

Jorge M Osorio-GuillÃ©n

List of Publications by Year in descending order

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62
papers

3,790
citations

279701

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128225

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62
all docs

62
docs citations

62
times ranked

5227
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferromagnetism above room temperature in bulk and transparent thin films of Mn-doped ZnO. Nature Materials, 2003, 2, 673-677.	13.3	1,687
2	Magnetism without Magnetic Ions: Percolation, Exchange, and Formation Energies of Magnetism-Promoting Intrinsic Defects in CaO. Physical Review Letters, 2006, 96, 107203.	2.9	307
3	Origins of the doping asymmetry in oxides: Hole doping in NiO versus electron doping in ZnO. Physical Review B, 2007, 75, .	1.1	218
4	Experimental and Theoretical Identification of a New High-Pressure TiO ₂ Polymorph. Physical Review Letters, 2001, 87, 275501.	2.9	175
5	Atomic Control of Conductivity Versus Ferromagnetism in Wide-Gap Oxides Via Selective Doping: V, Nb, Ta in Anatase TiO_2 . Physical Review Letters, 2008, 100, 036601.	2.9	161
6	Nonstoichiometry as a source of magnetism in otherwise nonmagnetic oxides: Magnetically interacting cation vacancies and their percolation. Physical Review B, 2007, 75, .	1.1	109
7	Electronic and optical properties of lead iodide. Journal of Applied Physics, 2002, 92, 7219-7224.	1.1	96
8	Electronic structure of phospho-olivines Li_xFePO_4 ($x=0,1$) from soft-x-ray-absorption and -emission spectroscopies. Journal of Chemical Physics, 2005, 123, 184717.	1.2	79
9	Role of titanium in hydrogen desorption in crystalline sodium alanate. Applied Physics Letters, 2005, 86, 251913.	1.5	69
10	A theoretical study of olivine LiMPO_4 cathodes. Solid State Ionics, 2004, 167, 221-227.	1.3	67
11	The structure of the metallic high-pressure Fe_3O_4 polymorph: experimental and theoretical study. Journal of Physics Condensed Matter, 2003, 15, 7697-7706.	0.7	65
12	First-principles equation of state and phase stability of niobium pentoxide. Computational Materials Science, 2014, 81, 133-140.	1.4	59
13	Titanium metal at high pressure: Synchrotron experiments and ab initio calculations. Physical Review B, 2004, 69, .	1.1	50
14	Electronic and optical properties of Al_2O_3 from ab initio theory. Journal of Physics Condensed Matter, 2004, 16, 2891-2900.	0.7	47
15	Origin of transition metal clustering tendencies in GaAs based dilute magnetic semiconductors. Applied Physics Letters, 2005, 86, 172504.	1.5	42
16	Calculation of surface stress for fcc transition metals. Physical Review B, 2003, 68, .	1.1	39
17	Ti_nO_{2n} phases studied using density functional theory. Physical Review B, 2014, 90, .	1.1	33
18	X-ray spectroscopic study of the charge state and local ordering of room-temperature ferromagnetic Mn-doped ZnO. Journal of Physics Condensed Matter, 2007, 19, 172202.	0.7	31

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19	A search for the ground state structure and the phase stability of tantalum pentoxide. Journal of Physics Condensed Matter, 2016, 28, 035801.	0.7	27
20	Bonding and elastic properties of superconducting MgB ₂ . Solid State Communications, 2002, 123, 257-262.	0.9	26
21	Impurity-related polarizability and photoionization-cross section in double quantum wells under electric fields and hydrostatic pressure. Superlattices and Microstructures, 2009, 45, 590-597.	1.4	26
22	Structural and Electronic Properties of Cu ₂ MnSnS ₄ from Experiment and First-Principles Calculations. Physica Status Solidi (B): Basic Research, 2019, 256, 1800743.	0.7	25
23	Nonstoichiometry and hole doping in NiO. AIP Conference Proceedings, 2010, , .	0.3	24
24	Electronic, dielectric, and optical properties of the B phase of niobium pentoxide and tantalum pentoxide by first-principles calculations. Physica Status Solidi (B): Basic Research, 2013, 250, 1644-1650.	0.7	24
25	Electronic structure and ionic diffusion of green battery cathode material: Mg ₂ Mo ₆ S ₈ . Solid State Ionics, 2014, 261, 17-20.	1.3	23
26	Optical properties of 4H-SiC. Journal of Applied Physics, 2002, 91, 2099-2103.	1.1	20
27	The elastic and bonding properties of the sulvanite compounds: A first-principles study by local and semi-local functionals. Physica B: Condensed Matter, 2011, 406, 3788-3793.	1.3	20
28	Pressure-induced structural transformations in the Mott insulator FeI ₂ . Physical Review B, 2003, 68, .	1.1	19
29	Pressure-induced metal-insulator transition and absence of magnetic order in FeGa ₃ from a first-principles study. Physical Review B, 2012, 86, .	1.1	19
30	A first-principles study of the electronic structure of the sulvanite compounds. Physica B: Condensed Matter, 2012, 407, 985-991.	1.3	17
31	Pressure effects on the structure and vibrations of $\sqrt{2} \times \sqrt{2} \times \sqrt{2}$ - and $\sqrt{3} \times \sqrt{3} \times \sqrt{3}$ -C ₃ N ₄ . Physical Review B, 2004, 70, .	1.1	15
32	Phononic and thermodynamic properties of the sulvanite compounds: A first-principles study. Computational Materials Science, 2016, 113, 275-279.	1.4	14
33	Structural stability of (Ga,Mn)As from first principles: Random alloys, ordered compounds, and superlattices. Physical Review B, 2006, 74, .	1.1	11
34	Assessing photocatalytic power of g-C ₃ N ₄ for solar fuel production: A first-principles study involving quasi-particle theory and dispersive forces. Journal of Chemical Physics, 2015, 143, 094705.	1.2	11
35	High-temperature ferromagnetism in Cu-doped GaP by SQUID magnetometry and ferromagnetic resonance measurements. Physical Review B, 2006, 74, .	1.1	10
36	Gd ³⁺ spin-lattice relaxation via multi-band conduction electrons in Y _{1-x} Gd _x In ₃ : an electron spin resonance study. Journal of Physics Condensed Matter, 2014, 26, 175501.	0.7	10

