

Takahiro Matsuoka

List of Publications by Year in descending order

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papers

1,279
citations

430442

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35
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69
all docs

69
docs citations

69
times ranked

1258
citing authors

#	ARTICLE	IF	CITATIONS
1	Symmetry progression and possible polar metallicity in NiPS ₃ under pressure. Npj 2D Materials and Applications, 2022, 6, .	3.9	4
2	Mixed-valence state and structure changes of EuH (x ⁻ = ⁻ 2 and 2 ⁻ < x ⁻ = ⁻ 3) under high-pressure H ₂ atmosphere, Journal of Alloys and Compounds, 2021, 865, 158637.	2.8	2
3	Pressure-Induced Insulator ⁻ “Metal Transition in Two-Dimensional Mott Insulator NiPS ₃ . Journal of the Physical Society of Japan, 2021, 90, .	0.7	4
4	Beryllium polyhydride BeH_8 synthesized at high pressure and temperature. Physical Review Materials, 2020, 4, .	0.1	3
5	Hydrogen-Storing Salt NaCl(H ₂) Synthesized at High Pressure and High Temperature. Journal of Physical Chemistry C, 2019, 123, 25074-25080.	1.5	1
6	Plasmons in Li under compression. Journal of Physics Condensed Matter, 2019, 31, 185501.	0.7	0
7	Superconductivity of platinum hydride. Physical Review B, 2019, 99, .	1.1	23
8	X-ray Free Electron Laser (XFEL) Observation of Lonsdaleite Formation by Ultrafast Laser Shock Compression. The Review of Laser Engineering, 2019, 47, 47.	0.0	0
9	Searching for Superconducting Hydrides ⁻ “The Experimental Achievements ⁻ ”. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2018, 28, 268-280.	0.1	1
10	Pressure Induced Variations in Refractive Index of Aromatic Polyimide Film Analyzed by Brillouin Scattering. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 599-606.	0.1	2
11	Lithium polyhydrides synthesized under high pressure and high temperature. Journal of Raman Spectroscopy, 2017, 48, 1222-1228.	1.2	7
12	Structural phase transition of potassium under high-pressure and low-temperature condition. Journal of Physics: Conference Series, 2017, 950, 042020.	0.3	2
13	Anomalous Uniaxial Compression of Interlayer Distance in Highly Oriented Pyrolytic Graphite. The Review of Laser Engineering, 2017, 45, 513.	0.0	0
14	High-Pressure-Hydrogen-Induced Spin Reconfiguration in GdFe ₂ Observed by 57Fe-Polarized Synchrotron Radiation Mössbauer Spectroscopy with Nuclear Bragg Monochromator. Journal of the Physical Society of Japan, 2016, 85, 123707.	0.7	2
15	Pressure-induced polyamorphism in a main-group metallic glass. Physical Review B, 2016, 94, .	1.1	14
16	Phase boundary of hot dense fluid hydrogen. Scientific Reports, 2015, 5, 16560.	1.6	72
17	High pressure ⁻ “low temperature phase diagram of barium: Simplicity versus complexity. Applied Physics Letters, 2015, 107, .	1.5	9
18	Phase diagram of the Eu ⁻ “H system at high temperatures and high hydrogen pressures. Solid State Communications, 2015, 205, 24-27.	0.9	9

#	ARTICLE	IF	CITATIONS
19	Heating of Li in hydrogen: possible synthesis of LiH _x . High Pressure Research, 2015, 35, 16-21.	0.4	6
20	Mixing unmixables: Unexpected formation of Li-Cs alloys at low pressure. Science Advances, 2015, 1, e1500669.	4.7	16
21	Raman Spectroscopy of Condensed Matter under High Pressure. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2015, 25, 3-10.	0.1	0
22	High pressure X-ray diffraction and Raman spectroscopic studies of the phase change of D ₂ O ice VII at approximately 11 ÅGPa. High Pressure Research, 2014, 34, 289-296.	0.4	15
23	Pressure-induced reentrant metallic phase in lithium. Physical Review B, 2014, 89, .	1.1	52
24	Phase changes induced by guest orientational ordering of filled ice Ih methane hydrate under high pressure and low temperature. Journal of Physics: Conference Series, 2014, 500, 192006.	0.3	0
25	Phase Changes Induced by Guest Orientational Ordering on Methane and Hydrogen Hydrates under Low Temperatures and High Pressures. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2014, 24, 278-287.	0.1	1
26	Elastic Properties of Methane-Propane Mixed Gas Hydrate. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2014, 24, 270-277.	0.1	1
27	A possible existence of phase change of deuterated ice VII at about 11 GPa by X-ray and Raman studies. Journal of Physics: Conference Series, 2014, 500, 182017.	0.3	7
28	Vibrational properties of Ba ₈ Ca ₁₆ Sn ₃₀ under high pressure. Journal of Physics: Conference Series, 2014, 500, 182022.	0.3	6
29	Metallization of solid iodine in phase I: X-ray diffraction measurements, electrical resistance measurements, and <i>ab initio</i> calculations. High Pressure Research, 2013, 33, 186-190.	0.4	5
30	Different routes to pressure-induced volume collapse transitions in gadolinium and terbium metals. Physical Review B, 2013, 88, .	1.1	23
31	Phase changes of filled ice Ih methane hydrate under low temperature and high pressure. Journal of Chemical Physics, 2013, 139, 104701.	1.2	18
32	In situ synchrotron ⁵⁷ Fe Mössbauer spectroscopy of RFe ₂ (R=Y,Gd) hydrides synthesized under ultra-high-pressure hydrogen. Journal of Alloys and Compounds, 2013, 580, S264-S267.	2.8	8
33	Ca-VII: A Chain Ordered Host-Guest Structure of Calcium above 210 ÅGPa. Physical Review Letters, 2013, 110, 235501.	2.9	38
34	Superconductivity in highly disordered dense carbon disulfide. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11720-11724.	3.3	36
35	Report on the 6th Asian Conference on High-Pressure Research (ACHPR 6)/International Forum on High-Pressure Sciences (IFHPS). Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2013, 23, 70-71.	0.1	0
36	Pressure-Induced Metallization of Yttrium Trihydride, YH ₃ . Journal of the Physical Society of Japan, 2012, 81, SB041.	0.7	9

