Zdenek Jirak

List of Publications by Year
in descending order

215 papers	5,610 citations	87723 38 h-index	102304 66 g-index
225 all docs	225 docs citations	225 times ranked	3634 citing authors

#	Article	IF	Citations
1	Neutron diffraction study of Pr1 â^' xCaxMnO3 perovskites. Journal of Magnetism and Magnetic Materials, 1985, 53, 153-166.	1.0	790
2	Structure and magnetic properties of Pr1â^'xSrxMnO3 perovskites. Journal of Solid State Chemistry, 1992, 100, 292-300.	1.4	214
3	Interplay between transport, magnetic, and ordering phenomena inSm1â^'xCaxMnO3. Physical Review B, 1999, 60, 14057-14065.	1.1	146
4	Magnetism and charge ordering inPr0.5CaxSr0.5â^'xMnO3(x=0.09â€,andâ€,0.5). Physical Review B, 2000, 61, 1181-1188.	1.1	146
5	Structural anomalies associated with the electronic and spin transitions in LnCoO3. European Physical Journal B, 2005, 47, 213-220.	0.6	137
6	Ferromagnetism versus charge ordering in thePr0.5Ca0.5MnO3andLa0.5Ca0.5MnO3nanocrystals. Physical Review B, 2010, 81, .	1.1	115
7	Temperature- and pressure-driven spin-state transitions inLaCoO3. Physical Review B, 2007, 75, .	1.1	105
8	Spin state ofLaCoO3: Dependence onCoO6octahedra geometry. Physical Review B, 2005, 71, .	1.1	104
9	A neutron diffraction study of H, Na-Y zeolites. Journal of Physics and Chemistry of Solids, 1980, 41, 1089-1095.	1.9	100
10	Structural and magnetization study of Pr1â^'xCaxMnO3. Journal of Magnetism and Magnetic Materials, 1980, 15-18, 519-520.	1.0	91
11	Structural study of the electron-doped manganites Sm0.1Ca0.9MnO3 and Pr0.1Sr0.9MnO3: Evidence of phase separation. Physical Review B, 2000, 62, 6442-6449.	1.1	85
12	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>GGA</mml:mtext><mml:mo>+</mml:mo><mml:mi>U</mml:mi></mml:mrow></mml:math> of correlated spin excitations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaCoO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml: Physical Review B, 2009, 79, .	1.1	84
13	Neutron diffraction study of the modulated structure of Bi2(Sr, Ca)3Cu2O8+y. Physica C: Superconductivity and Its Applications, 1990, 166, 79-86.	0.6	81
14	X-ray absorption near-edge spectroscopy study of Mn and Co valence states inLaMn1â^'xCoxO3(x=0â€“1). Physical Review B, 2006, 73, .	1.1	74
15	Character of the excited state of the Co3+ion in LaCoO3. Journal of Physics Condensed Matter, 2006, 18, 3285-3297.	0.7	74
16	Influence of Mn-site doping upon orbital and charge ordering in the Pr0.5A0.5Mn1â^'xMxO3 manganites (A=Sr, Ca and M=Cr, Al). Journal of Magnetism and Magnetic Materials, 1999, 202, 11-21.	1.0	70
17	Electrical resistivity and thermopower measurements of the hole- and electron-doped cobaltites<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="italic">Ln</mml:mi><mml:mtext>CoO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow><m Physical Review B, 2008, 78, .	1.1	70
18	Coexistence of antiferromagnetism and ferromagnetism inCa1â^'xPrxMnO3â€,(x<~0.1)manganites. Physical Review B, 2000, 62, 9532-9537.	1.1	65

#	Article	IF	Citations
19	Two C-type antiferromagnets with different magnetoresistive properties: Sm0.15Ca0.85MnO3 and Pr0.15Sr0.85MnO3. Journal of Magnetism and Magnetic Materials, 1999, 205, 184-198.	1.0	64
20	Metal-insulator transition and the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Pr</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow> shift in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:m. Physical Review B, 2010, 82, .	1.1	63
21	Charge transfer, valence, and the metal-insulator transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Pr</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.5</mml:mn> Physical Review B, 2010, 81, .	1.1	59
22	Distribution of cations in nanosize and bulk Coâ€“Zn ferrites. Nanotechnology, 2011, 22, 345701.	1.3	57
23	Electric transport and magnetic properties of perovskites LaMn1â^'xCoxO3up to 900 K. Journal of Physics Condensed Matter, 2005, 17, 1601-1616.	0.7	53
