

HÃ©ctor BeltrÃ¡n Mir

List of Publications by Year in descending order

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64
papers

1,365
citations

236612

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34
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all docs

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docs citations

64
times ranked

1411
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of the oxidation states on the electrical properties of Fe-doped Pr ₂ Zr ₂ O ₇ pyrochlore. Journal of Materials Research and Technology, 2022, 16, 201-215.	2.6	7
2	The influence of Ca ²⁺ and Zn ²⁺ doping on the development of sustainable pigments based on GdFeO ₃ perovskite: From a reddish colour towards a pure black. Ceramics International, 2022, , .	2.3	1
3	The pH-dependent reactions in the sonochemical synthesis of luminescent fluorides: The quest for the formation of KY ₃ F ₁₀ crystal phases. Ultrasonics Sonochemistry, 2022, 87, 106059.	3.8	2
4	Tuning the optical and photoluminescence properties of high efficient Eu ³⁺ -doped KY ₃ F ₁₀ phosphors by different synthetic approaches. Optics and Laser Technology, 2021, 136, 106734.	2.2	9
5	AN INSIDE VIEW OF INFRARED THERMOMETERS: AN APPROACH TO THE CHEMISTRY OF MATERIALS FOR HIGH LEVEL EDUCATION STUDENTS. , 2021, , .		0
6	A new series of environment-friendly reddish inorganic pigments based on AFeO ₃ (A= Ln, Y) with high NIR solar reflectance. Journal of Materiomics, 2021, 7, 1061-1073.	2.8	12
7	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. Journal of Alloys and Compounds, 2021, 883, 160847.	2.8	1
8	The unexplored $\hat{\Gamma}$ -phase of KY ₃ F ₁₀ : toward novel Eu ³⁺ -doped nanoplates with a $\hat{\Gamma}$ -super-diamond TM structure for optical applications. Journal of Materials Research and Technology, 2021, 15, 6940-6940.	2.6	3
9	Improvement in varistor properties of CaCu ₃ Ti ₄ O ₁₂ ceramics by chromium addition. Journal of Materials Science and Technology, 2020, 41, 12-20.	5.6	35
10	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. Journal of Alloys and Compounds, 2020, 845, 155841.	2.8	9
11	Toward Expanding the Optical Response of Ag ₂ CrO ₄ and Bi ₂ O ₃ by Their Laser-Mediated Heterojunction. Journal of Physical Chemistry C, 2020, 124, 26404-26414.	1.5	2
12	A WAY TO UNDERSTAND THE SOLID-STATE CHEMISTRY FOR HIGH LEVEL EDUCATION STUDENTS: THE CASE OF A CERAMIC PIGMENT. EDULEARN Proceedings, 2020, , .	0.0	1
13	Ag Nanoparticles/ $\hat{\Gamma}$ -Ag ₂ WO ₄ Composite Formed by Electron Beam and Femtosecond Irradiation as Potent Antifungal and Antitumor Agents. Scientific Reports, 2019, 9, 9927.	1.6	40
14	$\hat{\Gamma}$ -AgVO ₃ Decorated by Hydroxyapatite (Ca ₁₀ (PO ₄) ₆ (OH) ₂): Tuning Its Photoluminescence Emissions and Bactericidal Activity. Inorganic Chemistry, 2019, 58, 5900-5913.	1.9	22
15	Proof of Concept Studies Directed toward the Formation of Metallic Ag Nanostructures from Ag ₃ PO ₄ Induced by Electron Beam and Femtosecond Laser. Particle and Particle Systems Characterization, 2019, 36, 1800533.	1.2	10
16	Laser and electron beam-induced formation of Ag/Cr structures on Ag ₂ CrO ₄ . Physical Chemistry Chemical Physics, 2019, 21, 6101-6111.	1.3	20
17	Designing biocompatible and multicolor fluorescent hydroxyapatite nanoparticles for cell-imaging applications. Materials Today Chemistry, 2019, 14, 100211.	1.7	14
18	Site-selective symmetries of Eu ³⁺ -doped BaTiO ₃ ceramics: a structural elucidation by optical spectroscopy. Journal of Materials Chemistry C, 2019, 7, 13976-13985.	2.7	12

