# Raul Escamilla

List of Publications by Year
in descending order

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| 68 | 936 | 516215 16 | 476904 29 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 69 | 69 | 69 | 1219 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Kinetic and Reaction Mechanism of CO2Sorption on Li4SiO4:Â Study of the Particle Size Effect. Industrial & Engineering Chemistry Research, 2007, 46, 2407-2412. | 1.8 | 207 |
| 2 | 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. | 1.3 | 61 |
| 3 | Ferromagnetic behavior of high-purity ZnO nanoparticles. Solid State Communications, 2011, 151, 97-101. | 0.9 | 43 |
| 4 | Mechanism of small-polaron formation in the biferroic YCrO3 doped with calcium. Materials Chemistry and Physics, 2012, 133, 1011-1017. | 2.0 | 43 |
| 5 | Effect of substrate bias voltage on corrosion of TiN/Ti multilayers deposited by magnetron sputtering. Applied Surface Science, 2007, 253, 7192-7196. | 3.1 | 40 |
| 6 | First-principles calculations of structural, elastic and electronic properties of Nb2SnC under pressure. Computational Materials Science, 2012, 55, 142-146. | 1.4 | 37 |
| 7 | Crystalline structure and the superconducting properties of NbB2+x. Journal of Physics Condensed Matter, 2004, 16, 5979-5990. | 0.7 | 36 |
| 8 | Superconducting niobium nitride films deposited by unbalanced magnetron sputtering. Thin Solid Films, 2008, 516, 8768-8773. | 0.8 | 30 |
| 9 | 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, . | 0.9 | 28 |
| 10 | 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. | 0.8 | 27 |
| 11 | X-ray photoelectron spectroscopy studies of non-stoichiometric superconducting NbB2+x. Superconductor Science and Technology, 2006, 19, 623-628. | 1.8 | 24 |
| 12 | X-ray photoelectron spectroscopy studies of the electronic structure of superconducting Nb2SnC and Nb2SC. Journal of Alloys and Compounds, 2013, 579, 516-520. | 2.8 | 23 |
| 13 | Synthesis and study of the crystallographic and magnetic structure ofSeCoO3. Physical Review B, 2006, 73, . | 1.1 | 21 |
| 14 | 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. | 1.4 | 19 |
| 15 | Effect of Al-doped YCrO3 on structural, electronic and magnetic properties. Journal of Magnetism and Magnetic Materials, 2018, 453, 36-43. | 1.0 | 19 |
| 16 | XPS study of the electronic density of states in the superconducting Mo2B and Mo2BC compounds. Journal of Materials Science, 2016, 51, 6411-6418. | 1.7 | 18 |
| 17 | Elastic properties of superconducting NbB<sub>2+x</sub>obtained from first-principles calculations. Journal of Physics Condensed Matter, 2007, 19, 376209. | 0.7 | 17 |
| 18 | Crystal structure and relaxor-type transition in SrBi2Ta2O9 doped with praseodymium. Journal of Physics Condensed Matter, 2006, 18, 10509-10520. | 0.7 | 16 |

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|---|---|---|---|
| 19 | 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. | 2.8 | 14 |
| 20 | Crystal Chemistry and Magnetic Properties of SeCu1â^'xZnxO3(0â‰¤xâ‰¤1) Perovskites. Journal of Solid State Chemistry, 2002, 168, 149-155. | 1.4 | 13 |
| 21 | Comparative study of the core level photoemission of the ZrB2 and ZrB12. Physica C: Superconductivity and Its Applications, 2010, 470, 456-460. | 0.6 | 11 |
| 22 | Site occupancy and Tc degradation in iron substituted YBa2(Cu1â^'xFex)4O8+Î´. Physica C: Superconductivity and Its Applications, 1998, 301, 315-325. | 0.6 | 10 |
| 23 | Structural and mechanic properties of RFeO3 with R = Y, Eu and La perovskites: a first-principles calculation. European Physical Journal D, 2015, 69, 1. | 0.6 | 10 |
| 24 | First-principles calculations of the structural, elastic, vibrational and electronic properties of YB6 compound under pressure. European Physical Journal B, 2019, 92, 1. | 0.6 | 10 |
| 25 | Ti-doped YMnO3: Magnetic and thermal studies at low temperature and dielectric properties at high temperature. Journal of Applied Physics, 2019, 125, . | 1.1 | 9 |
| 26 | DFT study on the electronic and magnetic properties of the Sr2FeNbO6 compound. Materials Today Communications, 2020, 23, 100844. | 0.9 | 9 |
| 27 | A First-Principles Investigation on the Electronic and Mechanical Properties of 1T TiSe<sub>2</sub> Multilayers for Energy Storage. Journal of the Electrochemical Society, 2021, 168, 030531. | 1.3 | 9 |
| 28 | 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. | 1.7 | 8 |
| 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. | 1.8 | 7 |
| 30 | LDA+U study of the electronic and magnetic properties of the Sr2FeMo1-xNbxO6 compound. Materials Today Communications, 2020, 23, 101155. | 0.9 | 7 |
| 31 | Elastic properties, Debye temperature, density of states and electronâ€“phonon coupling of ZrB12 under pressure. Solid State Communications, 2012, 152, 249-252. | 0.9 | 6 |
| 32 | 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 |
| 33 | 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. | 1.7 | 6 |
| 34 | Ab initio study of structural, elastic, and electronic properties of Mo3.46B12 under high pressure. European Physical Journal B, 2019, 92, 1. | 0.6 | 6 |
| 35 | 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. | 0.7 | 5 |
| 36 | Study of the crystal structure, superconducting and magnetic properties of Ru1â^'xFexSr2GdCu2O8. Superconductor Science and Technology, 2005, 18, 798-804. | 1.8 | 5 |

