

Hctor Beltrn Mir

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58
papers

1,074
citations

21
h-index

29
g-index

64
ext. papers

1,217
ext. citations

4.4
avg, IF

4.17
L-index

#	Paper	IF	Citations
58	Electrical properties of Fe-doped BaTiO ₃ . <i>Journal of Materials Chemistry</i> , 2006 , 16, 1626-1633		54
57	Synthesis and electrical properties of Nb-doped BaTiO ₃ . <i>Journal of Materials Chemistry</i> , 2006 , 16, 3114-3119		53
56	Environmental study of Cr ₂ O ₃ /Al ₂ O ₃ green ceramic pigment synthesis. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 2087-2094	6	44
55	Field enhanced bulk conductivity of BaTiO ₃ : Mg ceramics. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5335		42
54	Phase transition hysteresis and anomalous Curie-Weiss behavior of ferroelectric tetragonal tungsten bronzes Ba ₂ RETi ₂ Nb ₃ O ₁₅ :RE=Nd,Sm. <i>Journal of Applied Physics</i> , 2008 , 104, 104118	2.5	40
53	Electrical properties of ferroelectric BaTi ₂ O ₅ and dielectric Ba ₆ Ti ₁₇ O ₄₀ ceramics. <i>Journal of Applied Physics</i> , 2005 , 97, 084104	2.5	37
52	Environmental-friendly yellow pigment based on Tb and M (M = Ca or Ba) co-doped Y ₂ O ₃ . <i>Journal of the European Ceramic Society</i> , 2013 , 33, 3359-3368	6	36
51	Field enhanced bulk conductivity of acceptor-doped BaTi _{1-x} CaxO _{3-x} ceramics. <i>Applied Physics Letters</i> , 2010 , 97, 062907	3.4	36
50	Oxygen loss, semiconductivity, and positive temperature coefficient of resistance behavior in undoped cation-stoichiometric BaTiO ₃ ceramics. <i>Journal of Applied Physics</i> , 2005 , 98, 094102	2.5	35
49	Influence of the precursors on the formation and the properties of ZnFe ₂ O ₄ . <i>Journal of the European Ceramic Society</i> , 1999 , 19, 363-372	6	34
48	New red-shade environmental-friendly multifunctional pigment based on Tb and Fe doped Y ₂ Zr ₂ O ₇ for ceramic applications and cool roof coatings. <i>Dyes and Pigments</i> , 2016 , 133, 33-40	4.6	33
47	Towards the scale-up of the formation of nanoparticles on AgWO ₃ with bactericidal properties by femtosecond laser irradiation. <i>Scientific Reports</i> , 2018 , 8, 1884	4.9	32
46	Voltage-Dependent Low-Field Bulk Resistivity in BaTiO ₃ :Zn Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 500-505	3.8	32
45	Sol-Gel Synthesis and Characterization of Pb(Mg _{1/3} Nb _{2/3})O ₃ (PMN) Ferroelectric Perovskite. <i>Chemistry of Materials</i> , 2000 , 12, 400-405	9.6	27
44	Theoretical and Experimental Insight on Ag ₂ CrO ₄ Microcrystals: Synthesis, Characterization, and Photoluminescence Properties. <i>Inorganic Chemistry</i> , 2016 , 55, 8961-70	5.1	27
43	Synthesis, structural characterization, and electrical properties of new oxygen-deficient tetragonal tungsten bronzes Ba ₂ NdTi _(2+x) Nb _(3-x) O _(15-x/2) . <i>Inorganic Chemistry</i> , 2013 , 52, 1729-36	5.1	26
42	Pigments based on Cr and Sb doped TiO ₂ prepared by microemulsion-mediated solvothermal synthesis for inkjet printing on ceramics. <i>Dyes and Pigments</i> , 2015 , 116, 106-113	4.6	26

41	Tailoring the Bactericidal Activity of Ag Nanoparticles/AgWO Composite Induced by Electron Beam and Femtosecond Laser Irradiation: Integration of Experiment and Computational Modeling.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 824-837	4.1	25
40	Ag Nanoparticles/AgWO Composite Formed by Electron Beam and Femtosecond Irradiation as Potent Antifungal and Antitumor Agents. <i>Scientific Reports</i> , 2019 , 9, 9927	4.9	24
39	Field-enhanced bulk conductivity and resistive-switching in Ca-doped BiFeO ₃ ceramics. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19408-16	3.6	22
38	Optimization of Praseodymium-Doped Cerium Pigment Synthesis Temperature. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 425-430	3.8	22
37	Structural properties and self-activated photoluminescence emissions in hydroxyapatite with distinct particle shapes. <i>Ceramics International</i> , 2018 , 44, 236-245	5.1	21
36	Voltage-Dependent Bulk Resistivity of SrTiO ₃ :Mg Ceramics. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2815-2824	3.8	21
35	Improvement in varistor properties of CaCu ₃ Ti ₄ O ₁₂ ceramics by chromium addition. <i>Journal of Materials Science and Technology</i> , 2020 , 41, 12-20	9.1	19
34	Enhanced Conductivity and Nonlinear Voltage-Current Characteristics of Nonstoichiometric BaTiO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2951-2962	3.8	18
33	Atmosphere- and Voltage-Dependent Electronic Conductivity of Oxide-Ion-Conducting ZrYO Ceramics. <i>Inorganic Chemistry</i> , 2017 , 56, 7081-7088	5.1	17
32	Influence of the Matrix in the Optical Response of Organic-Inorganic Hybrid Materials Doped with Europium(III). <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 977-980	2.3	17
31	Environmental-friendly red-orange ceramic pigment based on Pr and Fe co-doped Y ₂ Zr ₂ O ₇ . <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2210-2217	6	17
30	A novel approach to obtain highly intense self-activated photoluminescence emissions in hydroxyapatite nanoparticles. <i>Journal of Solid State Chemistry</i> , 2017 , 249, 64-69	3.3	16
29	Spinel-rock salt transformation in LiCoMnO. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20140991	2.4	16
28	Laser and electron beam-induced formation of Ag/Cr structures on AgCrO. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 6101-6111	3.6	15
27	Laser-induced formation of bismuth nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13693-13696	3.6	15
26	Polymorphism of BaTiO ₃ Acceptor Doped with Mn ³⁺ , Fe ³⁺ , and Ti ³⁺ . <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2364-2366	3.8	15
25	A Study of the Method of Synthesis and Chromatic Properties of the Cr-SnO ₂ Pigment. <i>European Journal of Inorganic Chemistry</i> , 2002 , 2002, 2694-2700	2.3	14
24	From Complex Inorganic Oxides to Ag-Bi Nanoalloy: Synthesis by Femtosecond Laser Irradiation. <i>ACS Omega</i> , 2018 , 3, 9880-9887	3.9	13

