

Beatriz Rivas Murias

List of Publications by Year in descending order

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430442
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times ranked

2406
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic $\text{CoO} \rightarrow \text{Co}_3\text{O}_4$ crossover using Raman spectroscopy in magnetic octahedron-shaped nanocrystals. Journal of Raman Spectroscopy, 2017, 48, 837-841.	1.2	195
2	Raman spectroscopy to unravel the magnetic properties of iron oxide nanocrystals for bio-related applications. Nanoscale Advances, 2019, 1, 2086-2103.	2.2	160
3	Highly Transparent and Conductive Films of Densely Aligned Ultrathin Au Nanowire Monolayers. Nano Letters, 2012, 12, 6066-6070.	4.5	109
4	Dielectric response of the charge-ordered two-dimensional nickelate $\text{La}_{1.5}\text{Sr}_{0.5}\text{NiO}_4$. Applied Physics Letters, 2004, 85, 6224-6226.	1.5	73
5	Effect of cation disorder on structural, magnetic and dielectric properties of $\text{La}_{2-x}\text{MnCoO}_6$ double perovskite. Journal of Physics Condensed Matter, 2011, 23, 496003.	0.7	67
6	Magnetic-field-dependent dielectric constant in $\text{La}_{2-x}\text{Ca}_{1-x}\text{MnO}_3$. Applied Physics Letters, 2006, 88, 242906.	1.5	44
7	Strain-Induced Ferromagnetism and Magnetoresistance in Epitaxial Thin Films of LaCoO_3 Prepared by Polymer-Assisted Deposition. Chemistry of Materials, 2013, 25, 55-58.	3.2	42
8	Exchange Bias Effect in $\text{CoO}@\text{Fe}_3\text{O}_4$ Core-Shell Octahedron-Shaped Nanoparticles. Chemistry of Materials, 2014, 26, 5566-5575.	3.2	42
9	Study of the Dielectric Properties of the Perovskite $\text{LaMn}_{0.5}\text{Co}_{0.5}\text{O}_{3-\delta}$. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 2265-2272.	0.6	40
10	Thickness dependence of exchange coupling in epitaxial $\text{Fe}_3\text{O}_4/\text{LaMnO}_3$ bilayers. Applied Physics Letters, 1998, 73, 1555-1557.	1.1	40
11	Room-Temperature Ferromagnetism in Thin Films of LaMnO_3 Deposited by a Chemical Method Over Large Areas. ACS Applied Materials & Interfaces, 2015, 7, 5410-5414.	4.0	29
12	Thermoelectric properties of n-type $\text{Ca}_{1-x}\text{Dy}_x\text{Mn}_{1-y}\text{Nb}_y\text{O}_{3-\delta}$ compounds ($x=0, 0.02, 0.1$ and $y=0, 0.02$) prepared by spray-drying method. Journal of Alloys and Compounds, 2011, 509, 7710-7716.	2.8	25
13	Interface Magnetic Coupling in Epitaxial Bilayers of $\text{La}_{0.92}\text{MnO}_3/\text{LaCoO}_3$ Prepared by Polymer-Assisted Deposition. Chemistry of Materials, 2014, 26, 1480-1484.	3.2	25
14	Polymer assisted deposition of epitaxial oxide thin films. Journal of Materials Chemistry C, 2018, 6, 3834-3844.	2.7	25
15	Shaping iron oxide nanocrystals for magnetic separation applications. Nanoscale, 2018, 10, 20462-20467.	2.8	24
16	Role of t _{2g} versus e _g Interactions in the Physical Properties of A_2BO_3 (A = Mn, Fe). Chemistry of Materials, 2006, 18, 4547-4552.	3.2	22
17	Dielectric response in the charge-ordered $\text{Ca}_{2-x}\text{Pr}_x\text{MnO}_4$ phases. Solid State Sciences, 2005, 7, 905-911.	1.5	20
18	Independent Control of the Magnetization in Ferromagnetic $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3/\text{SrTiO}_3/\text{LaCoO}_3$ Heterostructures Achieved by Epitaxial Lattice Mismatch. Nano Letters, 2016, 16, 1736-1740.	4.5	19