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|---|---|---|---|
| 37 | 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. | 0.9 | 5 |
| 38 | Crystalline Structure Study of Double Perovskites Sr2FeNb1-xMoxO6 Synthesized by the Molten Salts Method. Materials Today: Proceedings, 2019, 14, 160-163. | 0.9 | 5 |
| 39 | Exposed Surface and Confinement Effects on the Electronic, Magnetic, and Mechanical Properties of LaTiOâ‚ƒ Slabs. IEEE Transactions on Magnetics, 2021, 57, 1-4. | 1.2 | 5 |
| 40 | LDA+U study of hydrostatic pressure effect on double perovskite Sr<sub>2</sub>FeNbO<sub>6</sub>: crystal structure, mechanical and electronic properties. Physica Scripta, 2020, 95, 115704. | 1.2 | 5 |
| 41 | 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. | 1.9 | 5 |
| 42 | 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 |
| 43 | Structural analysis, magnetic and transport properties of the (Ru1â˜'xCox)Sr2GdCu2O8system. Superconductor Science and Technology, 2005, 18, 1003-1009. | 1.8 | 4 |
| 44 | 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:r Physical Review B, 2008, 77, . | 1.1 | 4 |
| 45 | Valence band XPS and UPS studies of non-stoichiometric superconducting NbB2 +x. Superconductor Science and Technology, 2012, 25, 015002. | 1.8 | 4 |
| 46 | Chemical pressure in SmNiC2â˜'xBxcompounds: evidence of a quantum critical behavior. Journal of Physics Condensed Matter, 2014, 26, 455602. | 0.7 | 4 |
| 47 | Effect of partial substitution of iron by tungsten on the crystal structure and electronic properties of WB3. Physica B: Condensed Matter, 2020, 583, 412026. | 1.3 | 4 |
| 48 | Spectroscopic characterization of iron bismuth (antimony/tantalum) pyrochlores synthesized by the molten salts method. Ceramics International, 2021, 47, 31983-31989. | 2.3 | 4 |
| 49 | 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. | 0.2 | 3 |
| 50 | High-Pressure and Electronic Band Structure Studies on Mo $$_{2}$$ 2 BC. Journal of Low Temperature Physics, 2015, 179, 158-165. | 0.6 | 3 |
| 51 | Phase transition and mechanical, vibrational, and electronic properties of NbC under pressure. Physica B: Condensed Matter, 2021, 602, 412594. | 1.3 | 3 |
| 52 | Suppression of Tc in the (Y0.9Ca0.1)Ba2Cu4$minus$xFexO8 system. Superconductor Science and Technology, 2002, 15, 1074-1080. | 1.8 | 2 |
| 53 | Electronic Structure of FeSe<sub>1â€“x</sub>Te<sub>x</sub> Studied by X-ray Spectroscopy and Density Functional Theory. Journal of Physical Chemistry C, 2014, 118, 25150-25157. | 1.5 | 2 |
| 54 | 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 |

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|---|---|---|---|
| 55 | Ab initio calculations of the elastic, vibrational, electronic properties, and electron-phonon constant of superconducting YB<sub>6</sub> compound under low pressure. Physica Scripta, 2021, 96, 125850. | 1.2 | 2 |
| 56 | 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. | 0.6 | 1 |
| 57 | Crystal Structure and Ferroelectric Properties of SBT Doped with Praseodymium. Ferroelectrics, 2006, 334, 135-145. | 0.3 | 1 |
| 58 | 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. | 0.5 | 1 |
| 59 | Effect of Y-doped NbB<sub>2.5</sub> on structural and superconducting properties. Physica Scripta, 2021, 96, 065805. | 1.2 | 1 |
| 60 | Theoretical study of Sr2Fe1â€“xNb1+xO6 system: Electronic and magnetic properties and crystal structure. Journal of Physics and Chemistry of Solids, 2022, 162, 110499. | 1.9 | 1 |
| 61 | Effect of hydrostatic pressure on the structural, mechanical, vibrational and electronic properties of the solid solution W1â^'xTaxB3. European Physical Journal B, 2022, 95, . | 0.6 | 1 |
| 62 | 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. | 0.6 | 0 |
| 63 | 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. | 0.6 | 0 |
| 64 | High-Pressure Synthesis of SeCu 1â^' x Zn x O 3 Perovskites. High Pressure Research, 2002, 22, 551-554. | 0.4 | 0 |
| 65 | STRUCTURAL CHARACTERIZATION AND DIELECTRIC PROPERTIES OF Gd DOPED SrBi2Ta2O9. Integrated Ferroelectrics, 2006, 83, 113-120. | 0.3 | 0 |
| 66 | Magnetic and Magnetoresistive Behavior of the Ferromagnetic Heavy Fermion YbNi2. Journal of Superconductivity and Novel Magnetism, 2019, 32, 987-991. | 0.8 | 0 |
| 67 | Effect of Mo substitution on the structure and electrical properties of Gd2Ru2O7 pyrochlore. Physica B: Condensed Matter, 2021, 619, 413227. | 1.3 | 0 |
| 68 | Structure, elastic, and electronic properties of the Nb2SnC1â^'xBx phases MAX: ab initio calculations. Materials Today Communications, 2021, , 102840. | 0.9 | 0 |