

JosÃ© Antonio Alonso

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Evolution of the Jahn-Teller Distortion of MnO ₆ Octahedra in RMnO ₃ Perovskites (R = Pr, Nd, Dy, Tb.) Tj ETQq1 1 0.784314 rgBT /Overl	1.9	588
2	Charge Disproportionation in RNiO ₃ Perovskites: Simultaneous Metal-Insulator and Structural Transition in YNiO ₃ . Physical Review Letters, 1999, 82, 3871-3874.	2.9	355
3	A kinetic study of oxygen reduction reaction on La ₂ NiO ₄ cathodes by means of impedance spectroscopy. Journal of Electroanalytical Chemistry, 2007, 611, 107-116.	1.9	329
4	Magnetic structure of hexagonal RMnO ₃ (R=Y, Sc): Thermal evolution from neutron powder diffraction data. Physical Review B, 2000, 62, 9498-9510.	1.1	287
5	Recent Advances in Perovskite-Type Oxides for Energy Conversion and Storage Applications. Advanced Energy Materials, 2021, 11, 2000459.	10.2	285
6	Charge Ordering as Alternative to Jahn-Teller Distortion. Physical Review Letters, 2007, 98, .	2.9	241
7	Finding Universal Correlations between Cationic Disorder and Low Field Magnetoresistance in FeMo Double Perovskite Series. Physical Review Letters, 2001, 86, 2443-2446.	2.9	232
8	Complex Magnetism and Magnetic Structures of the Metastable HoMnO ₃ Perovskite. Inorganic Chemistry, 2001, 40, 1020-1028.	1.9	215
9	Raman phonons as a probe of disorder, fluctuations, and local structure in doped and undoped orthorhombic and rhombohedral manganites. Physical Review B, 2002, 66, .	1.1	215
10	Lithium Distribution in Aluminum-Free Cubic Li ₇ La ₃ Zr ₂ O ₁₂ . Chemistry of Materials, 2011, 23, 3587-3589.	3.2	205
11	Room-temperature monoclinic distortion due to charge disproportionation in RNiO ₃ perovskites with small rare-earth cations (R=Ho, Y, Er, Tm, Yb, and Lu): A neutron diffraction study. Physical Review B, 2000, 61, 1756-1763.	1.1	184
12	A High-Performance Monolithic Solid-State Sodium Battery with Ca ²⁺ -Doped Na ₃ Zr ₂ Si ₂ PO ₁₂ Electrolyte. Advanced Energy Materials, 2019, 9, 1901205.	10.2	174
13	Metal-Insulator Transitions, Structural and Microstructural Evolution of RNiO ₃ (R = Sm, Eu, Gd, Dy,) Tj ETQq1 1 0.784314 rgBT /Overl HoNiO ₃ and YNiO ₃ . Journal of the American Chemical Society, 1999, 121, 4754-4762.	6.6	171
14	SrFeO _{3-δ} Perovskite Oxides: Chemical Features and Performance for Methane Combustion. Chemistry of Materials, 2002, 14, 2325-2333.	3.2	165
15	Crystallographic and magnetic structure of $SrCoO_{3-\delta}$ Neutron study coupled with band-structure calculations. Physical Review B, 2008, 78, .	1.1	162
16	Evaluation of the La ₂ Ni _{1-x} Cu _x O _{4+δ} system as SOFC cathode material with 8YSZ and LSGM as electrolytes. Solid State Ionics, 2008, 179, 393-400.	1.3	161
17	A New Family of Mo-Doped SrCoO _{3-δ} Perovskites for Application in Reversible Solid State Electrochemical Cells. Chemistry of Materials, 2012, 24, 2655-2663.	3.2	157
18	Origin of neutron magnetic scattering in antite-disordered Sr ₂ FeMoO ₆ double perovskites. Physical Review B, 2002, 65, .	1.1	150

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19	Evolution of the Magnetic Structure of Hexagonal HoMnO ₃ from Neutron Powder Diffraction Data. Chemistry of Materials, 2001, 13, 1497-1505.	3.2	144
20	The magnetic structure of YMnO ₃ perovskite revisited. Journal of Physics Condensed Matter, 2002, 14, 3285-3294.	0.7	143
