Sr0.75Ba0.25Nb2O6 single crystal. Solid State Sciences, 2007, 9, 52-56.	3.2	6
77	Guided-wave electro-optic characterization of BaTiO_3 thin films using the prism coupling technique. Optics Letters, 2013, 38, 1037.	3.3	6
78	Thermal expansion, polarization and phase diagrams of Ba1â^'yBi2y/3Ti1â^'xZrxO3and Ba1â^'yLayTi1â^'y/4O3compounds. Journal of Physics Condensed Matter, 2009, 21, 075902.	1.8	5
79	Effect of annealing under O2and H2on the piezoelectric parameters of the Ca12Al14O33single crystals. Journal of Applied Physics, 2012, 111, 054107.	2.5	5
80	Feasibility of Screenâ€Printed <scp>PZT</scp> Microceramics for Structural Health Monitoring Applications. International Journal of Applied Ceramic Technology, 2014, 11, 413-421.	2.1	5
81	Optical diffraction of second harmonic generation in SrBi2(Nb0.7V0.3)2O9 in the SrOâ€“Bi2O3â€“0.7Nb2O5â€“0.3V2O5â€“Li2B4O7 glass system. Synthetic Metals, 2005, 155, 434-438.	3.9	4
82	Ferroelectric MIM capacitors for compact high tunable filters. , 2015, , .		4
83	Electric Current as a Driving Force for Interphase Growth in Spark Plasma Sintered Dielectric Composites. Journal of the American Ceramic Society, 2016, 99, 406-409.	3.8	4
84	Interface control in BaTiO 3 based supercapacitors. , 2010, , .		3
85	Dielectric Study of Unexpected Transitions in Multiferroic Mn1-x(Mg,Zn)xWO4Ceramics. Ferroelectrics, 2012, 428, 94-100.	0.6	2
86	Drastic changes of electronic structure and crystal chemistry upon oxidation of SnII2TiO4E2 into SnIV2TiO6: An ab initio study. Solid State Sciences, 2016, 59, 25-31.	3.2	2
87	Non-destructive depth-dependent morphological characterization of ferroelectric:semiconducting polymer blend films. Colloid and Polymer Science, 2021, 299, 551-560.	2.1	2
88	Tunability Investigation in the BaTiO3-CaTiO3-BaZrO3 Phase Diagram Using a Refined Combinatorial Thin Film Approach. Coatings, 2021, 11, 1082.	2.6	2
89	Magnetic field tuning of polaron losses in Fe doped BaTiO₃single crystals. Journal of Physics Condensed Matter, 2012, 24, 405901.	1.8	1
90	Splitting of magnetic dipole modes in anisotropic TiO2micro-spheres (Laser Photonics Rev. 10(4)/2016). Laser and Photonics Reviews, 2016, 10, 698-698.	8.7	1

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91	Heat capacity and thermal expansion study of Ba0.9Bi0.067(Ti1â^'xZrx)O3ceramics. Journal of Physics Condensed Matter, 2007, 19, 346237.	1.8	0
92	Tuning of Barium Strontium Titanate (BST) Thin Film Materials Employing High Resistive Thin Indium Tin Oxide (ITO) Layer. , 2008, , .		0
93	Recent advances in integrated ferroelectric and multiferroic materials. , 2010, , .		0
94	Structural analysis, growth and characterization of cadmium gallium telluride (Cd0.89Ga0.11Te) thermoelectric semiconductor single crystals. Journal of Crystal Growth, 2012, 340, 6-12.	1.5	0
95	Magnetic dipole and electric dipole resonances in TiO2microspheres at terahertz frequencies. , 2015, , .		0
96	Terahertz near-field spectroscopy through a sub-wavelength size aperture. , 2015, , .		0
97	Near-field characterisation of anisotropic all-dielectric terahertz resonators. , 2016, , .		0