

Javier Herrero Martin

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94
papers

1,365
citations

21
h-index

32
g-index

109
ext. papers

1,638
ext. citations

4.6
avg, IF

4.04
L-index

#	Paper	IF	Citations
94	Structural origin of dipole x-ray resonant scattering in the low-temperature phase of Nd _{0.5} Sr _{0.5} MnO ₃ . <i>Physical Review B</i> , 2004 , 70,	3.3	84
93	Femtosecond magnetically induced lattice distortions in multiferroic TbMnO ₃ . <i>Science</i> , 2011 , 333, 1273-6	33.3	79
92	Design and performance of BOREAS, the beamline for resonant X-ray absorption and scattering experiments at the ALBA synchrotron light source. <i>Journal of Synchrotron Radiation</i> , 2016 , 23, 1507-1517	7.4	75
91	Charge disproportionation in La _{1-x} Sr _x FeO ₃ probed by diffraction and spectroscopic experiments. <i>Physical Review B</i> , 2008 , 77,	3.3	73
90	Absence of Ferromagnetism in VSe ₂ Caused by Its Charge Density Wave Phase. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27802-27810	3.8	52
89	Magnetic structure of EuFe ₂ As ₂ as determined by resonant x-ray scattering. <i>Physical Review B</i> , 2009 , 80,	3.3	51
88	Valence change of praseodymium in Pr _{0.5} Ca _{0.5} CoO ₃ investigated by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2011 , 84,	3.3	41
87	Spin-state transition in Pr _{0.5} Ca _{0.5} CoO ₃ analyzed by x-ray absorption and emission spectroscopies. <i>Physical Review B</i> , 2012 , 86,	3.3	39
86	Two-dimensional electron gases at LaAlO ₃ /SrTiO ₃ interfaces: orbital symmetry and hierarchy engineered by crystal orientation. <i>Physical Review Letters</i> , 2014 , 113, 156802	7.4	34
85	Emerging Diluted Ferromagnetism in High- T _c Superconductors Driven by Point Defect Clusters. <i>Advanced Science</i> , 2016 , 3, 1500295	13.6	34
84	Biodegradable Metal-Organic Framework-Based Microrobots (MOFBOTs). <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001031	10.1	32
83	Evidence for charge-density-wave nature of the charge-ordered phase in La _{1/3} Sr _{2/3} FeO ₃ . <i>Physical Review B</i> , 2009 , 79,	3.3	29
82	Reexamination of the temperature dependences of resonant reflections in highly stoichiometric magnetite. <i>Physical Review Letters</i> , 2009 , 102, 176405	7.4	29
81	On the correlation between the X-ray absorption chemical shift and the formal valence state in mixed-valence manganites. <i>Journal of Synchrotron Radiation</i> , 2010 , 17, 386-92	2.4	28
80	Strong coupling of Sm and Fe magnetism in SmFeAsO as revealed by magnetic x-ray scattering. <i>Physical Review B</i> , 2011 , 84,	3.3	27
79	Electronically highly cubic conditions for Ru in RuCl ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	26
78	Growth of Sr _{2/3} Ln _{1/3} FeO ₃ (Ln=La, Pr, and Nd) single crystals by the floating zone technique. <i>Journal of Crystal Growth</i> , 2008 , 310, 3247-3250	1.6	26

