

Raul Escamilla

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5686451/publications.pdf>

Version: 2024-02-01

68
papers

936
citations

516215

16
h-index

476904

29
g-index

69
all docs

69
docs citations

69
times ranked

1219
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical study of Sr ₂ Fe _{1-x} Nb _{1+x} O ₆ system: Electronic and magnetic properties and crystal structure. Journal of Physics and Chemistry of Solids, 2022, 162, 110499.	1.9	1
2	Effects of the phase transition on the structural, mechanical, electronic and vibrational properties of the CaSnO ₃ perovskite: Study under hydrostatic pressure. Journal of Physics and Chemistry of Solids, 2022, 163, 110594.	1.9	5
3	Effect of hydrostatic pressure on the structural, mechanical, vibrational and electronic properties of the solid solution W _{1-x} TaxB ₃ . European Physical Journal B, 2022, 95, .	0.6	1
4	Phase transition and mechanical, vibrational, and electronic properties of NbC under pressure. Physica B: Condensed Matter, 2021, 602, 412594.	1.3	3
5	Effect of Y-doped NbB _{2.5} on structural and superconducting properties. Physica Scripta, 2021, 96, 065805.	1.2	1
6	A First-Principles Investigation on the Electronic and Mechanical Properties of 1T TiSe ₂ Multilayers for Energy Storage. Journal of the Electrochemical Society, 2021, 168, 030531.	1.3	9
7	Exposed Surface and Confinement Effects on the Electronic, Magnetic, and Mechanical Properties of LaTiO _f Slabs. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	5
8	Effect of Mo substitution on the structure and electrical properties of Gd ₂ Ru ₂ O ₇ pyrochlore. Physica B: Condensed Matter, 2021, 619, 413227.	1.3	0
9	Structure, elastic, and electronic properties of the Nb ₂ SnC _{1-x} B _x phases MAX: ab initio calculations. Materials Today Communications, 2021, , 102840.	0.9	0
10	Spectroscopic characterization of iron bismuth (antimony/tantalum) pyrochlores synthesized by the molten salts method. Ceramics International, 2021, 47, 31983-31989.	2.3	4
11	Ab initio calculations of the elastic, vibrational, electronic properties, and electron-phonon constant of superconducting YB ₆ compound under low pressure. Physica Scripta, 2021, 96, 125850.	1.2	2
12	DFT study on the electronic and magnetic properties of the Sr ₂ FeNbO ₆ compound. Materials Today Communications, 2020, 23, 100844.	0.9	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.	0.6	2
14	Effect of partial substitution of iron by tungsten on the crystal structure and electronic properties of WB ₃ . Physica B: Condensed Matter, 2020, 583, 412026.	1.3	4
15	LDA+U study of the electronic and magnetic properties of the Sr ₂ FeMo _{1-x} Nb _x O ₆ compound. Materials Today Communications, 2020, 23, 101155.	0.9	7
16	LDA+U study of hydrostatic pressure effect on double perovskite Sr ₂ FeNbO ₆ : crystal structure, mechanical and electronic properties. Physica Scripta, 2020, 95, 115704.	1.2	5
17	First-principles calculations of the structural, elastic, vibrational and electronic properties of YB ₆ compound under pressure. European Physical Journal B, 2019, 92, 1.	0.6	10
18	Crystalline Structure Study of Double Perovskites Sr ₂ FeNb _{1-x} MoxO ₆ Synthesized by the Molten Salts Method. Materials Today: Proceedings, 2019, 14, 160-163.	0.9	5

