

Beatriz Rivas Murias

List of Publications by Year in descending order

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56
papers

1,311
citations

430442

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times ranked

2406
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the multi-featured magnetic behavior of Nd _{0.75} Sr _{0.25} CoO ₃ perovskite nanocrystals annealed at different temperatures. Journal of Alloys and Compounds, 2021, 874, 159870.	2.8	3
2	Structural and Magnetic Implications of Transition Metal Migration within Octahedral Core-Shell Nanocrystals. Chemistry of Materials, 2020, 32, 10435-10446.	3.2	11
3	Magnetically Induced CO ₂ Methanation Using Exchange-Coupled Spinel Ferrites in Cuboctahedron-Shaped Nanocrystals. Angewandte Chemie - International Edition, 2020, 59, 15537-15542.	7.2	17
4	Magnetically Induced CO ₂ Methanation Using Exchange-Coupled Spinel Ferrites in Cuboctahedron-Shaped Nanocrystals. Angewandte Chemie, 2020, 132, 15667-15672.	1.6	2
5	Iron-Assisted Synthesis of Highly Monodispersed and Magnetic Citrate-Stabilized Small Silver Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 3270-3276.	1.5	6
6	Spin Frustration Drives Exchange Bias Sign Crossover in CoFe ₂ O ₄ /Cr ₂ O ₃ Nanocomposites. Advanced Functional Materials, 2019, 29, 1900030.	7.8	19
7	Clusters of Magnetite-Maghemite Nanocrystals with a Chemically-Tailored Average Diameter. Journal of Nanoscience and Nanotechnology, 2019, 19, 4930-4937.	0.9	4
8	Raman spectroscopy to unravel the magnetic properties of iron oxide nanocrystals for bio-related applications. Nanoscale Advances, 2019, 1, 2086-2103.	2.2	160
9	Apparent auxetic to non-auxetic crossover driven by Co ²⁺ redistribution in CoFe ₂ O ₄ thin films. APL Materials, 2019, 7, .	2.2	11
10	Polymer assisted deposition of epitaxial oxide thin films. Journal of Materials Chemistry C, 2018, 6, 3834-3844.	2.7	25
11	Shaping iron oxide nanocrystals for magnetic separation applications. Nanoscale, 2018, 10, 20462-20467.	2.8	24
12	Thermodynamic CoO/Co ₃ O ₄ crossover using Raman spectroscopy in magnetic octahedron-shaped nanocrystals. Journal of Raman Spectroscopy, 2017, 48, 837-841.	1.2	195
13	Thermodynamically driven oxidation-induced Kirkendall effect in octahedron-shaped cobalt oxide nanocrystals. CrystEngComm, 2017, 19, 5542-5548.	1.3	7
14	Thermodynamic conditions during growth determine the magnetic anisotropy in epitaxial thin-films of La _{0.7} Sr _{0.3} MnO ₃ . Journal Physics D: Applied Physics, 2016, 49, 315001.	1.3	16
15	Dependence of exchange coupling in epitaxial Fe ₃ O ₄ /La _{0.7} Sr _{0.3} MnO ₃ thin films. Journal of Applied Physics, 2016, 119, 174301.	1.1	40
16	Study of the thermoelectric properties of non-typical semiconductor materials with conventional CAD tools. , 2016, , .		1
17	Design for maximum power transfer efficiency of thermoelectric generators using mixed mode simulations. , 2016, , .		2
18	Independent Control of the Magnetization in Ferromagnetic La _{2/3} Sr _{1/3} MnO ₃ /SrTiO ₃ /LaCoO ₃ Heterostructures Achieved by Epitaxial Lattice Mismatch. Nano Letters, 2016, 16, 1736-1740.	4.5	19