77	Polarized x-ray absorption spectra of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_4$: Electronic state of Mn atoms. <i>Physical Review B</i> , 2005 , 72,	3-3	25
76	Synthetic Antiferromagnetic Coupling Between Ultrathin Insulating Garnets. <i>Physical Review Applied</i> , 2018 , 10,	4-3	24
75	Structural changes at the semiconductor-insulator phase transition in the single-layered perovskite $\text{La}_{0.5}\text{Sr}_{1.5}\text{MnO}_4$. <i>Physical Review B</i> , 2011 , 83,	3-3	22
74	Electronic and spin states of SrRuO_3 thin films: An x-ray magnetic circular dichroism study. <i>Physical Review B</i> , 2015 , 91,	3-3	21
73	Magnetic frustration, phase competition, and the magnetoelectric effect in $\text{NdFe}_3(\text{BO}_3)_4$. <i>Physical Review Letters</i> , 2012 , 109, 267202	7-4	21
72	Hard x-ray probe to study doping-dependent electron redistribution and strong covalency in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_4$. <i>Physical Review B</i> , 2010 , 82,	3-3	21
71	Origin of the resonant x-ray scattering in LaMnO_3 . <i>Physical Review B</i> , 2007 , 75,	3-3	21
70	Direct observation of multivalent states and 4f-3d charge transfer in Ce-doped yttrium iron garnet thin films. <i>Physical Review B</i> , 2017 , 96,	3-3	20
69	Epitaxial Stabilization of the Perovskite Phase in $(\text{Sr}_{1-x}\text{Ba}_x)\text{MnO}_3$ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23967-77	9-5	19
68	Structural distortion, charge modulation and local anisotropies in magnetite below the Verwey transition using resonant X-ray scattering. <i>Journal of Synchrotron Radiation</i> , 2012 , 19, 159-73	2-4	17
67	Double stripe ordering in $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ determined by resonant soft x-ray scattering. <i>Physical Review B</i> , 2006 , 73,	3-3	17
66	CrTe Thin Films for Integration in Magnetic Topological Insulator Heterostructures. <i>Scientific Reports</i> , 2019 , 9, 10793	4-9	16
65	REXS contribution to electronic ordering investigation in solids. <i>European Physical Journal: Special Topics</i> , 2012 , 208, 89-98	2-3	16
64	Orbital order at Mn and O sites and absence of Zener polaron formation in manganites. <i>Physical Review Letters</i> , 2009 , 103, 097205	7-4	15
63	X-ray absorption spectroscopic study on A_2FeReO_6 double perovskites. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 4963-4976	1-8	14
62	Imposing long-range ferromagnetic order in rare-earth-doped magnetic topological-insulator heterostructures. <i>Physical Review Materials</i> , 2018 , 2,	3-2	14
61	Low-field switching of noncollinear spin texture at $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{RuO}_3$ interfaces. <i>Physical Review B</i> , 2019 , 99,	3-3	14
60	Magnetic anisotropy and valence states in $\text{La}_2\text{Co}_{1-x}\text{Mn}_x\text{O}_6$ ($x=0.23$) thin films studied by x-ray absorption spectroscopy techniques. <i>Physical Review B</i> , 2017 , 95,	3-3	13

59	Symmetry and charge order in Fe ₂ OBO ₃ studied through polarized resonant x-ray diffraction. <i>Physical Review B</i> , 2010 , 82,	3.3	13
58	Hybrid YBa ₂ Cu ₃ O ₇ Superconducting/Ferromagnetic Nanocomposite Thin Films Prepared from Colloidal Chemical Solutions. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700037	6.4	11
57	Order-disorder nature of the antiferroelectric transition in Pb(2)MnWO(6). <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 075903	1.8	11
56	Electron doping effects on Sr ₂ FeReO ₆ . <i>Solid State Sciences</i> , 2009 , 11, 1535-1541	3.4	11
55	An x-ray spectroscopic study of A ₂ FeMoO ₆ and Sr ₂ Fe _{1-x} Cr _x MoO ₆ double perovskites. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 6877-6890	1.8	11
54	The emergence of magnetic ordering at complex oxide interfaces tuned by defects. <i>Nature Communications</i> , 2020 , 11, 3650	17.4	10
53	Evolution of ground-state wave function in CeCoIn ₅ upon Cd or Sn doping. <i>Physical Review B</i> , 2018 , 97,	3.3	9
52	Magnetic stability against calcining of microwave-synthesized CoFe ₂ O ₄ nanoparticles. <i>New Journal of Chemistry</i> , 2016 , 40, 6890-6898	3.6	9
51	Attosecond state-resolved carrier motion in quantum materials probed by soft x-ray XANES. <i>Applied Physics Reviews</i> , 2021 , 8, 011408	17.3	9
50	Nonstoichiometry Driven Ferromagnetism in Double Perovskite La ₂ Ni _{1-x} Mn _{1+x} O ₆ Insulating Thin Films. <i>Crystal Growth and Design</i> , 2019 , 19, 2765-2771	3.5	8
49	Incommensurate sinusoidal oxygen modulations in layered manganites La(1-x)Sr(1+x)MnO ₄ (x=0.5). <i>Physical Review Letters</i> , 2012 , 109, 107202	7.4	8
48	Electron doping versus antisite defects: Structural and magnetic properties of Sr _{2-x} LaxCrMoO ₆ and Sr _{2-x} LaxCr _{1+x/2} Mo _{1-x/2} O ₆ perovskites. <i>Solid State Sciences</i> , 2010 , 12, 750-758	3.4	8
47	Resonant x-ray scattering study of layered TbBaCo ₂ O _{5.5} . <i>Physical Review B</i> , 2008 , 78,	3.3	8
46	Aqueous Chemical Solution Deposition of Functional Double Perovskite Epitaxial Thin Films. <i>Chemistry - A European Journal</i> , 2020 , 26, 9338-9347	4.8	7
45	Magnetostructural coupling, magnetic ordering, and cobalt spin reorientation in metallic Pr _{0.5} Sr _{0.5} CoO ₃ cobaltite. <i>Physical Review B</i> , 2016 , 94,	3.3	7
44	Magnetic and electronic properties of the ferroelectric-photovoltaic ordered double perovskite CaMnTi ₂ O ₆ investigated by x-ray absorption spectroscopies. <i>Physical Review B</i> , 2018 , 97,	3.3	7
43	Tunnel-mediated coupling between antiferromagnetic thin films. <i>Physical Review B</i> , 2014 , 90,	3.3	7
42	The checkerboard pattern of Bi(0.63)Sr(0.37)MnO(3) determined using resonant x-ray scattering at the Mn K edge. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 235211	1.8	7