#	ARTICLE	IF	CITATIONS
19	Ab initio study of structural, elastic, and electronic properties of Mo _{3.46} B ₁₂ under high pressure. European Physical Journal B, 2019, 92, 1.	0.6	6
20	Ab Initio study of the crystal structure and the elastic properties of the Mo _{0.85} Nb _{0.15} B ₃ compound under pressure. MRS Advances, 2019, 4, 3453-3461.	0.5	1
21	Ti-doped YMnO ₃ : Magnetic and thermal studies at low temperature and dielectric properties at high temperature. Journal of Applied Physics, 2019, 125, .	1.1	9
22	Magnetic and Magnetoresistive Behavior of the Ferromagnetic Heavy Fermion YbNi ₂ . Journal of Superconductivity and Novel Magnetism, 2019, 32, 987-991.	0.8	0
23	Effect of Co partial substitution on the valence state of Ru in the Gd _{2-x} Co _x Ru ₂ O ₇ pyrochlore. Journal of Materials Science, 2018, 53, 8067-8073.	1.7	8
24	Effect of Al-doped YCrO ₃ on structural, electronic and magnetic properties. Journal of Magnetism and Magnetic Materials, 2018, 453, 36-43.	1.0	19
25	Reversal magnetization, spin reorientation, and exchange bias in YCrO_3 doped with praseodymium. Physical Review Materials, 2018, 2, .	0.9	28
26	Critical temperature and upper critical field of Li ₂ Pd _{3-x} Cu _x B (x=0.0, 0.1, 0.2) superconductors. Solid State Communications, 2017, 255-256, 11-14.	0.9	5
27	Evidence of mixed valence Cr ⁺³ + 3/Cr ⁺⁴ + 4 in Y _{1-x} Ca _x CrO ₃ polycrystalline ceramics by X-ray photoelectron spectroscopy. Journal of Materials Science, 2017, 52, 2889-2894.	1.7	6
28	XPS study of the electronic density of states in the superconducting Mo ₂ B and Mo ₂ BC compounds. Journal of Materials Science, 2016, 51, 6411-6418.	1.7	18
29	First-principles study of the structural, elastic, vibrational, thermodynamic and electronic properties of the Mo ₂ B intermetallic under pressure. Journal of Molecular Structure, 2016, 1125, 350-357.	1.8	7
30	High-Pressure and Electronic Band Structure Studies on Mo ₂ BC. Journal of Low Temperature Physics, 2015, 179, 158-165.	0.6	3
31	Structural and mechanic properties of RFeO ₃ with R = Y, Eu and La perovskites: a first-principles calculation. European Physical Journal D, 2015, 69, 1.	0.6	10
32	Chemical pressure in SmNiC _{2-x} B _x compounds: evidence of a quantum critical behavior. Journal of Physics Condensed Matter, 2014, 26, 455602.	0.7	4
33	Pressure effect on the structural, elastic and electronic properties of Nb ₂ AC (A=S and In) phases; ab initio study. Computational Materials Science, 2014, 81, 184-190.	1.4	19
34	Electronic structure of Co-substituted FeSe superconductor probed by soft x-ray spectroscopy and density functional theory. Physical Review B, 2014, 90, .	1.1	6
35	Electronic Structure of FeSe _{1-x} Te _x Studied by X-ray Spectroscopy and Density Functional Theory. Journal of Physical Chemistry C, 2014, 118, 25150-25157.	1.5	2
36	Synthesis by molten salt method of the AFeO ₃ system (A=La, Gd) and its structural, vibrational and internal hyperfine magnetic field characterization. Physica B: Condensed Matter, 2014, 443, 90-94.	1.3	61

#	ARTICLE	IF	CITATIONS
37	X-ray photoelectron spectroscopy studies of the electronic structure of superconducting Nb ₂ SnC and Nb ₂ SC. <i>Journal of Alloys and Compounds</i> , 2013, 579, 516-520.	2.8	23
38	Valence band XPS and UPS studies of non-stoichiometric superconducting NbB _{2+x} . <i>Superconductor Science and Technology</i> , 2012, 25, 015002.	1.8	4
39	First-principles calculations of structural, elastic and electronic properties of Nb ₂ SnC under pressure. <i>Computational Materials Science</i> , 2012, 55, 142-146.	1.4	37
40	Mechanism of small-polaron formation in the biferroic YCrO ₃ doped with calcium. <i>Materials Chemistry and Physics</i> , 2012, 133, 1011-1017.	2.0	43
41	Elastic properties, Debye temperature, density of states and electron-phonon coupling of ZrB ₁₂ under pressure. <i>Solid State Communications</i> , 2012, 152, 249-252.	0.9	6
42	Ferromagnetic behavior of high-purity ZnO nanoparticles. <i>Solid State Communications</i> , 2011, 151, 97-101.	0.9	43
43	Effects of Substituting Se with Te in the FeSe Compound: Structural, Magnetization and Mössbauer Studies. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010, 23, 551-557.	0.8	27
44	Comparative study of the core level photoemission of the ZrB ₂ and ZrB ₁₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, 456-460.	0.6	11
45	X-ray diffraction and Raman spectroscopy on Gd ₂ (Ti _{2-x} Y _x)O ₇ prepared at high pressure and high temperature. <i>Journal of Alloys and Compounds</i> , 2010, 504, 446-451.	2.8	14
46	Superconducting niobium nitride films deposited by unbalanced magnetron sputtering. <i>Thin Solid Films</i> , 2008, 516, 8768-8773.	0.8	30
47	Correlation between the transition temperature and the superfluid density in BCS superconductor NbB_{2+x} . <i>Physical Review B</i> , 2008, 77, .	1.1	4
48	Elastic properties of superconducting NbB _{2+x} obtained from first-principles calculations. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 376209.	0.7	17
49	Kinetic and Reaction Mechanism of CO ₂ Sorption on Li ₄ SiO ₄ : A Study of the Particle Size Effect. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 2407-2412.	1.8	207
50	Effect of substrate bias voltage on corrosion of TiN/Ti multilayers deposited by magnetron sputtering. <i>Applied Surface Science</i> , 2007, 253, 7192-7196.	3.1	40
51	Crystal Structure and Ferroelectric Properties of SBT Doped with Praseodymium. <i>Ferroelectrics</i> , 2006, 334, 135-145.	0.3	1
52	Synthesis and study of the crystallographic and magnetic structure of SeCoO ₃ . <i>Physical Review B</i> , 2006, 73, .	1.1	21
53	Mössbauer study of the (Ru _{1-x} Fe _x)Sr ₂ GdCu ₂ O _{8-$\hat{\Gamma}$} system and two of its possible impurities: SrRuO ₃ and Gd ₂ CuO ₄ . <i>Hyperfine Interactions</i> , 2006, 171, 293-303.	0.2	3
54	X-ray photoelectron spectroscopy studies of non-stoichiometric superconducting NbB _{2+x} . <i>Superconductor Science and Technology</i> , 2006, 19, 623-628.	1.8	24

