Rj Cava

List of Publications by Year
in descending order

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131 papers	7,664 citations	57758 44 h-index	53230 85 g-index
133 all docs	133 docs citations	133 times ranked	5970 citing authors

#	Article	IF	Citations
1	Structural anomalies, oxygen ordering and superconductivity in oxygen deficient Ba2YCu3Ox. Physica C: Superconductivity and Its Applications, 1990, 165, 419-433.	1.2	1,060
2	Observation of a topological crystalline insulator phase and topological phase transition in Pb1â^'xSnxTe. Nature Communications, 2012, 3, 1192.	12.8	574
3	The crystal structures of the lithium-inserted metal oxides Li0.5TiO2 anatase, LiTi2O4 spinel, and Li2Ti2O4. Journal of Solid State Chemistry, 1984, 53, 64-75.	2.9	312
4	Structural anomalies at the disappearance of superconductivity in Ba2YCu3O7â^'Î´: Evidence for charge transfer from chains to planes. Physica C: Superconductivity and Its Applications, 1988, 156, 523-527.	1.2	254
5	Studies of oxygen-deficient Ba2YCu3O7â^'Î´ and superconductivity Bi(Pb)SrCaCuO. Physica C: Superconductivity and Its Applications, 1988, 153-155, 560-565.	1.2	251
6	Single-crystal neutron-diffraction study of AgI between 23Â° and 300Â°C. Solid State Communications, 1977, 24, 411-416.	1.9	249
7	Neutron Powder Diffraction Study of the Crystal Structures of Sr2RuO4 and Sr2IrO4 at Room Temperature and at 10 K. Journal of Solid State Chemistry, 1994, 112, 355-361.	2.9	199
8	Single-crystal neutron diffraction study of the fast-ion conductor Î²-Ag2S between 186 and 325Â°C. Journal of Solid State Chemistry, 1980, 31, 69-80.	2.9	153
9	Superconductivity in the LnNi2B2C intermetallics via boron A1g phonons. Solid State Communications, 1994, 91, 587-590.	1.9	147
10	Structure and basic magnetic properties of the honeycomb lattice compounds Na2Co2TeO6 and Na3Co2SbO6. Journal of Solid State Chemistry, 2007, 180, 1060-1067.	2.9	144
11	The substitutional chemistry of MgB2. Physica C: Superconductivity and Its Applications, 2003, 385, 8-15.	1.2	143
12	LaCuO25+x and YCuO2.5+x Delafossites: Materials with Triangular Cu2+Î´ Planes. Journal of Solid State Chemistry, 1993, 104, 437-452.	2.9	127
13	Evidence for massive bulk Dirac fermions in Pb1â^'xSnxSe from Nernst and thermopower experiments. Nature Communications, 2013, 4, 2696.	12.8	126
14	The structure of the lithium-inserted metal oxide Î´LiV2O5. Journal of Solid State Chemistry, 1986, 65, 63-71.	2.9	123
15	Crystal chemistry of the series LnT2B2C (Ln î—» rare earth, T î—» transition element). Journal of Alloys and Compounds, 1994, 216, 135-139.	5.5	122
16	Neutron powder diffraction study of Pb2Sr2YCu3O8, the prototype of a new family of superconductors. Physica C: Superconductivity and Its Applications, 1989, 157, 272-278.	1.2	121
17	The KagomÃ©-staircase lattice: magnetic ordering in Ni3V2O8 and Co3V2O8. Solid State Communications, 2002, 124, 229-233.	1.9	108
18	Synthesis and properties of the YBa2Cu4O8 superconductor. Physica C: Superconductivity and Its Applications, 1990, 165, 415-418.	1.2	105

#	ARTICLE	IF	CITATIONS
19	Tuning a Schottky barrier in a photoexcited topological insulator with transient Dirac cone electron-hole asymmetry. Nature Communications, 2014, 5, 3003.	12.8	98
20	Superconductivity at 28 K in a cuprate with a niobium oxide intermediary layer. Physica C: Superconductivity and Its Applications, 1992, 191, 237-242.	1.2	97
