

Eiji Takayama-Muromachi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1350341/publications.pdf>

Version: 2024-02-01

136
papers

6,873
citations

76326

40
h-index

62596

80
g-index

163
all docs

163
docs citations

163
times ranked

5628
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity in two-dimensional CoO ₂ layers. Nature, 2003, 422, 53-55.	27.8	1,706
2	Neutron Powder Diffraction Study on the Crystal and Magnetic Structures of BiCoO ₃ . Chemistry of Materials, 2006, 18, 798-803.	6.7	299
3	High-Pressure Synthesis, Crystal Structures, and Properties of Perovskite-like BiAlO ₃ and Pyroxene-like BiGaO ₃ . Chemistry of Materials, 2006, 18, 133-139.	6.7	196
4	Origin of the Monoclinic-to-Monoclinic Phase Transition and Evidence for the Centrosymmetric Crystal Structure of BiMnO ₃ . Journal of the American Chemical Society, 2007, 129, 971-977.	13.7	194
5	Exploration of new superconductors and functional materials, and fabrication of superconducting tapes and wires of iron pnictides. Science and Technology of Advanced Materials, 2015, 16, 033503.	6.1	188
6	Structural Evolution of the BiFeO ₃ ~LaFeO ₃ System. Chemistry of Materials, 2011, 23, 285-292.	6.7	162
7	Pressure-Induced Spin-State Transition in BiCoO ₃ . Journal of the American Chemical Society, 2010, 132, 9438-9443.	13.7	161
8	High-T _c Superconductor YBa ₂ Cu ₃ O _y -Oxygen Content vs T _c Relation-. Japanese Journal of Applied Physics, 1987, 26, L1156-L1158.	1.5	156
9	Bismuth Aluminate: A New High-T _c Lead-Free Piezo-/ferroelectric. Chemistry of Materials, 2007, 19, 6385-6390.	6.7	141
10	Superconductivity of YBa ₂ Cu _{3-x} M _x O _y (M = Co, Fe, Ni, Zn). Japanese Journal of Applied Physics, 1987, 26, L2087-L2090.	1.5	129
11	BiScO ₃ : A Centrosymmetric BiMnO ₃ -type Oxide. Journal of the American Chemical Society, 2006, 128, 706-707.	13.7	124
12	Jahn-Teller distortion and magnetic transitions in perovskite RMnO ₃ (R=Ho, Er, Tm, Yb, and Lu). Physical Review B, 2007, 75, .	3.2	124
13	Chemical composition and crystal structure of superconducting sodium cobalt oxide bilayer-hydrate Electronic supplementary information (ESI) available: Rietveld refinement patterns. See http://www.rsc.org/suppdata/jm/b4/b400181h/ . Journal of Materials Chemistry, 2004, 14, 1448.	6.7	117
14	Thermal conductivity of perovskite ferroelectrics. Applied Physics Letters, 2008, 93, .	3.3	93
15	BilnO ₃ : A Polar Oxide with GdFeO ₃ -Type Perovskite Structure. Chemistry of Materials, 2006, 18, 1964-1968.	6.7	82
16	Structure and Magnetic Properties of BiFe _{0.75} Mn _{0.25} O ₃ Perovskite Prepared at Ambient and High Pressure. Chemistry of Materials, 2011, 23, 4505-4514.	6.7	74
17	Oxyfluoride Chemistry of Layered Perovskite Compounds. Applied Sciences (Switzerland), 2012, 2, 206-219.	2.5	74
18	Evolution of electronic states in $R\text{Co}_3\text{O}_7$ ($R = \text{La, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu}$) perovskite oxides. Physical Review B, 2011, 83, 040407.	3.2	73

