

Antoine Maignan

List of Publications by Year in descending order

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24,290
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9254

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docs citations

780
times ranked

11012
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#	ARTICLE	IF	CITATIONS
1	Misfit-layered cobaltite with an anisotropic giant magnetoresistance: $\text{Ca}_3\text{Co}_4\text{O}_9$. <i>Physical Review B</i> , 2000, 62, 166-175.	1.1	1,033
2	Structural and Magnetic Studies of Ordered Oxygen-Deficient Perovskites $\text{LnBaCo}_2\text{O}_{5+\delta}$, Closely Related to the CaFe_2O_7 Structure. <i>Journal of Solid State Chemistry</i> , 1999, 142, 247-260.	1.4	555
3	Magnetic phase diagrams of $\text{Ln}_{1-x}\text{AxMnO}_3$ manganites ($\text{Ln}=\text{Pr}, \text{Sm}; \text{A}=\text{Ca}, \text{Sr}$). <i>Physical Review B</i> , 1999, 60, 12191-12199.	1.1	495
4	Magnetoresistance in the oxygen deficient $\text{LnBaCo}_2\text{O}_{5.4}$ ($\text{Ln}=\text{Eu}, \text{Gd}$) phases. <i>Applied Physics Letters</i> , 1997, 71, 1421-1423.	1.5	297
5	Insulator-Metal Transition Induced by Cr and Co Doping in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$. <i>Journal of Solid State Chemistry</i> , 1997, 130, 162-166.	1.4	293
6	A new active LiMnO compound for high energy density Li-ion batteries. <i>Nature Materials</i> , 2016, 15, 173-177.	13.3	269
7	Colossal Magnetoresistance Manganite Perovskites: Relations between Crystal Chemistry and Properties. <i>Chemistry of Materials</i> , 1998, 10, 2641-2652.	3.2	240
8	Single crystal study of the one dimensional CaCoO compound: five stable configurations for the Ising triangular lattice. <i>European Physical Journal B</i> , 2000, 15, 657-663.	0.6	222
9	Ultrasharp Magnetization Steps in Perovskite Manganites. <i>Physical Review Letters</i> , 2002, 89, 286602.	2.9	214
10	Transition from a paramagnetic metallic to a cluster glass metallic state in electron-doped perovskite manganites. <i>Physical Review B</i> , 1998, 58, 2758-2763.	1.1	208
11	Thermoelectric Power of $\text{HoBaCo}_2\text{O}_{5.5}$: Possible Evidence of the Spin Blockade in Cobaltites. <i>Physical Review Letters</i> , 2004, 93, 026401.	2.9	206
12	Spectacular Giant Magnetoresistance Effects in the Polycrystalline Perovskite $\text{Pr}_{0.7}\text{Sr}_{0.05}\text{Ca}_{0.25}\text{MnO}_3$. <i>Journal of Solid State Chemistry</i> , 1995, 117, 424-426.	1.4	194
13	Cation disorder and size effects upon magnetic transitions in $\text{Ln}_{0.5}\text{A}_{0.5}\text{MnO}_3$ manganites. <i>Journal of Applied Physics</i> , 1997, 82, 6181-6185.	1.1	169
14	Factors Governing the Magnetoresistance Properties of the Electron-Doped Manganites $\text{Ca}_{1-x}\text{AxMnO}_3$ ($\text{A}=\text{Ln}, \text{Th}$). <i>Chemistry of Materials</i> , 1998, 10, 950-954.	3.2	165
15	Temperature and time dependence of the field-driven magnetization steps in $\text{Ca}_3\text{Co}_2\text{O}_6$ single crystals. <i>Physical Review B</i> , 2004, 70, .	1.1	161
16	Quantum tunneling of the magnetization in the Ising chain compound $\text{Ca}_3\text{Co}_2\text{O}_6$. <i>Journal of Materials Chemistry</i> , 2004, 14, 1231-1234.	6.7	160
17	$\text{Ca}_3\text{Co}_2\text{O}_6$:Ge, a promising n-type thermoelectric oxide composite. <i>Solid State Communications</i> , 2008, 146, 97-101.	0.9	158
18	Field-induced magnetization steps in intermetallic compounds and manganese oxides: The martensitic scenario. <i>Physical Review B</i> , 2004, 69, .	1.1	157