21	The structures of lithium-inserted metal oxides: LiReO3 and Li2ReO3. Journal of Solid State Chemistry, 1982, 42, 251-262.	2.9	92
22	Magnetodielectric effects at magnetic ordering transitions. Progress in Solid State Chemistry, 2009, 37, 40-54.	7.2	92
23	Chemical instability of the cobalt oxyhydrate superconductor under ambient conditions. Solid State Communications, 2003, 127, 33-37.	1.9	87
24	Synthesis and Properties of the Structurally One-Dimensional Cobalt Oxide Ba1â^'xSrxCoO3 (0â‰¤xâ‰¤0.5). Journal of Solid State Chemistry, 1999, 146, 96-102.	2.9	81
25	Stuffed rare earth pyrochlore solid solutions. Journal of Solid State Chemistry, 2006, 179, 3126-3135.	2.9	81
26	Neutron powder diffraction study of the crystal structure of YSr2CoCu2O7 and Y1â^'xCaxSr2CoCu2O7. Physica C: Superconductivity and Its Applications, 1992, 193, 196-206.	1.2	63
27	Crystal chemistry of superconductors: A guide to the tailoring of new compounds. Physica C: Superconductivity and Its Applications, 1988, 156, 693-700.	1.2	62
28	Superconducting properties of the new boride-carbide superconductors. Physica C: Superconductivity and Its Applications, 1994, 228, 389-392.	1.2	62
29	Formation of transition metal boride and carbide perovskites related to superconducting MgCNi3. Journal of Solid State Chemistry, 2004, 177, 1244-1251.	2.9	61
30	Stoichiometry and superconductivity in single layer Bi2+xSr2â^'yCuO6+-Î´. Physica C: Superconductivity and Its Applications, 1991, 173, 37-50.	1.2	60
31	Topotactic lithium reactions with ReO 3 related shear structures. Solid State Ionics, 1981, 5, 327-329.	2.7	59
32	Structural Investigations of ACu3Ru4O12 (A=Na, Ca, Sr, La, Nd)â€"A Comparison between XRD-Rietveld and EXAFS Results. Journal of Solid State Chemistry, 2002, 167, 126-136.	2.9	59
33	The crystal structure of the La1.6Sr0.4CaCu2O6Â±Î´ superconductor. Physica C: Superconductivity and Its Applications, 1990, 172, 138-142.	1.2	58
34	Carbon concentration dependence of the superconducting transition temperature and structure of MgCxNi3. Solid State Communications, 2002, 121, 73-77.	1.9	58
35	Mobile ion distribution and anharmonic thermal motion in fast ion conducting Cu 2 S. Solid State Ionics, 1981, 5, 501-504.	2.7	57
36	Long- and short-range order in stuffed titanate pyrochlores. Journal of Solid State Chemistry, 2008, 181, 45-50.	2.9	57

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37	Superconductivity to 21 K in intermetallic thorium-based boride carbides. Physica C: Superconductivity and Its Applications, 1994, 229, 65-69.	1.2	56
38	The suppression of superconductivity in MgCNi3 by Ni-site doping. Solid State Communications, 2001, 119, 491-495.	1.9	55
39	The structures of the lithium inserted metal oxides Li0.2ReO3 and Li0.36WO3. Journal of Solid State Chemistry, 1983, 50, 121-128.	2.9	54
40	A new homologous series of lanthanum copper oxides. Journal of Solid State Chemistry, 1991, 94, 170-184.	2.9	54
41	The Crystal Structure of Ba3CuRu2O9 and Comparison to Ba3MRu2O9 (M=In, Co, Ni, and Fe). Journal of Solid State Chemistry, 1999, 146, 65-72.	2.9	54
42	Synthesis, structure and physical properties of Ru ferrites: BaMRu5O11 (M=Li and Cu) and BaMâ€²2Ru4O11 (Mâ€²=Mn, Fe and Co). Journal of Solid State Chemistry, 2006, 179, 563-572.	2.9	53
