Raul Escamilla

List of Publications by Year
in descending order

68 papers	936 citations	516710 16 h-index	477307 29 g-index
69 all docs	69 docs citations	69 times ranked	1219 citing authors

#	Article	IF	Citations
1	Theoretical study of Sr2Fe1â€“xNb1+xO6 system: Electronic and magnetic properties and crystal structure. Journal of Physics and Chemistry of Solids, 2022, 162, 110499.	4.0	1
2	Effects of the phase transition on the structural, mechanical, electronic and vibrational properties of the CaSnO3 perovskite: Study under hydrostatic pressure. Journal of Physics and Chemistry of Solids, 2022, 163, 110594.	4.0	5
3	Effect of hydrostatic pressure on the structural, mechanical, vibrational and electronic properties of the solid solution W1â^'xTaxB3. European Physical Journal B, 2022, 95, .	1.5	1
4	Phase transition and mechanical, vibrational, and electronic properties of NbC under pressure. Physica B: Condensed Matter, 2021, 602, 412594.	2.7	3
5	Effect of Y-doped NbB_{2.5} on structural and superconducting properties. Physica Scripta, 2021, 96, 065805.	2.5	1
6	A First-Principles Investigation on the Electronic and Mechanical Properties of 1T TiSe₂ Multilayers for Energy Storage. Journal of the Electrochemical Society, 2021, 168, 030531.	2.9	9
7	Exposed Surface and Confinement Effects on the Electronic, Magnetic, and Mechanical Properties of LaTiOâ‚ƒ Slabs. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	5
8	Effect of Mo substitution on the structure and electrical properties of Gd2Ru2O7 pyrochlore. Physica B: Condensed Matter, 2021, 619, 413227.	2.7	0
9	Structure, elastic, and electronic properties of the Nb2SnC1â^'xBx phases MAX: ab initio calculations. Materials Today Communications, 2021, , 102840.	1.9	0
10	Spectroscopic characterization of iron bismuth (antimony/tantalum) pyrochlores synthesized by the molten salts method. Ceramics International, 2021, 47, 31983-31989.	4.8	4
11	Ab initio calculations of the elastic, vibrational, electronic properties, and electron-phonon constant of superconducting YB₆ compound under low pressure. Physica Scripta, 2021, 96, 125850.	2.5	2
12	DFT study on the electronic and magnetic properties of the Sr2FeNbO6 compound. Materials Today Communications, 2020, 23, 100844.	1.9	9
13	Pressure effect on the mechanical and electronic properties of the tungsten triboride doped with iron: a first-principles study. European Physical Journal B, 2020, 93, 1.	1.5	2
14	Effect of partial substitution of iron by tungsten on the crystal structure and electronic properties of WB3. Physica B: Condensed Matter, 2020, 583, 412026.	2.7	4
15	LDA+U study of the electronic and magnetic properties of the Sr2FeMo1-xNbxO6 compound. Materials Today Communications, 2020, 23, 101155.	1.9	7
16	LDA+U study of hydrostatic pressure effect on double perovskite Sr₂FeNbO₆: crystal structure, mechanical and electronic properties. Physica Scripta, 2020, 95, 115704.	2.5	5
17	First-principles calculations of the structural, elastic, vibrational and electronic properties of YB6 compound under pressure. European Physical Journal B, 2019, 92, 1.	1.5	10
18	Crystalline Structure Study of Double Perovskites Sr2FeNb1-xMoxO6 Synthesized by the Molten Salts Method. Materials Today: Proceedings, 2019, 14, 160-163.	1.8	5