#	ARTICLE	IF	CITATIONS
19	Unconventional upper- and lower-critical fields and normal-state magnetic susceptibility of the superconducting compound $\text{Na}_{0.35}\text{CoO}_2 \cdot 1.3\text{H}_2\text{O}$. <i>Physical Review B</i> , 2003, 68, .	3.2	70
20	Spinel-to- CaFe_2O_4 -Type Structural Transformation in LiMn_2O_4 under High Pressure. <i>Journal of the American Chemical Society</i> , 2006, 128, 9448-9456.	13.7	70
21	Neutron Powder Diffraction Study on the Crystal and Magnetic Structures of BiCrO_3 . <i>Chemistry of Materials</i> , 2008, 20, 3765-3769.	6.7	69
22	High temperature thermoelectric properties of a homologous series of n-type boron icosahedra compounds: A possible counterpart to p-type boron carbide. <i>Journal of Applied Physics</i> , 2007, 101, 093714.	2.5	67
23	Structural Properties of Multiferroic BiFeO_3 under Hydrostatic Pressure. <i>Chemistry of Materials</i> , 2009, 21, 3400-3405.	6.7	66
24	Possible unconventional superconductivity in $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$ probed by muon spin rotation and relaxation. <i>Physical Review B</i> , 2004, 70, .	3.2	57
25	Indium-Based Perovskites: A New Class of Near-Room-Temperature Multiferroics. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6117-6120.	13.8	57
26	Structural difference between a superconducting sodium cobalt oxide and its related phase. <i>Journal of Solid State Chemistry</i> , 2004, 177, 372-376.	2.9	56
27	Crystal and Magnetic Structures and Properties of BiMnO_3 . <i>Journal of the American Chemical Society</i> , 2010, 132, 8137-8144.	13.7	56
28	BiGaO_3 -Based Perovskites: A Large Family of Polar Materials. <i>Chemistry of Materials</i> , 2012, 24, 3056-3064.	6.7	56
29	Weak Magnetic Order in Bilayered-Hydrate $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$ Structure Probed by Co Nuclear Quadrupole Resonance - Proposed Phase Diagram in Superconducting $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 867-870.	1.6	52
30	Magnetic Properties of BiMnO_3 Studied with Dc and Ac Magnetization and Specific Heat. <i>Inorganic Chemistry</i> , 2006, 45, 10224-10229.	4.0	50
31	Superconductivity of $\text{La}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_y$ System: Which Layers are Doped with Carriers?. <i>Japanese Journal of Applied Physics</i> , 1987, 26, L1546-L1549.	1.5	49
32	Linear decrease of critical temperature with increasing Zn substitution in the iron-based superconductor $\text{BaFe}_{1-x}\text{Zn}_x\text{O}_7$. <i>Physical Review B</i> , 2008, 77, 020401.	3.2	49
33	Peculiar High-Pressure Behavior of BiMnO_3 . <i>Inorganic Chemistry</i> , 2009, 48, 1000-1004.	4.0	48
34	Crystal symmetry of BiCrO_3 . <i>Physical Review B</i> , 2008, 77, 020401.	3.2	46
35	$\hat{\Gamma}_2$ -Vesignieite $\text{BaCu}_3\text{V}_2\text{O}_8(\text{OH})_2$: a structurally perfect $S = 1/2$ kagomé antiferromagnet. <i>Journal of Materials Chemistry</i> , 2012, 22, 18793.	6.7	45
36	Phase Diagram of Superconducting $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 2909-2912.	1.6	44