21	A structural study from neutron diffraction data and magnetic properties of (R = La, rare earth). Journal of Physics Condensed Matter, 1997, 9, 8515-8526.	0.7	130
22	Charge disproportionation in $R_{1-x}Ni_xO_{3-\delta}$ ($R = La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Y, Lu$) perovskites from high-resolution x-ray absorption spectroscopy. Physical Review B, 2009, 80, .	1.1	123
23	On the Location of Li ⁺ Cations in the Fast Li-Cation Conductor La _{0.5} Li _{0.5} TiO ₃ Perovskite. Angewandte Chemie - International Edition, 2000, 39, 619-621.	7.2	126
24	Specific heat and magnetic order in LaMnO ₃ . Physical Review B, 1999, 60, 12184-12190.	1.1	125
25	Intrinsic structural distortion and superexchange interaction in the orthorhombic rare-earth perovskites $R_{1-x}Cr_xO_{3-\delta}$ ($R = La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Y, Lu$). Physical Review B, 2010, 81, .	1.1	123
26	Magnetic structure and properties of BiMn ₂ O ₅ oxide: a neutron diffraction study. Physical Review B, 2002, 65, .	1.1	120
27	Induction of Colossal Magnetoresistance in the Double Perovskite Sr ₂ CoMoO ₆ . Chemistry of Materials, 2002, 14, 812-818.	3.2	117
28	Structure and Magnetic Properties of Sr ₂ CoWO ₆ : An Ordered Double Perovskite Containing Co ²⁺ (HS) with Unquenched Orbital Magnetic Moment. Chemistry of Materials, 2003, 15, 1655-1663.	3.2	114
29	Correlation between reconstructive phase transitions and transport properties from SrCoO _{2.5} brownmillerite: A neutron diffraction study. Solid State Sciences, 2008, 10, 1924-1935.	1.5	113
30	Enhanced magnetoresistance in the complex perovskite LaCu ₃ Mn ₄ O ₁₂ . Applied Physics Letters, 2003, 83, 2623-2625.	1.5	111
31	Preparation, Crystal Structure, and Magnetic and Magnetotransport Properties of the Double Perovskite Ca ₂ FeMoO ₆ . Chemistry of Materials, 2000, 12, 161-168.	3.2	108
32	High-temperature structural evolution of RNiO ₃ (R=Ho, Y, Er, Lu) perovskites: Charge disproportionation and electronic localization. Physical Review B, 2001, 64, .	1.1	106
33	SrCo _{1-x} Sb _x O ₃ perovskite oxides as cathode materials in solid oxide fuel cells. Journal of Power Sources, 2009, 192, 132-137.	4.0	103
34	Magnetic structure evolution of NdMnO ₃ derived from neutron diffraction data. Journal of Physics Condensed Matter, 2000, 12, 1361-1376.	0.7	101
35	Structure Distortion Induced Monoclinic Nickel Hexacyanoferrate as High-Performance Cathode for Na-Ion Batteries. Advanced Energy Materials, 2019, 9, 1803158.	10.2	93
36	Charge transfer and antiferromagnetic insulator phase in SrRu _{1-x} CrxO ₃ perovskites: Solid solutions between two itinerant electron oxides. Physical Review B, 2006, 73, .	1.1	92

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37	Non-stoichiometry, structural defects and properties of $\text{LaMnO}_{3+\delta}$ with high δ values (0.11 to 0.29). Journal of Materials Chemistry, 1997, 7, 2139-2144.	6.7	91
38	High Temperature Crystal Chemistry and Oxygen Permeation Properties of the Mixed Ionic-Electronic Conductors $\text{LnBaCo}_{2}\text{O}_{5+\delta}$ (Ln=Lanthanide). Journal of the Electrochemical Society, 2009, 156, B1376.	1.3	91
39	Electronic structure, local magnetism, and spin-orbit effects of Ir(IV)-, Ir(V)-, and Ir(VI)-based compounds. Physical Review B, 2015, 91, .	1.1	88