24	Structural, magnetic, and transport properties of the single-layered perovskitesLa2â^'xSrxCoO4(x=1.0â€“1.4). Physical Review B, 2006, 74, .	1.1	50
25	The magnetic and hyperthermia studies of bare and silica-coated La0.75Sr0.25MnO3 nanoparticles. Journal of Nanoparticle Research, 2011, 13, 1237-1252.	0.8	50
26	Synthesis and magnetic properties of Co1â^'xZnxFe2O4+Î³ nanoparticles as materials for magnetic fluid hyperthermia. Journal of Magnetism and Magnetic Materials, 2010, 322, 2386-2389.	1.0	47
27	Charge ordering and structural transitions in Pr0.5Sr0.41Ca0.09MnO3. Journal of Magnetism and Magnetic Materials, 1998, 190, 221-232.	1.0	45
28	Details of structural and magnetic transitions in Pr0.5Ca0.5â^'xSrxMnO3 perovskites. Journal of Magnetism and Magnetic Materials, 1999, 206, 45-67.	1.0	45
29	Neutron diffraction and heat capacity studies of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>PrCoO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:mrow> xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NdCoO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:mrow> Physical Review B, 2009, 79, .	1.1	45
30	Study of Pr1â^'xMn1+xO3 perovskites. Journal of Solid State Chemistry, 1980, 35, 262-266.	1.4	43
31	Structure and magnetism in the Pr1â^'xNaxMnO3 perovskites (0 â©½ x â©½ 0.2). Journal of Magnetism and Magnetic Materials, 2002, 250, 275-287.	1.0	43
32	Neutron scattering evidence for magnetic-field-driven abrupt magnetic and structural transitions in a phase-separated manganite. Physical Review B, 2003, 68, .	1.1	43
33	Temperature Dependence of 55Mn NMR in Pr0.7Ca0.15Sr0.15MnO3 and Pr0.7Ba0.3MnO3 Ferromagnetic Manganites. Physical Review Letters, 1997, 79, 4278-4281.	2.9	41
34	Structure, Magnetism, and Transport Properties of Pr1-xSrxMnO3 (x = 0.45â^'0.75) up to 1200 K. Chemistry of Materials, 2004, 16, 1104-1110.	3.2	41
35	Magnetic and Structural Transitions in the Half-Doped Manganites Pr0.5Sr0.5-xCaxMnO3. Chemistry of Materials, 1999, 11, 536-541.	3.2	40
36	Structure and superconductivity in Y1â^'xCaxBa2Cu3O7. Physica C: Superconductivity and Its Applications, 1988, 156, 750-754.	0.6	39

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37	Magnetic phase diagram of the charge ordered manganite Pr0.8Na0.2MnO3. Journal of Applied Physics, 2001, 89, 7413-7415.	1.1	39
38	The magnetic structure of Pr0.9Ca0.1MnO3. Physica Status Solidi A, 1979, 52, K39-K43.	1.7	38
39	Magnetic and Moessbauer resonance investigations of the weak ferrimagnet iron molybdate (Fe2(MoO4)3). Inorganic Chemistry, 1982, 21, 4218-4223.	1.9	38
40	Detailed study of the structural and magnetic transitions in Pr1â^'xSrxMnO3 single crystals (0.48â©½xâ©½0.57). Journal of Magnetism and Magnetic Materials, 2002, 246, 290-296.	1.0	38
41	Structure and Properties of the Pr1â^'xKxMnO3Perovskites (x=0â€“0.15). Journal of Solid State Chemistry, 1997, 132, 98-106.	1.4	37
42	Non-collinear magnetic structures of TbCoO3 and DyCoO3. Solid State Sciences, 2014, 28, 26-30.	1.5	37
43	Crystal field and magnetism of Pr³⁺and Nd³⁺ions in orthorhombic perovskites. Journal of Physics Condensed Matter, 2013, 25, 446001.	0.7	36
44	Study of the modulated structure of Bi2(Sr, Ca)3Cu2O8+Î³ in the range 8â€“920 K. Physica C: Superconductivity and Its Applications, 1990, 171, 19-24.	0.6	35
45	Canted structures in the Mn3+/Mn4+ perovskites. Journal of Applied Physics, 1997, 81, 5790-5792.	1.1	35
46	Ferromagneticâ€“antiferromagnetic transition in tetragonal La0.50Sr0.50MnO3. Journal of Magnetism and Magnetic Materials, 2000, 217, 113-119.	1.0	34
47	Structure and physical properties ofYCoO3at temperatures up to1000K. Physical Review B, 2006, 73, .	1.1	34
48	Ordering phenomena and transport properties of Bi1/2Sr1/2MnO3 single crystals. Journal of Applied Physics, 2003, 93, 7370-7372.	1.1	33
49	Valence Shift of Pr Ion from 3+ to 4+ in (Pr_{1-y}Y_y)_{0.7}Ca_{0.3}CoO₃ Estimated by X-Ray Absorption Spectroscopy. Journal of the Physical Society of Japan, 2012, 81, 064709.	0.7	33
