

Fernando Aguado

List of Publications by Year in descending order

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papers

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623574

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docs citations

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996
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the local environment of the engineered nanoclay Mica-4 under hydrothermal conditions using Eu ³⁺ as a luminescent probe. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166086.	2.8	3
2	Adsorptive Capture of Ionic and Non-Ionic Pollutants Using a Versatile Hybrid Amphiphilic-Nanomica. <i>Nanomaterials</i> , 2021, 11, 3167.	1.9	1
3	A Comparative Study on Luminescence Properties of Y ₂ O ₃ : Pr ³⁺ Nanocrystals Prepared by Different Synthesis Methods. <i>Nanomaterials</i> , 2020, 10, 1574.	1.9	13
4	Structural Correlations in Jahn-Teller Systems of Mn ³⁺ and Cu ²⁺ : Unraveling Local Structures through Spectroscopic Techniques. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22692-22703.	1.5	5
5	Dye-doped biodegradable nanoparticle SiO ₂ coating on zinc- and iron-oxide nanoparticles to improve biocompatibility and for <i>in vivo</i> imaging studies. <i>Nanoscale</i> , 2020, 12, 6164-6175.	2.8	22
6	Eu ³⁺ Luminescence in High Charge Mica: An In Situ Probe for the Encapsulation of Radioactive Waste in Geological Repositories. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7559-7565.	4.0	22
7	Pressure-induced spin transition and site-selective metallization in CoCl ₂ . <i>Scientific Reports</i> , 2019, 9, 5448.	1.6	11
8	Tunable interlayer hydrophobicity in a nanostructured high charge organo-mica. <i>Microporous and Mesoporous Materials</i> , 2018, 263, 77-85.	2.2	7
9	Volume and pressure dependencies of the electronic, vibrational, and crystal structures of Cs_2CoC_4 . <i>Physical Review B</i> , 2017, 95, .	1.1	4
10	Highly efficient photoluminescence from isolated Eu ³⁺ ions embedded in high-charge mica. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10360-10368.	2.7	10
11	Phase transition sequences in tetramethylammonium tetrachlorometallates by X-ray diffraction and spectroscopic measurements. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017, 73, 844-855.	0.5	8
12	Nano-ZnO leads to tubulin microtubule assembly and actin bundling, triggering cytoskeletal catastrophe and cell necrosis. <i>Nanoscale</i> , 2016, 8, 10963-10973.	2.8	57
13	Crystal-Field Theory Validity Through Local (and Bulk) Compressibilities in CoF ₂ and KCoF ₃ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 18788-18793.	1.5	17
14	Bulk and Molecular Compressibilities of Organic-Inorganic Hybrids [(CH ₃) ₃ N] ₂ MnX ₄ (X = Cl, Br); Role of Intermolecular Interactions. <i>Inorganic Chemistry</i> , 2014, 53, 10708-10715.	1.9	33
15	Synthesis of porous clay heterostructures from high charge mica-type aluminosilicates. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1213-1219.	5.2	21
16	Pressure effects on Jahn-Teller distortion in perovskites: The roles of local and bulk compressibilities. <i>Physical Review B</i> , 2012, 85, .	1.1	42
17	Unraveling the Coordination Geometry of Copper(II) Ions in Aqueous Solution through Absorption Intensity. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9335-9338.	7.2	18
18	Effect of pressure on the band gap and the local FeO environment in BiFeO ₃ . <i>Physical Review B</i> , 2012, 85, .	1.1	53

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19	A-cation effect on the compressibility of ACoF_3 perovskites. High Pressure Research, 2009, 29, 525-529.	0.4	3
20	The crystal structure of CaIrO_3 post-perovskite revisited. Zeitschrift für Kristallographie, 2009, 224, 345-350.	1.1	19
21	The ferroelastic phase transition and non- 180° domain switching in La-modified lead zirconate titanate ferroelectric ceramics. Journal of Physics Condensed Matter, 2009, 21, 295901.	0.7	2
22	High-pressure behaviour of KMnF_3 perovskites. High Pressure Research, 2008, 28, 539-544.	0.4	33
23	Discontinuous temperature-dependent macroscopic strain due to ferroelastic domain switching and structural phase transitions in barium strontium titanate. Applied Physics Letters, 2007, 91, 192908.	1.5	4
24	Structural Correlation in Jahn-Teller Systems of Cu^{2+} and Mn^{3+} under Pressure. Journal of the Physical Society of Japan, 2007, 76, 1-4.	0.7	41
25	Pressure-induced Jahn-Teller suppression and simultaneous high spin to low spin transition in the layered perovskite CsMnF_4 . Physical Review B, 2007, 76, .	1.1	40
26	Correlations between structure and optical properties in Jahn-Teller Mn^{3+} fluorides: A study of TlMnF_4 and NaMnF_4 under pressure. Journal of Chemical Physics, 2003, 118, 10867-10875.	1.2	24
27	Photocatalytic activity of undoped and Mn- and Co-doped TiO_2 nanocrystals incorporated in enamel coatings on stainless steel. Reaction Chemistry and Engineering, 0, , .	1.9	5