

# Masaaki Isobe

## List of Publications by Year in descending order

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103  
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citations

257450

24  
h-index

302126

39  
g-index

107  
all docs

107  
docs citations

107  
times ranked

2304  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ba <sub>2</sub> Fe <sub>2</sub> As <sub>2</sub> : A 5 <i>d</i> Electron System Superconductor with a New Type of Noncentrosymmetric Crystal Structure. , 2020, , .		0
2	Responsive Four-Coordinate Iron(II) Nodes in FePd(CN) <sub>4</sub> . Angewandte Chemie - International Edition, 2020, 59, 19254-19259.	13.8	18
3	Responsive Four-Coordinate Iron(II) Nodes in FePd(CN) <sub>4</sub> . Angewandte Chemie, 2020, 132, 19416-19421.	2.0	0
4	Magnetic excitations affected by spin-lattice coupling in the triangular lattice antiferromagnet Physical Review B, 2020, 102, .	3.2	1
5	Enhanced visible-light photocatalytic activity of anatase-rutile mixed-phase nano-size powder given by high-temperature heat treatment. Royal Society Open Science, 2020, 7, 191539.	2.4	25
6	Substitution Effect of the Electronic Structure of Layered Iridium Oxides from Hard X-ray Photoemission Spectroscopy. , 2020, , .		1
7	Superconductivity in Ba <sub>2</sub> Fe <sub>2</sub> As <sub>2</sub> : A 5 <i>d</i> electron system with a noncentrosymmetric crystal structure. Physical Review B, 2019, 99, .	3.2	6
8	Microscopic investigation of the weakly correlated noncentrosymmetric superconductor SrAuSi <sub>3</sub> . Physical Review B, 2018, 97, .	3.2	1
9	Superconductivity in noncentrosymmetric SrAuSi <sub>3</sub> . Physical Review B, 2016, 93, .	3.2	8
10	Two-Magnon Scattering in Spin-Orbital Mott Insulator Ba <sub>2</sub> IrO <sub>4</sub> . Journal of the Physical Society of Japan, 2016, 85, 023703.	1.6	2
11	Publisher's Note: Superconductivity and crystal structural origins of the metal-insulator transition in Ba <sub>6</sub> X <sub>2</sub> Nb <sub>10</sub> O <sub>30</sub> tetragonal tungsten bronzes [Phys. Rev. B 92, 214508 (2015)]. Physical Review B, 2016, 93, .	3.2	0
12	Superconductivity in noncentrosymmetric SrAuSi <sub>3</sub> . Physical Review B, 2016, 93, .	3.2	26
13	Superconductivity and crystal structural origins of the metal-insulator transition in Ba <sub>6</sub> X <sub>2</sub> Nb <sub>10</sub> O <sub>30</sub> tetragonal tungsten bronzes. Physical Review B, 2015, 92, 214508.	3.2	15
14	Orbital occupancies and the putative <i>d</i> - <i>d</i> transition in Ba <sub>2</sub> IrO <sub>4</sub> . Physical Review B, 2014, 89, .	3.2	36
15	Bulk nature of layered perovskite iridates beyond the Mott scenario: An approach from a bulk-sensitive photoemission study. Physical Review B, 2014, 89, .	3.2	24
16	The electronic structure of the high-symmetry perovskite iridate Ba <sub>2</sub> IrO <sub>4</sub> . New Journal of Physics, 2014, 16, 013008.	2.9	35
17	SrAuSi <sub>3</sub> : A Noncentrosymmetric Superconductor. Chemistry of Materials, 2014, 26, 2155-2165.	6.7	36
18	Spin-Orbital Coupling-Induced <i>d</i> - <i>d</i> States in Perovskite Iridates Studied by Photoemission Spectroscopy. , 2014, , .		2