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19	Ab initio study of structural, elastic, and electronic properties of Mo3.46B12 under high pressure. European Physical Journal B, 2019, 92, 1.	1.5	6
20	Ab Initio study of the crystal structure and the elastic properties of the Mo0.85Nb0.15B3 compound under pressure. MRS Advances, 2019, 4, 3453-3461.	0.9	1
21	Ti-doped YMnO3: Magnetic and thermal studies at low temperature and dielectric properties at high temperature. Journal of Applied Physics, 2019, 125, .	2.5	9
22	Magnetic and Magnetoresistive Behavior of the Ferromagnetic Heavy Fermion YbNi2. Journal of Superconductivity and Novel Magnetism, 2019, 32, 987-991.	1.8	0
23	Effect of Co partial substitution on the valence state of Ru in the Gd2â^'xCo x Ru2O7 pyrochlore. Journal of Materials Science, 2018, 53, 8067-8073.	3.7	8
24	Effect of Al-doped YCrO3 on structural, electronic and magnetic properties. Journal of Magnetism and Magnetic Materials, 2018, 453, 36-43.	2.3	19
25	Reversal magnetization, spin reorientation, and exchange bias in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>YCr</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> doped with praseodymium. Physical Review Materials, 2018, 2, .	2.4	28
26	Critical temperature and upper critical field of Li 2 Pd 3â^'x Cu x B (x=0.0, 0.1, 0.2) superconductors. Solid State Communications, 2017, 255-256, 11-14.	1.9	5
27	Evidence of mixed valence Cr $$^{+3}$$ + 3 /Cr $$^{+4}$$ + 4 in Y $$_{1-x}$$ 1 - x Ca $$_x$$ x CrO $$_3$$ 3 polycrystalline ceramics by X-ray photoelectron spectroscopy. Journal of Materials Science, 2017, 52, 2889-2894.	3.7	6
28	XPS study of the electronic density of states in the superconducting Mo2B and Mo2BC compounds. Journal of Materials Science, 2016, 51, 6411-6418.	3.7	18
29	First-principles study of the structural, elastic, vibrational, thermodynamic and electronic properties of the Mo2B intermetallic under pressure. Journal of Molecular Structure, 2016, 1125, 350-357.	3.6	7
30	High-Pressure and Electronic Band Structure Studies on Mo $$_{2}$$ 2 BC. Journal of Low Temperature Physics, 2015, 179, 158-165.	1.4	3
31	Structural and mechanic properties of RFeO3 with R = Y, Eu and La perovskites: a first-principles calculation. European Physical Journal D, 2015, 69, 1.	1.3	10
32	Chemical pressure in SmNiC2â^'xBxcompounds: evidence of a quantum critical behavior. Journal of Physics Condensed Matter, 2014, 26, 455602.	1.8	4
33	Pressure effect on the structural, elastic and electronic properties of Nb2AC (A=S and In) phases; ab initio study. Computational Materials Science, 2014, 81, 184-190.	3.0	19
34	Electronic structure of Co-substituted FeSe superconductor probed by soft x-ray spectroscopy and density functional theory. Physical Review B, 2014, 90, .	3.2	6
35	Electronic Structure of FeSe_{1â€“x}Te_x Studied by X-ray Spectroscopy and Density Functional Theory. Journal of Physical Chemistry C, 2014, 118, 25150-25157.	3.1	2
36	Synthesis by molten salt method of the AFeO3 system (A=La, Gd) and its structural, vibrational and internal hyperfine magnetic field characterization. Physica B: Condensed Matter, 2014, 443, 90-94.	2.7	61

