

Maria Elizabete Costa

List of Publications by Year in descending order

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citations

257450

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74
docs citations

74
times ranked

2330
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of the deposition pressure on the properties of transparent and conductive ZnO:Ga thin-film produced by r.f. sputtering at room temperature. <i>Thin Solid Films</i> , 2003, 427, 401-405.	1.8	277
2	Hydroxyapatite micro- and nanoparticles: Nucleation and growth mechanisms in the presence of citrate species. <i>Journal of Colloid and Interface Science</i> , 2008, 318, 210-216.	9.4	155
3	Sustainability criteria for assessing nanotechnology applicability in industrial wastewater treatment: Current status and future outlook. <i>Environment International</i> , 2019, 125, 261-276.	10.0	128
4	Dielectric relaxation in Ba-based layered perovskites. <i>Applied Physics Letters</i> , 2001, 79, 662-664.	3.3	94
5	Relaxor properties of Ba-based layered perovskites. <i>Journal of the European Ceramic Society</i> , 2001, 21, 1303-1306.	5.7	91
6	Defects and charge transport in Mn-doped $K_{0.5}Na_{0.5}NbO_3$ ceramics. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24403-24411.	2.8	82
7	Transparent, conductive ZnO:Al thin film deposited on polymer substrates by RF magnetron sputtering. <i>Surface and Coatings Technology</i> , 2002, 151-152, 247-251.	4.8	67
8	Glutaraldehyde-crosslinking chitosan scaffolds reinforced with calcium phosphate spray-dried granules for bone tissue applications. <i>Materials Science and Engineering C</i> , 2020, 109, 110557.	7.3	53
9	Impedance Analysis and Conduction Mechanisms of Lead Free Potassium Sodium Niobate (KNN) Single Crystals and Polycrystals: A Comparison Study. <i>Crystal Growth and Design</i> , 2015, 15, 1289-1294.	3.0	52
10	Ferroelectric and dielectric anisotropy in high-quality $SrBi_2Ta_2O_9$ single crystals. <i>Applied Physics Letters</i> , 2004, 85, 5667-5669.	3.3	46
11	In Vitro Cytotoxicity Effects of Zinc Oxide Nanoparticles on Spermatogonia Cells. <i>Cells</i> , 2020, 9, 1081.	4.1	41
12	Sodium potassium niobate ($K_{0.5}Na_{0.5}NbO_3$, KNN) thick films by electrophoretic deposition. <i>RSC Advances</i> , 2015, 5, 4698-4706.	3.6	40
13	Relevance of the sterilization-induced effects on the properties of different hydroxyapatite nanoparticles and assessment of the osteoblastic cell response. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3397-3410.	3.4	38
14	Characteristics of zinc oxide powders precipitated in the presence of alcohols and amines. <i>Journal of the European Ceramic Society</i> , 1993, 11, 275-281.	5.7	33
15	Morphological Evolution of Hydroxyapatite Particles in the Presence of Different Citrate:Calcium Ratios. <i>Crystal Growth and Design</i> , 2015, 15, 4417-4426.	3.0	33
16	Pairing High Piezoelectric Coefficients, d_{33} , with High Curie Temperature (T_C) in Lead-Free (K,Na)NbO ₃ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33755-33764.	8.0	33
17	Spray-dried hydroxyapatite-5-Fluorouracil granules as a chemotherapeutic delivery system. <i>Ceramics International</i> , 2009, 35, 509-513.	4.8	32
18	Abnormal Grain Growth as a Method To Enhance the Thermoelectric Performance of Nb-Doped Strontium Titanate Ceramics. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15988-15994.	6.7	30