#	ARTICLE	IF	CITATIONS
55	High-Resolution Electron Microscopy of Planer Defects and Dislocation in Ba ₂ YCu ₃ O _y . Japanese Journal of Applied Physics, 1988, 27, L350-L353.	1.5	34
56	Magnetic Properties of NaV ₆ O ₁₁ . Journal of the Physical Society of Japan, 1991, 60, 2530-2533.	1.6	34
57	Electron Diffraction and Microscope Study of Radiation Damage in Ba ₂ YCu ₃ O _y . Japanese Journal of Applied Physics, 1987, 26, L1183-L1185.	1.5	33
58	Structure and properties of the CaFe ₂ O ₄ -type cobalt oxide CaCo ₂ O ₄ . Journal of Solid State Chemistry, 2007, 180, 2550-2557.	2.9	33
59	Synthesis and properties of oxygen non-stoichiometric BiMnO ₃ . Journal of Materials Chemistry, 2009, 19, 1593.	6.7	33
60	Nematic superconducting state in iron pnictide superconductors. Nature Communications, 2017, 8, 1880.	12.8	33
61	High-Pressure Synthesis and Properties of Solid Solutions between BiMnO ₃ and BiScO ₃ . Chemistry of Materials, 2007, 19, 1679-1689.	6.7	32
62	Characterization of Sodium Cobalt Oxides Related to P3-Phase Superconductor. Chemistry of Materials, 2005, 17, 2034-2040.	6.7	30
63	Effects of Isovalent Substitution in the Manganese Sublattice on Magnetic, Thermal, and Structural Properties of BiMnO ₃ : \hat{A} BiMn _{1-x} MxO ₃ (M = Al, Sc, Cr, Fe, Ga; 0 \hat{a} % \hat{x} % 0.2). Inorganic Chemistry, 2007, 46, 5585-5590.	4.0	30
64	New misfit-layered cobalt oxide (CaOH) _{1.14} CoO ₂ . Journal of Solid State Chemistry, 2007, 180, 249-259.	2.9	30
65	New Series of High T_c Superconductors, $\text{CaSr}_{2-x}\text{Ca}_{x-1}\text{Cu}_n\text{O}_{2n+3}$ ($n=3$; $T_c=70\text{K}$, $n=4$; $T_c=107\text{K}$) Prepared at High Pressure. Japanese Journal of Applied Physics, 1994, 33, L1399-L1402.	1.5	29
66	Synthesis, Characterization, and Magnetic Properties of $\hat{I}^3\text{-Na}_x\text{CoO}_2$ (0.70 \hat{a} % \hat{x} % 0.84). Journal of the Physical Society of Japan, 2004, 73, 2081-2084.	1.6	29
67	Structural Evolution and Properties of Solid Solutions of Hexagonal InMnO ₃ and InGaO ₃ . Inorganic Chemistry, 2011, 50, 3559-3566.	4.0	28
68	Local Crystal Structure of Multiferroic System BiMnO ₃ by Atomic Pair Distribution Function Analysis. Journal of the Physical Society of Japan, 2007, 76, 124605.	1.6	27
69	Topotactic Synthesis and Crystal Structure of a Highly Fluorinated Ruddlesden \hat{C} "Popper-Type Iron Oxide, $\text{Sr}_3\text{Fe}_2\text{O}_5\text{F}_2$ (\hat{a} % \hat{x} % 0.44). Chemistry of Materials, 2011, 23, 3652-3658.	6.7	27
70	Magnetic Fluctuations in the Metallic State of Na _{0.7} CoO ₂ Revealed by ²³ Na Nuclear Magnetic Resonance. Journal of the Physical Society of Japan, 2004, 73, 2963-2966.	1.6	23
71	¹⁷ O NMR Measurements on Superconducting Na _{0.35} CoO ₂ \hat{A} \hat{y} H ₂ O. Journal of the Physical Society of Japan, 2005, 74, 2177-2180.	1.6	23
72	Growth, crystal structure, and properties of epitaxial BiScO ₃ thin films. Journal of Applied Physics, 2008, 104, .	2.5	23

#	ARTICLE	IF	CITATIONS
91	Low-Temperature Vacuum Reduction of BiMnO ₃ . Inorganic Chemistry, 2011, 50, 7685-7689.	4.0	12
92	Structure of the Monoclinic-Form Misfit-Layer Compound, (Ca _{0.85} OH) ₂ CoO ₂ (̂± ̂% 0.57822). Journal of the American Chemical Society, 2007, 129, 14585-14596.	13.7	11
93	Ac susceptibility studies of multiferroic BiMnO ₃ and solid solutions between BiMnO ₃ and BiScO ₃ . Journal of Physics Condensed Matter, 2008, 20, 025211.	1.8	11
94	Comparative Muon-Spin Rotation and Relaxation Study on the Zigzag Chain Compounds NaMn ₂ O ₄ and Li _{0.92} Mn ₂ O ₄ . Journal of the Physical Society of Japan, 2009, 78, 084715.	1.6	11
95	Evolution of structural distortions in solid solutions between BiMnO ₃ and BiScO ₃ . Journal of Solid State Chemistry, 2009, 182, 685-689.	2.9	11
96	High-pressure synthesis, crystal structures, and characterization of CdVO ₃ and solid solutions CdVO ₃ NaVO ₃ . Journal of Solid State Chemistry, 2006, 179, 1650-1658.	2.9	10
97	Hydration of Sodium Cobalt Oxide. Chemistry of Materials, 2007, 19, 6073-6076.	6.7	10
98	Heat capacity of pyrochlore Pr ₂ Ru ₂ O ₇ . Journal of Applied Physics, 2007, 101, 09D502.	2.5	9
99	The high-pressure form of cadmium vanadate, CdV ₂ O ₆ . Acta Crystallographica Section C: Crystal Structure Communications, 2007, 63, i37-i39.	0.4	9
100	Thermoelectric Properties of the One-Dimensional Cobalt Oxide CaCo ₂ O ₄ . Journal of Electronic Materials, 2009, 38, 1166-1170.	2.2	9
101	On magnetic properties of BiCrO ₃ and BiMnO ₃ . Journal of Physics: Conference Series, 2009, 165, 012035.	0.4	9
102	Impurity effects on the normal-state transport properties of $Ba_{0.5}K_{0.5}Fe_{1-x}Co_xO_{2-y}$. Physical Review B, 2014, 90, .		
103	Muon spin relaxation study of misfit-layered cobalt dioxide. Solid State Communications, 2010, 150, 307-310.	1.9	8
104	Superconductivity in Pt Doped BaFe ₂ As ₂ . Journal of the Physical Society of Japan, 2012, 81, 064704.	1.6	8
105	High pressure synthesis and structure refinement of LiTiSi ₂ O ₆ . Journal of Alloys and Compounds, 2003, 354, L16-L19.	5.5	7
106	Superconducting phase diagram of Na _x CoO ₂ ·yH ₂ O. Physica C: Superconductivity and Its Applications, 2006, 445-448, 31-34.	1.2	7
107	Neutron powder diffraction study of the magnetic and crystal structures of SrFe ₂ (PO ₄) ₂ . Journal of Solid State Chemistry, 2008, 181, 2292-2297.	2.9	7
108	2 Å— 2 Superstructure in Sodium Cobalt Oxide Superconductors. Chemistry of Materials, 2009, 21, 3693-3700.	6.7	7