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19	Large Intragrain Magnetoresistance above Room Temperature in the Double Perovskite Ba ₂ FeMoO ₆ . Journal of Solid State Chemistry, 1999, 144, 224-227.	1.4	152
20	Strongly correlated properties of the thermoelectric cobalt oxide Ca ₃ Co ₄ O ₉ . Physical Review B, 2005, 71, .	1.1	150
21	Extension of colossal magnetoresistance properties to small A site cations by chromium doping in Ln _{0.5} Ca _{0.5} MnO ₃ manganites. Applied Physics Letters, 1997, 71, 3907-3909.	1.5	149
22	Transport and thermoelectric properties in Copper intercalated TiS ₂ chalcogenide. Applied Physics Letters, 2011, 99, .	1.5	149
23	Interplay between transport, magnetic, and ordering phenomena in Sm ^{1-x} CaxMnO ₃ . Physical Review B, 1999, 60, 14057-14065.	1.1	146
24	Structural transitions in the manganite Pr _{0.5} Sr _{0.5} MnO ₃ . Journal of Magnetism and Magnetic Materials, 1998, 184, 71-82.	1.0	139
25	Order-Disorder Transition in AgCrSe ₂ : a New Route to Efficient Thermoelectrics. Chemistry of Materials, 2011, 23, 2510-2513.	3.2	135
26	Large thermopower in a metallic cobaltite: The layered Ti-Sr-Co-O misfit. Physical Review B, 2001, 64, .	1.1	130
27	Structural and magnetic phase diagram and room temperature CMR effect of La ^{1-x} Ag _x MnO ₃ . Solid State Communications, 2003, 126, 229-234.	0.9	130
28	Cation size-temperature phase diagram of the manganites Ln _{0.5} Sr _{0.5} MnO ₃ . Journal of Applied Physics, 1997, 81, 1372-1377.	1.1	129
29	Magnetoresistance and magnetothermopower properties of Bi/Ca/Co/O and Bi(Pb)/Ca/Co/O misfit layer cobaltites. Journal of Physics Condensed Matter, 2003, 15, 2711-2723.	0.7	129
30	FeCr ₂ O ₄ and CoCr ₂ O ₄ spinels: Multiferroicity in the collinear magnetic state?. Applied Physics Letters, 2011, 99, .	1.5	124
31	Direct evidence of phase segregation and magnetic-field-induced structural transition in Nd _{0.5} Sr _{0.5} MnO ₃ by neutron diffraction. Physical Review B, 2000, 61, R9229-R9232.	1.1	122
32	Magnetic phase diagram of Ru-doped Sm ^{1-x} CaxMnO ₃ manganites: Expansion of ferromagnetism and metallicity. Physical Review B, 2001, 63, .	1.1	121
33	Structural and magnetic properties of CuCr neutron powder diffraction. Physical Review B, 2009, 79, .		
34	Critical behavior of La _{0.825} Sr _{0.175} MnO _{2.912} anion-deficient manganite in the magnetic phase transition region. JETP Letters, 2007, 85, 507-512.	0.4	119
35	Ising Magnetism and Ferroelectricity in Ca ₃ CoMnO ₆ . Physical Review Letters, 2009, 102, 026404.	2.9	117
36	A new member of the thallium superconductive series, the $\text{TiBa}_2\text{CaCu}_2\text{O}_{8-y}$ oxide: Importance of oxygen content. Journal of Solid State Chemistry, 1988, 75, 212-215.	1.4	116