43	Crystal structure, atomic ordering and charge localization in Pb2Sr2Y1âˆ’xCaxCu3O8+Î´ (x=0, Î´=1.47). Physica C: Superconductivity and Its Applications, 1990, 169, 401-412.	1.2	50
44	A straightforward synthetic route to the bulk form of the LnBa2Cu4O8 superconductors (Ln=Er, Ho) at one atmosphere oxygen pressure. Physica C: Superconductivity and Its Applications, 1989, 159, 372-374.	1.2	46
45	The Electronic Structure of Hexagonal BaCoO3. Journal of Solid State Chemistry, 1999, 146, 411-417.	2.9	46
46	Compounds with the YbFe2O4Structure Type: Frustrated Magnetism and Spin-Glass Behavior. Journal of Solid State Chemistry, 1998, 140, 337-344.	2.9	45
47	The complex superstructure in Mg1âˆ’xAlxB2 at xâ‰ˆ0.5. Physica C: Superconductivity and Its Applications, 2002, 366, 221-228.	1.2	42
48	Structures of the reduced niobium oxides Nb12O29 and Nb22O54. Journal of Solid State Chemistry, 2007, 180, 2864-2870.	2.9	42
49	Synthesis and crystal structure of La3RuO7. Materials Research Bulletin, 2000, 35, 1-7.	5.2	40
50	A neutron powder diffraction study of the lithium insertion compound LiMoO2 from 4â€“440K. Journal of Physics and Chemistry of Solids, 1982, 43, 657-666.	4.0	38
51	Synthesis and crystal structure of BaSrCuO2+xÂ·CO3. Physica C: Superconductivity and Its Applications, 1992, 195, 335-344.	1.2	38
52	Electron microscopy of superconducting Pb2Sr2Y1âˆ’xCaxCu3O8. Physica C: Superconductivity and Its Applications, 1989, 157, 509-514.	1.2	37
53	Ca5Nb2TiO12 and Ca5Ta2TiO12: low temperature coefficient low loss dielectric materials. Materials Research Bulletin, 1999, 34, 355-362.	5.2	37
54	Structure and superconductivity in Zr-stabilized, nonstoichiometric molybdenum diboride. Physica C: Superconductivity and Its Applications, 2002, 382, 153-165.	1.2	37

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55	Structural aspects of lithium insertion in oxides: Li x ReO 3 and Li 2 FeV 3 O 8. Solid State Ionics, 1981, 5, 323-326.	2.7	36
56	Pb3Sr3Cu3O8+Î´Cl: A new layered copper oxychloride. Physica C: Superconductivity and Its Applications, 1990, 167, 67-74.	1.2	36
57	A new type of homologous series in the La-Cu-O system. Physica C: Superconductivity and Its Applications, 1991, 177, 115-121.	1.2	35
58	Electron microscopy on YPd5B3Cx, x=0 or 0.35. Physica C: Superconductivity and Its Applications, 1994, 226, 365-376.	1.2	35
59	Magnetic, electric and thermoelectric properties of the quasi-1D cobalt oxides Ba1â^'xLaxCoO3. Solid State Communications, 2000, 115, 301-305.	1.9	34
60	Electrochemical and high pressure superoxygenation of YCuO_{2+x} and LaCuO_{2+x} delafossites. Journal of Materials Research, 1994, 9, 314-317.	2.6	33
61	Synthesis, Crystal Structure, Electrical, and Magnetic Properties of the New Layered Cobalt Oxides (Sr, Ca, Ln)3Co2O6Â±Î´ (Ln=Sm, Eu, Gd, Tb, Dy, Ho, and Y). Journal of Solid State Chemistry, 1999, 146, 277-286.	2.9	33
62	HREM on superconducting LuNi2B2C and the related compound LuNiBC. Physica C: Superconductivity and Its Applications, 1994, 224, 6-12.	1.2	31
63	Superconductivity in multiple phase Sr2Ln1â^'xCaxGaCu2O7 and characterization of La2â^'xSrxCaCu2O6+Î´. Physica C: Superconductivity and Its Applications, 1991, 185-189, 180-183.	1.2	30
64	Spin ¹/₂ Delafossite Honeycomb Compound Cu₅SbO₆. Inorganic Chemistry, 2012, 51, 557-565.	4.0	30