40	In situ high temperature neutron powder diffraction study of oxygen-rich $\text{La}_2\text{NiO}_{4+\delta}$ in air: correlation with the electrical behaviour. Journal of Materials Chemistry, 2006, 16, 3402-3408.	6.7	87
41	Structure and charge order in the antiferromagnetic band-insulating phase of NdNiO_3 . Physical Review B, 2009, 79, .	1.1	87
42	Double perovskite oxides A_2FeMoO_6 (A=Ca, Sr and Ba) as catalysts for methane combustion. Applied Catalysis B: Environmental, 2004, 53, 37-45.	10.8	86
43	Effects of Fluorine Doping on Structural and Electrochemical Properties of $\text{Li}_{6.25}\text{Ga}_{0.25}\text{La}_3\text{Zr}_2\text{O}_{12}$ as Electrolytes for Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2019, 11, 2042-2049.	4.0	85
44	Structural and Electrical Characterization of the Novel $\text{SrCo}_{0.9}\text{Sb}_{0.1}\text{O}_{3+\delta}$ Perovskite: Evaluation as a Solid Oxide Fuel Cell Cathode Material. Chemistry of Materials, 2007, 19, 6437-6444.	3.2	84
45	$\text{SrCo}_{0.95}\text{Sb}_{0.05}\text{O}_{3+\delta}$ as Cathode Material for High Power Density Solid Oxide Fuel Cells. Chemistry of Materials, 2010, 22, 789-798.	3.2	84
46	Structural and electrochemical properties of $\text{LiMn}_{0.6}\text{Fe}_{0.4}\text{PO}_4$ as a cathode material for flexible lithium-ion batteries and self-charging power pack. Nano Energy, 2018, 52, 510-516.	8.2	78
47	Crystal Structure Features of CsPbBr_3 Perovskite Prepared by Mechanochemical Synthesis. ACS Omega, 2020, 5, 5931-5938.	1.6	78
48	Studies of structural disorder in $\text{ReBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films (Re=rare earth) as a function of rare-earth ionic radius and film deposition conditions. Physica C: Superconductivity and Its Applications, 1994, 232, 288-308.	0.6	77
49	Evolution of the Crystal Structure of RVO_3 (R = La, Ce, Pr, Nd, Tb, Ho, Er, Tm, Yb, Lu, Y) Perovskites from Neutron Powder Diffraction Data. Inorganic Chemistry, 2008, 47, 2634-2640.	1.9	76
50	Record Seebeck coefficient and extremely low thermal conductivity in nanostructured SnSe. Applied Physics Letters, 2015, 106, .	1.5	73
51	Influence of carrier injection on the metal-insulator transition in electron- and hole-doped $\text{R}_{1-x}\text{AxNiO}_3$ perovskites. Physical Review B, 1995, 52, 13563-13569.	1.1	72
52	Spin-orbit-induced mixed-spin ground state in RNiO_3 perovskites probed by x-ray absorption spectroscopy: Insight into the metal-to-insulator transition. Physical Review B, 2005, 71, .	1.1	71
53	Preparation and structural study from neutron diffraction data of RCO_3 (R = Pr, Tb, Dy, Ho, Er, Tm, Y) perovskites. Journal of Materials Chemistry, 2001, 11, 107-114.	0.7	71
54	Co-free, iron perovskites as cathode materials for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2010, 195, 280-284.	4.0	70

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55	High Oxygen Pressure Preparation, Structural Refinement, and Thermal Behavior of RMn_2O_5 (R=La, Pr). <i>Tj ETQq1</i> 1,0,784314,rgBT /Ove	1.4	69
56	Effect of Sr content on the crystal structure and electrical properties of the system $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4 + \delta$ (0). <i>Tj ETQq0</i> 0,0,rgBT /Overlock 10	1.6	69
57	Structural effects of LaNiO_3 as electrocatalyst for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 363-371.	10.8	69
58	Defect $\text{LaCuO}_3 + \delta$ ($\delta = 0.05 \sim 0.45$) perovskites. <i>Applied Catalysis B: Environmental</i> , 2000, 26, 131-142.	10.8	68