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37	Hydrogen-induced modification of the electronic structure and magnetic states in Fe, Co, and Ni monohydrides. <i>Physical Review B</i> , 2012, 86, .	1.1	29
38	Magnetic States in Fe, Co, Ni hydrides under High Pressure Probed by X-ray Magnetic circular dichroism. <i>Journal of Physics: Conference Series</i> , 2012, 377, 012041.	0.3	2
39	Large amplitude fluxional behaviour of elemental calcium under high pressure. <i>Scientific Reports</i> , 2012, 2, 372.	1.6	16
40	Structural changes of filled ice Ic hydrogen hydrate under low temperatures and high pressures from 5 to 50 GPa. <i>Journal of Chemical Physics</i> , 2012, 137, 074505.	1.2	15
41	Superconducting state of Ca-VII below a critical temperature of 29 K at a pressure of 216 GPa. <i>Physical Review B</i> , 2011, 83, .	1.1	80
42	Structural and electrical transport properties of FeH ₂ under high pressures and low temperatures. <i>High Pressure Research</i> , 2011, 31, 64-67.	0.4	9
43	Note: High-pressure generation using nano-polycrystalline diamonds as anvil materials. <i>Review of Scientific Instruments</i> , 2011, 82, 066104.	0.6	27
44	Crystal Structure and Superconductivity of Ir^2 -Pyrochlore Oxides under High Pressure. <i>Journal of the Physical Society of Japan</i> , 2011, 80, SA041.	0.7	3
45	Structural and Valence Changes of Europium Hydride Induced by Application of High-Pressure H^2 . <i>Physical Review Letters</i> , 2011, 107, 095501.	2.9	34
46	Paramagnetism with anomalously large magnetic susceptibility in Ir^2 (fcc)-cobalt probed by x-ray magnetic circular dichroism up to 170 GPa. <i>Physical Review B</i> , 2011, 83, .	1.1	28
47	Cryogenic implementation of charging diamond anvil cells with H ₂ and D ₂ . <i>Review of Scientific Instruments</i> , 2011, 82, 105109.	0.6	16
48	Electrical Resistance Measurement Techniques for Metal Hydrides under High-Pressure H ₂ Conditions & Electrical Transport and Structural Properties of FeH _x . <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2011, 21, 190-196.	0.1	1
49	Report on Kick-off Conference on Pressure Effects on Materials ICMR. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2011, 21, 44-45.	0.1	0
50	Pressure-induced superconductivity in europium metal. <i>Journal of Physics: Conference Series</i> , 2010, 215, 012034.	0.3	10
51	Magnetic State in Iron Hydride Under Pressure Studied by X-ray Magnetic Circular Dichroism at the FeK-edge. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1262, 1.	0.1	4
52	Ca-VI: A high-pressure phase of calcium above 158 GPa. <i>Physical Review B</i> , 2010, 81, .	1.1	39
53	Report on the XLVIIth Meeting of European High Pressure Research Group. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2010, 20, 78-80.	0.1	0
54	Pressure-induced superconducting state in crystalline boron nanowires. <i>Physical Review B</i> , 2009, 79, .	1.1	18

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55	Pressure-Induced Superconducting State of Europium Metal at Low Temperatures. Physical Review Letters, 2009, 102, 197002.	2.9	62
56	Direct observation of a pressure-induced metal-to-semiconductor transition in lithium. Nature, 2009, 458, 186-189.	13.7	228
57	Superconductivity and crystal structure of lithium under high pressure. Journal of Physics: Conference Series, 2008, 121, 052003.	0.3	20
58	High-pressure generation using high-purity synthetic type IIa diamond anvils. High Pressure Research, 2008, 28, 217-223.	0.4	3
59	Superconductivity under high pressure in the binary compound $\text{CaLi}_{2/3}$. Physical Review B, 2008, 78, .	1.1	13
60	Pressure-Induced Superconductivity in CaLi_2 . Physical Review Letters, 2008, 100, 197003.	2.9	26
61	Generation of Multi-Megabar Pressure Using Nano-Polycrystalline Diamond Anvils. Japanese Journal of Applied Physics, 2007, 46, L640-L641.	0.8	34
62	Measurement of Electrical Resistance and Raman Spectrum of t-B_2 -Boron under High Pressure. Journal of the Physical Society of Japan, 2007, 76, 19-20.	0.7	14
63	Crystal Structure and Electrical Property of Calcium under Very High Pressure. Journal of the Physical Society of Japan, 2007, 76, 25-26.	0.7	12
64	Pressure Dependence of the Superconductivity in Strontium. Journal of the Physical Society of Japan, 2007, 76, 23-24.	0.7	6
65	Electrical Properties of YH_3 under High Pressure. Journal of the Physical Society of Japan, 2007, 76, 86-87.	0.7	7
66	Superconductivity of Ca Exceeding 25 K at Megabar Pressures. Journal of the Physical Society of Japan, 2006, 75, 083703.	0.7	119
67	Electrical and structural properties of YHx ($x \approx 1/4$ to 3) under high pressure. High Pressure Research, 2006, 26, 391-394.	0.4	3
68	The phase transition of CuCrZrS_4 at high pressure. Physica B: Condensed Matter, 2005, 359-361, 1213-1215.	1.3	5