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19	Ultrasonic irradiation as a green production route for coupling crystallinity and high specific surface area in iron nanomaterials. <i>Journal of Cleaner Production</i> , 2019, 211, 185-197.	9.3	30
20	Relaxor Behavior of BaBi ₂ Ta ₂ O ₉ and BaBi ₂ Nb ₂ O ₉ Ceramics. <i>Ferroelectrics</i> , 2003, 296, 187-197.	0.6	28
21	Dynamics of the phase transitions in Bi-layered ferroelectrics with Aurivillius structure: Dielectric response in the terahertz spectral range. <i>Physical Review B</i> , 2006, 74, .	3.2	27
22	Gold-dotted hydroxyapatite nanoparticles as multifunctional platforms for medical applications. <i>RSC Advances</i> , 2015, 5, 69184-69195.	3.6	27
23	Effect of electrode alterations on the a.c. behaviour of Li ₂ O ⁺ -ZnO humidity sensors. <i>Sensors and Actuators B: Chemical</i> , 1995, 27, 312-314.	7.8	24
24	Calcium phosphate granules for use as a 5-Fluorouracil delivery system. <i>Ceramics International</i> , 2009, 35, 1587-1594.	4.8	24
25	Influence of the Strain on the Electrical Resistance of Zinc Oxide Doped Thin Film Deposited on Polymer Substrates. <i>Advanced Engineering Materials</i> , 2002, 4, 610-612.	3.5	23
26	Establishing the Domain Structure of (K _{0.5} Na _{0.5})NbO ₃ Single Crystals by Piezoforce-Response Microscopy. <i>Science of Advanced Materials</i> , 2014, 6, 426-433.	0.7	23
27	Dielectric properties of porous Ba _{0.997} La _{0.003} Ti _{0.45} O ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 1999, 19, 1077-1080.	5.7	22
28	A Computational Study of the Properties and Surface Interactions of Hydroxyapatite. <i>Ferroelectrics</i> , 2013, 449, 94-101.	0.6	22
29	Texture development and dielectric properties of SrBi ₂ Ta ₂ O ₉ ceramics processed by templated grain growth. <i>Journal of the European Ceramic Society</i> , 2005, 25, 2453-2456.	5.7	21
30	Dielectric Properties of Relaxor Ceramics BBN. <i>Ferroelectrics</i> , 2007, 353, 149-153.	0.6	20
31	Transmission Electron Microscopy of Mn-doped KNN Ceramics. <i>Microscopy and Microanalysis</i> , 2013, 19, 99-100.	0.4	20
32	Growth of Incipient Ferroelectric KTaO ₃ Single Crystals by a Modified Self-Flux Solution Method. <i>Crystal Growth and Design</i> , 2010, 10, 3397-3404.	3.0	17
33	Structure, dielectric and ferroelectric anisotropy of Sr ^x CaxBi ₄ Ti ₅ O ₁₈ ceramics. <i>Materials Research Bulletin</i> , 2011, 46, 432-437.	5.2	17
34	Silicon carbide alloys produced by hot wire, hot wire plasma-assisted and plasma-enhanced CVD techniques. <i>Applied Surface Science</i> , 2001, 184, 8-19.	6.1	16
35	Unleashing the Full Sustainable Potential of Thick Films of Lead-Free Potassium Sodium Niobate (K _{0.5} Na _{0.5} NbO ₃) by Aqueous Electrophoretic Deposition. <i>Langmuir</i> , 2016, 32, 5241-5249.	3.5	16
36	Complex Effect of Hydroxyapatite Nanoparticles on the Differentiation and Functional Activity of Human Pre-Osteoclastic Cells. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 3590-3600.	1.1	14

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37	Influence of Spray-dried Hydroxyapatite-5-Fluorouracil Granules on Cell Lines Derived from Tissues of Mesenchymal Origin. <i>Molecules</i> , 2008, 13, 2729-2739.	3.8	13
38	Electrical properties of SrBi ₂ Ta ₂ O ₉ single crystals grown by self-flux solution. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1535-1539.	5.7	12
39	Lattice dynamics study of high-quality strontium bismuth tantalate single crystals. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 7605-7612.	1.8	12
40	Spark plasma texturing: A strategy to enhance the electro-mechanical properties of lead-free potassium sodium niobate ceramics. <i>Applied Materials Today</i> , 2020, 19, 100566.	4.3	12
41	Diffusion processes in seeded and unseeded SBT thin films with varied stoichiometry. <i>Surface Science</i> , 2006, 600, 1780-1786.	1.9	11
42	Holistic RBS+PIXE data reanalysis of SBT thin film samples. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 261, 439-442.	1.4	11
43	Angiogenesis and healing with non-shrinking, fast degradable PLGA/CaP scaffolds in critical-sized defects in the rabbit femur with or without osteogenically induced mesenchymal stem cells. <i>Clinical Hemorheology and Microcirculation</i> , 2011, 48, 29-40.	1.7	11
44	Strain-Mediated Substrate Effect on the Dielectric and Ferroelectric Response of Potassium Sodium Niobate Thin Films. <i>Coatings</i> , 2018, 8, 449.	2.6	11
45	Cork-like filaments for Additive Manufacturing. <i>Additive Manufacturing</i> , 2020, 34, 101229.	3.0	11
46	Improving the synthesis and properties of SBT thin films by using SBT seeds. <i>Journal of the European Ceramic Society</i> , 2005, 25, 2331-2335.	5.7	8
47	Optical properties of hydrothermally synthesised and thermally annealed ZnO/ZnO ₂ composites. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8572-8584.	2.8	8
48	Effects of humidity on the electrical behaviour of Sr _{0.97} Ti _{0.97} Fe _{0.03} O _{3-δ} . <i>Journal of the European Ceramic Society</i> , 1999, 19, 769-772.	5.7	7
49	Ba-based layered ferroelectric relaxors. <i>Integrated Ferroelectrics</i> , 2001, 37, 305-313.	0.7	7
50	Ferroelectric domains and twinning in high-quality SrBi ₂ Ta ₂ O ₉ single crystals. <i>Applied Physics Letters</i> , 2006, 88, 062903.	3.3	7
51	Templated grain growth of SrBi ₂ Ta ₂ O ₉ ceramics: Mechanism of texture development. <i>Materials Research Bulletin</i> , 2008, 43, 1412-1419.	5.2	6
52	From porous to compact films by changing the onset conditions of HW-CVD process. <i>Thin Solid Films</i> , 2003, 427, 225-230.	1.8	5
53	Investigation of Domain Structure of SrBi ₂ Ta ₂ O ₉ Single Crystals via Polarized Optical and Piezoelectric Force Microscopy. <i>Integrated Ferroelectrics</i> , 2004, 62, 215-220.	0.7	5
54	Growth and characterization of ferroelectric SrBi ₂ Ta ₂ O ₉ single crystals via high-temperature self-flux solution method. <i>Physics of the Solid State</i> , 2006, 48, 537-543.	0.6	5