23	Nanocomposite ceramics based on La-doped BaTi ₂ O ₅ and BaTiO ₃ with high temperature-independent permittivity and low dielectric loss. <i>Journal of Electroceramics</i> , 2007 , 18, 277-282	1.5	13
22	Influence of the precursors on the formation and properties of the Fe _x Cr _{2-x} O ₃ solid solution. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 1363-1370	6	11
21	Laser/Electron Irradiation on Indium Phosphide (InP) Semiconductor: Promising Pathways to In Situ Formation of Indium Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800237	3.1	11
20	Non-ohmic phenomena in Mn-doped BaTiO ₃ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2267-2272	1.6	10
19	Field-induced p-n transition in yttria-stabilized zirconia. <i>Scientific Reports</i> , 2019 , 9, 18538	4.9	10
18	AgVO Decorated by Hydroxyapatite (Ca ₅ (PO) ₄ (OH)): Tuning Its Photoluminescence Emissions and Bactericidal Activity. <i>Inorganic Chemistry</i> , 2019 , 58, 5900-5913	5.1	9
17	Proof-of-Concept Studies Directed toward the Formation of Metallic Ag Nanostructures from Ag ₃ PO ₄ Induced by Electron Beam and Femtosecond Laser. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1800533	3.1	9
16	Internal barrier layer capacitor, nearest neighbor hopping, and variable range hopping conduction in Ba _{1-x} Sr _x TiO ₃ nanoceramics. <i>Journal of Materials Science</i> , 2016 , 51, 7440-7450	4.3	9
15	Designing biocompatible and multicolor fluorescent hydroxyapatite nanoparticles for cell-imaging applications. <i>Materials Today Chemistry</i> , 2019 , 14, 100211	6.2	7
14	Structural and optical properties of ZnS/MgNb ₂ O ₆ heterostructures. <i>Superlattices and Microstructures</i> , 2015 , 79, 180-192	2.8	6
13	Preparation and Characterization of Compositions Based on PbO-MgO-Nb ₂ O ₅ Using the Sol-Gel Method. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 1061-1065	2.3	6
12	Comparison of the electrical properties of the new conductor Pr _{0.5} Bi _{0.05} Li _{0.35} TiO ₃ prepared by sol-gel and ceramic methods. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 1924-1927	1.3	6
11	Ferroelectric Behavior of Pb(Mg _{1/3} Nb _{2/3})O ₃ (PMN) Obtained by the Sol-Gel Method. <i>Chemistry of Materials</i> , 2001 , 13, 415-419	9.6	5
10	Tuning the optical and photoluminescence properties of high efficient Eu ³⁺ -doped KY ₃ F ₁₀ phosphors by different synthetic approaches. <i>Optics and Laser Technology</i> , 2021 , 136, 106734	4.2	5
9	Study of the effect of formamide and N,N-dimethylformamide on the synthesis of CdS nanoparticles in a SiO ₂ matrix by sol-gel method. <i>Solid State Sciences</i> , 1999 , 1, 351-364	3.4	4
8	Study of the role of praseodymium and iron in an environment-friendly reddish orange pigment based on Fe doped Pr ₂ Zr ₂ O ₇ : A multifunctional material. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 155841	5.7	3
7	Site-selective symmetries of Eu ³⁺ -doped BaTiO ₃ ceramics: a structural elucidation by optical spectroscopy. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13976-13985	7.1	3
6	Toward Expanding the Optical Response of Ag ₂ CrO ₄ and Bi ₂ O ₃ by Their Laser-Mediated Heterojunction. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26404-26414	3.8	2

5	A new series of environment-friendly reddish inorganic pigments based on AFeO ₃ (A' = Ln, Y) with high NIR solar reflectance. <i>Journal of Materiomics</i> , 2021 , 7, 1061-1073	6.7	2
4	Polymorphism and Dielectric Properties of Nb-Doped BaTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2007 , 91, 071018043821002-???	3.8	1
3	Síntesis, caracterización y evaluación eléctrica de circonatos de bario dopados con lantánidos trivalentes. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2014 , 53, 60-68	1.9	1
2	The unexplored β phase of KY ₃ F ₁₀ : toward novel Eu ³⁺ -doped nanoplates with a super-diamond structure for optical applications. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 6940-6940	5.5	0
1	Unraveling the superior role of dicarboxylic acids as surface chelators in Eu ³⁺ -doped yttrium fluorides: A systematic modulation of the crystal phases and morphologies for highly tuned optical performance. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160847	5.7	0