50	Phase transition in Pr0.5Ca0.5CoO3 and related cobaltites. European Physical Journal B, 2013, 86, 1.	0.6	33
51	Irreversible photoinduced insulator-metal transition in the Na-doped manganitePr0.75Na0.25MnO3. Physical Review B, 2002, 65, .	1.1	32
52	Magnetism and transport inPr1â^'xSrxMnO3single crystals(0.48<~x<~0.57). Physical Review B, 2002, 66, .	1.1	31
53	Structural and Magnetic Transitions in CaMn1-xWxO3. Chemistry of Materials, 2007, 19, 4243-4251.	3.2	31
54	On the magnetic properties of Gd implanted GaN. Journal of Applied Physics, 2008, 103, 07D107.	1.1	30

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55	Crystal structure of dehydrated LiNa-A type zeolites. Zeolites, 1983, 3, 255-258.	0.9	29
56	Suppression of the charge ordered state in Pr0.75Na0.25MnO3at high pressure. Journal of Physics Condensed Matter, 2004, 16, 5883-5895.	0.7	29
57	The localization of protons in decationated Y type zeolites by neutron diffraction. Journal of Catalysis, 1977, 49, 112-114.	3.1	28
58	Magnetic phase transition in (La,Na) manganites. Physical Review B, 1998, 57, 13379-13381.	1.1	28
59	High pressure effects on the crystal and magnetic structure of Pr1ÂxSrxMnO3manganites (x= 0.5â€“0.56). Journal of Physics Condensed Matter, 2004, 16, 2381-2394.	0.7	28
60	NMR evidence of the magnetic phase separation inPr0.5Ca0.2Sr0.3MnO3manganite. Physical Review B, 2000, 62, 545-549.	1.1	27
61	Structural and Magnetotransport Transitions in the Electron-Doped Pr1-xSrxMnO3(0.85 â‰¤xâ‰¤ 1) Manganites. Chemistry of Materials, 2000, 12, 1456-1462.	3.2	27
62	Distribution of protons and cations in sodium H-Y zeolites. The Journal of Physical Chemistry, 1981, 85, 3856-3859.	2.9	26
63	Neutron diffraction study of crystal and magnetic structures of BaTi0.6Mg0.6Fe10.8O19 and BaTi2Co2Fe8O19. Journal of Magnetism and Magnetic Materials, 1990, 87, 243-249.	1.0	25
64	Correlation of the size effect with the thermoelectric power for the Pr-based manganitesPr0.7Ca0.3â^'xSrxMnO3. Physical Review B, 1996, 54, 11947-11950.	1.1	25
65	The magnetic and neutron diffraction studies of La1â^'Sr MnO3 nanoparticles prepared via molten salt synthesis. Journal of Solid State Chemistry, 2015, 221, 364-372.	1.4	25
66	Structural anomalies, spin transitions, and charge disproportionation in LnCoO3. Journal of Applied Physics, 2008, 103, 07B703.	1.1	24
67	A neutron diffraction study of crystal and domain structure in LiKSO4. Physica Status Solidi A, 1984, 83, K117-K121.	1.7	23
68	Thermal conductivity and magnetic transitions in Mn3+/Mn4+ manganites. Journal of Applied Physics, 1998, 83, 7204-7206.	1.1	23
69	Temperature dependence of distribution of cations in MnFe2O4. European Physical Journal D, 1974, 24, 642-647.	0.4	22
70	Stabilization of the high-spin state of Co3+in LaCo1â^'xRhxO3. Physical Review B, 2012, 85, .	1.1	22
71	Preparation of Mn-Zn ferrite nanoparticles and their silica-coated clusters: Magnetic properties and transverse relaxivity. Journal of Magnetism and Magnetic Materials, 2017, 427, 251-257.	1.0	22
72	Structural modulation, oxygen content and transport properties in Bi2.13Sr1.87CuO6+y and Bi2.05Sr1.54La0.41CuO6+y superconductors. Physica C: Superconductivity and Its Applications, 1994, 222, 375-385.	0.6	21

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73	Structure and magnetic order in Y 1-x Ca x MnO 3 (x = 0.3 and 0.5). Applied Physics A: Materials Science and Processing, 2002, 74, s673-s676.	1.1	21
74	Fluorescent magnetic nanoparticles for cell labeling: Flux synthesis of manganite particles and novel functionalization of silica shell. Journal of Colloid and Interface Science, 2015, 447, 97-106.	5.0	21
75	Oxygen content and superconductivity inY0.8Ca0.2Ba2Cu3Oy(y=6.03â€“6.89). Physical Review B, 1996, 54, 16226-16233.	1.1	19
76	Pr0.5Sr0.5-xBaxMnO3: Size and Mismatch Effects on Structural and Magnetic Transitions. Chemistry of Materials, 2003, 15, 1886-1896.	3.2	19
