

Maria Teresa Buscaglia

List of Publications by Year in descending order

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41
papers

3,286
citations

201674

27
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289244

40
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43
all docs

43
docs citations

43
times ranked

3697
citing authors

#	ARTICLE	IF	CITATIONS
1	Grain-size effects on the ferroelectric behavior of dense nanocrystalline BaTiO ₃ ceramics. Physical Review B, 2004, 70, .	3.2	762
2	High dielectric constant and frozen macroscopic polarization in dense nanocrystalline BaTiO ₃ ceramics. Physical Review B, 2006, 73, .	3.2	273
3	Solid-State Synthesis of Ultrafine BaTiO ₃ Powders from Nanocrystalline BaCO ₃ and TiO ₂ . Journal of the American Ceramic Society, 2005, 88, 2374-2379.	3.8	151
4	Ferroelectric properties of dense nanocrystalline BaTiO ₃ ceramics. Nanotechnology, 2004, 15, 1113-1117.	2.6	140
5	Atomistic Simulation of Dopant Incorporation in Barium Titanate. Journal of the American Ceramic Society, 2001, 84, 376-84.	3.8	132
6	Kinetics and Mechanism of Aqueous Chemical Synthesis of BaTiO ₃ Particles. Chemistry of Materials, 2004, 16, 1536-1543.	6.7	113
7	Second-Harmonic Generation of Single BaTiO ₃ Nanoparticles down to 22 nm Diameter. ACS Nano, 2013, 7, 5343-5349.	14.6	109
8	Grain Size-Dependent Properties of Dense Nanocrystalline Barium Titanate Ceramics. Journal of the American Ceramic Society, 2012, 95, 3912-3921.	3.8	104
9	Grain size effect on the nonlinear dielectric properties of barium titanate ceramics. Applied Physics Letters, 2010, 97, .	3.3	98
10	Incorporation of Er ³⁺ into BaTiO ₃ . Journal of the American Ceramic Society, 2002, 85, 1569-1575.	3.8	87
11	Preparation and characterisation of the Ba(Zr,Ti)O ₃ ceramics with relaxor properties. Journal of the European Ceramic Society, 2007, 27, 4061-4064.	5.7	86
12	Size and Shape Control of SrTiO ₃ Particles Grown by Epitaxial Self-Assembly. Chemistry of Materials, 2006, 18, 1627-1633.	6.7	84
13	Synthesis of BaTiO ₃ Particles with Tailored Size by Precipitation from Aqueous Solutions. Journal of the American Ceramic Society, 2004, 87, 79-83.	3.8	80
14	Kinetic Modeling of Aqueous and Hydrothermal Synthesis of Barium Titanate (BaTiO ₃). Chemistry of Materials, 2005, 17, 5346-5356.	6.7	80
15	Solid-State Synthesis of Nanocrystalline BaTiO ₃ : Reaction Kinetics and Powder Properties. Journal of the American Ceramic Society, 2008, 91, 2862-2869.	3.8	80
16	Effect of nanostructure on the thermal conductivity of La-doped SrTiO ₃ ceramics. Journal of the European Ceramic Society, 2014, 34, 307-316.	5.7	78
17	Preparation and characterisation of the magneto-electric xBiFeO ₃ -(1-x)BaTiO ₃ ceramics. Journal of the European Ceramic Society, 2006, 26, 3027-3030.	5.7	76
18	Polymer-assisted precipitation of ZnO nanoparticles with narrow particle size distribution. Journal of the European Ceramic Society, 2010, 30, 591-598.	5.7	71

