Fernando Aguado

List of Publications by Year
in descending order

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27	518	623574	642610
papers	citations	14 h-index	23 g-index

27	27	27	996
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nano-ZnO leads to tubulin macrotube assembly and actin bundling, triggering cytoskeletal catastrophe and cell necrosis. Nanoscale, 2016, 8, 10963-10973.	2.8	57
2	Effect of pressure on the band gap and the local FeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>environment in BiFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 85, .	1.1	53
3	Pressure effects on Jahn-Teller distortion in perovskites: The roles of local and bulk compressibilities. Physical Review B, 2012, 85, .	1.1	42
4	Structural Correlation in Jahnâ€“Teller Systems of Cu²⁺and Mn³⁺under Pressure. Journal of the Physical Society of Japan, 2007, 76, 1-4.	0.7	41
5	Pressure-Induced Jahn-Teller Suppression and Simultaneous High-Spin to Low-Spin Transition in the layered perovskite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Cs</mml:mi><mml:mi mathvariant="normal">Mn</mml:mi><mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2007, 76, .	1.1	40
6	High-pressure behaviour of KMF₃perovskites. High Pressure Research, 2008, 28, 539-544.	0.4	33
7	Bulk and Molecular Compressibilities of Organicâ€“Inorganic Hybrids [(CH₃)₄N]₂MnX₄ (X = Cl, Br); Role of Intermolecular Interactions. Inorganic Chemistry, 2014, 53, 10708-10715.	1.9	33
8	Correlations between structure and optical properties in Jahnâ€“Teller Mn3+ fluorides: A study of TlMnF4 and NaMnF4 under pressure. Journal of Chemical Physics, 2003, 118, 10867-10875.	1.2	24
9	Eu³⁺ Luminescence in High Charge Mica: An In Situ Probe for the Encapsulation of Radioactive Waste in Geological Repositories. ACS Applied Materials & Interfaces, 2019, 11, 7559-7565.	4.0	22
10	Dye-doped biodegradable nanoparticle SiO₂ coating on zinc- and iron-oxide nanoparticles to improve biocompatibility and for in vivo imaging studies. Nanoscale, 2020, 12, 6164-6175.	2.8	22
11	Synthesis of porous clay heterostructures from high charge mica-type aluminosilicates. Journal of Materials Chemistry A, 2013, 1, 1213-1219.	5.2	21
12	The crystal structure of CaIrO₃ post-perovskite revisited. Zeitschrift FÃ¼r Kristallographie, 2009, 224, 345-350.	1.1	19
13	Unraveling the Coordination Geometry of Copper(II) Ions in Aqueous Solution through Absorption Intensity. Angewandte Chemie - International Edition, 2012, 51, 9335-9338.	7.2	18
14	Crystal-Field Theory Validity Through Local (and Bulk) Compressibilities in CoF₂ and KCoF₃. Journal of Physical Chemistry C, 2016, 120, 18788-18793.	1.5	17
15	A Comparative Study on Luminescence Properties of Y2O3: Pr3+ Nanocrystals Prepared by Different Synthesis Methods. Nanomaterials, 2020, 10, 1574.	1.9	13
16	Pressure-induced spin transition and site-selective metallization in CoCl2. Scientific Reports, 2019, 9, 5448.	1.6	11
17	Highly efficient photoluminescence from isolated Eu³⁺ ions embedded in high-charge mica. Journal of Materials Chemistry C, 2017, 5, 10360-10368.	2.7	10
18	Phase transition sequences in tetramethylammonium tetrachlorometallates by X-ray diffraction and spectroscopic measurements. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 844-855.	0.5	8

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19	Tunable interlayer hydrophobicity in a nanostructured high charge organo-mica. Microporous and Mesoporous Materials, 2018, 263, 77-85.	2.2	7
20	Structural Correlations in Jahnâ€“Teller Systems of Mn³⁺ and Cu²⁺: Unraveling Local Structures through Spectroscopic Techniques. Journal of Physical Chemistry C, 2020, 124, 22692-22703.	1.5	5
21	Photocatalytic activity of undoped and Mn- and Co-doped TiO2 nanocrystals incorporated in enamel coatings on stainless steel. Reaction Chemistry and Engineering, 0, , .	1.9	5
22	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
23	Volume and pressure dependences of the electronic, vibrational, and crystal structures of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">s</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>CoC</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>: Identification of a pressure-induced piezochromic phase at high pressure. Physical Review B, 2017, 95, .	1.1	4
24	A-cation effect on the compressibility of ACoF₃perovskites. High Pressure Research, 2009, 29, 525-529.	0.4	3
25	Exploring the local environment of the engineered nanoclay Mica-4 under hydrothermal conditions using Eu3+ as a luminescent probe. Journal of Alloys and Compounds, 2022, 921, 166086.	2.8	3
26	The ferroelastic phase transition and non- 180Â° domain switching in La-modified lead zirconate titanate ferroelectric ceramics. Journal of Physics Condensed Matter, 2009, 21, 295901.	0.7	2
27	Adsorptive Capture of Ionic and Non-Ionic Pollutants Using a Versatile Hybrid Amphiphilic-Nanomica. Nanomaterials, 2021, 11, 3167.	1.9	1