

Jorge M Osorio-Guilln

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5929487/jorge-m-osorio-guillen-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

3,367
citations

19
h-index

58
g-index

62
ext. papers

3,558
ext. citations

3.2
avg, IF

4.75
L-index

#	Paper	IF	Citations
60	Ferromagnetism above room temperature in bulk and transparent thin films of Mn-doped ZnO. <i>Nature Materials</i> , 2003 , 2, 673-7	27	1568
59	Magnetism without magnetic ions: percolation, exchange, and formation energies of magnetism-promoting intrinsic defects in CaO. <i>Physical Review Letters</i> , 2006 , 96, 107203	7.4	285
58	Origins of the doping asymmetry in oxides: Hole doping in NiO versus electron doping in ZnO. <i>Physical Review B</i> , 2007 , 75,	3.3	182
57	Experimental and theoretical identification of a new high-pressure TiO ₂ polymorph. <i>Physical Review Letters</i> , 2001 , 87, 275501	7.4	156
56	Atomic control of conductivity versus ferromagnetism in wide-gap oxides via selective doping: V, Nb, Ta in anatase TiO ₂ . <i>Physical Review Letters</i> , 2008 , 100, 036601	7.4	141
55	Nonstoichiometry as a source of magnetism in otherwise nonmagnetic oxides: Magnetically interacting cation vacancies and their percolation. <i>Physical Review B</i> , 2007 , 75,	3.3	99
54	Electronic and optical properties of lead iodide. <i>Journal of Applied Physics</i> , 2002 , 92, 7219-7224	2.5	84
53	Role of titanium in hydrogen desorption in crystalline sodium alanate. <i>Applied Physics Letters</i> , 2005 , 86, 251913	3.4	67
52	Electronic structure of phospho-olivines Li(x)FePO ₄ (x = 0, 1) from soft-x-ray-absorption and -emission spectroscopies. <i>Journal of Chemical Physics</i> , 2005 , 123, 184717	3.9	67
51	A theoretical study of olivine LiMPO ₄ cathodes. <i>Solid State Ionics</i> , 2004 , 167, 221-227	3.3	58
50	Titanium metal at high pressure: Synchrotron experiments and ab initio calculations. <i>Physical Review B</i> , 2004 , 69,	3.3	46
49	The structure of the metallic high-pressure Fe ₃ O ₄ polymorph: experimental and theoretical study. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 7697-7706	1.8	44
48	Electronic and optical properties of γ -Al ₂ O ₃ from ab initio theory. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 2891-2900	1.8	42
47	Origin of transition metal clustering tendencies in GaAs based dilute magnetic semiconductors. <i>Applied Physics Letters</i> , 2005 , 86, 172504	3.4	41
46	First-principles equation of state and phase stability of niobium pentoxide. <i>Computational Materials Science</i> , 2014 , 81, 133-140	3.2	40
45	Calculation of surface stress for fcc transition metals. <i>Physical Review B</i> , 2003 , 68,	3.3	38
44	X-ray spectroscopic study of the charge state and local ordering of room-temperature ferromagnetic Mn-doped ZnO. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 172202	1.8	28

43	TiO ₂ n ₁ Magn ₁ phases studied using density functional theory. <i>Physical Review B</i> , 2014 , 90,	3.3	26
42	Bonding and elastic properties of superconducting MgB ₂ . <i>Solid State Communications</i> , 2002 , 123, 257-262	2.6	24
41	A search for the ground state structure and the phase stability of tantalum pentoxide. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 035801	1.8	19
40	Impurity-related polarizability and photoionization-cross section in double quantum wells under electric fields and hydrostatic pressure. <i>Superlattices and Microstructures</i> , 2009 , 45, 590-597	2.8	19
39	Nonstoichiometry and hole doping in NiO 2010 ,		19
38	Optical properties of 4H ₂ SiC. <i>Journal of Applied Physics</i> , 2002 , 91, 2099-2103	2.5	19
37	Electronic structure and ionic diffusion of green battery cathode material: Mg ₂ Mo ₆ S ₈ . <i>Solid State Ionics</i> , 2014 , 261, 17-20	3.3	17
36	Pressure-induced metal-insulator transition and absence of magnetic order in FeGa ₃ from a first-principles study. <i>Physical Review B</i> , 2012 , 86,	3.3	17
35	Electronic, dielectric, and optical properties of the B phase of niobium pentoxide and tantalum pentoxide by first-principles calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 1644-1650	1.3	17
34	The elastic and bonding properties of the sulvanite compounds: A first-principles study by local and semi-local functionals. <i>Physica B: Condensed Matter</i> , 2011 , 406, 3788-3793	2.8	17
33	A first-principles study of the electronic structure of the sulvanite compounds. <i>Physica B: Condensed Matter</i> , 2012 , 407, 985-991	2.8	16
32	Pressure-induced structural transformations in the Mott insulator FeI ₂ . <i>Physical Review B</i> , 2003 , 68,	3.3	16
31	Pressure effects on the structure and vibrations of β - and γ -C ₃ N ₄ . <i>Physical Review B</i> , 2004 , 70,	3.3	15
30	Structural and Electronic Properties of Cu ₂ MnSnS ₄ from Experiment and First-Principles Calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800743	1.3	13
29	Assessing photocatalytic power of g-C ₃ N ₄ for solar fuel production: A first-principles study involving quasi-particle theory and dispersive forces. <i>Journal of Chemical Physics</i> , 2015 , 143, 094705	3.9	11
28	Structural stability of (Ga,Mn)As from first principles: Random alloys, ordered compounds, and superlattices. <i>Physical Review B</i> , 2006 , 74,	3.3	11
27	High-temperature ferromagnetism in Cu-doped GaP by SQUID magnetometry and ferromagnetic resonance measurements. <i>Physical Review B</i> , 2006 , 74,	3.3	10
26	Phononic and thermodynamic properties of the sulvanite compounds: A first-principles study. <i>Computational Materials Science</i> , 2016 , 113, 275-279	3.2	9