77	Spin-state crossover and low-temperature magnetic state in yttrium-doped Pr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub></mml:math>Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub></mml:math>CoO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	1.1	19
78	Mn-Zn ferrite nanoparticles coated with mesoporous silica as core material for heat-triggered release of therapeutic agents. Journal of Magnetism and Magnetic Materials, 2019, 475, 429-435.	1.0	19
79	Structure and properties of a novel cobaltate La0.30CoO2. Journal of Solid State Chemistry, 2011, 184, 2231-2237.	1.4	17
80	Magnetic and magnetotransport properties of misfit cobaltate Ca3Co3.93O9+Î´. Journal of Applied Physics, 2012, 111, .	1.1	17
81	The superspin glass transition in zinc ferrite nanoparticles. Journal of Applied Physics, 2015, 117, .	1.1	17
82	Design of 0â€“3 type nanocomposites using hydrothermal sintering. Scripta Materialia, 2018, 148, 15-19.	2.6	17
83	Structure and magnetic state of hydrothermally prepared Mn-Zn ferrite nanoparticles. Journal of Alloys and Compounds, 2021, 888, 161471.	2.8	17
84	Preparation and the crystal structure of a new manganate, Sr4Mn3O10. Journal of Solid State Chemistry, 1988, 73, 520-523.	1.4	16
85	Thermal anomalies and the insulatorâ€“metal (Iâ€“M) transition in Mn3+/Mn4+ perovskites. Journal of Applied Physics, 1997, 81, 4975-4976.	1.1	16
86	Charge and spin configurations in Pr 1-x Ca x MnO 3 (x=0.5-0.75). Applied Physics A: Materials Science and Processing, 2002, 74, s1755-s1757.	1.1	16
87	Magnetism, structure and transport of Y1âˆ’Ca CoO3 and La1âˆ’Ba CoO3. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E283-E284.	1.0	16
88	A55Mn NMR study of the La0.75Sr0.25MnO3 nanoparticles. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 155-158.	0.8	16
89	Pressure-induced structural transformations, orbital order and antiferromagnetism in La0.75Ca0.25MnO3. European Physical Journal B, 2013, 86, 1.	0.6	16
90	Magnetic properties of La1âˆ’xSrxMnO3 nanoparticles prepared in a molten salt. Journal of Applied Physics, 2014, 115, 17B525.	1.1	16

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91	Crystal structures of ferroelectric phases F_{R(LT})/F_{R(HT}) in PbZr_{0.75}Ti_{0.25}O₃solid solutions and their dependence on temperature. Ferroelectrics, 1988, 82, 79-84.	0.3	15
92	Pr0.5Ca0.5Mn0.97Ga0.03O3, a strongly strained system due to the coexistence of two orbital ordered phases at low temperature. Journal of Solid State Chemistry, 2005, 178, 1652-1660.	1.4	15
93	Magnetic ground state and the spin-state transitions in YBaCo2O5.5. European Physical Journal B, 2009, 70, 327-334.	0.6	15
94	Spin-entropy contribution to thermopower in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>[</mml:mo><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Co</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>â€“</mml:mo><mml:mi>t</mml:mi></mml:mrow><mml:mo>]</mml:mo></mml:mrow><mml:mi>n</mml:mi></mml:msub></mml:mrow></mml:math> Physical Review B, 2015, 92, .	1.1	15
95	High pressure effects on the crystal and magnetic structure of nanostructured manganites La0.63Sr0.37MnO3 and La0.72Sr0.28MnO3. Journal of Alloys and Compounds, 2015, 646, 998-1003.	2.8	15
96	Magnetic ground states in Pr1âˆ’xSrxMnO3 (x=0.48âˆ’0.75). Journal of Applied Physics, 2001, 89, 7404-7406.	1.1	14
97	Structural study of Pr0.8Na0.2MnO3 at high pressure. Journal of Magnetism and Magnetic Materials, 2003, 267, 120-126.	1.0	14
98	Thermally and field-driven spin-state transitions in (Pr1âˆ’yYy)0.7Ca0.3CoO3. Journal of Applied Physics, 2011, 109, .	1.1	14
99	Simultaneous valence shift of Pr and Tb ions at the spin-state transition in (Pr<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.1	14
100	Pressure-induced antiferromagnetism and compression anisotropy in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Pr</mml:mi><mml:mn>0.52</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mn>0.48</mml:mn></mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physi	1.1	13
101	Transition from the diamagnetic insulator to ferromagnetic metal in. Journal of Magnetism and Magnetic Materials, 2010, 322, 1221-1223.	1.0	13