59	Magnetic Structure of LaCrO_3 Perovskite under High Pressure from <i>In Situ</i> Neutron Diffraction. <i>Physical Review Letters</i> , 2011, 106, 057201.	1.6	67
60	Giant Seebeck effect in Ge-doped SnSe. <i>Scientific Reports</i> , 2016, 6, 26774.	1.6	67
61	Neutron diffraction study of the magnetic structure of $\text{Er}_2\text{BaNiO}_5$. <i>Solid State Communications</i> , 1990, 76, 467-474.	0.9	66
62	Characterization of $\text{La}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.5}\text{Ti}_{0.5}\text{O}_{3+\delta}$ as symmetrical electrode material for intermediate-temperature solid-oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18310-18318.	3.8	65
63	Oxygen-Deficient Perovskite $\text{Sr}_{0.7}\text{Y}_{0.3}\text{Co}_{2.65}\text{O}_{10-\delta}$ as a Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2011, 23, 5037-5044.	3.2	64
64	Elucidating the Methylammonium (MA) Conformation in MAPbBr_3 Perovskite with Application in Solar Cells. <i>Inorganic Chemistry</i> , 2017, 56, 14214-14219.	1.9	64
65	Neutron Diffraction Study of the Crystal Structure of BaMoO_4 : A Suitable Precursor for Metallic BaMoO_3 Perovskite. <i>Journal of Solid State Chemistry</i> , 1999, 146, 266-270.	1.4	63
66	Modified nickel oxides as cathode materials for MCFC. <i>Journal of Power Sources</i> , 2000, 86, 329-333.	4.0	63
67	Percolation-Limited Ionic Diffusion in $\text{Li}_{0.5-x}\text{Na}_x\text{La}_{0.5}\text{TiO}_3$ Perovskites (0 $\leq x \leq$ 0.5). <i>Chemistry of Materials</i> , 2002, 14, 5148-5152.	3.2	63
68	Defect-free-induced Na^{+} disordering in electrode materials. <i>Energy and Environmental Science</i> , 2021, 14, 3130-3140.	15.6	62
69	Magnetic structure of the HoNiO_3 perovskite. <i>Physical Review B</i> , 2001, 64, .	1.1	61
70	Structural Characterization and Polymorphism of R_2BaNiO_5 (R = Nd, Gd, Dy, Y, Ho, Er, Tm, Yb) Studied by Neutron Diffraction. <i>Journal of Solid State Chemistry</i> , 1993, 103, 322-333.	1.4	59
71	Magnetic structures of $\text{LaMnO}_3 + \delta$ perovskites ($\delta = 0.11, 0.15, 0.26$). <i>Solid State Communications</i> , 1997, 102, 7-12.	0.9	59
72	Raman phonons and light scattering in RMnO_3 (R=La, Pr, Nd, Ho, Er Tb and Y) orthorhombic and hexagonal manganites. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 494-497.	2.8	58

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73	Preparation, Crystal and Magnetic Structure, and Magnetotransport Properties of the Double Perovskite $\text{CaCu}_{2.5}\text{Mn}_{4.5}\text{O}_{12}$. <i>Chemistry of Materials</i> , 2003, 15, 2193-2200.	3.2	58
74	Short-range charge order in RNiO_3 perovskites (R=Pr, Nd, Eu, Y) probed by x-ray-absorption spectroscopy. <i>Physical Review B</i> , 2005, 71, .	1.1	58
75	High-Pressure Preparation, Crystal Structure, Magnetic Properties, and Phase Transitions in GdNiO_3 and DyNiO_3 Perovskites. <i>Chemistry of Materials</i> , 1999, 11, 2463-2469.	3.2	57
76	Preparation and structural study from neutron diffraction data of R_2MoO_6 (R=Dy, Ho, Er, Tm, Yb, Y). <i>Journal of Solid State Chemistry</i> , 2004, 177, 2470-2476.	1.4	57
77	Hole and Electron Doping of RNiO_3 (R = La, Nd). <i>Journal of Solid State Chemistry</i> , 1995, 116, 146-156.	1.4	56