41	Heteroleptic Iron(II) Spin-Crossover Complexes Based on a 2,6-Bis(pyrazol-1-yl)pyridine-type Ligand Functionalized with a Carboxylic Acid. <i>Inorganic Chemistry</i> , 2019 , 58, 12199-12208	5.1	6
40	Direct observation of noncollinear order of Co and Mn moments in multiferroic Mn _{0.85} Co _{0.15} WO ₄ . <i>Physical Review B</i> , 2015 , 91,	3.3	6
39	Stability of the cationic oxidation states in Pr(0.50)Sr(0.50)CoO ₃ across the magnetostructural transition by X-ray absorption spectroscopy. <i>Inorganic Chemistry</i> , 2014 , 53, 8854-8	5.1	6
38	Resonant x-ray scattering in 3d-transition-metal oxides: Anisotropy and charge orderings. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012085	0.3	6
37	Spin state and structural changes at the metal-insulator transition in YBaCo ₂ O _{5.5} by synchrotron x-rays). <i>Journal of Applied Physics</i> , 2012 , 111, 07D710	2.5	6
36	Electronic and vibrational signatures of ruthenium vacancies in Sr ₂ RuO ₄ thin films. <i>Physical Review Materials</i> , 2019 , 3,	3.2	6
35	Magnetocapacitance effect and magnetoelectric coupling in type-II multiferroic HoFeWO ₆ . <i>Physical Review B</i> , 2021 , 103,	3.3	6
34	Control of coexisting magnetic phases by electric fields in NdFe ₃ (BO ₃) ₄ . <i>Physical Review B</i> , 2016 , 94,	3.3	5
33	Structural properties and singular phase transitions of metallic Pr _{0.50} Sr _{0.50} CoO ₃ cobaltite. <i>Inorganic Chemistry</i> , 2014 , 53, 12297-304	5.1	5
32	Electronic states of RFe ₂ O ₄ (R=Lu,Yb,Tm,Y) mixed-valence compounds determined by soft x-ray absorption spectroscopy and x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2014 , 90,	3.3	5
31	Possible multiorbital ground state in CeCu ₂ Si ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	5
30	Dynamic electric-field-induced magnetic effects in cobalt oxide thin films: towards magneto-ionic synapses.. <i>Nanoscale</i> , 2022 ,	7.7	5
29	Orbital Hybridization and Magnetic Coupling at CuprateManganite Interfaces Driven by Manganite Doping. <i>Advanced Quantum Technologies</i> , 2020 , 3, 2000016	4.3	4
28	EuFe ₂ As ₂ : Magnetic Structure and Local Charge Distribution Anisotropies as Seen by Resonant X-ray Scattering. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 705-709	1.5	4
27	Role of Pr cations and the low temperature transition in Pr _{0.50} Sr _{0.50} CoO ₃ : A comparison to Pr _{0.50} Ca _{0.50} CoO ₃ . <i>Physica B: Condensed Matter</i> , 2014 , 455, 56-59	2.8	3
26	Spin-lattice coupling across the singular magnetostructural transition in Pr _{0.5} Sr _{0.5} CoO ₃ by x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2015 , 92,	3.3	3
25	Probing and comparing electron doping and miss-site effects in Re-based double perovskites. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 216008	1.8	3
24	Structural, electrical and magnetic properties of RE _{1/3} Sr _{2/3} FeO ₃ compounds (RE = La, Pr, Nd, Eu and Gd). <i>Journal of Physics: Conference Series</i> , 2010 , 200, 012015	0.3	3