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19	Field-induced p-n transition in yttria-stabilized zirconia. <i>Scientific Reports</i> , 2019, 9, 18538.	1.6	16
20	Tailoring the Bactericidal Activity of Ag Nanoparticles/ Ag_2WO_4 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.	2.3	30
21	OPTICAL SMOKE DETECTOR: AN APPROACH TO SEMICONDUCTORS FIELD FOR HIGH LEVEL EDUCATION STUDENTS. <i>EDULEARN Proceedings</i> , 2019, , .	0.0	0
22	Laser-induced formation of bismuth nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13693-13696.	1.3	17
23	Towards the scale-up of the formation of nanoparticles on Ag_2WO_4 with bactericidal properties by femtosecond laser irradiation. <i>Scientific Reports</i> , 2018, 8, 1884.	1.6	42
24	Structural properties and self-activated photoluminescence emissions in hydroxyapatite with distinct particle shapes. <i>Ceramics International</i> , 2018, 44, 236-245.	2.3	36
25	Environmental-friendly red-orange ceramic pigment based on Pr and Fe co-doped $\text{Y}_2\text{Zr}_2\text{O}_7$. <i>Journal of the European Ceramic Society</i> , 2018, 38, 2210-2217.	2.8	32
26	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.	1.2	12
27	From Complex Inorganic Oxides to Ag^{Bi} Nanoalloy: Synthesis by Femtosecond Laser Irradiation. <i>ACS Omega</i> , 2018, 3, 9880-9887.	1.6	19
28	Atmosphere- and Voltage-Dependent Electronic Conductivity of Oxide-Ion-Conducting $\text{Zr}_{1-x}\text{Y}_x\text{O}_{2-x/2}$. <i>Ceramics. Inorganic Chemistry</i> , 2017, 56, 7081-7088.	1.9	22
29	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.	1.4	24
30	New red-shade environmental-friendly multifunctional pigment based on Tb and Fe doped $\text{Y}_2\text{Zr}_2\text{O}_7$ for ceramic applications and cool roof coatings. <i>Dyes and Pigments</i> , 2016, 133, 33-40.	2.0	46
31	Internal barrier layer capacitor, nearest neighbor hopping, and variable range hopping conduction in $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ nanoceramics. <i>Journal of Materials Science</i> , 2016, 51, 7440-7450.	1.7	11
32	Theoretical and Experimental Insight on Ag_2CrO_4 Microcrystals: Synthesis, Characterization, and Photoluminescence Properties. <i>Inorganic Chemistry</i> , 2016, 55, 8961-8970.	1.9	31
33	Spinel \rightarrow rock salt transformation in LiCoMnO_4 . <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20140991.	1.0	21
34	Structural and optical properties of $\text{ZnS}/\text{MgNb}_2\text{O}_6$ heterostructures. <i>Superlattices and Microstructures</i> , 2015, 79, 180-192.	1.4	6
35	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.	2.0	28
36	Voltage-Dependent Bulk Resistivity of SrTiO_3 : Mg Ceramics. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2815-2824.	1.9	29