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19	Room-Temperature Ferromagnetism in Thin Films of LaMnO_3 Deposited by a Chemical Method Over Large Areas. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5410-5414.	4.0	29
20	High quality thin films of thermoelectric misfit cobalt oxides prepared by a chemical solution method. <i>Scientific Reports</i> , 2015, 5, 11889.	1.6	18
21	Tunnel Conduction in Epitaxial Bilayers of Ferromagnetic $\text{LaCoO}_3/\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ Deposited by a Chemical Solution Method. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21279-21285.	4.0	10
22	Strong interfacial magnetic coupling in epitaxial bilayers of $\text{LaCoO}_3/\text{LaMnO}_3$ prepared by chemical solution deposition. <i>Thin Solid Films</i> , 2014, 553, 81-84.	0.8	9
23	Exchange Bias Effect in $\text{CoO@Fe}_3\text{O}_4$ Core-Shell Octahedron-Shaped Nanoparticles. <i>Chemistry of Materials</i> , 2014, 26, 5566-5575.	3.2	42
24	Interface Magnetic Coupling in Epitaxial Bilayers of $\text{La}_{0.92}\text{MnO}_3/\text{LaCoO}_3$ Prepared by Polymer-Assisted Deposition. <i>Chemistry of Materials</i> , 2014, 26, 1480-1484.	3.2	25
25	Concentric MnFe_2O_4 -rich core/ Cr_2O_3 -rich shell nanoparticles. <i>Journal of Physics: Conference Series</i> , 2014, 521, 012002.	0.3	4
26	Strain-Induced Ferromagnetism and Magnetoresistance in Epitaxial Thin Films of LaCoO_3 Prepared by Polymer-Assisted Deposition. <i>Chemistry of Materials</i> , 2013, 25, 55-58. Low-temperature spin excitations in frustrated ZrO_2 compounds	3.2	42
27	Mn_2O_3 probed by high-field thermal conductivity. <i>Physical Review B</i> , 2013, 87.	1.1	9
28	Synthesis and magnetic properties of manganite thin films on Si by polymer assisted (PAD) and pulsed laser deposition (PLD).. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1449, 19.	0.1	0
29	Highly Transparent and Conductive Films of Densely Aligned Ultrathin Au Nanowire Monolayers. <i>Nano Letters</i> , 2012, 12, 6066-6070.	4.5	109
30	Synthesis, characterization and transport properties of $\text{Pr}_{0.50}\text{Ln}_{0.50}\text{BaCo}_2\text{O}_{5+\delta}$ (Ln: Pr, Nd, Sm, Eu, Gd). <i>TJ ETQq0,0,0 rgBT /Overlock 1</i>	2.8	5
31	Thermoelectric properties of n-type $\text{Ca}_{1-x}\text{Dy}_x\text{Mn}_{1-y}\text{NbyO}_3$ compounds (x=0, 0.02, 0.1 and y=0, 0.02) prepared by spray-drying method. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7710-7716.	2.8	25
32	Influence of the oxygen content and the preparation method on the power factor of $\text{PrBaCo}_2\text{O}_{5+\delta}$ samples (0.54% δ 0.84). <i>Journal of Alloys and Compounds</i> , 2011, 509, 5250-5255.	2.8	4
33	Spray drying: An alternative synthesis method for polycationic oxide compounds. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 158-163.	1.9	10
34	Rapidly fluctuating orbital occupancy above the orbital ordering transition in spin-gap compounds. <i>Physical Review B</i> , 2011, 83, .	1.1	14
35	Effect of cation disorder on structural, magnetic and dielectric properties of $\text{La}_2\text{MnCoO}_6$ double perovskite. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 496003.	0.7	67
36	Improvement of the thermoelectric properties of $[\text{Bi}_{1.68}\text{Ca}_2\text{O}_4]_{\text{RS}}[\text{CoO}_2]_{1.69}$ cobaltite by chimie douce methods. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1252-1257.	1.4	10