65	Stabilization of superconducting LnPt2B2C by partial substitution of gold for platinum. Physica C: Superconductivity and Its Applications, 1994, 226, 170-174.	1.2	29
66	Ln3Cu4P4O2: A New Lanthanide Transition Metal Pnictide Oxide Structure Type. Journal of Solid State Chemistry, 1997, 129, 250-256.	2.9	29
67	Influence of structural distortions on the Ir magnetism in Ba2â^'xSrxYIrO6 double perovskites. Solid State Communications, 2016, 236, 37-40.	1.9	29
68	Structure and composition analysis of the phases in the system Th-Pd-B-C containing superconductors with Tc = 14.5 K and Tc = 21 K. Physica C: Superconductivity and Its Applications, 1994, 232, 328-336.	1.2	26
69	Sr3Co2O5Cl2 and Sr2CoO3Cl: two layered cobalt oxychlorides. Materials Research Bulletin, 2000, 35, 1035-1043.	5.2	26
70	Anisotropic magnetic properties of the triangular plane lattice material TmMgGaO4. Materials Research Bulletin, 2018, 105, 154-158.	5.2	25
71	Neutron scattering study of crystal field energy levels and field dependence of the magnetic order in superconducting HoNi2B2C. Physica C: Superconductivity and Its Applications, 1995, 248, 382-392.	1.2	24
72	The use of through focus exit wave reconstruction in the structure determination of several intermetallic superconductors. Ultramicroscopy, 1996, 64, 231-247.	1.9	24

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73	Sr2(Nd, Ce)2MCu2O9, Mî—»Al, Co, Ga. Physica C: Superconductivity and Its Applications, 1992, 198, 27-32.	1.2	23
74	Specific heat study of the Na0.3CoO2Â· 1.3H2O superconductor: influence of the complex chemistry. Physica C: Superconductivity and Its Applications, 2004, 402, 27-30.	1.2	23
75	Structure and magnetic properties of the orthorhombic n=2 Ruddlesdenâ€“Popper phases Sr3Co2O5+Î´ (Î´=0.91, 0.64 and 0.38). Journal of Solid State Chemistry, 2006, 179, 500-511.	2.9	23
76	Dielectric properties and microstructure of Ca5Nb2TiO12 and Ca5Ta2TiO12. Journal of the European Ceramic Society, 2001, 21, 2653-2658.	5.7	22
77	Borocarbide superconductors: Materials and physical properties. Physica B: Condensed Matter, 1997, 237-238, 292-295.	2.7	21
78	Thermoelectric Properties of Bi2Te2Se Compensated by Native Defects and Sn Doping. Journal of Electronic Materials, 2013, 42, 1246-1253.	2.2	21
79	Superconductivity in three-layer Na0.3CoO2Â·1.3H2O. Solid State Communications, 2005, 133, 407-410.	1.9	20
80	The structures of lithium inserted metal oxides: Li2FeV3O8. Journal of Solid State Chemistry, 1983, 48, 309-317.	2.9	19
81	Neutron powder diffraction study of the 12 K superconductor La3Ni2B2N3â^'x. Physica C: Superconductivity and Its Applications, 1995, 244, 101-105.	1.2	19
82	Synthesis, Crystal Structure, and Magnetic and Electric Properties of the Cross-Linked Chain Cobalt Oxychloride Ba5Co5ClO13. Journal of Solid State Chemistry, 2001, 158, 175-179.	2.9	19
83	Oxygen stoichiometry and superconductivity in YBa 2 Cu 3 O 6+x and Pb 2 Sr 2 Y 1â^'x Ca x O 8+Î´. Physica C: Superconductivity and Its Applications, 1989, 162-164, 281-284.	1.2	18
84	Good news from an abandoned gold mine: A new family of quaternary intermetallic superconductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 154-157.	1.2	18
85	Structure and properties of Î±-NaFeO2-type ternary sodium iridates. Journal of Solid State Chemistry, 2014, 210, 195-205.	2.9	18