78	Optimized energy conversion efficiency in solid-oxide fuel cells implementing $\text{SrMo}_{1-x}\text{Fe}_x\text{O}_3$ perovskites as anodes. <i>Journal of Power Sources</i> , 2012, 208, 153-158.	4.0	56
79	Preparation, Crystal Structure, and Metal-to-Insulator Transition of EuNiO_3 . <i>Journal of Solid State Chemistry</i> , 1995, 120, 170-174.	1.4	55
80	Record saturation magnetization, Curie temperature, and magnetoresistance in $\text{Sr}_2\text{FeMoO}_6$ double perovskite synthesized by wet-chemistry techniques. <i>Applied Physics Letters</i> , 2004, 85, 266-268.	1.5	55
81	Preparation, crystal and magnetic structures of two new double perovskites: $\text{Ca}_2\text{CoTeO}_6$ and $\text{Sr}_2\text{CoTeO}_6$. <i>Journal of Materials Chemistry</i> , 2005, 15, 993-1001.	6.7	54
82	Preparation, neutron structural study and characterization of BaNbO_3 : A Pauli-like metallic perovskite. <i>Materials Research Bulletin</i> , 1995, 30, 201-208.	2.7	53
83	Vibrational spectra and force field calculation of $\text{A}_2\text{Mn}_2\text{O}_7$ (A = Y, Dy, Er, Yb) pyrochlores. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 240-243.	1.2	53
84	Room Temperature Magnetoresistance and Cluster-Glass Behavior in the $\text{Tl}_{2-x}\text{Bi}_x\text{Mn}_2\text{O}_7$ (0 ≤ x ≤ 0.5) Pyrochlore Series. <i>Physical Review Letters</i> , 1999, 82, 189-192.	2.9	51
85	Neutron diffraction study, magnetism and magnetotransport of stoichiometric CaVO_3 perovskite with positive magnetoresistance. <i>Journal of Solid State Chemistry</i> , 2004, 177, 3099-3104.	1.4	51
86	An Oxygen-Deficient Perovskite as Selective Catalyst in the Oxidation of Alkyl Benzenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6557-6561.	7.2	51
87	Crystal Structure, Phase Transitions, and Magnetic Properties of Iridium Perovskites $\text{Sr}_{2-x}\text{M}_x\text{IrO}_6$ (M = Ni, Zn). <i>Inorganic Chemistry</i> , 2013, 52, 11013-11022.	1.9	51
88	Switching from ferro- to antiferromagnetism in A_2CrSbO_6 (A = Ca, Sr) double perovskites: a neutron diffraction study. <i>Journal of Materials Chemistry</i> , 2007, 17, 3555.	6.7	49
89	Non-one-dimensional behavior in charge-ordered structurally quasi-one-dimensional $\text{Sr}_{2-x}\text{Co}_x\text{Mn}_2\text{O}_7$. <i>Physical Review B</i> , 2005, 71, 040401.	1.1	49
90	Magnetic Interactions in the Double Perovskites $\text{R}_{2-x}\text{NiMnO}_6$ (R = Tb, Ho, Er, Tm) Investigated by Neutron Diffraction. <i>Inorganic Chemistry</i> , 2015, 54, 10890-10900.	1.9	49

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91	A New Perovskite Polytype in the High-Pressure Sequence of BaR_3O_3 . Journal of the American Chemical Society, 2009, 131, 7461-7469.	6.6	48
92	Defective Ni Perovskites as Cathode Materials in Intermediate-Temperature Solid-Oxide Fuel Cells: A Structure-Properties Correlation. Chemistry of Materials, 2010, 22, 1071-1079.	3.2	48
93	New Nb-doped $\text{SrCo}_{1-x}\text{Nb}_x\text{O}_{3-\delta}$ perovskites performing as cathodes in solid-oxide fuel cells. International Journal of Hydrogen Energy, 2014, 39, 14349-14354.	3.8	48
94	Experimental visualization of the diffusion pathway of sodium ions in the $\text{Na}_3[\text{Ti}_2\text{P}_2\text{O}_{10}\text{F}]$ anode for sodium-ion battery. Scientific Reports, 2014, 4, 7231.	1.6	48