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37	Influence of high levels of Nb and Ti doping on the dielectric properties of CaCu ₃ Ti ₄ O ₁₂ type of compounds. <i>Materials Chemistry and Physics</i> , 2010, 120, 576-581.	2.0	13
38	Enhancement of the power factor of [Bi ₁₋₆₈ Ca ₂ O ₄] _R [CoO ₂] _{1.69} Ag composites prepared by the spray-drying method. <i>Solid State Sciences</i> , 2010, 12, 1490-1495.	1.5	8
39	Measurement of dielectric properties at low temperatures: application to the study of magnetoresistive manganite/ insulating oxide bulk composites. <i>Journal of Physics: Conference Series</i> , 2010, 253, 012006.	0.3	1
40	Dielectric properties of Bi _{1-x} Sr _x MnO ₃ (x=0.40,0.50) manganites: Influence of room temperature charge order. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	18
41	Dielectric Properties of the Charge Ordered Oxyborate Fe ₂ OBO ₃ . <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2989-2992.	1.2	4
42	Maxwell-Wagner relaxation in the CaMn ₇ O ₁₂ perovskite. <i>Progress in Solid State Chemistry</i> , 2007, 35, 379-386.	3.9	10
43	Influence of the dimensionality of the structure and the nature of the rare earth on the magneto-transport properties of Nd _{1-x} Sr _{1+x} CoO ₄ (0 ≤ x ≤ 0.30). <i>Journal of Alloys and Compounds</i> , 2007, 437, 64-70.	2.8	4
44	Dielectric properties of the charge-ordered mixed oxide CaMn ₇ O ₁₂ . <i>Journal of Physics Condensed Matter</i> , 2006, 18, 3803-3815.	0.7	17
45	Magnetic-field-dependent dielectric constant in La ₂ Ca ₁ MnO ₃ . <i>Applied Physics Letters</i> , 2006, 88, 242906.	1.5	44
46	Role of t _{2g} versus e _g interactions in the Physical Properties of A ₂ OBO ₃ (A = Mn, Fe). <i>Chemistry of Materials</i> , 2006, 18, 4547-4552.	3.2	22
47	High dielectric constant in charge-ordered Ca _{1.75} Pr _{0.25} MnO ₄ . <i>Journal Physics D: Applied Physics</i> , 2006, 39, 1192-1196.	1.3	8
48	Caracterización estructural de los óxidos de níquel con orden de carga: La _{3/2} Sr _{1/2} NiO ₄ ; y La _{5/3} Sr _{1/3} NiO ₄ . <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2006, 45, 169-174.	0.9	8
49	Dielectric response in the charge-ordered Ca _{2-x} Pr _x MnO ₄ phases. <i>Solid State Sciences</i> , 2005, 7, 905-911.	1.5	20
50	High Dielectric Constant in the Charge-ordered Manganese Oxide CaMn ₇ O ₁₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2192-2196.	0.6	15
51	Study of the Dielectric Properties of the Perovskite LaMn _{0.5} Co _{0.5} O ₃ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2265-2272.	0.6	40
52	Magnetic order in the lamellar compounds La _{1-x} Sr _{1+x} CoO ₄ (0 ≤ x ≤ 0.4). <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 855-856.	1.0	10
53	Non-resonant microwave absorption in Pr _{1-x} Ba _x CoO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1635-E1636.	1.0	1
54	Dielectric response of the charge-ordered two-dimensional nickelate La _{1.5} Sr _{0.5} NiO ₄ . <i>Applied Physics Letters</i> , 2004, 85, 6224-6226.	1.5	73

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55	Caracterización estructural de la perovskita laminar $\text{La}_{1.5}\text{Sr}_{0.5}\text{CoO}_4$. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2004, 43, 649-652.	0.9	1
56	Coexistence of two phases in the material of nominal composition $\text{Pr}_{0.6}\text{Ba}_{0.4}\text{CoO}_3$. Journal of Non-Crystalline Solids, 2003, 329, 115-118.	1.5	0