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55	Metal-ferroelectric thin film devices. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 1311-1315.	3.1	3
56	Structural and Electrical Characterization of Ferroelectric SrBi ₂ Nb ₂ O ₉ Single Crystals Grown by High-Temperature Self-Flux Solution. <i>Ferroelectrics</i> , 2005, 320, 43-50.	0.6	3
57	Comparing macroscopic and microscopic properties of seeded ferroelectric thin films. <i>Journal of Electroceramics</i> , 2008, 21, 193-197.	2.0	3
58	Nanoscale Characterization of Hydroxyapatite Particles by Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2008, 14, 67-70.	0.4	3
59	Computational study of hydroxyapatite properties and surface interactions. , 2012, , .		3
60	Synthesis and Characterization of SrBi ₂ Ta ₂ O ₉ Powders for Ferroelectric Applications. <i>Ferroelectrics</i> , 2003, 294, 211-220.	0.6	3
61	X-Ray Characterization and Domain Structure of High-Quality SrBi ₂ Ta ₂ O ₉ Single-Crystals Grown by Self-Flux Solution Method. <i>Integrated Ferroelectrics</i> , 2004, 68, 259-268.	0.7	2
62	“Greening” the synthesis of SrBi ₂ Ta ₂ O ₉ thin films. <i>Materials Letters</i> , 2006, 60, 28-30.	2.6	2
63	In vitro 3D assay to test angiogenic effects of human CD14 ⁺ monocytes seeded on macroporous PLGA/CaP polymers with a CaP nanostructured surface. <i>Clinical Hemorheology and Microcirculation</i> , 2008, 40, 37-50.	1.7	2
64	Influence of the (citric acid/calcium) ratio on Hap particles synthesis. <i>Microscopy and Microanalysis</i> , 2009, 15, 85-86.	0.4	2
65	Dielectric Dispersion and Distribution of the Relaxation Times of the Relaxor Ceramics BBT. <i>Ferroelectrics</i> , 2007, 353, 87-90.	0.6	1
66	Dielectric Properties of Relaxor Ceramics BBT. <i>Ferroelectrics</i> , 2007, 347, 50-54.	0.6	1
67	Rapid thermal annealing and conventional furnace effect on SrBi ₂ Ta ₂ O ₉ thin films crystallization. <i>Thin Solid Films</i> , 2009, 517, 5728-5733.	1.8	1
68	The properties of a-Si:H films deposited on Mylar substrates by hot-wire plasma assisted technique. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 30-35.	3.1	0
69	Publisher’s Note: Dynamics of the phase transitions in Bi-layered ferroelectrics with Aurivillius structure: Dielectric response in the terahertz spectral range [Phys. Rev. B74, 134105 (2006)]. <i>Physical Review B</i> , 2006, 74, .	3.2	0
70	In vitro 3D assay to test angiogenic effects of human CD14 ⁺ positive monocytes seeded on macroporous PLGA/CaP polymers with a CaP nanostructured surface. <i>Clinical Hemorheology and Microcirculation</i> , 2008, 40, 327-327.	1.7	0
71	Ferroelectric Domain Studies of KNN Single Crystals by Piezo-force and Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2012, 18, 113-114.	0.4	0
72	Compositional homogeneity of textured KNN-based ceramics. <i>Microscopy and Microanalysis</i> , 2015, 21, 126-127.	0.4	0

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73	Textured Potassium Sodium Niobate Ceramics Doped with Copper and Manganese. Microscopy and Microanalysis, 2015, 21, 37-38.	0.4	0