Roberto Boada

List of Publications by Year
in descending order

53	953	516561 16	477173 29
papers	citations	h-index	g-index

53	53	53	1787
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fe K-Edge X-ray Absorption Spectroscopy Study of Nanosized Nominal Magnetite. Journal of Physical Chemistry C, 2014, 118, 1332-1346.	1.5	93
2	Ionic conductivity of nanocrystalline yttria-stabilized zirconia: Grain boundary and size effects. Physical Review B, 2010, 81, .	1.1	82
3	Evidence of intrinsic magnetism in capped ZnO nanoparticles. Physical Review B, 2010, 82, .	1.1	81
4	Enhancement of selective adsorption of Cr species via modification of pine biomass. Science of the Total Environment, 2021, 756, 143816.	3.9	52
5	The Spectroscopy Village at Diamond Light Source. Journal of Synchrotron Radiation, 2018, 25, 998-1009.	1.0	42
6	Transport, electronic, and structural properties of nanocrystalline CuAlO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>delafossites. Physical Review B, 2013, 83, .	1.1	37
7	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi><mml:mtext>-Fe</mml:mtext></mml:mrow></mml:math>core surrounded by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>-Fe</mml:mtext></mml:mrow></mml:math>and iron oxide shells. Physical Review B, 2010, 81, .	1.1	34
8	Enhanced Protection of Carbon-Encapsulated Magnetic Nickel Nanoparticles through a Sucrose-Based Synthetic Strategy. Journal of Physical Chemistry C, 2011, 115, 5294-5300.	1.5	34
9	The hydration structure of Cu2+: more tetrahedral than octahedral?. RSC Advances, 2013, 3, 17803.	1.7	33
10	XANES and EXAFS study of the local order in nanocrystalline yttria-stabilized zirconia. Physical Review B, 2013, 87, .	1.1	32
11	Improving the quality of XAFS data. Journal of Synchrotron Radiation, 2018, 25, 972-980.	1.0	29
12	The scanning four-bounce monochromator for beamline I20 at the Diamond Light Source. Journal of Synchrotron Radiation, 2018, 25, 1556-1564.	1.0	28
13	Mixedâ€Valence Ce/Zr Metalâ€Organic Frameworks: Controlling the Oxidation State of Cerium in Oneâ€Pot Synthesis Approach. Advanced Functional Materials, 2021, 31, 2102582.	7.8	25
14	Co nanoparticles inserted into a porous carbon amorphous matrix: the role of cooling field and temperature on the exchange bias effect. Physical Chemistry Chemical Physics, 2011, 13, 927-932.	1.3	24
15	Interfacial magnetic coupling between Fe nanoparticles in Feâ€“Ag granular alloys. Nanotechnology, 2012, 23, 025705.	1.3	24
16	On the Origin of the Magnetism of Mnâ€“Znâ€“O Systems: Structural, Electronic, and Magnetic Study of Exotic MnO_{2â^Î´}/ZnO Thin Films. Journal of Physical Chemistry C, 2011, 115, 24092-24101.	1.5	19
17	Stressâ€induced Curie temperature increase in the Fe₆₄Ni₃₆ invar alloy. Physica Status Solidi - Rapid Research Letters, 2009, 3, 115-117.	1.2	16
18	Textile Wastewater Purification Using an Elaborated Biosorbent Hybrid Material (Luffaâ€“Cylindricaâ€“Zinc Oxide) Assisted by Alternating Current. Water (Switzerland), 2019, 11, 1326.	1.2	16

