

Juan Rodriguez-Carvajal

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383 papers	23,623 citations	52 h-index	148 g-index
434 ext. papers	25,542 ext. citations	3.9 avg, IF	7.26 L-index

#	Paper	IF	Citations
383	Recent advances in magnetic structure determination by neutron powder diffraction. <i>Physica B: Condensed Matter</i> , 1993 , 192, 55-69	2.8	11006
382	WinPLOTR: A Windows Tool for Powder Diffraction Pattern Analysis. <i>Materials Science Forum</i> , 2001 , 378-381, 118-123	0.4	1303
381	Neutron-diffraction study of the Jahn-Teller transition in stoichiometric LaMnO ₃ . <i>Physical Review B</i> , 1998 , 57, R3189-R3192	3.3	578
380	Neutron-diffraction study of RNiO ₃ (R=La,Pr,Nd,Sm): Electronically induced structural changes across the metal-insulator transition. <i>Physical Review B</i> , 1992 , 46, 4414-4425	3.3	412
379	Neutron diffraction study on structural and magnetic properties of La ₂ NiO ₄ . <i>Journal of Physics Condensed Matter</i> , 1991 , 3, 3215-3234	1.8	345
378	Spin waves in the antiferromagnet perovskite LaMnO ₃ : A neutron-scattering study. <i>Physical Review B</i> , 1996 , 54, 15149-15155	3.3	286
377	Magnetic Structures of the Triphylite LiFePO ₄ and of Its Delithiated Form FePO ₄ . <i>Chemistry of Materials</i> , 2003 , 15, 4082-4090	9.6	275
376	Electronic Crystallization in a Lithium Battery Material: Columnar Ordering of Electrons and Holes in the Spinel LiMn ₂ O ₄ . <i>Physical Review Letters</i> , 1998 , 81, 4660-4663	7.4	265
375	Structural characterization of R ₂ BaCuO ₅ (R = Y, Lu, Yb, Tm, Er, Ho, Dy, Gd, Eu and Sm) oxides by X-ray and neutron diffraction. <i>Journal of Solid State Chemistry</i> , 1992 , 100, 201-211	3.3	249
374	Zener polaron ordering in half-doped manganites. <i>Physical Review Letters</i> , 2002 , 89, 097205	7.4	246
373	Spin structure and magnetic frustration in multiferroic RMn ₂ O ₅ (R=Tb,Ho,Dy). <i>Physical Review B</i> , 2005 , 71,	3.3	242
372	Liquidlike Spatial Distribution of Magnetic Droplets Revealed by Neutron Scattering in La _{1-x} CaxMnO ₃ . <i>Physical Review Letters</i> , 1998 , 81, 1957-1960	7.4	214
371	Prediction of crystal structures from crystal chemistry rules by simulated annealing. <i>Nature</i> , 1990 , 346, 343-345	50.4	202
370	Magnetic frustration and lattice dimensionality in SrCr ₈ Ga ₄ O ₁₉ . <i>Solid State Communications</i> , 1988 , 65, 189-192	1.6	183
369	Neutron-diffraction study of the magnetic ordering in the insulating regime of the perovskites RNiO ₃ (R=Pr and Nd). <i>Physical Review B</i> , 1994 , 50, 978-992	3.3	156
368	A Powder Neutron Diffraction Investigation of the Two Rhombohedral NASICON Analogues: [Na ₃ Fe ₂ (PO ₄) ₃ and Li ₃ Fe ₂ (PO ₄) ₃ . <i>Chemistry of Materials</i> , 2000 , 12, 525-532	9.6	145
367	Approach to the metal-insulator transition in La _{1-x} CaxMnO ₃ (0. <i>Physical Review B</i> , 2001 , 64,	3.3	142