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37	Up to 50 000 per cent resistance variation in magnetoresistive polycrystalline perovskites (Ln=Nd; Sm). Solid State Communications, 1995, 95, 357-359.	0.9	111
38	Dome-Shaped Magnetic Phase Diagram of Thermoelectric Layered Cobaltites. Physical Review Letters, 2004, 92, 017602.	2.9	106
39	Giant magnetoresistance ratios superior to 1011 in manganese perovskites. Solid State Communications, 1995, 96, 623-625.	0.9	105
40	Valence, spin, and orbital state of Co ions in one-dimensional Ca ₃ Co ₂ O ₆ : An x-ray absorption and magnetic circular dichroism study. Physical Review B, 2006, 74, .	1.1	103
41	Important role of impurity eg levels on the ground state of Mn-site doped manganites. Solid State Communications, 2002, 121, 229-234.	0.9	101
42	Influence of oxygen vacancies on the magnetic and electrical properties of La _{1-x} Sr _x MnO _{3-2x/2} manganites. European Physical Journal B, 2004, 42, 51-61.	0.6	101
43	CMR Effect in Electron-Doped Manganites Ca _{1-x} Sr _x MnO ₃ . Journal of Solid State Chemistry, 1997, 134, 198-202.	1.4	100
44	Scaling Behavior in Thermoelectric Misfit Cobalt Oxides. Physical Review Letters, 2006, 97, 046601.	2.9	100
45	Tuning the transport and thermoelectric properties of In ₂ O ₃ bulk ceramics through doping at In-site. Journal of Applied Physics, 2009, 106, .	1.1	99
46	Thallium cuprates: The critical temperature is mainly governed by the oxygen nonstoichiometry. Physica C: Superconductivity and Its Applications, 1990, 168, 8-22.	0.6	97
47	A 70 K superconductor. Physica C: Superconductivity and Its Applications, 1993, 205, 219-224.	0.6	97
48	Perovskite manganites and layered cobaltites: potential materials for thermoelectric applications. Crystal Engineering, 2002, 5, 365-382.	0.7	96
49	Metallicity and thermopower of the misfit cobaltite [Bi ₂ Ba _{1.8} Co _{0.2} O ₄] _n [CoO ₂] ₂ . Physical Review B, 2003, 67, .	1.1	96
50	Frustrated pyrochlore oxides, Y ₂ Mn ₂ O ₇ , Ho ₂ Mn ₂ O ₇ , and Yb ₂ Mn ₂ O ₇ : Bulk magnetism and magnetic microstructure. Physical Review B, 1996, 54, 7189-7200.	1.1	93
51	Electronic and magnetic properties of misfit systems $YBaCo_{4-n}Mn_nO_{11}$. Physical Review B, 2009, 80, .	1.1	92
52	Ferromagnetism and metallicity in the CaMn _{1-x} Ru _x O ₃ perovskites: a highly inhomogeneous system. Solid State Communications, 2001, 117, 377-382.	0.9	90
53	Magnetic properties of La _{0.70} Sr _{0.30} MnO _{2.85} anion-deficient manganite under hydrostatic pressure. JETP Letters, 2006, 83, 33-36.	0.4	88
54	Substitution at the Ru site in the itinerant ferromagnet SrRuO ₃ . Journal of Physics Condensed Matter, 2002, 14, 7391-7398.	0.7	87