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19	Robustness of Basal-Plane Antiferromagnetic Order and the $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$ State in Single-Layer Iridate Spin-Orbit Mott Insulators. <i>Physical Review Letters</i> , 2013, 110, 117207.	7.8	107
20	Pressure-induced metal-insulator transition of the mott insulator Ba <sub>2</sub> IrO <sub>4</sub> . <i>Journal of the Korean Physical Society</i> , 2013, 63, 349-351.	0.7	4
21	Magnetic states in quasi-2-D iridium oxides with large spin-orbit coupling. <i>Journal of the Korean Physical Society</i> , 2013, 63, 394-397.	0.7	1
22	Direct observation and dynamics of spontaneous skyrmion-like magnetic domains in a ferromagnet. <i>Nature Nanotechnology</i> , 2013, 8, 325-328.	31.5	64
23	Carrier doping effect for transport properties of a spin-orbit Mott insulator Ba $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$ Partially disordered spin structure in Ag <sub>2</sub> $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$	3.2	22
24	CrO <sub>2</sub> studied with $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$	3.2	8
25	Amorphous nanosilicas induce consumptive coagulopathy after systemic exposure. <i>Nanotechnology</i> , 2012, 23, 045101.	2.6	62
26	Magnetic ordering in spin-orbit Mott insulator Ba <sub>2</sub> IrO <sub>4</sub> probed by $\frac{1}{4}$ SR. <i>Journal of Physics: Conference Series</i> , 2012, 400, 032071.	0.4	0
27	Spin-Orbit Mott State in the Novel Quasi-2D Antiferromagnet Ba <sub>2</sub> IrO <sub>4</sub> . <i>Journal of Physics: Conference Series</i> , 2012, 400, 032028.	0.4	3
28	$\hat{\Gamma}_2$ -Vesignieite BaCu <sub>3</sub> V <sub>2</sub> O <sub>8</sub> (OH) <sub>2</sub> : a structurally perfect S = 1/2 kagom $\hat{\text{A}}$ antiferromagnet. <i>Journal of Materials Chemistry</i> , 2012, 22, 18793.	6.7	45
29	Methicillin-resistant <i>Staphylococcus aureus</i> bacteremia at a university hospital in Japan. <i>Journal of Infection and Chemotherapy</i> , 2012, 18, 841-847.	1.7	29
30	Partially disordered state and spin-lattice coupling in an $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$ lattice antiferromagnet Ag <sub>2</sub> $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$	3.2	21
31	Orbital switching in a frustrated magnet. <i>Nature Communications</i> , 2012, 3, 860.	12.8	60
32	Ba <sub>2</sub> IrO <sub>4</sub> $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$	3.2	78
33	Pressure-induced metal-insulator transition in the spin-orbit Mott insulator Ba $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$ A spin-orbit $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$	3.2	21
34	Crystal structure and magnetic properties of 6 $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$ SrMnO <sub>3</sub> $\chi_{\parallel} = \chi_{\perp} + \frac{1}{2} \chi_{\parallel}^{\text{orb}}$	3.2	55
35	Phase composition and magnetic properties of niobium-iron codoped TiO <sub>2</sub> nanoparticles synthesized in Ar/O <sub>2</sub> radio-frequency thermal plasma. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2525-2532.	2.9	3
36	Systemic distribution, nuclear entry and cytotoxicity of amorphous nanosilica following topical application. <i>Biomaterials</i> , 2011, 32, 2713-2724.	11.4	161