- 366 Cation distribution and intrinsic magnetic properties of Co-Ti-doped M-type barium ferrite. *Journal of Applied Physics*, **1991**, 70, 1614-1623 2.5 139
- 365 RNiO₃ perovskites (R=Pr,Nd): Nickel valence and the metal-insulator transition investigated by x-ray-absorption spectroscopy. *Physical Review B*, **1992**, 46, 14975-14984 3.3 136
- 364 Magnetic and magnetotransport properties of GdBaCo₂O₅+ δ A high magnetic-field study. *Physical Review B*, **2001**, 64, 3.3 127
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- 362 Ordered Spin Ice State and Magnetic Fluctuations in Tb₂Sn₂O₇. *Physical Review Letters*, **2005**, 94, 7.4 120
- 361 The role of order-disorder transitions in the quest for molecular multiferroics: structural and magnetic neutron studies of a mixed valence iron(II)-iron(III) formate framework. *Journal of the American Chemical Society*, **2012**, 134, 19772-81 16.4 118
- 360 Crystal structure of strontium hexaferrite SrFe₁₂O₁₉. *Journal of Solid State Chemistry*, **1988**, 72, 218-224 3.3 118
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- 357 Silicon Incorporation in Hydroxylapatite Obtained by Controlled Crystallization. *Chemistry of Materials*, **2004**, 16, 2300-2308 9.6 101
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- 354 Anomalous structural phase transition in stoichiometric La₂NiO₄. *Physical Review B*, **1988**, 38, 7148-7153 3.3 91
- 353 Crystal structure and microstructure of some La_{2/3-x}Li_{3x}TiO₃ oxides: an example of the complementary use of electron diffraction and microscopy and synchrotron X-ray diffraction to study complex materials. *Journal of the American Chemical Society*, **2004**, 126, 3587-96 16.4 84
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- 348 Coherent waves of magnetic polarons propagating in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$: An inelastic-neutron-scattering study. *Physical Review B*, **1997**, 56, R497-R500 3.3 73
- 347 Spin glass behaviour in an antiferromagnetic non-frustrated lattice: $\text{Sr}_2\text{FeNbO}_6$ perovskite. *Journal of Physics C: Solid State Physics*, **1985**, 18, L401-L405 71
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- 341 Neutron diffraction study of the magnetic structure of $\text{Er}_2\text{BaNiO}_5$. *Solid State Communications*, **1990**, 76, 467-474 1.6 63
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- 337 Oxygen excess and superconductivity at 45 K in $\text{La}_2\text{CaCu}_2\text{O}_{6+y}$. *Physica C: Superconductivity and Its Applications*, **1990**, 170, 153-160 1.3 58
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330	FAULTS: a program for refinement of structures with extended defects. <i>Journal of Applied Crystallography</i> , 2016 , 49, 2259-2269	3.8	50
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325	Characterization of perovskite systems derived from Ba ₂ In ₂ O ₅ Part II: The proton compounds Ba ₂ In ₂ (1-x)Ti _{2x} O ₄ +2x(OH) _y [0 ≤ x ≤ 1; y ≤ 2(1-x)]. <i>Solid State Ionics</i> , 2004 , 170, 25-32	3.3	45
324	Revealing the Reactivity of the Iridium Trioxide Intermediate for the Oxygen Evolution Reaction in Acidic Media. <i>Chemistry of Materials</i> , 2019 , 31, 5845-5855	9.6	43
323	Spin-lattice coupling induced phase transition in the S=2 frustrated antiferromagnet CuMnO ₂ . <i>Physical Review B</i> , 2009 , 80,	3.3	43
322	Magnetic coupling induced by hole doping in perovskites La _{1-x} Ca _x MnO ₃ : A neutron scattering study. <i>Physical Review B</i> , 1999 , 60, 12299-12308	3.3	43
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316	Preparation and chemical properties of the skutterudites (Ce _{1-x} Y _x)Fe _{4-x} (Co/Ni) _x Sb ₁₂ . <i>Materials Research Bulletin</i> , 2005 , 40, 537-551	5.1	41
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313	Structural characterization of R ₂ BaNiO ₅ (R=Tm and Yb): polymorphism for R=Tm. <i>Solid State Communications</i> , 1991 , 78, 481-488	1.6	40

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310	Microstructural analysis of nickel hydroxide: Anisotropic size versus stacking faults. <i>Powder Diffraction</i> , 2005 , 20, 334-344	1.8	37
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257	Magnetic structures of the three-dimensional Heisenberg antiferromagnets K ₂ FeCl ₅ D ₂ O and Rb ₂ FeCl ₅ D ₂ O. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 4725-4738	1.8	22
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253	Pressure-induced change in the magnetic ordering of TbMnO ₃ . <i>Physical Review B</i> , 2011 , 84,	3.3	21
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248	Cation distribution and composition of the Tl-2223 superconductor from combined powder neutron and resonant X-ray diffraction. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 225, 307-316	1.3	21
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244	Influence of thermal history on crystal structure, microstructure and magnetic properties of TbFe ₆ Ge ₆ (II). <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 187, 293-308	2.8	20
243	Crystal Structure Refinement of the Layered Copper-Titanium Perovskites Ln ₂ Ba ₂ Cu ₂ Ti ₂ O ₁₁ (Ln = La, Nd) from Neutron Powder Diffraction Data. <i>Chemistry of Materials</i> , 1994 , 6, 2118-2122	9.6	20
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