102	Magnetism of perovskite cobaltites with Kramers rare-earth ions. Journal of Applied Physics, 2014, 115, .	1.1	13
103	Neutron diffraction study of the modulated structure of Bi2Sr3âˆ’xYxCu2O8+Î´(xâ‰¤0.6). Physica C: Superconductivity and Its Applications, 1993, 206, 27-32.	0.6	12
104	Magnetic and transport properties ofPr0.65Ca0.21Sr0.14MnO3andPr0.65Ba0.35MnO3single crystals. Physical Review B, 2000, 61, 6896-6901.	1.1	12
105	Two dimensional metallic conductivity in Pr[sub 1âˆ’x]Sr[sub x]MnO[sub 3] antiferromagnets. Journal of Applied Physics, 2002, 91, 8275.	1.1	12
106	Structure and properties of novel cobaltates Ln0.3CoO2 (Lnâ€‰=â€‰La, Pr, and Nd). Journal of Applied Physics, 2012, 111, 07D707.	1.1	12
107	Ground-state properties of the mixed-valence cobaltites Nd_{0.7}Sr_{0.3}CoO₃, Nd_{0.7}Ca_{0.3}CoO₃and Pr_{0.7}Ca_{0.3}CoO₃. Journal of Physics Condensed Matter, 2013, 25, 216006.	0.7	12
108	Magnetic La1âˆ’x Sr x MnO3 nanoparticles as contrast agents for MRI: the parameters affecting 1H transverse relaxation. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	12

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109	Structure and transport properties of La_{1â^'x}Sr_xMnO₃granular ceramics. Journal Physics D: Applied Physics, 2017, 50, 075001.	1.3	12
110	Tunneling magnetoresistance of hydrothermally sintered La1-Sr MnO3-silica nanocomposites. Journal of Magnetism and Magnetic Materials, 2019, 479, 135-143.	1.0	12
111	The temperature dependence of tetragonal distortion in some MnxCr3â^'xO4 spinels. European Physical Journal D, 1976, 26, 481-484.	0.4	11
112	Magnetic structure of cubic spinels MnxCr3â^'xO4 (x=1.0â^'1.6). Journal of Magnetism and Magnetic Materials, 1977, 5, 41-50.	1.0	11
113	Study of cubic and tetragonal structures in the system MnXCr3â^'xO4. Physica Status Solidi A, 1978, 50, K21-K24.	1.7	11
114	Ferromagnetic-antiferromagnetic transition inPr0.51Sr0.49MnO3manganite. Physical Review B, 2002, 65, .	1.1	11
115	The low-temperature phase separation in Pr0.5Ca0.5CoO3. Journal of Magnetism and Magnetic Materials, 2007, 316, e728-e730.	1.0	11
116	Glassy ferromagnetism and phase separation in Pr0.5Ca0.5CoO3. Journal of Applied Physics, 2012, 111, 07E110.	1.1	11
117	Suppression of the metal-insulator transition by magnetic field in (Pr1â^'yYy)0.7Ca0.3CoO3 (yâ€‰=â€‰0.0625). Journal of Applied Physics, 2014, 115, 233914.	1.1	11
118	Clusters of Magnetic Nanoparticles as Contrast Agents for MRI: Effect of Aggregation on Transverse Relaxivity. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	11
119	Mnâ€“Zn Ferrite Nanoparticles With Silica and Titania Coatings: Synthesis, Transverse Relaxivity, and Cytotoxicity. IEEE Transactions on Magnetics, 2017, 53, 1-8.	1.2	11
120	Neutron diffraction study of Pr_{0.5}Ca_{0.5}CoO_{3-Î³}(Î³=0 and 0.07). Zeitschrift FÃ¼r Kristallographie, Supplement, 2007, 2007, 435-440.	0.5	11
121	Oxygen parameters and Debye-Waller factors in MnxCr3-xO4 spinels. Physica Status Solidi A, 1976, 37, K47-K51.	1.7	10
122	Spin glass properties of Y[sub 0.7]Ca[sub 0.3]MnO[sub 3] and Th[sub 0.35]Ba[sub 0.37]Ca[sub 0.28]MnO[sub 3]. Journal of Applied Physics, 2002, 91, 8260.	1.1	10
123	From A-type antiferromagnetism to ferromagnetism in half-doped perovskite manganites. Journal of Magnetism and Magnetic Materials, 2004, 270, 194-202.	1.0	10
124	Magnetic-moment distribution inNi0.97Ru0.03alloy. Physical Review B, 1978, 18, 6275-6282.	1.1	9
125	Neutron diffraction study of Bi2Sr2MnO6.5. Physica C: Superconductivity and Its Applications, 1992, 196, 68-72.	0.6	9
126	Phase separation in structural and magnetic transitions in Pr0.5Ca0.5-xSrxMnO3(x= 0.15 and 0.3). Journal of Physics Condensed Matter, 2001, 13, 6813-6834.	0.7	9

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127	Valence and spin states in perovskites LaCo0.95M0.05O3 (M=Mg, Ga, Ti). Journal of Magnetism and Magnetic Materials, 2008, 320, e92-e95.	1.0	9