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55	Spin-glass state and magnetic-field-induced phenomena in distorted $\text{Eu}_{0.58}\text{Sr}_{0.42}\text{MnO}_3$ perovskite. <i>Physical Review B</i> , 1997, 55, 5596-5599.	1.1	86
56	Magnetic versus orbital polarons in colossal magnetoresistance manganites. <i>Physical Review B</i> , 2002, 65, .	1.1	86
57	Structural study of the electron-doped manganites $\text{Sm}_{0.1}\text{Ca}_{0.9}\text{MnO}_3$ and $\text{Pr}_{0.1}\text{Sr}_{0.9}\text{MnO}_3$: Evidence of phase separation. <i>Physical Review B</i> , 2000, 62, 6442-6449.	1.1	85
58	Staircase effect in metamagnetic transitions of charge and orbitally ordered manganites. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 264, 183-191.	1.0	85
59	Orthorhombic kagome cobaltite $\text{CaBaCo}_4\text{O}_7$: A new ferrimagnet with a T_C of 70 K. <i>Solid State Communications</i> , 2009, 149, 453-455.	0.9	85
60	Size mismatch: a crucial factor for generating a spin-glass insulator in manganites. <i>Physical Review B</i> , 1999, 60, 15214-15219.	1.1	84
61	Coexistence of ferromagnetism and charge ordering in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{Mn}_{1-x}\text{Cr}_x\text{O}_3$. <i>Solid State Communications</i> , 2000, 114, 429-433.	0.9	84
62	Magnetic field induced ferroelectric loop in $\text{Bi}_{0.75}\text{Sr}_{0.25}\text{FeO}_3$. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	84
63	Mn-Site Doped CaMnO_3 : Creation of the CMR Effect. <i>Journal of Solid State Chemistry</i> , 2000, 149, 203-207.	1.4	83
64	Gigantic magnetic-field-induced polarization and magnetoelectric coupling in a ferrimagnetic oxide $\text{CaBaCo}_4\text{O}_7$. <i>Physical Review B</i> , 2013, 88, .	1.1	83
65	Spin, charge, and lattice coupling in triangular and Kagomé sublattices of CoO_4 tetrahedra: $\text{YbBaCo}_4\text{O}_7$ ($i=0,1$). <i>Physical Review B</i> , 2006, 74, .	1.1	81
66	A cobaltite with a room temperature electrical and magnetic transition: YBaCo_4O_7 . <i>Solid State Sciences</i> , 2006, 8, 1160-1163.	1.5	80
67	Observation of spontaneous magnetization jumps in manganites. <i>Physical Review B</i> , 2003, 68, .	1.1	79
68	Comparison of $\text{CaMn}_{1-x}\text{Ru}_x\text{O}_3$ and $\text{CaMn}_{1-y}\text{Mo}_y\text{O}_3$ perovskites. <i>Physical Review B</i> , 2003, 67, .	1.1	78
69	Structural Instability of the Charge Ordered Compound $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ under a Magnetic Field. <i>Physical Review Letters</i> , 1999, 82, 2191-2194.	2.9	76
70	Magnetoresistance in the ferromagnetic metallic perovskite $\text{SrFe}_{1-x}\text{Co}_x\text{O}_3$. <i>Solid State Sciences</i> , 2001, 3, 57-63.	1.5	76
71	T_C magnetic phase diagrams of electron-doped $\text{Sm}_{1-x}\text{Ca}_x\text{MnO}_3$: Evidence for phase separation and metamagnetic transitions. <i>Physical Review B</i> , 2001, 63, .	1.1	75
72	Magnetic-Field-Induced Step-like Transitions in Mn-Site Doped Manganites. <i>Journal of Solid State Chemistry</i> , 2002, 165, 6-11.	1.4	75