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37	Tank Model Testing of a Fish-Cage Flotation/Submersion System Using Flexible Hoses. , 2011, , .		2
38	Novel $S = 3/2$ Triangular Antiferromagnet $Ag_2CrO_2$ with Metallic Conductivity. Journal of the Physical Society of Japan, 2011, 80, 123703.	1.6	15
39	$^{59}Co$ NMR study on local magnetic properties of $Ca^{1-x}Na_xCo_2O_4$ . Journal of Physics: Conference Series, 2010, 200, 012197.	0.4	0
40	Muon spin relaxation study of misfit-layered cobalt dioxide. Solid State Communications, 2010, 150, 307-310.	1.9	8
41	Structural studies of a mixed-valence state in the incommensurate composite crystal $Sr_{1.261}CoO_3$ . Science and Technology of Advanced Materials, 2010, 11, 065004.	6.1	2
42	Thermoelectric Properties of the One-Dimensional Cobalt Oxide $CaCo_2O_4$ . Journal of Electronic Materials, 2009, 38, 1166-1170.	2.2	9
43	Paramagnetic nature of the layered cobalt dioxide with a double rocksalt-type layer. Physica B: Condensed Matter, 2009, 404, 607-610.	2.7	2
44	Structure and properties of the one-dimensional cobalt oxide $CaCo_2O_4$ . Physica C: Superconductivity and Its Applications, 2009, 469, 948-951.	1.2	7
45	Cobalt-Doped $TiO_2$ Nanocrystallites: Radio-Frequency Thermal Plasma Processing, Phase Structure, and Magnetic Properties. Journal of Physical Chemistry C, 2009, 113, 8009-8015.	3.1	88
46	Reference X-ray powder diffraction pattern of a high-pressure phase, $CaCo_2O_4$ . Powder Diffraction, 2009, 24, 343-346.	0.2	2
47	Magnetic and electronic properties of misfit-layered cobalt oxide $(Ca_{1-x}OH)_xCoO_2$ . Journal of Applied Physics, 2007, 102, 023704.	2.5	5
48	High-pressure high-temperature synthesis and magnetic properties of ordered perovskite $Sr_2Cu(Re_{0.69}W_xCa_{0.31})O_6$ ( $0 \leq x \leq 0.6$ ). Journal of Applied Physics, 2007, 101, 09N501.	2.5	1
49	Modulated Structure of the Composite Crystal $[2CaOH]_kCoO_2$ ( $k=0.576$ ). Journal of the Physical Society of Japan, 2007, 76, 014602.	1.6	6
50	Structure and properties of the $CaFe_2O_4$ -type cobalt oxide $CaCo_2O_4$ . Journal of Solid State Chemistry, 2007, 180, 2550-2557.	2.9	33
51	Modulated crystal structure of the composite crystal $(CaOH)_{1.14}CoO_2$ . Philosophical Magazine, 2007, 87, 2647-2653.	1.6	1
52	Structure of the Monoclinic-Form Misfit-Layer Compound, $(Ca_{0.85}OH)_xCoO_2$ ( $x \approx 0.57822$ ). Journal of the American Chemical Society, 2007, 129, 14585-14596.	18.7	11
53	New misfit-layered cobalt oxide $(CaOH)_{1.14}CoO_2$ . Journal of Solid State Chemistry, 2007, 180, 249-259.	2.9	30
54	Structural and physical properties of a novel misfit-layered cobalt oxide $(CaOH)_{1.14}CoO_2$ . Physica C: Superconductivity and Its Applications, 2007, 460-462, 477-478.	1.2	0

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55	Structure and properties of $(\text{CaOH})_k\text{CoO}_2$ . <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 178-181.	1.2	4
56	Crystal structure and physical properties of a misfit-layered cobaltite $(\text{CaOH})_{1.14}\text{CoO}_2$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, e269-e271.	2.3	6
57	Oxygen-deficiency effect on properties for the ordered-perovskite cuprate, $\text{Sr}_2\text{Cu}(\text{Re}_{0.69}\text{Ca}_{0.31})\text{O}_y$ ( $y=6.0\hat{\sim}5.4$ ). <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 312, 91-98.	2.3	5
58	Magnetic origin and oxydation states of cations in the $\text{TC}\hat{\sim}1/4440\text{K}$ ferrimagnet $\text{Sr}_2\text{Cu}(\text{Re}_{0.69}\text{Ca}_{0.31})\text{O}_6$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 312, 131-139.	2.3	6
59	Optical phonons in new ordered perovskite $\text{Sr}_2\text{Cu}(\text{Re}_{0.69}\text{Ca}_{0.31})\text{O}_y$ system observed by infrared reflectance spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 133-136.	1.2	4
60	Monoclinic phase of the misfit-layered cobalt oxide $(\text{Ca}_{0.85}\text{OH})_{1.16}\text{CoO}_2$ . <i>Journal of Solid State Chemistry</i> , 2006, 179, 3974-3980.	2.9	13
61	Physical property characterization of Fe-tube encapsulated and vacuum annealed bulk $\text{MgB}_2$ . <i>Solid State Communications</i> , 2006, 139, 306-309.	1.9	17
62	Fluxoid jump coupled high critical current density of nano- $\text{Co}_3\text{O}_4$ doped $\text{MgB}_2$ . <i>Superconductor Science and Technology</i> , 2006, 19, 551-555.	3.5	33
63	Effect of High Oxygen Pressure Post-Annealing on the $J_c$ Characteristics of Bi-2212/Ag Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 2542-2545.	1.7	2
64	High-resolution soft X-ray photoemission spectroscopy of spinel-type compound $\text{Cu}_2\text{S}_4$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E297-E298.	2.3	4
65	NMR study of the magnetic properties of the ordered perovskite $\text{Sr}_2\text{Cu}(\text{Re}_{0.69}\text{Ca}_{0.31})\text{O}_6$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 818-819.	2.3	6
66	Structure and magnetic properties of a new ordered perovskite $\text{Sr}_2\text{Cu}(\text{Re}_{0.69}\text{Ca}_{0.31})\text{O}$ system. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E623-E624.	2.3	5
67	Structure and Magnetism of the Composite Crystal $\text{Ca}_{0.824}\text{CuO}_2$ . <i>Journal of Low Temperature Physics</i> , 2003, 131, 737-741.	1.4	0
68	High-pressure synthesis, crystal structure and magnetic properties of a new cuprate $(\text{Nd,Ce})_{2+x}\text{CaCu}_2\text{O}_{6+y}$ . <i>Journal of Solid State Chemistry</i> , 2003, 170, 24-29.	2.9	7
69	New ferromagnets of $\text{Sr}_8\text{ARe}_3\text{Cu}_4\text{O}_{24}$ (A=Sr, Ca) with an ordered perovskite structure. <i>Journal of Solid State Chemistry</i> , 2003, 175, 366-371.	2.9	20
70	Pressure-induced superconductor-to-semiconductor transition in $\text{Cu}_{1-x}\text{Zn}_x\text{Ir}_2\text{S}_4$ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 307, 166-171.	2.1	5
71	Spin/hole order in the 1-D chain cuprate $\text{Ca}_{0.824}\text{CuO}_2$ . <i>Physica B: Condensed Matter</i> , 2003, 329-333, 1012-1013.	2.7	1
72	Pressure effect on the superconductivity and the metal/insulator transition in $\text{Cu}_{1-x}\text{Zn}_x\text{Ir}_2\text{S}_4$ . <i>Journal of Physics Condensed Matter</i> , 2002, 14, 10723-10726.	1.8	0