95	Crystal Structure Refinement of MgNb_2O_6 Columbite from Neutron Powder Diffraction Data and Study of the Ternary System $\text{MgO}-\text{Nb}_2\text{O}_5-\text{NbO}$, with Evidence of Formation of New Reduced Pseudobrookite $\text{Mg}_5\text{Nb}_4\text{O}_{15}$ (1.14% x 1.60) Phases. Journal of Solid State Chemistry, 1997, 134, 76-84.	1.4	46
96	Microscopic nature of the electron doping effects in the double perovskite $\text{Sr}_{2-x}\text{La}_x\text{FeMoO}_6$ ($0 \leq x \leq 1$) series. Journal of Materials Chemistry, 2003, 13, 1771-1777.	6.7	46
97	Tristrontium dialuminum hexaoxide: an intricate superstructure of perovskite. Inorganic Chemistry, 1990, 29, 4768-4771.	1.9	45
98	Energy-dispersive X-ray absorption spectroscopy at LNLs: investigation on strongly correlated metal oxides. Journal of Synchrotron Radiation, 2010, 17, 93-102.	1.0	44
99	$\text{Ca}_{0.5}\text{CoO}$. http://www.w3.org/1998/Math/MathML display="inline" $\text{Ca}_{0.5}\text{CoO}$	1.1	44
100	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. Journal of Materials Chemistry A, 2020, 8, 14822-14828.	5.2	44
101	Enhancement of the Curie Temperature along the Perovskite Series $\text{RCu}_3\text{Mn}_4\text{O}_{12}$ Driven by Chemical Pressure of R^{3+} Cations (R = Rare Earths). Inorganic Chemistry, 2010, 49, 5679-5685.	1.9	43
102	Low activation energies for interstitial oxygen conduction in the layered perovskites $\text{La}_{1+x}\text{Sr}_{1-x}\text{InO}_{4+\delta}$. Journal of Materials Chemistry A, 2015, 3, 17797-17803.	5.2	43
103	Structure of Fast Ion Conductors $\text{Li}_3\text{La}_{2/3}\text{xTiO}_3$ Deduced from Powder Neutron Diffraction Experiments. Chemistry of Materials, 2005, 17, 2404-2412.	3.2	42
104	Synthesis, structure and magnetic properties of the new double perovskite $\text{Ca}_2\text{CrSbO}_6$. Solid State Communications, 2006, 139, 19-22.	0.9	42
105	A structural and magnetic study of the defect perovskite from high-resolution neutron diffraction data. Journal of Physics Condensed Matter, 1997, 9, 6417-6426.	0.7	41
106	Reflectivity, transmission, and photoinduced infrared spectra of NdNiO_3 . Physical Review B, 1997, 56, 986-989.	1.1	41
107	On Characterization of Barium Rare-Earth Antimonates: Ordered Perovskites Suitable as Substrates for Superconducting Films. Journal of Solid State Chemistry, 1997, 128, 247-250.	1.4	41
108	Study of the valence state and electronic structure in Sr_2FeMO_6 (M = W, Mo, Re and Sb) double perovskites. Physical Chemistry Chemical Physics, 2010, 12, 13616.	1.3	41

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109	New families of Mn ⁺ -doped SrCo _{1-x} MxO ₃ perovskites performing as cathodes in solid-oxide fuel cells. International Journal of Hydrogen Energy, 2015, 40, 11333-11341.	3.8	41
110	Enhanced figure of merit in nanostructured (Bi,Sb) ₂ Te ₃ with optimized composition, prepared by a straightforward arc-melting procedure. Scientific Reports, 2017, 7, 6277.	1.6	41
111	Effects of high vacancy concentrations on the magnetic properties of La _{1-x} Mn _{1-y} O ₃ (0.02 ≤ x ≤ 0.12, 0 ≤ y ≤ 0.13). Journal of Applied Physics, 1998, 83, 394-399.	1.1	40
112	Structural Modifications Induced by High-Temperature Quenching Treatments in the Fast Ion Conductor Li _{0.18} La _{0.61} TiO ₃ : A Neutron Diffraction Study. Chemistry of Materials, 2003, 15, 4637-4641.	3.2	40
113	Optical to ultraviolet spectra of sandwiches of benzene and transition metal atoms: Time dependent density functional theory and many-body calculations. Journal of Chemical Physics, 2010, 132, 044314.	1.2	40