23	Magnetic properties of Cr-substituted $(\text{Fe}_{1-x}\text{Cr}_x)\text{Fe}_2\text{O}_3$ nanoparticles with epsilon structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 506, 166764	2.8	3
22	Enhanced Magnetism through Oxygenation of FePc/Ag(110) Monolayer Phases. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13993-14006	3.8	2
21	Embedded Magnetism in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Associated with Cu Vacancies within Nanoscale Intergrowths: Implications for Superconducting Current Performance. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3050-3059	5.6	2
20	Ground state and the metal-insulator transition in $(\text{Pr}_{1-y}\text{Y}_y)\text{Ca}_{1-x}\text{CoO}_3$ (0.45 $\leq x \leq$ 0.55) cobaltites. <i>Journal of the Korean Physical Society</i> , 2013 , 63, 791-794	0.6	2
19	Electronic, spin-state, and magnetic transitions in $\text{Ba}_2\text{Co}_9\text{O}_{14}$ investigated by x-ray spectroscopies and neutron diffraction. <i>Physical Review B</i> , 2017 , 95,	3.3	2
18	The low temperature magnetostructural transition in $\text{Pr}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$: Bulk versus thin film behavior. <i>Journal of Applied Physics</i> , 2014 , 115, 17D721	2.5	2
17	XAS Study of A_2FeMoO_6 Double Perovskite. <i>Physica Scripta</i> , 2005 , 471	2.6	2
16	Double-cell superstructure and vacancy ordering in tensile-strained metallic thin films of $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{CoO}_3$ on LaAlO_3 . <i>Physical Review Materials</i> , 2019 , 3,	3.2	2
15	Resonant x-ray scattering in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_4$ ($x \leq 0.5$): Incommensurate-lattice modulation vs. Charge-stripe models. <i>Journal of Physics: Conference Series</i> , 2014 , 519, 012008	0.3	1
14	Mn K edge resonant X-ray scattering of half-doped manganites. <i>European Physical Journal: Special Topics</i> , 2012 , 208, 107-119	2.3	1
13	Origin of incommensurate satellite reflections on TbMnO_3 by resonant x-ray scattering. <i>Journal of Physics: Conference Series</i> , 2013 , 430, 012101	0.3	1
12	Hard and soft x-rays XAS characterization of charge ordered LuFe_2O_4 . <i>Journal of Physics: Conference Series</i> , 2015 , 592, 012121	0.3	1
11	Determination of incommensurate lattice modulations in $\text{La}_{0.4}\text{Sr}_{1.6}\text{MnO}_4$ by resonant r-ray scattering. <i>Journal of Physics: Conference Series</i> , 2013 , 430, 012107	0.3	1
10	Soft resonant x-ray scattering in highly stoichiometric magnetite. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012088	0.3	1
9	A New Highly Anisotropic Rh-Based Heusler Compound for Magnetic Recording. <i>Advanced Materials</i> , 2020 , 32, e2004331	24	1
8	Tuning the tilting of the spiral plane by Mn doping in YBaCuFeO_5 multiferroic. <i>Acta Materialia</i> , 2021 , 206, 116608	8.4	1
7	Evidence for largest room temperature magnetic signal from Co^{2+} in antiphase-free & fully inverted CoFe_2O_4 in multiferroic-ferrimagnetic BiFeO_3 - CoFe_2O_4 nanopillar thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 530, 167940	2.8	1
6	Magnetic properties of a highly ordered single crystal of the layered perovskite $\text{YBaCuFe}_{0.95}\text{Mn}_{0.05}\text{O}_5$. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 551, 169165	2.8	0

- 5 Atomic origin of room-temperature two-dimensional itinerant ferromagnetism in an oxide-monolayer heterostructure. *Applied Materials Today*, **2021**, 24, 101101 6.6 o
- 4 Charge and orbital ordering in Fe and Mn perovskite oxides far from half-doping by resonant x-ray scattering. *Journal of Physics: Conference Series*, **2009**, 190, 012086 0.3
- 3 Resonant x-ray scattering at the forbidden reflections in Mn³⁺perovskites RE MnO₃(RE:La and Tb). *Journal of Physics: Conference Series*, **2009**, 190, 012087 0.3
- 2 Route to tunable room temperature electric polarization in SrTiO-CoFeO heterostructures. *Journal of Materials Chemistry C*, **2021**, 9, 5977-5984 7.1
- 1 Magnetic Frustration in a Zeolite. *Chemistry of Materials*, **2021**, 33, 9725-9731 9.6