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19	Spin Frustration Drives Exchange Bias Sign Crossover in $\text{CoFe}_{2-x}\text{O}_{4-x}\text{Cr}_2\text{O}_3$ Nanocomposites. <i>Advanced Functional Materials</i> , 2019, 29, 1900030.	7.8	19
20	Dielectric properties of $\text{Bi}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x=0.40, 0.50$) manganites: Influence of room temperature charge order. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	18
21	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
22	Dielectric properties of the charge-ordered mixed oxide $\text{CaMn}_7\text{O}_{12}$. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 3803-3815.	0.7	17
23	Magnetically Induced CO_2 Methanation Using Exchange-Coupled Spinel Ferrites in Cuboctahedron-Shaped Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15537-15542.	7.2	17
24	Thermodynamic conditions during growth determine the magnetic anisotropy in epitaxial thin-films of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 315001.	1.3	16
25	High Dielectric Constant in the Charge-ordered Manganese Oxide $\text{CaMn}_7\text{O}_{12}$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2192-2196.	0.6	15
26	Rapidly fluctuating orbital occupancy above the orbital ordering transition in spin-gap compounds. <i>Physical Review B</i> , 2011, 83, .	1.1	14
27	Influence of high levels of Nb and Ti doping on the dielectric properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ type of compounds. <i>Materials Chemistry and Physics</i> , 2010, 120, 576-581.	2.0	13
28	Apparent auxetic to non-auxetic crossover driven by Co^{2+} redistribution in CoFe_2O_4 thin films. <i>APL Materials</i> , 2019, 7, .	2.2	11
29	Structural and Magnetic Implications of Transition Metal Migration within Octahedral Core-Shell Nanocrystals. <i>Chemistry of Materials</i> , 2020, 32, 10435-10446.	3.2	11
30	Magnetic order in the lamellar compounds $\text{La}_{1-x}\text{Sr}_x\text{CoO}_4$ ($0 \leq x \leq 0.4$). <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 855-856.	1.0	10
31	Maxwell-Wagner relaxation in the $\text{CaMn}_7\text{O}_{12}$ perovskite. <i>Progress in Solid State Chemistry</i> , 2007, 35, 379-386.	3.9	10
32	Improvement of the thermoelectric properties of $[\text{Bi}_{1.68}\text{Ca}_{2.04}\text{Fe}]_{\text{RS}}[\text{CoO}_2]_{1.69}$ cobaltite by chimie douce methods. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1252-1257.	1.4	10
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	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
35	$\text{O}_{4-x}\text{Cr}_2\text{O}_3$ probed by high-field thermal conductivity. <i>Physical Review B</i> , 2013, 87, .	1.1	9
36	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

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37	High dielectric constant in charge-ordered $\text{Ca}_{1.75}\text{Pr}_{0.25}\text{MnO}_4$. Journal Physics D: Applied Physics, 2006, 39, 1192-1196.	1.3	8
38	Enhancement of the power factor of $[\text{Bi}_{1.68}\text{Ca}_2\text{O}_4]\text{RS}[\text{CoO}_2]_{1.69}$ Ag composites prepared by the spray-drying method. Solid State Sciences, 2010, 12, 1490-1495.	1.5	8
39	Caracterización estructural de los óxidos de $\text{La}_{3/2}\text{Sr}_{1/2}\text{NiO}_4$ y $\text{La}_{5/3}\text{Sr}_{1/3}\text{NiO}_4$ con orden de carga: $\text{La}_{3/2}\text{Sr}_{1/2}\text{NiO}_4$ y $\text{La}_{5/3}\text{Sr}_{1/3}\text{NiO}_4$. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2006, 45, 169-174.	0.9	8
40	Thermodynamically driven oxidation-induced Kirkendall effect in octahedron-shaped cobalt oxide nanocrystals. CrystEngComm, 2017, 19, 5542-5548.	1.3	7
41	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
42	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, Tm, Yb). Journal of Applied Physics, 2008, 104, 044301.	2.8	5
43	Influence of the dimensionality of the structure and the nature of the rare earth on the magneto-transport properties of $\text{Nd}_{1-x}\text{Sr}_x\text{CoO}_4$ ($0 \leq x \leq 0.30$). Journal of Alloys and Compounds, 2007, 437, 64-70.	2.8	4
44	Dielectric Properties of the Charge Ordered Oxyborate $\text{Fe}_{1-x}\text{Co}_x\text{BO}_3$. IEEE Transactions on Magnetics, 2008, 44, 2989-2992.	1.2	4
45	Influence of the oxygen content and the preparation method on the power factor of $\text{PrBaCo}_2\text{O}_{5+\delta}$ samples ($0.54 \leq \delta \leq 0.84$). Journal of Alloys and Compounds, 2011, 509, 5250-5255.	2.8	4
46	Concentric MnFe_2O_4 -rich core/ Cr_2O_3 -rich shell nanoparticles. Journal of Physics: Conference Series, 2014, 521, 012002.	0.3	4
47	Clusters of Magnetite-Maghemite Nanocrystals with a Chemically-Tailored Average Diameter. Journal of Nanoscience and Nanotechnology, 2019, 19, 4930-4937.	0.9	4
48	Unraveling the multi-featured magnetic behavior of $\text{Nd}_{0.75}\text{Sr}_{0.25}\text{CoO}_3$ perovskite nanocrystals annealed at different temperatures. Journal of Alloys and Compounds, 2021, 874, 159870.	2.8	3
49	Design for maximum power transfer efficiency of thermoelectric generators using mixed mode simulations. , 2016, , .		2
50	Magnetically Induced CO_2 Methanation Using Exchange-Coupled Spinel Ferrites in Cuboctahedron-Shaped Nanocrystals. Angewandte Chemie, 2020, 132, 15667-15672.	1.6	2
51	Non-resonant microwave absorption in $\text{Pr}_{1-x}\text{Ba}_x\text{CoO}_3$. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1635-E1636.	1.0	1
52	Measurement of dielectric properties at low temperatures: application to the study of magnetoresistive manganite/ insulating oxide bulk composites. Journal of Physics: Conference Series, 2010, 253, 012006.	0.3	1
53	Study of the thermoelectric properties of non-typical semiconductor materials with conventional CAD tools. , 2016, , .		1
54	Caracterización dielectrica 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

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55	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
56	Synthesis and magnetic properties of manganite thin films on Si by polymer assisted (PAD) and pulsed laser deposition (PLD).. Materials Research Society Symposia Proceedings, 2012, 1449, 19.	0.1	0