128	Structural and magnetic phase transitions in Pr0.15Sr0.85MnO3 at high pressure. European Physical Journal B, 2010, 77, 407-411.	0.6	9
129	Transverse Relaxivity of Nanoparticle Contrast Agents for MRI: Different Magnetic Cores and Coatings. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	9
130	Cation distribution in hexaferrites BaFe12ï£¿xMnxO19. Crystal Research and Technology, 1987, 22, K71-K73.	0.6	8
131	Structural and transport properties of YBa2Cu3â^'yCoyO7â^'x solid solutions. Physica C: Superconductivity and Its Applications, 1992, 197, 371-377.	0.6	8
132	Influence of the structure on electric and magnetic properties of La0.8Na0.2Mn1â^'xCoxO3 perovskites. Journal of Solid State Chemistry, 2004, 177, 4564-4568.	1.4	8
133	Evolution of the phonon density of states of LaCoO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>over the spin	1.1	8
134	Role of Surface on Magnetic Properties of La_{1-<italic>x</italic>}Sr_{<italic>x</italic>}MnO<inline-formula> <tex-math notation="LaTeX">$_{3+delta }$ </tex-math></inline-formula> Nanocrystallites. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	8
135	Electrical resistivity anomaly in (Pr1â^'yMy)1â^'xCaxCoO3 epitaxial films (M=Y, Gd) fabricated by pulsed laser deposition. AIP Advances, 2016, 6, .	0.6	8
136	Magnetoconductivity of the La_{1â€“<italic>x</italic>}Sr_{<italic>x</italic>}MnO₃@TiO₂ Nanocomposite. IEEE Transactions on Magnetics, 2017, 53, 1-6.	1.2	8
137	Manganese Perovskite Nanoparticles and the Downturn of Inverse Susceptibility above the Curie Temperature. Acta Physica Polonica A, 2010, 118, 792-793.	0.2	8
138	Improved resolution and powder neutron diffraction research on the KSN-2 diffractometer. European Physical Journal D, 1979, 29, 846-852.	0.4	7
139	Electron Spin Resonance and Neutron Diffraction Studies of Nd_{0.5-}_xPr_xSr_{0.5}MnO₃ (x = 0.125, 0.25). Chemistry of Materials, 2007, 19, 5222-5229.	3.2	7
140	Antiferromagnetic ordering in the double perovskites La2â^'xSrxCoRuO6. Journal of Magnetism and Magnetic Materials, 2010, 322, 1189-1191.	1.0	7
141	Structural and magnetic phase transitions occurring in Pr0.7Sr0.3MnO3 manganite at high pressures. JETP Letters, 2013, 97, 540-545.	0.4	7
142	Structural Properties and Singular Phase Transitions of Metallic Pr0.50Sr0.50CoO3 Cobaltite. Inorganic Chemistry, 2014, 53, 12297-12304.	1.9	7
143	Titania-coated manganite nanoparticles: Synthesis of the shell, characterization and MRI properties. Journal of Magnetism and Magnetic Materials, 2017, 427, 245-250.	1.0	7
144	Magnetic properties of rare-earth-doped La0.7Sr0.3MnO3. Journal of Physics Condensed Matter, 2017, 29, 035803.	0.7	7

#	Article	IF	Citations
145	Group-theoretical approach to orbital ordering in crystals withEgandT2gions. Physical Review B, 1992, 46, 8725-8732.	1.1	6
146	Electrical resistivity anomaly, valence shift of Pr ion, and magnetic behavior in epitaxial (Pr1-yYy)1-xCaxCoO3 thin films under compressive strain. Journal of Applied Physics, 2017, 121, 115104.	1.1	6
147	Anomalous Nernst effect in the ceramic and thin film samples of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>0.7<mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> perovskite. Physical Review Materials, 2021, 5, .	0.9	6
148	Representation analysis of cooperative Jahn-Teller ordering. Physical Review B, 1987, 35, 5437-5445.	1.1	5
149	Coordination and the bond valence sums in modulated superconductor Bi2(Sr, Ca)3Cu2O8+Î³. Solid State Communications, 1992, 81, 175-177.	0.9	5
150	Magnetoresistive properties of Pr[sub 0.65]Ca[sub 0.21]Sr[sub 0.14]MnO[sub 3] ferromagnets: Evidence of phase separation. Journal of Applied Physics, 2002, 91, 7727.	1.1	5
151	EXAFS study of compounds. Journal of Magnetism and Magnetic Materials, 2007, 310, e197-e199.	1.0	5
152	Structural and magnetic phase transitions in Pr0.7Ca0.3MnO3 at high pressures. JETP Letters, 2010, 92, 590-594.	0.4	5
153	A low temperature neutron diffraction study of manganese ferrite. European Physical Journal D, 1978, 28, 1315-1316.	0.4	4