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37	X-ray photoelectron spectroscopy studies of the electronic structure of superconducting Nb2SnC and Nb2SC. Journal of Alloys and Compounds, 2013, 579, 516-520.	5.5	23
38	Valence band XPS and UPS studies of non-stoichiometric superconducting NbB2 +x. Superconductor Science and Technology, 2012, 25, 015002.	3.5	4
39	First-principles calculations of structural, elastic and electronic properties of Nb2SnC under pressure. Computational Materials Science, 2012, 55, 142-146.	3.0	37
40	Mechanism of small-polaron formation in the biferroic YCrO3 doped with calcium. Materials Chemistry and Physics, 2012, 133, 1011-1017.	4.0	43
41	Elastic properties, Debye temperature, density of states and electronâ€“phonon coupling of ZrB12 under pressure. Solid State Communications, 2012, 152, 249-252.	1.9	6
42	Ferromagnetic behavior of high-purity ZnO nanoparticles. Solid State Communications, 2011, 151, 97-101.	1.9	43
43	Effects of Substituting Se with Te in the FeSe Compound: Structural, Magnetization and MÃ¶ssbauer Studies. Journal of Superconductivity and Novel Magnetism, 2010, 23, 551-557.	1.8	27
44	Comparative study of the core level photoemission of the ZrB2 and ZrB12. Physica C: Superconductivity and Its Applications, 2010, 470, 456-460.	1.2	11
45	X-ray diffraction and Raman spectroscopy on Gd2(Ti2â^'yTey)O7 prepared at high pressure and high temperature. Journal of Alloys and Compounds, 2010, 504, 446-451.	5.5	14
46	Superconducting niobium nitride films deposited by unbalanced magnetron sputtering. Thin Solid Films, 2008, 516, 8768-8773.	1.8	30
47	Correlation between the transition temperature and the superfluid density in BCS superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>NbB</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review B, 2008, 77, .	3.2	4
48	Elastic properties of superconducting NbB_{2+x}obtained from first-principles calculations. Journal of Physics Condensed Matter, 2007, 19, 376209.	1.8	17
49	Kinetic and Reaction Mechanism of CO2Sorption on Li4SiO4:Â Study of the Particle Size Effect. Industrial & Engineering Chemistry Research, 2007, 46, 2407-2412.	3.7	207
50	Effect of substrate bias voltage on corrosion of TiN/Ti multilayers deposited by magnetron sputtering. Applied Surface Science, 2007, 253, 7192-7196.	6.1	40
51	Crystal Structure and Ferroelectric Properties of SBT Doped with Praseodymium. Ferroelectrics, 2006, 334, 135-145.	0.6	1
52	Synthesis and study of the crystallographic and magnetic structure ofSeCoO3. Physical Review B, 2006, 73, .	3.2	21
53	MÃ¶ssbauer study of the (Ru1-xFex)Sr2GdCu2O8-Î´ system and two of its possible impurities: SrRuO3 and Gd2CuO4. Hyperfine Interactions, 2006, 171, 293-303.	0.5	3
54	X-ray photoelectron spectroscopy studies of non-stoichiometric superconducting NbB2+x. Superconductor Science and Technology, 2006, 19, 623-628.	3.5	24

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55	STRUCTURAL CHARACTERIZATION AND DIELECTRIC PROPERTIES OF Gd DOPED SrBi2Ta2O9. Integrated Ferroelectrics, 2006, 83, 113-120.	0.7	0
56	Crystal structure and relaxor-type transition in SrBi2Ta2O9 doped with praseodymium. Journal of Physics Condensed Matter, 2006, 18, 10509-10520.	1.8	16
57	Study of the crystal structure, superconducting and magnetic properties of Ru1â^'xFexSr2GdCu2O8. Superconductor Science and Technology, 2005, 18, 798-804.	3.5	5
58	Structural analysis, magnetic and transport properties of the (Ru1â^'xCox)Sr2GdCu2O8system. Superconductor Science and Technology, 2005, 18, 1003-1009.	3.5	4
59	Crystalline structure and the superconducting properties of NbB2+x. Journal of Physics Condensed Matter, 2004, 16, 5979-5990.	1.8	36
60	Effect of Fe substitution in the structure and superconducting properties of the (Y0.8Pr0.2)Ba2Cu4â^'xFexO8 system. Physica C: Superconductivity and Its Applications, 2003, 385, 373-382.	1.2	1
61	The effect of Mn substitution on the structure and magnetic properties of Se(Cu1ÂxMnx)O3solid solution. Journal of Physics Condensed Matter, 2003, 15, 1951-1961.	1.8	5
62	High-Pressure Synthesis of SeCu 1â^' x Zn x O 3 Perovskites. High Pressure Research, 2002, 22, 551-554.	1.2	0
63	Suppression of Tc in the (Y0.9Ca0.1)Ba2Cu4$minus$xFexO8 system. Superconductor Science and Technology, 2002, 15, 1074-1080.	3.5	2
64	Crystal Chemistry and Magnetic Properties of SeCu1â^'xZnxO3(0â‰¤xâ‰¤1) Perovskites. Journal of Solid State Chemistry, 2002, 168, 149-155.	2.9	13
65	Temperature evolution of the internal magnetic hyperfine field of Metglas: amorphous and crystallized phases. Journal of Magnetism and Magnetic Materials, 2000, 221, 327-337.	2.3	4
66	Site occupancy and Tc degradation in iron substituted YBa2(Cu1â^'xFex)4O8+Î´. Physica C: Superconductivity and Its Applications, 1998, 301, 315-325.	1.2	10
67	About the ionic state of iron in the Cu sites of the Nd2â^'xCexCu2â^'yFeyO4â^'Î´ superconductor. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1045-1046.	1.2	0
68	Iron substitution in the Cu sites of the YBa2Cu4â^'xFexOÎ´ structure studied by MÃ¶ssbauer spectroscopy. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1051-1052.	1.2	0