#	ARTICLE	IF	CITATIONS
55	STRUCTURAL CHARACTERIZATION AND DIELECTRIC PROPERTIES OF Gd DOPED SrBi ₂ Ta ₂ O ₉ . Integrated Ferroelectrics, 2006, 83, 113-120.	0.3	0
56	Crystal structure and relaxor-type transition in SrBi ₂ Ta ₂ O ₉ doped with praseodymium. Journal of Physics Condensed Matter, 2006, 18, 10509-10520.	0.7	16
57	Study of the crystal structure, superconducting and magnetic properties of Ru _{1-x} FexSr ₂ GdCu ₂ O ₈ . Superconductor Science and Technology, 2005, 18, 798-804.	1.8	5
58	Structural analysis, magnetic and transport properties of the (Ru _{1-x} Cox)Sr ₂ GdCu ₂ O ₈ system. Superconductor Science and Technology, 2005, 18, 1003-1009.	1.8	4
59	Crystalline structure and the superconducting properties of NbB _{2+x} . Journal of Physics Condensed Matter, 2004, 16, 5979-5990.	0.7	36
60	Effect of Fe substitution in the structure and superconducting properties of the (Y _{0.8} Pr _{0.2})Ba ₂ Cu _{4-x} FexO ₈ system. Physica C: Superconductivity and Its Applications, 2003, 385, 373-382.	0.6	1
61	The effect of Mn substitution on the structure and magnetic properties of Se(Cu _{1-x} Mnx)O ₃ solid solution. Journal of Physics Condensed Matter, 2003, 15, 1951-1961.	0.7	5
62	High-Pressure Synthesis of SeCu _{1-x} Zn _x O ₃ Perovskites. High Pressure Research, 2002, 22, 551-554.	0.4	0
63	Suppression of T _c in the (Y _{0.9} Ca _{0.1})Ba ₂ Cu _{4-x} FexO ₈ system. Superconductor Science and Technology, 2002, 15, 1074-1080.	1.8	2
64	Crystal Chemistry and Magnetic Properties of SeCu _{1-x} ZnxO ₃ (0 ≤ x ≤ 1) Perovskites. Journal of Solid State Chemistry, 2002, 168, 149-155.	1.4	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.	1.0	4
66	Site occupancy and T _c degradation in iron substituted YBa ₂ (Cu _{1-x} Fex) ₄ O _{8+δ} . Physica C: Superconductivity and Its Applications, 1998, 301, 315-325.	0.6	10
67	About the ionic state of iron in the Cu sites of the Nd _{2-x} CexCu _{2-y} FeyO _{4+δ} superconductor. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1045-1046.	0.6	0
68	Iron substitution in the Cu sites of the YBa ₂ Cu _{4-x} FexO ₇ structure studied by Mössbauer spectroscopy. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1051-1052.	0.6	0