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73	Modulated Crystal Structure and Spin/Hole Arrangement in the Chain Compound $CaxCuO_2$ ( $x=0.8240$ ). Journal of the Physical Society of Japan, 2002, 71, 782-789.	1.6	11
74	High-pressure synthesis of O212-, 1201- and 1212-type copper oxides. Physica C: Superconductivity and Its Applications, 2001, 357-360, 318-323.	1.2	13
75	Low-temperature structure and hole localization in a one-dimensional chain-ladder composite material $Sr_{0.4}Ca_{13.6}Cu_{24+y}O_{41+z}$ . Physica C: Superconductivity and Its Applications, 2000, 341-348, 465-466.	1.2	1
76	Low-temperature crystal and magnetic structures of the chain-ladder composite material $Sr_{0.4}Ca_{13.6}Cu_{24+y}O_{41+z}$ : Hole redistribution and antiferromagnetic order. Physical Review B, 2000, 62, 11667-11676.	3.2	31
77	Antiferromagnetic transition in $Sr_{14-x}Ca_xCu_{24}O_{41}$ ( $12.5 < x < 13.6$ ) observed by magnetic measurements. Physical Review B, 1999, 59, 8703-8708.	3.2	22
78	Structural and electrical properties under high pressure for the superconducting spin-ladder system $Sr_{0.4}Ca_{13.6}Cu_{24}O_{41}$ . Physical Review B, 1998, 57, 613-621.	3.2	54
79	Structural Modulation and Charge Distribution in the Spin-Ladder $Ca_{13.6}Sr_{0.4}Cu_{24+y}O_{41+z}$ . Journal of the Physical Society of Japan, 1998, 67, 3119-3124.	1.6	9
80	Modulated Structure of the Composite Crystal $Ca_{13.6}Sr_{0.4}Cu_{24+y}O_{41+z}$ . Journal of the Physical Society of Japan, 1997, 66, 3107-3114.	1.6	46
81	Short-range-order state in the $Sr_2Nd_{1-x}Ca_xCu_2O_5+yF_1$ ( $0 \leq x \leq 1$ ) superconducting system. Journal of Applied Physics, 1997, 81, 1628-1632.	2.5	5
82	Short-range-order state in the $Sr_2Nd_{0.5}Cu_2O_5+yF_1$ superconductor. Physica C: Superconductivity and Its Applications, 1997, 282-287, 835-836.	1.2	1
83	Crystal structure and physical properties of the spin-1/2 two leg ladder system, $Sr_{14-x}Ca_xCu_{24}O_{41}$ . Physica C: Superconductivity and Its Applications, 1997, 282-287, 811-812.	1.2	4
84	Order/disorder of tetrahedral-chains in $AlSr_2YCu_2O_y$ and related oxide superconductors examined by HRTEM. Physica C: Superconductivity and Its Applications, 1997, 282-287, 813-814.	1.2	0
85	High-pressure syntheses of series of high $T_c$ -superconductors $(Cu_x)Sr_2Ca_{n-1}Cu_nO_y$ ( $X=Ge, P, C, S$ ). Physica C: Superconductivity and Its Applications, 1997, 282-287, 949-950.	1.2	2
86	Structural Order/Disorder in the $AlSr_2YCu_2O_7$ Compound. Journal of Solid State Chemistry, 1997, 133, 434-438.	2.9	16
87	Superconductivity of $M-12(n-1)_n$ series of compounds prepared under high pressure. European Physical Journal D, 1996, 46, 1461-1462.	0.4	0
88	Structural Disorders in the Superconducting $GaSr_2Ca_3Cu_4O_y$ . Journal of Solid State Chemistry, 1996, 123, 378-381.	2.9	14
89	Synthesis, crystal structures and superconductivity of new copper oxyfluorides, $Sr_2RCu_2O_5F$ ( $R =$ )	1.2	15
90	New series of oxyphosphate superconductors $(Cu_{0.5}P_{0.5})Sr_2(Ca,Y)_{n-1}Cu_nO_y$ ( $(Cu,P)_{12(n-1)}_n$ , $n = 3-6$ ) prepared under high pressure. Physica C: Superconductivity and Its Applications, 1996, 273, 72-82.	1.2	18