114	Experimental evidence for bipolaron condensation as a mechanism for the metal-insulator transition in rare-earth nickelates. Nature Communications, 2018, 9, 86.	5.8	40
115	Imaging the diffusion pathway of Al ³⁺ ion in NASICON-type (Al _{0.2} Zr ₁) ₂ ETQq1.1. Chinese Physics B, 2018, 27, 128201.	0.7	39
116	Neutron powder diffraction study of the influence of high oxygen pressure treatments on La ₂ NiO ₄ and structural analysis of La ₂ Ni _{1-x} Cu _x O ₄ (0 ≤ x ≤ 1). Journal of Power Sources, 2005, 151, 52-56.	4.0	38
117	In situ high temperature neutron powder diffraction study of La ₂ Ni _{0.6} Cu _{0.4} O ₄ in air: Correlation with the electrical behaviour. Journal of Power Sources, 2007, 169, 17-24.	4.0	38
118	Magnetic and electronic properties of RNiO ₃ (R = Pr, Nd, Eu, Ho and Y) perovskites studied by resonant soft x-ray magnetic powder diffraction. Journal of Physics Condensed Matter, 2011, 23, 036002.	0.7	38
119	Structural changes produced during heating of the fast ion conductor Li _{0.18} La _{0.61} TiO ₃ . A neutron diffraction study. Journal of Solid State Chemistry, 2004, 177, 1157-1164.	1.4	37
120	Synthesis, Structural, and Magnetic Characterization of a New Ferrimagnetic Oxide: YFeMnO ₅ . Chemistry of Materials, 2004, 16, 4087-4094.	3.2	37
121	Lattice dynamical study of optical modes in Ti ₂ Mn ₂ O ₇ and In ₂ Mn ₂ O ₇ pyrochlores. Physical Review B, 2004, 69, .	1.1	36
122	Crystal structure and magnetism of the double perovskites Sr ₃ Fe ₂ TeO ₉ and Ba ₃ Fe ₂ TeO ₉ : a neutron diffraction study. Journal of Materials Chemistry, 2006, 16, 4235.	6.7	36
123	SrMo _{0.9} Co _{0.1} O ₃ : A potential anode for intermediate-temperature solid-oxide fuel cells (IT-SOFC). Journal of Power Sources, 2014, 258, 76-82.	4.0	36
124	Volume-wise destruction of the antiferromagnetic Mott insulating state through quantum tuning. Nature Communications, 2016, 7, 12519.	5.8	36
125	How oxidation state and lattice distortion influence the oxygen evolution activity in acid of iridium double perovskites. Journal of Materials Chemistry A, 2021, 9, 2980-2990.	5.2	36
126	Metal-insulator phase transitions of SmNiO ₃ and PrNiO ₃ : fElectrons in a polaronic medium. Physical Review B, 1999, 60, 5304-5311.	1.1	35

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127	Crystallographic and magnetic transitions in CeVO ₃ : A neutron diffraction study. <i>Physical Review B</i> , 2003, 68, .	1.1	35
128	Crystal Structure and Magnetism of the Double Perovskite Sr ₃ Fe ₂ MoO ₉ : A Neutron Diffraction Study. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 1559-1564.	1.0	35
129	Resonant x-ray scattering experiments on electronic orderings in NdNiO ₃ single crystals. <i>Physical Review B</i> , 2005, 71, .	1.1	35
130	Crystal and magnetic structure of the complex oxides Sr ₂ MnMoO ₆ , Sr ₂ MnWO ₆ and Ca ₂ MnWO ₆ : a neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 8817-8830.	0.7	34
131	Preparation and structural study from neutron diffraction data of Pr ₅ Mo ₃ O ₁₆ . <i>Journal of Solid State Chemistry</i> , 2010, 183, 2974-2978.	1.4	34
132	Crystal and Magnetic Structure of Sr ₂ MReO ₆ (M = Ni, Co, Zn) Double Perovskites: A Neutron Diffraction Study. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 588-595.	1.0	33
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