Amador GarcÃ-a-Fuente

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4583760/publications.pdf

Version: 2024-02-01

35 papers	674 citations	686830 13 h-index	580395 25 g-index
35 all docs	35 docs citations	35 times ranked	1062 citing authors

#	Article	IF	Citations
1	Density functional theory based screening of ternary alkali-transition metal borohydrides: A computational material design project. Journal of Chemical Physics, 2009, 131, 014101.	1.2	77
2	Mechanically controlled quantum interference in graphene break junctions. Nature Nanotechnology, 2018, 13, 1126-1131.	15.6	73
3	Comparativeab initiostudy of the structural, electronic, and magnetic trends of isoelectronic late<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>4</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math>transition metal clusters. Physical Review B, 2008, 78, .	1.1	59
4	Spin-state dependent conductance switching in single molecule-graphene junctions. Nanoscale, 2018, 10, 7905-7911.	2.8	46
5	CISNE: An accurate description of dose-effect and synergism in combination therapies. Scientific Reports, 2018, 8, 4964.	1.6	42
6	Calculation of the 4f1â†'4f05d1 transitions in Ce3+-doped systems by Ligand Field Density Functional Theory. Chemical Physics Letters, 2013, 588, 260-266.	1.2	36
7	On a blue emitting phosphor Na₃RbMg₇(PO₄)₆:Eu²⁺ showing ultra high thermal stability. Journal of Materials Chemistry C, 2019, 7, 6012-6021.	2.7	34
8	What will freestanding borophene nanoribbons look like? An analysis of their possible structures, magnetism and transport properties. Physical Chemistry Chemical Physics, 2017, 19, 1054-1061.	1.3	32
9	Hydrogen Interaction in Pdâ€"Pt Alloy Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 126-133.	1.5	28
10	Ligand field density functional theory for the prediction of future domestic lighting. Physical Chemistry Chemical Physics, 2014, 16, 14625-14634.	1.3	24
11	Effect of Ca²⁺ codoping on the Eu²⁺ luminescence properties in the Sr₂Si₅N₈ host lattice: a theoretical approach. Physical Chemistry Chemical Physics, 2015, 17, 24925-24930.	1.3	17
12	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Mo</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:m Structural transition and electronic structure of interest in spintronics. Physical Review B, 2009, 79, .	1.1	14
13	A ligand field theory-based methodology for the characterization of the Eu 2+ [Xe]4f 6 5d 1 excited states in solid state compounds. Chemical Physics Letters, 2015, 622, 120-123.	1.2	14
14	Chasing Down the Eu²⁺ Ions: The Delicate Structureâ"Property Relationships in the Ultraâ€Narrow Band Phosphor K_{1.6}Na_{2.1}Li_{0.3}[Li₃SiO₄]₄:Eu²⁺. Advanced Optical Materials, 2021, 9, 2101643.	3.6	14
15	Spin-polarized transport in hydrogen-passivated graphene and silicene nanoribbons with magnetic transition-metal substituents. Physical Chemistry Chemical Physics, 2016, 18, 22606-22616.	1.3	13
16	Impact of dimerization and stretching on the transport properties of molybdenum atomic wires. Nanotechnology, 2010, 21, 095205.	1.3	12
17	Hydrogen insertion in Pd core/Pt shell cubo-octahedral nanoparticles. Physical Review B, 2011, 83, .	1.1	12
18	Magnetic Anisotropy in â€œScorpionateâ€•Firstâ€Row Transitionâ€Metal Complexes: A Theoretical Investigation. Chemistry - A European Journal, 2015, 21, 3716-3726.	1.7	12

#	Article	IF	Citations
19	Photon cascade emission in Pr3+ doped fluorides with CaF2 structure: Application of a model for its prediction. Chemical Physics Letters, 2015, 620, 29-34.	1.2	11
20	Properties Design: Prediction and Experimental Validation of the Luminescence Properties of a New Eu^{II}â€Based Phosphor. Chemistry - A European Journal, 2018, 24, 16276-16281.	1.7	11
21	Density Functional Study of Charge Transfer at the Graphene/Ionic Liquid Interface. Journal of Physical Chemistry C, 2018, 122, 15070-15077.	1.5	11
22	Spin signatures in the electrical response of graphene nanogaps. Nanoscale, 2018, 10, 18169-18177.	2.8	10
23	A Mechanically Tunable Quantum Dot in a Graphene Break Junction. Nano Letters, 2020, 20, 4924-4931.	4.5	9
24	Structure and electronic properties of molybdenum monatomic wires encapsulated in carbon nanotubes. Journal of Physics Condensed Matter, 2011, 23, 265302.	0.7	8
25	Spinâ€“orbit effects on the structural, homotop, and magnetic configurations of small pure and Fe-doped Pt clusters. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	8
26	Borophene vs. graphene interfaces: Tuning the electric double layer in ionic liquids. Journal of Molecular Liquids, 2020, 303, 112647.	2.3	8
27	Novel Narrow Band Cyanâ€Green Phosphor LiK₇[Li₃SiO₄]₈:Eu²⁺ with Enhanced Suppression of Second Broad Band Emission. European Journal of Inorganic Chemistry, 2021, 2021, 4470-4481.	1.0	7
28	Electronic structure and transport properties of monatomic Fe chains in a vacuum and anchored to a graphene nanoribbon. Journal of Physics Condensed Matter, 2012, 24, 455304.	0.7	6
29	Spin-Crossover in Supramolecular Iron(II)â€“2,6-bis(1H-Pyrazol-1-yl)pyridine Complexes: Toward Spin-State Switchable Single-Molecule Junctions. ACS Omega, 2022, 7, 13654-13666.	1.6	6
30	Charge and spin transport properties of Mo<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:ma	1.1	5
31	2 Spin-dependent electronic conduction along zigzag graphene nanoribbons bearing adsorbed Ni and Fe nanostructures. Journal of Physics Condensed Matter, 2014, 26, 165302.	0.7	5
32	Predicting photon cascade emission in Pr3+doped fluorides. Physical Chemistry Chemical Physics, 2017, 19, 15503-15511.	1.3	4
33	Spin currents and filtering behavior in zigzag graphene nanoribbons with adsorbed molybdenum chains. Journal of Physics Condensed Matter, 2015, 27, 135301.	0.7	3
34	Tunable gap in stable arsenene nanoribbons opens the door to electronic applications. RSC Advances, 2019, 9, 11818-11823.	1.7	3
35	Structural, magnetic and conduction properties of 3d-metal monoatomic wires. Materials Research Express, 2014, 1, 026302.	0.8	0