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19	Structural determination of Bi-doped magnetite multifunctional nanoparticles for contrast imaging. Physical Chemistry Chemical Physics, 2014, 16, 18301.	1.3	15
20	OX-1 Metalâ€“Organic Framework Nanosheets as Robust Hosts for Highly Active Catalytic Palladium Species. ACS Sustainable Chemistry and Engineering, 2019, 7, 5875-5885.	3.2	15
21	Effect of titania doping and sintering temperature on titanium local environment and electrical conductivity of YSZ. Journal of Alloys and Compounds, 2016, 689, 512-524.	2.8	14
22	Mercury capture on a supported chlorocuprate(<scp>ii</scp>) ionic liquid adsorbent studied using operando synchrotron X-ray absorption spectroscopy. Dalton Transactions, 2016, 45, 18946-18953.	1.6	14
23	Characterization of Calcium Oxalate Hydrates and the Transformation Process. ChemPhysChem, 2020, 21, 2583-2593.	1.0	14
24	Influence of a plant biostimulant on the uptake, distribution and speciation of Se in Se-enriched wheat (Triticum aestivum L. cv. PinzÃ³n). Plant and Soil, 2020, 455, 409-423.	1.8	14
25	Magnetic disorder in diluted Fe_xM_{100â^'x}granular thin films (M=Au, Ag, Cu;x< 10 at.%). Journal of Physics Condensed Matter, 2013, 25, 276001.	0.7	13
26	Unraveling the Molecular Details of the â€œGate Openingâ€•Phenomenon in ZIF-8 with X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 5935-5943.	1.5	11
27	Disentanglement of magnetic contributions in multi-component systems by using X-ray magnetic circular dichroism at a single absorption edge. Journal of Synchrotron Radiation, 2008, 15, 440-448.	1.0	10
28	A general covalent binding model between cytotoxic selenocompounds and albumin revealed by mass spectrometry and X-ray absorption spectroscopy. Scientific Reports, 2020, 10, 1274.	1.6	10
29	Enhanced arsenite removal by superparamagnetic iron oxide nanoparticles in-situ synthesized on a commercial cube-shape sponge: adsorption-oxidation mechanism. Journal of Colloid and Interface Science, 2022, 614, 460-467.	5.0	10
30	Decoupling the adsorption mechanisms of arsenate at molecular level on modified cube-shaped sponge loaded superparamagnetic iron oxide nanoparticles. Journal of Environmental Sciences, 2022, 121, 1-12.	3.2	10
31	Tooth whitening, oxidation or reduction? Study of physicochemical alterations in bovine enamel using Synchrotron based Micro-FTIR. Dental Materials, 2022, 38, 670-679.	1.6	10
32	Co-application of Se and a biostimulant at different wheat growth stages: Influence on grain development. Plant Physiology and Biochemistry, 2021, 160, 184-192.	2.8	9
33	Additivity of magnetic contributions to the x-ray magnetic circular dichroism spectrum. Physical Review B, 2010, 81, .	1.1	8
34	Photon-in/photon-out spectroscopy at the I20-scanning beamline at diamond light source. Journal of Physics Condensed Matter, 2021, 33, 284003.	0.7	8
35	Relationships between structural and electrical properties in mixed conductors duplex materials in the ZrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>-Y<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>	1.1	7
36	Rotation of X-ray polarization in the glitches of a silicon crystal monochromator. Journal of Applied Crystallography, 2016, 49, 1209-1222.	1.9	7

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37	Decoupling of the magnetic sublattices at the compensation point in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi><mml:mtext>-Fe</mml:mtext></mml:mrow></mml:math>compounds. Physical Review B, 2010, 82, .	1.1	6
38	Toward the Optimized Spintronic Response of Snâ€Doped IrO₂ Thin Films. Advanced Functional Materials, 2019, 29, 1806754.	7.8	6
39	Low-cost vacuum compatible liquid cell for hard X-ray absorption spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 908, 333-337.	0.7	5
40	Oxygen condensation in ZIF-8 upon â€˜gate openingâ€™ structural transition. Molecular Physics, 2019, 117, 3456-3463.	0.8	5
41	Extracellular Albumin Covalently Sequesters Selenocompounds and Determines Cytotoxicity. International Journal of Molecular Sciences, 2019, 20, 4734.	1.8	5
42	Temperature dependence of the HoL2-edge XMCD spectra of Ho6Fe23. Journal of Synchrotron Radiation, 2009, 16, 38-42.	1.0	4
43	X-ray magnetic circular dichroism measurements using an X-ray phase retarder on the BM25 A-SpLine beamline at the ESRF. Journal of Synchrotron Radiation, 2010, 17, 308-313.	1.0	4
44	Relation among Oxygen Stoichiometry, Structure, and Co Valence and Spin State in Single-Layer La_{2â€“x}A_xCoO_{4Â±Î´} (A = Ca, Sr) Perovskites. Inorganic Chemistry, 2020, 59, 15757-15771.	1.9	4
45	Dimensionality-driven metalâ€“insulator transition in spinâ€“orbit-coupled IrO₂. Nanoscale, 2021, 13, 17125-17135.	2.8	3
46	X-ray absorption spectroscopy study of the chemical ordering in UCu_{5â€“x}M_x(M = Ni, Ag) compounds. Journal of Physics Condensed Matter, 2008, 20, 395207.	0.7	2
47	A Magnetic and MÃ–ssbauer Spectral Study of the ${m Lu}{({m Al}_{1-{m x}}{m Fe}_{m x})}_{2}$ Compounds. IEEE Transactions on Magnetics, 2008, 44, 4206-4209.	1.2	2
48	Pressure dependence of magnetic states in Laves PhaseRCo₂(R= Dy, Ho, and) Tj ETQq0 0 0 rgBT /Overlock 10	0.3	2
49	Magnetic clusters on the verge of long range ferromagnetism in Lu(Fe0.75Al0.25)2 and Lu(Fe0.50Al0.50)2 alloys. Journal of Alloys and Compounds, 2017, 695, 704-714.	2.8	2
50	Effect of Aluminium Substitution in ${m RT}_2$ Compounds ${({m R} = {hbox{rare-earth}}, {m T} =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf IEEE Transactions on Magnetics, 2008, 44, 4214-4217.	1.2	1
51	Origin of the X-ray magnetic circular dichroism at theL-edges of the rare-earths inRxR1â€™xâ€²Al2systems. Journal of Synchrotron Radiation, 2009, 16, 405-412.	1.0	1
52	Competing effects in the magnetic polarization of non-magnetic atoms. Journal of Physics Condensed Matter, 2013, 25, 035604.	0.7	1
53	Discriminating the origin of calcium oxalate monohydrate formation in kidney stones via synchrotron microdiffraction. Analyst, The, 2022, 147, 349-357.	1.7	0