154	Distribution of Cations and the Proton Location in Kaersutite. Crystal Research and Technology, 1986, 21, 1517-1519.	0.6	4
155	Protonic acid sites in stabilized Y zeolites after reduction of M2+cations with hydrogen. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1833-1838.	1.7	4
156	Optimization of the Bi(Pb)-2223 bulk technology. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2585-2586.	0.6	4
157	Charge density wave inLa0.84Sr0.16MnO3revealed by55Mnnuclear magnetic resonance. Physical Review B, 2003, 67, .	1.1	4
158	Influence of Co doping on properties of Pr0.8Na0.2Mn(1â^'y)CoyO3 perovskites. Journal of Solid State Chemistry, 2003, 174, 466-470.	1.4	4
159	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mtext>M</mml:mtext><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>55</mml:mn></mml:mrow></mml:mmultiscripts><mml:mtext>n</mml:mtext></mml:mrow></mml:math> magnetic resonance study of highly Sr-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow>	1.1	4
160	Effect of Ising-type Tb3 + ions on the low-temperature magnetism of La, Ca cobaltite. Journal of Physics Condensed Matter, 2014, 26, 116003.	0.7	4
161	Magnetism and transport properties of layered rare-earth cobaltates Ln0.3CoO2. Journal of Applied Physics, 2015, 117, 17B706.	1.1	4
162	High-field magnetoconductance in La-Sr manganites of FM and AFM ground states. Journal of Magnetism and Magnetic Materials, 2018, 456, 167-178.	1.0	4

#	Article	IF	Citations
163	Rod-like particles of silica-coated maghemite: Synthesis via akaganeite, characterization and biological properties. Journal of Magnetism and Magnetic Materials, 2019, 476, 149-156.	1.0	4
164	Coexistence of ferromagnetism and antiferromagnetism in the L0.08Ca1.92MnO4 series. Journal of Magnetism and Magnetic Materials, 2004, 284, 172-180.	1.0	3
165	Effect of Cr doping in charge ordered Y1âˆ'Ca MnO3(xâˆ¼0.5). Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1029-E1030.	1.0	3
166	NMR study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si11.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>LaMn</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>-</mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math> perovskites. Journal of Magnetism and Magnetic Materials, 2008, 320, e12-e15.	1.0	3
167	Static and dynamic behavior of the cluster phase in LaMn0.6Co0.4O3. Journal of Magnetism and Magnetic Materials, 2010, 322, 1392-1395.	1.0	3
168	Local surrounding of Mn in LaMn1âˆ'xCoxO3 compounds by means of EXAFS on Mnâ€“K. Journal of Magnetism and Magnetic Materials, 2010, 322, 1198-1200.	1.0	3
169	Structure and Electric Transport in LaCo0.67Cu0.33O3. Journal of Superconductivity and Novel Magnetism, 2011, 24, 747-751.	0.8	3
170	Structural study of layered cobaltate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0001.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi><mml:mo>/</mml:		

#	Article	IF	Citations
181	Core-Shell Magnetic Structure of La1â€“xSrxMnO $_{3+delta }$ Nanocrystallites. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	2
182	Pressure-induced spin state crossover in layered cobaltite LaSrCoO4. Journal of Magnetism and Magnetic Materials, 2019, 487, 165360.	1.0	2
183	The crystal and magnetic structure of nanostructured manganite La0.53Sr0.47MnO3 at high pressure. Materials Chemistry and Physics, 2021, 262, 124310.	2.0	2
184	Electronic and heat transport phenomena in the nanogranular thiospinel<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:r mathvariant="normal">S</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	1.1	2
185	Synthesis and broadband dielectric-infrared spectroscopy of La1-xSrxMnO3@BaTiO3 nanocomposite. Materials Research Bulletin, 2021, 144, 111459.	2.7	2
186	Magnetization Study of the AFM-FM Coexistence in the Manganite System Pr0.5Ca0.5-xSrxMnO3. Acta Physica Polonica A, 2008, 113, 143-146.	0.2	2
187	Induced anisotropy in noncollinear ferrimagnets Mn1+xCr2â^'xO4. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1977, 86-88, 1459-1460.	0.9	1