25	Gd ³⁺ spin-lattice relaxation via multi-band conduction electrons in Y(1-x)Gd(x)In ₃ : an electron spin resonance study. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 175501	1.8	7
24	Emergence of competing magnetic interactions induced by Ge doping in the semiconductor FeGa ₃ . <i>Physical Review B</i> , 2016 , 94,	3.3	7
23	Multiband electronic characterization of the complex intermetallic cage system Y _{1-x} Gd _x Co ₂ Zn ₂₀ . <i>Physical Review B</i> , 2015 , 92,	3.3	6
22	Unusual Room Temperature Ferromagnetism in Bulk Sintered GaP Doped with Copper. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 3043-3045	2	6
21	Electronic structure of a thermoelectric material: CsBi ₄ Te ₆ . <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2274-2276	3.9	6
20	Structural and dynamical properties of the Cu ₄₆ Zr ₅₄ alloy in crystalline, amorphous and liquid state: A molecular dynamic study. <i>Physica B: Condensed Matter</i> , 2010 , 405, 4970-4977	2.8	5
19	Dimension-dependent band alignment and excitonic effects in graphitic carbon nitride: a many-body perturbation and time-dependent density functional theory study. <i>RSC Advances</i> , 2017 , 7, 44997-45002	3.7	4
18	Semiclassical transport properties of IrGa: a promising thermoelectric material. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 085701	1.8	4
17	Conduction electron spin resonance in AlB ₂ . <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 216001	1.8	4
16	Enhancement of interactions between magnetic ions in semiconductors due to declustering. <i>Physical Review B</i> , 2006 , 74,	3.3	4
15	Structural phase transitions in heavy alkali metals under pressure. <i>ChemPhysChem</i> , 2004 , 5, 1411-5	3.2	4
14	The electronic and optical properties of the sylvanite compounds: a many-body perturbation and time-dependent density functional theory study. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 035502	1.8	4
13	Superconductivity in monocrystalline YNiSi ₃ and LuNiSi ₃ . <i>Physical Review B</i> , 2019 , 99,	3.3	3
12	Low temperature transport and thermodynamic properties of the Zintl compound Yb ₁₁ AlSb ₉ : A new Kondo lattice semiconductor. <i>Journal of Alloys and Compounds</i> , 2016 , 669, 60-65	5.7	3
11	Conduction electrons mediating the evolution from antiferromagnetic to ferromagnetic ordering in Gd(Co _{1-x} Fe _x) ₂ Zn ₂₀ (0 ≤ x ≤ 1). <i>Physical Review B</i> , 2017 , 95,	3.3	3
10	First principles calculations of the electronic and dielectric properties of BiTa ₂ O ₅ . <i>Tecnológicas</i> , 2018 , 21, 43-52	0.6	3
9	Doping quantum materials: Defects and impurities in FeGa ₃ . <i>Physical Review B</i> , 2020 , 102,	3.3	3
8	A systematic first-principles study of the tungsten trioxide polymorphs. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2290-2295	1.3	2

7	Grinding methods effects on the synthesis of Potassium-Sodium Niobate powders by oxide mixing. <i>Tecno Lógicas</i> , 2019 , 22, 15-23	0.6	2
6	New nickel-based hybrid organic/inorganic metal halide for photovoltaic applications. <i>Journal of Chemical Physics</i> , 2018 , 148, 244703	3.9	2
5	Optical and dielectric properties of ErTa_2O_5 . <i>Journal of Physics: Conference Series</i> , 2018 , 1043, 012036	0.3	1
4	Photoacoustic and transmission studies of SiC polytypes. <i>Materials Research</i> , 2003 , 6, 47-49	1.5	1
3	Elastic properties of $\text{Mg}_{(1-x)}\text{Al}_x\text{B}_2$ from first principles theory. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 5241-5250	1.8	1
2	Spectroscopy studies of 4H-SiC. <i>Materials Research</i> , 2003 , 6, 43-45	1.5	
1	CO Oxidation Catalytic Effects of Intrinsic Surface Defects in Rhombohedral LaMnO_3 . <i>ChemPhysChem</i> , 2022 , e202200152	3.2	