

# Jorge M Osorio-GuillÃ©n

## List of Publications by Year in descending order

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62  
papers

3,790  
citations

279701

23  
h-index

128225

60  
g-index

62  
all docs

62  
docs citations

62  
times ranked

5227  
citing authors

#	ARTICLE	IF	CITATIONS
1	CO Oxidation Catalytic Effects of Intrinsic Surface Defects in Rhombohedral LaMnO <sub>3</sub> . ChemPhysChem, 2022, 23, e202200152.	1.0	1
2	Doping quantum materials: Defects and impurities in $\text{FeCaSi}$ . Physical Review B, 2020, 102, .		
3	Superconductivity in monocrystalline $\text{YNiSi}$ and $\text{LuNiSi}$ . Physical Review B, 2019, 99, .	1.1	7
4	Structural and Electronic Properties of Cu <sub>2</sub> MnSnS <sub>4</sub> from Experiment and First-Principles Calculations. Physica Status Solidi (B): Basic Research, 2019, 256, 1800743.	0.7	25
5	Grinding methods effects on the synthesis of Potassium-Sodium Niobate powders by oxide mixing. Tecnológicas, 2019, 22, 15-23.	0.1	3
6	Semiclassical transport properties of IrGa <sub>3</sub> : a promising thermoelectric material. Journal of Physics Condensed Matter, 2018, 30, 085701.	0.7	7
7	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
8	New nickel-based hybrid organic/inorganic metal halide for photovoltaic applications. Journal of Chemical Physics, 2018, 148, 244703.	1.2	5
9	Optical and dielectric properties of $\text{Ir-Ta}_2\text{O}_5$ . Journal of Physics: Conference Series, 2018, 1043, 012036.	0.3	3
10	First principles calculations of the electronic and dielectric properties of $\text{Ir-Ta}_2\text{O}_5$ . Tecnológicas, 2018, 21, 43-52.	0.1	5
11	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
12	Conduction electrons mediating the evolution from antiferromagnetic to ferromagnetic ordering in $\text{Gd}(\text{Co}_{1-y}\text{Fe}_y)_2\text{Zn}_2\text{O}(\text{O}_{\text{vac}})$ . Physical Review B, 2017, 95, .	1.1	7
13	Propiedades piezoelásticas del Pentóxido de Niobio y Pentóxido de Tantalio. Tecnológicas, 2017, 20, 43-51.	0.1	0
14	Emergence of competing magnetic interactions induced by Ge doping in the semiconductor $\text{FeGa}_3$ . Physical Review B, 2016, 94, .	1.1	9
15	Phononic and thermodynamic properties of the sulvanite compounds: A first-principles study. Computational Materials Science, 2016, 113, 275-279.	1.4	14
16	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
17	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
18	Multiband electronic characterization of the complex intermetallic cage system $\text{Y}_x\text{X}_{1-x}$ . Physical Review B, 2015, 92, .	1.1	10



#	ARTICLE	IF	CITATIONS
37	Nonstoichiometry as a source of magnetism in otherwise nonmagnetic oxides: Magnetically interacting cation vacancies and their percolation. <i>Physical Review B</i> , 2007, 75, .	1.1	109
38	Origins of the doping asymmetry in oxides: Hole doping in NiO versus electron doping in ZnO. <i>Physical Review B</i> , 2007, 75, .	1.1	218
39	Unusual Room Temperature Ferromagnetism in Bulk Sintered GaP Doped with Copper. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 3043-3045.	1.2	6
40	Magnetism without Magnetic Ions: Percolation, Exchange, and Formation Energies of Magnetism-Promoting Intrinsic Defects in CaO. <i>Physical Review Letters</i> , 2006, 96, 107203.	2.9	307
41	Enhancement of interactions between magnetic ions in semiconductors due to declustering. <i>Physical Review B</i> , 2006, 74, .	1.1	4
42	High-temperature ferromagnetism in Cu-doped GaP by SQUID magnetometry and ferromagnetic resonance measurements. <i>Physical Review B</i> , 2006, 74, .	1.1	10
43	Structural stability of (Ga,Mn)As from first principles: Random alloys, ordered compounds, and superlattices. <i>Physical Review B</i> , 2006, 74, .	1.1	11
44	Origin of transition metal clustering tendencies in GaAs based dilute magnetic semiconductors. <i>Applied Physics Letters</i> , 2005, 86, 172504.	1.5	42
45	Electronic structure of phospho-olivines $\text{Li}_x\text{FePO}_4$ ( $x=0,1$ ) from soft-x-ray-absorption and -emission spectroscopies. <i>Journal of Chemical Physics</i> , 2005, 123, 184717.	1.2	79
46	Role of titanium in hydrogen desorption in crystalline sodium alanate. <i>Applied Physics Letters</i> , 2005, 86, 251913.	1.5	69
47	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.	0.7	1
48	Pressure effects on the structure and vibrations of $\text{Li}^{2-}$ and $\text{C}_3\text{N}_4$ . <i>Physical Review B</i> , 2004, 70, .	1.1	15
49	Electronic and optical properties of $\text{Al}_2\text{O}_3$ from ab initio theory. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 2891-2900.	0.7	47
50	Structural Phase Transitions in Heavy Alkali Metals Under Pressure. <i>ChemPhysChem</i> , 2004, 5, 1411-1415.	1.0	4
51	A theoretical study of olivine $\text{LiMPO}_4$ cathodes. <i>Solid State Ionics</i> , 2004, 167, 221-227.	1.3	67
52	Titanium metal at high pressure: Synchrotron experiments and ab initio calculations. <i>Physical Review B</i> , 2004, 69, .	1.1	50
53	Ferromagnetism above room temperature in bulk and transparent thin films of Mn-doped ZnO. <i>Nature Materials</i> , 2003, 2, 673-677.	13.3	1,687
54	The structure of the metallic high-pressure $\text{Fe}_3\text{O}_4$ polymorph: experimental and theoretical study. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 7697-7706.	0.7	65

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55	Pressure-induced structural transformations in the Mott insulator FeI <sub>2</sub> . Physical Review B, 2003, 68, .	1.1	19
56	Calculation of surface stress for fcc transition metals. Physical Review B, 2003, 68, .	1.1	39
57	Photoacoustic and transmission studies of SiC polytypes. Materials Research, 2003, 6, 47-49.	0.6	1
58	Spectroscopy studies of 4H-SiC. Materials Research, 2003, 6, 43-45.	0.6	0
59	Optical properties of 4H-SiC. Journal of Applied Physics, 2002, 91, 2099-2103.	1.1	20
60	Electronic and optical properties of lead iodide. Journal of Applied Physics, 2002, 92, 7219-7224.	1.1	96
61	Bonding and elastic properties of superconducting MgB <sub>2</sub> . Solid State Communications, 2002, 123, 257-262.	0.9	26
62	Experimental and Theoretical Identification of a New High-Pressure TiO <sub>2</sub> Polymorph. Physical Review Letters, 2001, 87, 275501.	2.9	175