188	PROPERTIES OF CuO BASED SUPERCONDUCTORS. International Journal of Modern Physics B, 1987, 01, 1021-1023.	1.0	1
189	Carbonate groups and the superconductivity in 123 cuprates Y0.8Ca0.2Ba2Cu3â^'xCxOy. Physica C: Superconductivity and Its Applications, 1996, 267, 225-232.	0.6	1
190	Irreversible Photoinduced Insulator-Metal Transition in Charge Ordered Pr 0.75 Na 0.25 MnO 3. Phase Transitions, 2002, 75, 935-940.	0.6	1
191	Phase segregation in the Pr0.8â^'yLayNa0.2MnO3 manganites (yâ©½0.15). Physica B: Condensed Matter, 2004, 350, E5-E8.	1.3	1
192	Mn-site doped Y1â^'Ca MnO3 (x=0.3â€“0.4)â€”from spin glass to FM cluster formation. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1323-1324.	1.0	1
193	The nanoscopic separation of magnetic phases in Cr-doped manganites Pr0.44Sr0.56MnO3. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1085-E1086.	1.0	1
194	Thermoelectric properties of the Pr0.8Na0.2MnO3 manganite at ultrahigh pressures of up to 20 GPa. Physics of the Solid State, 2006, 48, 1741-1745.	0.2	1
195	Structural modulation in Bi2Sr2Ca0.4Y0.6Cu2O8+Î´. Journal of Physics: Conference Series, 2012, 340, 012055.	0.3	1
196	High pressure effect on the crystal and magnetic structure of Pr0.1Sr0.9MnO3 manganite. Journal of Surface Investigation, 2012, 6, 817-820.	0.1	1
197	A study of formation of iron nanoparticles in aluminium matrix with helium pores. Journal of Physics: Conference Series, 2012, 351, 012013.	0.3	1
198	Terbium induced glassy magnetism in La,Ca-based cobaltites. Journal of Applied Physics, 2014, 115, 17E103.	1.1	1

#	Article	IF	Citations
199	Modulation of rare-earth levels in layered cobaltates <mml:math altimg="si0042.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"	1.0	1
200	Effect of Tb3+doping in mixed-valence manganites and cobaltites. Journal of Physics Condensed Matter, 2017, 29, 405802.	0.7	1
201	Neutron diffraction study of the crystal and magnetic structures of nanostructured Zn0.34Fe2.53O4 ferrite. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	1
202	Broadband dielectric spectroscopy of La0.65Sr0.35MnO3@TiO2 coreâ€“shell nanocomposites. Journal of Physics Condensed Matter, 2020, 32, 415701.	0.7	1
203	Role of spin-orbit coupling in canted ferromagnetism and spin-wave dynamics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrRuO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> Physical Review B, 2022, 105, .	1.1	1
204	Magnetic Structure of MnCr2O4. Physica Status Solidi A, 1975, 32, K137-K139.	1.7	0
205	Structure properties and oxygen content in Y0.6Ca0.2Ba2Cu3Oy (y = 6.03â^'6.89) by neutron diffraction. Physica B: Condensed Matter, 1997, 234-236, 928-930.	1.3	0
206	Magnetic phase transitions of Pr0.65Ca0.21Sr0.14MnO3 and Pr0.65Ba0.35MnO3 single crystals. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 592-593.	1.0	0
207	Pr0.5Sr0.5-xBaxMnO3: Size and Mismatch Effects on Structural and Magnetic Transitions.. ChemInform, 2003, 34, no.	0.1	0
208	Phase competition in Pr0.8â^'La Na0.2Mn1â^'Me O3. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E287-E288.	1.0	0
209	Structure, Magnetism, and Transport Properties of Pr1-xSrxMnO3 (x = 0.45â€"0.75) up to 1200 K.. ChemInform, 2004, 35, no.	0.1	0
210	Magnetic susceptibility of a two phase manganite Pr0.925Na0.075MnO3. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1025-E1026.	1.0	0
211	Anomalous temperature dependence of the magnetization in La0.84Sr0.16MnO3. Journal of Applied Physics, 2009, 105, 07D716.	1.1	0
212	Role of surface on magnetic properties of La<inf>1â^'x</inf>Sr<inf>x</inf>Îœn0<inf>3+Î´</inf> nanocrystallites. , 2015, , .		0
213	Clusters of magnetic nanoparticles as contrast agents for MRI: The effect of aggregation on T<inf>2</inf> relaxivity. , 2015, , .		0
214	Exchange interactions in É›-Fe₂O₃: GGA + U calculations. Journal of Physics Condensed Matter, 2021, 33, 155502.	0.7	0
215	Charge Transport in Na0.63CoO2 Thin Film Studied by Terahertz Spectroscopy. , 2016, , .		0