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73	The fishtail effect in different TI based single crystals. A possible interplay with the electronic anisotropy. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 232, 347-358.	0.6	74
74	NICKEL-INDUCED METAL-INSULATOR TRANSITION IN THE SMALL A CATION MANGANITES $\text{Ln}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$. <i>Materials Research Bulletin</i> , 1997, 32, 965-972.	2.7	74
75	Ru-Induced Ferromagnetism and Metallicity in Mn(IV)-Rich Manganites $\text{Ln}_{0.4}\text{Ca}_{0.6}\text{MnO}_3$. <i>Journal of Solid State Chemistry</i> , 2000, 151, 330-334.	1.4	74
76	On the Metallic Conductivity of the Delafossites PdCoO_2 and PtCoO_2 . <i>Chemistry of Materials</i> , 2008, 20, 2370-2373.	3.2	74
77	On the strong impact of doping in the triangular antiferromagnet CuCrO_2 . <i>Solid State Communications</i> , 2009, 149, 962-967.	0.9	73
78	A d^2 superconductor involving mixed calcium lead ($\text{Pb}_{0.5}\text{Ca}_{0.5}\text{O}$) $\tilde{\text{z}}$ monolayers: $\text{Pb}_{0.5}\text{Ca}_{0.5}\text{Sr}_2\text{Ca}_x\text{Y}_{1-x}\text{Cu}_2\text{O}_7$. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 171, 7-13.	0.6	71
79	Effect of A-site cation size mismatch on charge ordering and colossal magnetoresistance properties of perovskite manganites. <i>Physical Review B</i> , 1997, 56, 5092-5095.	1.1	71
80	Potencia termoel�ctrica de cer�micas basadas en cobaltitas: optimizaci3n mediante sustituci3n qu�mica. <i>Boletín De La Sociedad Espanola De Ceramíca Y Vidrio</i> , 2006, 45, 122-125.	0.9	71
81	A 94 K Hg-based superconductor with a d^2 structure $\text{Hg}_{0.5}\text{Bi}_{0.5}\text{Sr}_2\text{Ca}_{1-x}\text{R}_x\text{Cu}_2\text{O}_6$ (R = Nd, Y, Pr). <i>Physica C: Superconductivity and Its Applications</i> , 1993, 216, 257-263.	0.6	70
82	Influence of Mn-site doping upon orbital and charge ordering in the $\text{Pr}_{0.5}\text{A}_{0.5}\text{Mn}_{1-x}\text{M}_x\text{O}_3$ manganites (A=Sr, Ca and M=Cr, Al). <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 202, 11-21.	1.0	70
83	The route to CMR manganites: what about charge ordering and phase separation?. <i>Journal of Materials Chemistry</i> , 2001, 11, 29-36.	6.7	70
84	Instability of metal-insulator transition against thermal cycling in phase separated Cr-doped manganites. <i>Physical Review B</i> , 2001, 64, .	1.1	70
85	Introduction of nitrate groups in the d^2 structure. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 208, 116-120.	0.6	69
86	Neutron diffraction evidence for a new ferromagnetic phase in Cr doped $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$. <i>Applied Physics Letters</i> , 1998, 73, 3772-3774.	1.5	69
87	Induced ferromagnetism in LaMnO_3 by Mn-site substitution: The major role of Mn mixed valency. <i>Physical Review B</i> , 2002, 65, .	1.1	69
88	Thermoelectric properties of perovskites: Sign change of the Seebeck coefficient and high temperature properties. <i>Progress in Solid State Chemistry</i> , 2007, 35, 457-467.	3.9	69
89	From oxides to selenides and sulfides: The richness of the CdI_2 type crystallographic structure for thermoelectric properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 69-81.	0.8	69
90	Monoclinic microdomains and clustering in the colossal magnetoresistance manganites $\text{Pr}_{0.7}\text{Ca}_{0.25}\text{Sr}_{0.05}\text{MnO}_3$ and $\text{Pr}_{0.75}\text{Sr}_{0.25}\text{MnO}_3$. <i>Physical Review B</i> , 1996, 53, 14274-14284.	1.1	68