#	ARTICLE	IF	CITATIONS
109	Modulated Structure of the Composite Crystal $[2\text{CaOH}]_k\text{CoO}_2$ ($k=0.576$). Journal of the Physical Society of Japan, 2007, 76, 014602. Superconductivity in Ba_2S : A	1.6	6
110	Continuous critical temperature enhancement with gradual hydrogen doping in $\text{LaFeAsO}_{0.85}\text{H}$ electron system with a noncentrosymmetric crystal structure. Physical Review B, 2019, 99, .	3.2	6
111	Magnetic and electronic properties of misfit-layered cobalt oxide $(\text{Ca}_{1-x}\text{OH})_x\text{CoO}_2$. Journal of Applied Physics, 2007, 102, 023704.	2.5	5
112	Neutron and X-ray diffraction studies of $\text{RBa}_2\text{Cu}_3\text{O}_{7-x}$. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1987, 148, 302-304.	0.9	4
113	Crystal structures and properties of $\text{BiMn}_{1-x}\text{Al}_x\text{O}_3$ with $x=0.03$ and 0.1 . Materials Research Bulletin, 2008, 43, 3179-3187.	5.2	4
114			

#	ARTICLE	IF	CITATIONS
127	High-resolution transmission electron microscopy study of ordered or disordered arrangements of Cu, C and N in the charge-reservoir blocks of a series of high-Tc superconductors: (Cu, C) Tj ETQq1 1 0.784314 rgBTj/Overlock 10 Tf 50 Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1847-1860.	0.6	0
128	High Pressure Synthesis and Structure Refinement of LiTiSi2O6.. ChemInform, 2003, 34, no.	0.0	0
129	Characterization of Sodium Cobalt Oxides Related to P3-Phase Superconductor.. ChemInform, 2005, 36, no.	0.0	0
130	Co Nuclear-Quadrupole-Resonance Measurements on Na _x CoO ₂ ·yH ₂ O "Phase Diagram for Bilayered-Hydrate System. AIP Conference Proceedings, 2006, , .	0.4	0
131	⁵⁹ Co NMR study on local magnetic properties of Ca _{1-x} Na _x Co ₂ O ₄ . Journal of Physics: Conference Series, 2010, 200, 012197.	0.4	0
132	Ba ₂ Si ₂ : A 5d Electron System Superconductor with a New Type of Noncentrosymmetric Crystal Structure. , 2020, , .		0
133	Low-temperature transport properties of doped Ba _{0.57} K _{0.43} Fe superconductors in high magnetic field. Physical Review B, 2021, 103, .	3.2	0
134	NEUTRON AND X-RAY DIFFRACTION STUDIES OF RBa ₂ Cu ₃ O _{7-x} . , 1987, , 302-304.		0
135	High-pressure syntheses of Ga/Al-based cuprate superconductors. , 1995, , 281-284.		0
136	Structural Characterization of the Superconducting GaSr ₂ Ca _{n-1} Cu _n O _{2n+3} System. , 1996, , 325-328.		0