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19	Synthesis of BaTiO ₃ Core-Shell Particles and Fabrication of Dielectric Ceramics with Local Graded Structure. Chemistry of Materials, 2006, 18, 4002-4010.	6.7	69
20	Coating of BaCO ₃ Crystals with TiO ₂ :A Versatile Approach to the Synthesis of BaTiO ₃ Tetragonal Nanoparticles. Chemistry of Materials, 2007, 19, 711-718.	6.7	69
21	Ferroelectric BaTiO ₃ Nanowires by a Topochemical Solid-State Reaction. Chemistry of Materials, 2009, 21, 5058-5065.	6.7	67
22	Hydrothermal Synthesis of SrTiO ₃ Mesocrystals: Single Crystal to Mesocrystal Transformation Induced by Topochemical Reactions. Crystal Growth and Design, 2012, 12, 4450-4456.	3.0	66
23	Fe ₂ O ₃ @BaTiO ₃ Core-Shell Particles as Reactive Precursors for the Preparation of Multifunctional Composites Containing Different Magnetic Phases. Chemistry of Materials, 2010, 22, 4740-4748.	6.7	57
24	Local switching properties of dense nanocrystalline BaTiO ₃ ceramics. Applied Physics Letters, 2004, 84, 2418-2420.	3.3	50
25	Investigation of the ferroelectric-relaxor crossover in Ce-doped BaTiO ₃ ceramics by impedance spectroscopy and Raman study. Phase Transitions, 2013, 86, 703-714.	1.3	37
26	Morphological Control of Hydrothermal Ni(OH) ₂ in the Presence of Polymers and Surfactants: Nanocrystals, Mesocrystals, and Superstructures. Crystal Growth and Design, 2008, 8, 3847-3855.	3.0	34
27	PVDF-ferrite composites with dual magneto-piezoelectric response for flexible electronics applications: synthesis and functional properties. Journal of Materials Science, 2020, 55, 3926-3939.	3.7	29
28	Formation of Bi ₄ Ti ₃ O ₁₂ One-Dimensional Structures by Solid-State Reactive Diffusion. From Core-Shell Templates to Nanorods and Nanotubes. Crystal Growth and Design, 2011, 11, 1394-1401.	3.0	28
29	Synthesis of Y-doped BaCeO ₃ nanopowders by a modified solid-state process and conductivity of dense fine-grained ceramics. Solid State Ionics, 2009, 180, 168-174.	2.7	26
30	Nanoparticle laden interfacial layers and application to foams and solid foams. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 438, 132-140.	4.7	26
31	Ferroelectric hollow particles obtained by solid-state reaction. Nanotechnology, 2008, 19, 225602.	2.6	25
32	Nanocrystalline oxide (Y ₂ O ₃ , Dy ₂ O ₃ , ZrO ₂ , NiO) coatings on BaTiO ₃ submicron particles by precipitation. Journal of Nanoparticle Research, 2010, 12, 623-633.	1.9	19
33	Novel magnetoelectric ceramic composites by control of the interface reactions in Fe ₂ O ₃ @BaTiO ₃ core-shell structures. Journal of Applied Physics, 2014, 116, .	2.5	19
34	Preparation of Bi ₂ Fe ₄ O ₉ particles by hydrothermal synthesis and functional properties. Phase Transitions, 2013, 86, 726-736.	1.3	15
35	Improved dielectric properties of poly(vinylidene fluoride)-BaTiO ₃ composites by solvent-free processing. Journal of Applied Polymer Science, 2021, 138, 50049.	2.6	11
36	Design tunable materials: Ferroelectric-antiferroelectric composite with core-shell structure. Applied Physics Letters, 2014, 105, .	3.3	9

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37	Influence of stoichiometry on the dielectric and ferroelectric properties of the tunable (Ba,Sr)TiO ₃ ceramics investigated by First Order Reversal Curves method. Journal of the European Ceramic Society, 2006, 26, 2915-2921.	5.7	8
38	Positive Temperature Coefficient of Electrical Resistivity below 150 K in Barium Strontium Titanate. Journal of the American Ceramic Society, 2004, 87, 756-758.	3.8	6
39	Revealing the Role of the Intermediates during the Synthesis of BaTi ₅ O ₁₁ . Inorganic Chemistry, 2019, 58, 8120-8129.	4.0	4
40	Raman spectroscopic study of layered quaternary ferrite Ba ₁₂ Fe ₂₈ Ti ₁₅ O ₈₄ . Phase Transitions, 2013, 86, 661-669.	1.3	2
41	Ferroelectricity in Bi ₄ Ti ₃ O ₁₂ nanorods. , 2011, , .		0