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91	A monoclinic manganite, $\text{La}_{0.9}\text{MnO}_3$, with colossal magnetoresistance properties near room temperature. <i>Solid State Communications</i> , 1997, 101, 277-281.	0.9	68
92	c-Axis Penetration Depth of Hg-1201 Single Crystals. <i>Physical Review Letters</i> , 1998, 81, 2140-2143.	2.9	68
93	Avalanche like field dependent magnetization of Mn-site doped charge-ordered manganites. <i>Solid State Communications</i> , 2002, 122, 335-340.	0.9	68
94	A Reversible Phase Transition for Sodium Insertion in Anatase TiO_2 . <i>Chemistry of Materials</i> , 2017, 29, 1836-1844.	3.2	68
95	The bismuth oxycarbonate $\text{Bi}_2\text{Sr}_4\text{Cu}_2\text{CO}_3\text{O}_8$. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 208, 121-129.	0.6	67
96	Effect of Y-Ca substitution upon superconductivity in the oxide $\text{YBa}_2\text{Cu}_3-x\text{Co}_x\text{O}_{7-\delta}$. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 200, 43-49.	0.6	66
97	New 1212-type superconductors with a T_c up to 85 K in the system Hg-Pr-Sr-Ca-Cu-O. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 216, 264-272.	0.6	66
98	Barium-Based Manganites $\text{Ln}_{1-x}\text{Ba}_x\text{MnO}_3$ with $\text{Ln} = \{\text{Pr}, \text{La}\}$: Phase Transitions and Magnetoresistance Properties. <i>Chemistry of Materials</i> , 1998, 10, 252-259.	3.2	66
99	Evolution of charge ordering in manganites. <i>European Physical Journal B</i> , 1999, 8, 31-41.	0.6	66
100	Double Mn^{3+} Stripes in $\text{Bi}_{1-x}\text{Sr}_x\text{MnO}_3$: New Type of Charge Ordering at Room Temperature. <i>Chemistry of Materials</i> , 2001, 13, 1356-1363.	3.2	66
101	Relationships between composition, oxygen non-stoichiometry, structure modulation and superconductivity in the 2212-bismuth cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 194, 243-252.	0.6	65
102	Two C-type antiferromagnets with different magnetoresistive properties: $\text{Sm}_{0.15}\text{Ca}_{0.85}\text{MnO}_3$ and $\text{Pr}_{0.15}\text{Sr}_{0.85}\text{MnO}_3$. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 205, 184-198.	1.0	64
103	Spin reorientation, magnetization reversal, and negative thermal expansion observed in $\text{R}_{1-x}\text{F}_x\text{MnO}_3$ ($\text{R} = \text{Pr}, \text{La}$). <i>Physical Review Letters</i> , 2005, 95, 077201.	1.1	64
104	Size of the interpolated cation and hole carrier density: two key parameters for the optimisation of colossal magnetoresistive properties of Pr-based manganites. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1995, 99, 305-310.	1.1	62
105	Role of the A-site size and oxygen stoichiometry in charge ordering commensurability of $\text{Ln}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ manganites. <i>Journal of Applied Physics</i> , 1998, 84, 5506-5514.	1.1	62
106	The 2201-thallium cuprate: T_c 's up to 92 K can be achieved by hydrogen-annealing. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 170, 350-360.	0.6	61
107	A new 1201-mercury cuprate The 27 K-superconductor $\text{Hg}_{0.5}\text{Bi}_{0.5}\text{Sr}_{2-x}\text{La}_x\text{CuO}_5$. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 214, 87-92.	0.6	61
108	A New Family of Misfit Layered Oxides with Double Rock Salt Layers $\text{Bi}_{1\pm}(A_{0.75}\text{Bi}_{0.25}\text{O})_{2\pm}(3+3x)/2\text{MO}_2$ ($A = \text{Ca}, \text{Sr}$ and $M = \text{Co}, \text{Cr}$). <i>Journal of Solid State Chemistry</i> , 1999, 142, 305-318.	1.4	61

