Masafumi Sakata

List of Publications by Year
in descending order

33	1,233	516215 16	414034 32
papers	citations	h-index	g-index

34	34	34	1698
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal structure of the superconducting phase of sulfur hydride. Nature Physics, 2016, 12, 835-838.	6.5	392
2	Pressure-Induced Metallization of Molybdenum Disulfide. Physical Review Letters, 2014, 113, 036802.	2.9	239
3	Superconducting state of Ca-VII below a critical temperature of 29 K at a pressure of 216 GPa. Physical Review B, 2011, 83, .	1.1	80
4	Suppression of metal-insulator transition at high pressure and pressure-induced magnetic ordering in pyrochlore oxide Nd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Ir<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mro	1.1	47
5	Thermal and Pressure Induced Spin Crossover of a Novel Iron(III) Complex with a Tripodal Ligand Involving Three Imidazole Groups. Chemistry Letters, 2001, 30, 1254-1255.	0.7	41
6	Ca-VI: A high-pressure phase of calcium above 158 GPa. Physical Review B, 2010, 81, .	1.1	39
7	Emergence of double-dome superconductivity in ammoniated metal-doped FeSe. Scientific Reports, 2015, 5, 9477.	1.6	39
8	Superconductivity of the hydrogen-rich metal hydride <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>11</mml:mn></mml:msub></mml:mrow></mml:math> under high pressure. Physical Review B, 2019, 99, .	1.1	39
9	Ca-VII: A Chain Ordered Host-Guest Structure of Calcium above 210ÂGPa. Physical Review Letters, 2013, 110, 235501.	2.9	38
10	Superconductivity of Pure H₃S Synthesized from Elemental Sulfur and Hydrogen. Journal of the Physical Society of Japan, 2019, 88, 123701.	0.7	33
11	Complex Formation between a Nucleobase and Tetracyanoquinodimethane Derivatives: Crystal Structures and Transport Properties of Charge-Transfer Solids of Cytosine. Bulletin of the Chemical Society of Japan, 2008, 81, 331-344.	2.0	30
12	Room-Temperature First-Order Phase Transition in a Charge-Disproportionated Molecular Conductor (MeEDO-TTF)₂PF₆. Chemistry of Materials, 2008, 20, 7551-7562.	3.2	25
13	Superconductivity in aromatic hydrocarbons. Physica C: Superconductivity and Its Applications, 2015, 514, 199-205.	0.6	25
14	High-pressure behavior of cuprospinel CuFe₂O₄: Influence of the Jahn-Teller effect on the spinel structure. American Mineralogist, 2015, 100, 1752-1761.	0.9	24
15	Prediction of the Electronic Structure via Molecular Stacking Mode of Radical Cation Salts Based on Asymmetric Donor Molecule MeEDO-TTF. Chemistry of Materials, 2009, 21, 1085-1095.	3.2	19
16	Conducting Ï€ Columns of Highly Symmetric Coronene, The Smallest Fragment of Graphene. Chemistry - A European Journal, 2016, 22, 6023-6030.	1.7	18
17	Preparation of Superconducting (TMTSF)2NbF6 by Electrooxidation of TMTSF Using Ionic Liquid as Electrolyte. Molecular Crystals and Liquid Crystals, 2006, 452, 103-112.	0.4	15
18	Two-year progress in experimental investigation on high-temperature superconductivity of sulfur hydride. Japanese Journal of Applied Physics, 2017, 56, 05FA13.	0.8	14

#	Article	IF	Citations
19	Superconductivity of lanthanum hydride synthesized using AlH₃ as a hydrogen source. Superconductor Science and Technology, 2020, 33, 114004.	1.8	11
20	Collapse of CuO Double Chains and Suppression of Superconductivity in High-Pressure Phase of YBa₂Cu₄O₈. Journal of the Physical Society of Japan, 2014, 83, 093601.	0.7	10
21	Superconductivity and structural studies of highly compressed hydrogen sulfide. Physica C: Superconductivity and Its Applications, 2018, 552, 27-29.	0.6	10
22	Pressure induced structural change in PbPc studied by infrared and UVâ€“visible spectroscopy and theoretical calculation. Solid State Communications, 2002, 121, 363-366.	0.9	8
23	Lithium polyhydrides synthesized under high pressure and high temperature. Journal of Raman Spectroscopy, 2017, 48, 1222-1228.	1.2	7
24	Charge-transfer complexes based on C_{2v}-symmetric benzo[ghi]perylene: comparison of their dynamic and electronic properties with those of D_{6h}-symmetric coronene. Materials Chemistry Frontiers, 2018, 2, 1165-1174.	3.2	6
25	Metallization of solid iodine in phase I: X-ray diffraction measurements, electrical resistance measurements, andab initiocalculations. High Pressure Research, 2013, 33, 186-190.	0.4	5
26	High-pressure transport study of a charge-transfer salt based on cytosine and TCNQ using a diamond anvil cell. Journal of Physics: Conference Series, 2008, 132, 012011.	0.3	4
27	Pressure-induced metal-insulator transition of the mott insulator Ba2IrO4. Journal of the Korean Physical Society, 2013, 63, 349-351.	0.3	4
28	Charge ordering state of mixed-valence (TP-EDTT)3(PF6)2. Synthetic Metals, 2009, 159, 2381-2383.	2.1	3
29	Spectroscopic investigation of pressure-induced phase transitions in TCNQ complex salts. Solid State Communications, 2003, 125, 423-427.	0.9	2
30	New Î±â€²-Type ET Salt (ET)2H2F3by Electrocrystallization Using Ionic Liquid. Chemistry Letters, 2007, 36, 226-227.	0.7	2
31	Crystal Structure of High-Pressure Phases V and VI of Potassium Dihydrogen Phosphate. Journal of the Physical Society of Japan, 2012, 81, 064706.	0.7	2
32	Structural phase transition of potassium under high-pressure and low-temperature condition. Journal of Physics: Conference Series, 2017, 950, 042020.	0.3	2
33	Recent Progress on High-Temperature Superconducting Sulfur Hydride. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2018, 28, 251-259.	0.1	0