86	The crystal structure of Pb2Sr2YCu3O8+Î´ with Î´=1.32, 1.46, 1.61, 1.71, by powder neutron diffraction. Physica C: Superconductivity and Its Applications, 1992, 199, 365-374.	1.2	17
87	Electronic characterization of alkali ruthenium hollandites: KRu4O8, RbRu4O8 and Cs0.8Li0.2Ru4O8. Materials Research Bulletin, 2004, 39, 1663-1670.	5.2	17
88	La7Ru3O18 and La4.87Ru2O12: Geometric Frustration in Two Closely Related Structures with Isolated RuO6 Octahedra. Journal of Solid State Chemistry, 2000, 155, 189-197.	2.9	16
89	Isolated spin 3/2 plaquettes in Na3RuO4. Journal of Solid State Chemistry, 2005, 178, 2104-2108.	2.9	16
90	Divergent effects of static disorder and hole doping in geometrically frustrated Î²-CaCr2O4. Journal of Solid State Chemistry, 2010, 183, 1798-1804.	2.9	16

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91	Structure and properties of NaxM2SbO6Â·yH2O, M=Co(III), Ni(III) honeycomb oxyhydrates. Journal of Solid State Chemistry, 2013, 204, 178-185.	2.9	15
92	Hydration phase diagram for sodium cobalt oxide Na0.3CoO2Â·yH2O. Materials Research Bulletin, 2005, 40, 665-670.	5.2	14
93	Structure and magnetism of NaRu2O4 and Na2.7Ru4O9. Journal of Solid State Chemistry, 2006, 179, 195-204.	2.9	14
94	Structural disorder, octahedral coordination and two-dimensional ferromagnetism in anhydrous alums. Journal of Solid State Chemistry, 2008, 181, 2768-2775.	2.9	14
95	Crystal structure and physical properties of Mg6Cu16Si7-type M6Ni16Si7, for M=Mg, Sc, Ti, Nb, and Ta. Materials Research Bulletin, 2008, 43, 9-15.	5.2	14
96	The crystal structures of the Chevrel phases Li3.3Mo6S8 and Li3.2Mo6Se8. Journal of Solid State Chemistry, 1984, 54, 193-203.	2.9	13
97	HREM on Tc=14.5 K superconducting ThPd2B2â^'xC. Physica C: Superconductivity and Its Applications, 1994, 229, 29-34.	1.2	13
98	Boron substitution in ternary metal phosphide superconductors. Materials Research Bulletin, 2004, 39, 1231-1235.	5.2	13
99	Diffuse x-ray scattering study of single crystal alpha-AgI. Solid State Ionics, 1983, 9-10, 1347-1351.	2.7	12
100	HREM on defects in Sr2Nd1.5Ce0.5NbCu2O10â^'Î´. Physica C: Superconductivity and Its Applications, 1992, 196, 252-258.	1.2	12
101	HREM on the new superconducting compound Nd1.5Ce0.5Sr2Cu2NbO10â^'Î´. Physica C: Superconductivity and Its Applications, 1992, 192, 223-229.	1.2	11
102	Stabilization of the low temperature coefficient of dielectric constant of Ca5Nb2TiO12 by Zr doping. Materials Research Bulletin, 1999, 34, 1817-1824.	5.2	11
103	Structure and superconductivity in LnNi2B2C: comparison of calculation and experiment. Solid State Communications, 2001, 119, 675-679.	1.9	11
104	The Structure and Properties of Î²-La3RuO7: A New Structure Type with Isolated RuO6 Octahedra. Journal of Solid State Chemistry, 2002, 165, 359-362.	2.9	11
105	Muon spin rotation study of. Physica B: Condensed Matter, 2006, 374-375, 263-266.	2.7	11
106	Scaling behaviour of magnetic transitions in Ni3V2O8. Philosophical Magazine, 2009, 89, 1923-1932.	1.6	11
107	HREM study of structural changes at or near the surface of ErBa2Cu4O8 upon heating in air at 100â€“250Â°C. Physica C: Superconductivity and Its Applications, 1991, 179, 227-242.	1.2	10
108	Pressure dependence of the superconducting transition temperature of MgCNi3. Physica C: Superconductivity and Its Applications, 2004, 408-410, 754-755.	1.2	10