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109	Ca _{0.85} Sm _{0.15} MnO ₃ : A mixed antiferromagnet with unusual properties. Physical Review B, 2000, 62, 11644-11648.	1.1	61
110	Hopping conductivity in one-dimensional Ca ₃ Co ₂ O ₆ single crystals. Physical Review B, 2002, 65, .	1.1	61
111	Charge states of transition metal in ϵ -Cr, Co and Ni-doped Ln Ca MnO CMR manganites. European Physical Journal B, 1998, 4, 159-167.	0.6	60
112	Thermopower enhancement in misfit cobaltites. Journal of Applied Physics, 2002, 92, 1964-1967.	1.1	60
113	Calorimetric and magnetic investigations of the metamagnet Pr _{0.5} Ca _{0.5} Mn _{0.95} Ga _{0.05} O ₃ . Physical Review B, 2003, 67, .	1.1	60
114	Spin-assisted ferroelectricity in ferrimagnetic CaBaCo ₄ O ₇ . Physical Review B, 2012, 86, .	1.1	60
115	Study of the Layered Magnetoresistive Perovskite La _{1.2} Sr _{1.8} Mn ₂ O ₇ by High-Resolution Electron Microscopy and Synchrotron X-ray Powder Diffraction. Chemistry of Materials, 1997, 9, 1778-1787.	3.2	59
116	Oxygen storage capacity and structural flexibility of LuFe ₂ O _{4+x} (0 ≤ x ≤ 0.5). Nature Materials, 2014, 13, 74-80.	13.3	59
117	On the effects of substitution, intercalation, non-stoichiometry and block layer concept in TiS ₂ based thermoelectrics. Physical Chemistry Chemical Physics, 2015, 17, 24541-24555.	1.3	59
118	The effect of Mn-site doping on the magnetotransport properties of CMR manganites. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 1635-1659.	1.6	58
119	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. Progress in Solid State Chemistry, 2008, 36, 1-133.	3.9	58
120	Revisiting some chalcogenides for thermoelectricity. Science and Technology of Advanced Materials, 2012, 13, 053003.	2.8	58
121	Magnetotransport phenomena in A(Mn _{3-x} Cu _x)Mn ₄ O ₁₂ (A=Ca, Tb, Tm) perovskites. Physical Review B, 1998, 58, 14903-14907.	1.1	57
122	Colossal magnetoresistance properties of samarium based manganese perovskites. Solid State Communications, 1996, 98, 997-1001.	0.9	56
123	Searching for new thermoelectric materials: some examples among oxides, sulfides and selenides. Journal of Physics Condensed Matter, 2016, 28, 013001.	0.7	56
124	New mercury-based superconductors with the 1201 structure Hg _{0.4} Pr _{0.6} Sr _{2-x} Pr _x CuO _{4+δ} and Hg _{0.3} Pb _{0.7} Sr _{2-x} LaxCuO _{4+δ} . Physica C: Superconductivity and Its Applications, 1993, 216, 243-249.	0.6	55
125	Complex magnetotransport in LaSr ₂ Mn ₂ O ₇ . Solid State Communications, 1997, 101, 453-457.	0.9	55
126	Large Thermopower in Metallic Misfit Cobaltites. Chemistry of Materials, 2002, 14, 1231-1235.	3.2	55

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127	Multiferroicity with high-TC in ceramics of the YBaCuFeO5 ordered perovskite. Applied Physics Letters, 2009, 94, .	1.5	55
128	Structural and magnetic phase diagram of Mo-substituted CaMnO3: consequences for thermoelectric power properties. Journal of Materials Chemistry, 2002, 12, 1806-1811.	6.7	54
129	Thermoelectric Oxides: Effect of Doping in Delafossites and Zinc Oxide. Journal of Electronic Materials, 2009, 38, 1104-1108.	1.0	54
130	AgCrS ₂ : A Spin Driven Ferroelectric. Chemistry of Materials, 2009, 21, 5007-5009.	3.2	54
131	From spin induced ferroelectricity to dipolar glasses: Spinel chromites and mixed delafossites. Journal of Solid State Chemistry, 2012, 195, 41-49.	1.4	54
132	Giant magnetoresistance properties of polycrystalline praseodymium-based manganese perovskites: from Pr _{0.75} Sr _{0.25} MnO ₃ to La _{0.75} Sr _{0.25} MnO ₃ . Journal of Materials Chemistry, 1995, 5, 1089-1091.	6.7	53
133	Charge disordering induced by electron irradiation in colossal magnetoresistant manganites. Physical Review B, 1999, 60, R726-R729.	1.1	53
134	Observation of electric polarization reversal and magnetodielectric effect in orthochromites: A comparison between LuCrO ₃ and ErCrO ₃ . Physical Review B, 2014, 89, .	1.1	53
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