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91	Structural Characterization of the Superconducting $\text{GaSr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+3}$ System. , 1996, , 325-328.		0
92	Microstructural characterization of $\text{GaSr}_2\text{Ca}_2\text{Cu}_3\text{O}_{9+\delta}$ , $n = 3$ member of the homologous series of superconductors $\text{GaSr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+3}$ . Physica C: Superconductivity and Its Applications, 1995, 251, 279-284.	1.2	13
93	Crystal structure and resistivity of substituted $\text{LaSr}_2\text{Cu}_2\text{O}_6$ . Materials Research Bulletin, 1995, 30, 169-173.	5.2	5
94	High-pressure syntheses of Ga/Al-based cuprate superconductors. , 1995, , 281-284.		0
95	New Series of High $T_c$ Superconductors, $\text{GaSr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+3}$ ( $n=3$ ; $T_c=70\text{K}$ , $n=4$ ; $T_c=107\text{K}$ ) Prepared at High Pressure. Japanese Journal of Applied Physics, 1994, 33, L1399-L1402.	1.5	29
96	A new series of high- $T_c$ superconductors $\text{AlSr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+3}$ ( $n=4$ , $T_c=110\text{K}$ ; $n=5$ , $T_c=83\text{K}$ ) prepared at high pressure. Physica C: Superconductivity and Its Applications, 1994, 234, 120-126.	1.2	47
97	Identification of 70 K superconducting phase in the Y-Ca-Sr-Ga-Cu-O system. Physica C: Superconductivity and Its Applications, 1994, 227, 351-356.	1.2	6
98	High-pressure synthesis of $\text{Y}_{1-x}\text{Ca}_x\text{Sr}_2\text{GaCu}_2\text{O}_{7\pm\delta}$ ( $0 \leq x \leq 1.0$ ). Physica C: Superconductivity and Its Applications, 1994, 222, 310-316.	1.2	32
99	High-pressure and high oxygen-pressure syntheses of oxide superconductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 987-988.	1.2	2
100	Electrical and structural properties of $\text{CuO-SrPbO}_3\text{-Ag}$ ceramic composites. Materials Letters, 1994, 20, 275-278.	2.6	0
101	The construction of a new type of spray dryer and its application to the synthesis of $\text{YBaCuO}$ -type superconductors. Materials Letters, 1993, 15, 334-337.	2.6	2
102	Thermal stability and decomposition mechanism of $\text{YBa}_2\text{Cu}_4\text{O}_8$ . Physica C: Superconductivity and Its Applications, 1991, 185-189, 933-934.	1.2	2
103	Magnetic susceptibility of electron-doped superconductor $(\text{Nd}_{0.92}\text{Ce}_{0.08})_2\text{CuO}_4$ . Physica C: Superconductivity and Its Applications, 1991, 185-189, 1153-1154.	1.2	0