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109	The effect of Fe and Ru substitution on the superconductivity in MgCNi3. Solid State Communications, 2004, 132, 379-382.	1.9	10
110	Heat capacity of. Physica B: Condensed Matter, 2005, 359-361, 479-481.	2.7	10
111	Diffuse X-ray and neutron scattering studies of fast ion conductors. Solid State Ionics, 1981, 5, 47-52.	2.7	8
112	High resolution electron microscopy study of Sr2NdNbCu2O8. Journal of Solid State Chemistry, 1992, 101, 322-330.	2.9	8
113	Low temperature thermoelectric properties of Bi2â^'xSbxTeSe2 crystals near the nâ€“p crossover. Solid State Communications, 2012, 152, 1208-1211.	1.9	8
114	Synthesis and characterization of the pseudo-hexagonal hollandites ALi2Ru6O12 (A=Na, K). Journal of Solid State Chemistry, 2006, 179, 941-948.	2.9	7
115	Structural and magnetic properties of pyrochlore solid solutions (Y,Lu)2Ti2â^'x(Nb,Ta)xO7Â±y. Journal of Solid State Chemistry, 2008, 181, 1753-1758.	2.9	7
116	The effect of Fe doping on superconductivity in ZrRuP. Solid State Communications, 2011, 151, 1504-1506.	1.9	7
117	Are cobaltates conventional? An ARPES viewpoint. Annals of Physics, 2006, 321, 1568-1574.	2.8	6
118	The A2+Mn5(SO4)6 family of triangular lattice, ferrimagnetic sulfates. Journal of Solid State Chemistry, 2009, 182, 1343-1350.	2.9	6
119	PbMn(SO4)2: A new chiral antiferromagnet. Journal of Solid State Chemistry, 2009, 182, 2461-2467.	2.9	6
120	Crystal structure and physical properties of new Ca2TGe3 (T = Pd and Pt) germanides. Journal of Solid State Chemistry, 2016, 243, 95-100.	2.9	6
121	Ca25Co22O56(OH)28: A layered misfit compound. Materials Research Bulletin, 2006, 41, 1673-1680.	5.2	5
122	Na27Ru14O48: A new mixed-valence sodium ruthenate with magnetic heptameric plaquettes. Journal of Solid State Chemistry, 2011, 184, 44-51.	2.9	4
123	Spectral weight transfer and mass renormalization in LnNi2B2C (Ln = Y, La). Journal of Physics and Chemistry of Solids, 1995, 56, 1875-1876.	4.0	3
124	Direct evidence for the electronic phase inhomogeneity in HoNi2B2C. Physica C: Superconductivity and Its Applications, 1998, 303, 91-93.	1.2	2
125	New 4234-type Intermetallic Borocarbides: Synthesis, Structure, and Magnetic Properties. Journal of Solid State Chemistry, 2002, 164, 246-251.	2.9	2
126	Synthesis and characterization of the novel antiferromagnet LaNiB3O7. Journal of Solid State Chemistry, 2019, 272, 113-117.	2.9	2

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127	Oxygen stoichiometry, structure and superconductivity in the superconducting series Pb2Sr2Y1â^'xCaxCu3O8+â^,. Journal of the Less Common Metals, 1990, 164-165, 816-823.	0.8	1
128	Title is missing!. Journal of Low Temperature Physics, 1999, 117, 849-853.	1.4	1
129	Magnets, mischief, and metals in Cobalt analogs of the superconducting cuprates. Physica C: Superconductivity and Its Applications, 2000, 341-348, 351-354.	1.2	1
130	Low-energy excitations and Fermi surface topology of parent cobaltate superconductor. Physica C: Superconductivity and Its Applications, 2007, 460-462, 186-189.	1.2	1
131	Synthesis of Three Layer NaxCoO2 (x=0.3, 0.5, 0.6, 0.75, 1.0) and Superconductivity in Three Layer Na0.3CoO2â€¢1.3H2O. Materials Research Society Symposia Proceedings, 2004, 848, 17.	0.1	0