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37	Multiband electronic characterization of the complex intermetallic cage system $\text{YFe}_2\text{Zn}_2\text{O}_7$. Physical Review B, 2015, 92, .	1.1	10
38	Emergence of competing magnetic interactions induced by Ge doping in the semiconductor FeGa_3 . Physical Review B, 2016, 94, .	1.1	9
39	Electronic structure of a thermoelectric material: CsBi_4Te_6 . Journal of Physics and Chemistry of Solids, 2008, 69, 2274-2276.	1.9	7
40	Conduction electrons mediating the evolution from antiferromagnetic to ferromagnetic ordering in $\text{Gd}(\text{Co}_{1-y}\text{Fe}_y)_2\text{Zn}_2\text{O}_7$. Physical Review B, 2017, 95, .	1.1	7
41	Semiclassical transport properties of IrGa_3 : a promising thermoelectric material. Journal of Physics Condensed Matter, 2018, 30, 085701.	0.7	7
42	Superconductivity in monocrystalline YNiSi_3 and LuNiSi_3 . Physical Review B, 2019, 99, .	1.1	7
43	Unusual Room Temperature Ferromagnetism in Bulk Sintered GaP Doped with Copper. IEEE Transactions on Magnetics, 2007, 43, 3043-3045.	1.2	6
44	Dimension-dependent band alignment and excitonic effects in graphitic carbon nitride: a many-body perturbation and time-dependent density functional theory study. RSC Advances, 2017, 7, 44997-45002.	1.7	6
45	The electronic and optical properties of the sulvanite compounds: a many-body perturbation and time-dependent density functional theory study. Journal of Physics Condensed Matter, 2018, 30, 035502.	0.7	6
46	Structural and dynamical properties of the $\text{Cu}_{46}\text{Zr}_{54}$ alloy in crystalline, amorphous and liquid state: A molecular dynamic study. Physica B: Condensed Matter, 2010, 405, 4970-4977.	1.3	5
47	Conduction electron spin resonance in AlB_2 . Journal of Physics Condensed Matter, 2013, 25, 216001.	0.7	5
48	Low temperature transport and thermodynamic properties of the Zintl compound $\text{Yb}_{11}\text{AlSb}_9$: A new Kondo lattice semiconductor. Journal of Alloys and Compounds, 2016, 669, 60-65.	2.8	5
49	New nickel-based hybrid organic/inorganic metal halide for photovoltaic applications. Journal of Chemical Physics, 2018, 148, 244703.	1.2	5
50	Doping quantum materials: Defects and impurities in CaFe_2As_2 . Physical Review B, 2020, 102, .	1.5	5
51	First principles calculations of the electronic and dielectric properties of Ta_2O_5 . Tecnológicas, 2018, 21, 43-52.	0.1	5
52	Structural Phase Transitions in Heavy Alkali Metals Under Pressure. ChemPhysChem, 2004, 5, 1411-1415.	1.0	4
53	Enhancement of interactions between magnetic ions in semiconductors due to declustering. Physical Review B, 2006, 74, .	1.1	4
54	Optical and dielectric properties of Ta_2O_5 . Journal of Physics: Conference Series, 2018, 1043, 012036.	0.3	3

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55	Grinding methods effects on the synthesis of Potassium-Sodium Niobate powders by oxide mixing. Tecno Lógicas, 2019, 22, 15-23.	0.1	3
56	A systematic first-principles study of the tungsten trioxide polymorphs. Physica Status Solidi (B): Basic Research, 2015, 252, 2290-2295.	0.7	2
57	Photoacoustic and transmission studies of SiC polytypes. Materials Research, 2003, 6, 47-49.	0.6	1
58	Elastic properties of Mg(1-x)AlxB2 from first principles theory. Journal of Physics Condensed Matter, 2004, 16, 5241-5250.	0.7	1
59	Un estudio teórico de la estructura electrónica y las propiedades dieléctricas de B-Nb2O5. Tecno Lógicas, 2011, , 103.	0.1	1
60	CO Oxidation Catalytic Effects of Intrinsic Surface Defects in Rhombohedral LaMnO ₃ . ChemPhysChem, 2022, 23, e202200152.	1.0	1
61	Spectroscopy studies of 4H-SiC. Materials Research, 2003, 6, 43-45.	0.6	0
62	Propiedades piezoeléctricas del Pentóxido de Niobio y Pentóxido de Tantalio. Tecno Lógicas, 2017, 20, 43-51.	0.1	0