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37	Field-enhanced bulk conductivity and resistive-switching in Ca-doped BiFeO ₃ ceramics. Physical Chemistry Chemical Physics, 2014, 16, 19408-19416.	1.3	29
38	Síntesis, caracterización y evaluación eléctrica de circonatos de bario dopados con lantánidos trivalentes. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2014, 53, 60-68.	0.9	1
39	Synthesis, Structural Characterization, and Electrical Properties of New Oxygen-Deficient Tetragonal Tungsten Bronzes Ba ₂ NdTi _{2+x} Nb ₃ O ₁₅ . Inorganic Chemistry, 2013, 52, 1729-1736.	1.9	28
40	Environmental-friendly yellow pigment based on Tb and M (M=Ca or Ba) co-doped Y ₂ O ₃ . Journal of the European Ceramic Society, 2013, 33, 3359-3368.	2.8	38
41	Non-ohmic phenomena in Mn-doped BaTiO ₃ . Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2267-2272.	0.8	11
42	Enhanced Conductivity and Nonlinear Voltage-Current Characteristics of Nonstoichiometric BaTiO ₃ Ceramics. Journal of the American Ceramic Society, 2011, 94, 2951-2962.	1.9	23
43	Voltage-Dependent Low-Field Bulk Resistivity in BaTiO ₃ :Zn Ceramics. Journal of the American Ceramic Society, 2010, 93, 500-505.	1.9	35
44	Field enhanced bulk conductivity of acceptor-doped BaTi _{1-x} CaxO ₃ ceramics. Applied Physics Letters, 2010, 97, 062907.	1.5	41
45	Field enhanced bulk conductivity of BaTiO ₃ : Mg ceramics. Journal of Materials Chemistry, 2010, 20, 5335.	6.7	48
46	Polymorphism of BaTiO ₃ Acceptor Doped with Mn ³⁺ , Fe ³⁺ , and Ti ³⁺ . Journal of the American Ceramic Society, 2008, 91, 2364-2366.	1.9	18
47	Phase transition hysteresis and anomalous Curie-Weiss behavior of ferroelectric tetragonal tungsten bronzes Ba ₂ RETi ₂ Nb ₃ O ₁₅ :RE=Nd,Sm. Journal of Applied Physics, 2008, 104, .	1.1	44
48	Polymorphism and Dielectric Properties of Nb-Doped BaTiO ₃ . Journal of the American Ceramic Society, 2007, 91, 071018043821002-???	1.9	2
49	Nanocomposite ceramics based on La-doped BaTi ₂ O ₅ and BaTiO ₃ with high temperature-independent permittivity and low dielectric loss. Journal of Electroceramics, 2007, 18, 277-282.	0.8	16
50	Synthesis and electrical properties of Nb-doped BaTiO ₃ . Journal of Materials Chemistry, 2006, 16, 3114-3119.	6.7	57
51	Electrical properties of Fe-doped BaTiO ₃ . Journal of Materials Chemistry, 2006, 16, 1626-1633.	6.7	59
52	Influence of the precursors on the formation and properties of the Fe _x Cr _{2-x} O ₃ solid solution. Journal of the European Ceramic Society, 2006, 26, 1363-1370.	2.8	12
53	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. Physica Status Solidi (B): Basic Research, 2005, 242, 1924-1927.	0.7	9
54	Oxygen loss, semiconductivity, and positive temperature coefficient of resistance behavior in undoped cation-stoichiometric BaTiO ₃ ceramics. Journal of Applied Physics, 2005, 98, 094102.	1.1	40

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55	Electrical properties of ferroelectric BaTi2O5 and dielectric Ba6Ti17O40 ceramics. Journal of Applied Physics, 2005, 97, 084104.	1.1	37
56	Environmental study of Cr2O3-Al2O3 green ceramic pigment synthesis. Journal of the European Ceramic Society, 2004, 24, 2087-2094.	2.8	50
57	Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 26, 977-980.	1.1	20
58	Preparation and Characterization of Compositions Based on PbO-MgO-Nb2O5 Using the Sol-Gel Method. Journal of Sol-Gel Science and Technology, 2003, 26, 1061-1065.	1.1	6
59	Optimization of Praseodymium-Doped Cerium Pigment Synthesis Temperature. Journal of the American Ceramic Society, 2003, 86, 425-430.	1.9	28
60	A Study of the Method of Synthesis and Chromatic Properties of the Cr-SnO2 Pigment. European Journal of Inorganic Chemistry, 2002, 2002, 2694-2700.	1.0	16
61	Ferroelectric Behavior of Pb(Mg1/3Nb2/3)O3 (PMN) Obtained by the Sol-Gel Method. Chemistry of Materials, 2001, 13, 415-419.	3.2	6
62	Sol-Gel Synthesis and Characterization of Pb(Mg1/3Nb2/3)O3(PMN) Ferroelectric Perovskite. Chemistry of Materials, 2000, 12, 400-405.	3.2	29
63	Influence of the precursors on the formation and the properties of ZnFe2O4. Journal of the European Ceramic Society, 1999, 19, 363-372.	2.8	35
64	Study of the effect of formamide and N,N-dimethylformamide on the synthesis of CdS nanoparticles in a SiO2 matrix by sol-gel method. Solid State Sciences, 1999, 1, 351-364.	1.5	5