

Toru Shinmei

List of Publications by Year in descending order

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50
papers

1,708
citations

394421

19
h-index

289244

40
g-index

50
all docs

50
docs citations

50
times ranked

1457
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of nano-polycrystalline diamond anvil cells with Zr-based bulk metallic glass cylinder for higher pressures: application to Laue-TOF diffractometer. High Pressure Research, 2022, 42, 121-135.	1.2	2
2	Halogen molecular modifications at high pressure: the case of iodine. Physical Chemistry Chemical Physics, 2021, 23, 3321-3326.	2.8	5
3	Synthesis of nano-polycrystalline diamond from glassy carbon at pressures up to 25â€¦GPa. High Pressure Research, 2020, 40, 96-106.	1.2	11
4	Deep-ultraviolet near band-edge emissions from nano-polycrystalline diamond. High Pressure Research, 2020, 40, 140-147.	1.2	1
5	Strength and plastic deformation of polycrystalline diamond composites. High Pressure Research, 2020, 40, 35-53.	1.2	4
6	Interplay between local structure, vibrational and electronic properties on CuO under pressure. Physical Chemistry Chemical Physics, 2020, 22, 24299-24309.	2.8	3
7	Mechanism of pressure induced amorphization of SnI4: A combined x-ray diffractionâ€”x-ray absorption spectroscopy study. Journal of Chemical Physics, 2020, 153, 064501.	3.0	1
8	High nitrogen solubility in stishovite (SiO2) under lower mantle conditions. Scientific Reports, 2020, 10, 10897.	3.3	6
9	Dispersing InP Nanocrystals in Nano-polycrystalline Diamond during the Direct Conversion from Graphite. Materials Transactions, 2020, 61, 1707-1710.	1.2	0
10	High pressure generation in Kawai-type multianvil apparatus using nano-polycrystalline diamond anvils. Comptes Rendus - Geoscience, 2019, 351, 260-268.	1.2	11
11	Synthesis of ultrafine nano-polycrystalline cubic boron nitride by direct transformation under ultrahigh pressure. Journal of the European Ceramic Society, 2018, 38, 2815-2822.	5.7	13
12	Quenchable compressed graphite synthesized from neutron-irradiated highly oriented pyrolytic graphite in high pressure treatment at 1500â€”C. Journal of Applied Physics, 2018, 123, 161577.	2.5	4
13	Nano-polycrystalline diamond synthesized from neutron-irradiated highly oriented pyrolytic graphite (HOPG). Diamond and Related Materials, 2018, 82, 132-136.	3.9	5
14	Electronic properties of nano-polycrystalline diamond synthesised by high-pressure and high-temperature technique. Diamond and Related Materials, 2018, 84, 66-70.	3.9	8
15	High-pressure and high-temperature synthesis of heavy lanthanide sesquisulfides Ln ₂ S ₃ (Ln = Yb and) Tj ETQq1 1_0,784314_5rgBT /Ove	5.5	5
16	Pulsed laser irradiation as a process of conductive surface formation on nanopolycrystalline diamond. Japanese Journal of Applied Physics, 2018, 57, 118004.	1.5	1
17	High-pressure rotational deformation apparatus to 135 GPa. Review of Scientific Instruments, 2017, 88, 044501.	1.3	25
18	Synthesis of coarse-grain-dispersed nano-polycrystalline cubic boron nitride by direct transformation under ultrahigh pressure. Diamond and Related Materials, 2017, 77, 25-34.	3.9	17

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19	High Pressure Experiments on Metal-Silicate Partitioning of Chlorine in a Magma Ocean: Implications for Terrestrial Chlorine Depletion. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3929-3945.	2.5	8
20	Garnets in the majorite-pyrope system: symmetry, lattice microstrain, and order-disorder of cations. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 237-245.	0.8	8
21	Stability region of $K_{0.2}Na_{0.8}AlSi_3O_8$ hollandite at 22 GPa and 2273 K. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 33-42.	0.8	16
22	Phase relations in the system $MgSiO_3$ - Al_2O_3 up to 52 GPa and 2000 K. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 257, 18-27.	1.9	31
23	A long-period superlattice phase in $Mg_{97}Zn_{1}Yb_2$ alloys synthesized under high-pressure. <i>Scripta Materialia</i> , 2016, 121, 45-49.	5.2	17
24	Phase Relations among DO_{32} , α -Mg, and Long-Period Stacking Orders in $Mg_{85}Zn_6Y_9$ Alloy under 3 GPa. <i>Materials Transactions</i> , 2015, 56, 910-913.	1.2	7
25	Elastic wave velocity of polycrystalline $Mg_{80}Py_{20}$ garnet to 21 GPa and 2,000 K. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 213-222.	0.8	16
26	High-pressure, high-temperature plastic deformation of sintered diamonds. <i>Diamond and Related Materials</i> , 2015, 59, 95-103.	3.9	13
27	A novel large-volume Kawai-type apparatus and its application to the synthesis of sintered bodies of nano-polycrystalline diamond. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 228, 255-261.	1.9	39
28	Spin transition, substitution, and partitioning of iron in lower mantle minerals. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 228, 186-191.	1.9	14
29	Disorder-activated Raman spectra of cubic rocksalt-type $Li_{1-x}Ga_{2x}M_xO$ ($M = Mg, Zn$) alloys. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	16
30	Elasticity and sound velocities of polycrystalline $Mg_3Al_2(SiO_4)_3$ garnet up to 20 GPa and 1700 K. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	30
31	Benzo[<i>b</i>]trithiophene Polymer Network Prepared by Electrochemical Polymerization with a Combination of Thermal Conversion. <i>Chemistry Letters</i> , 2012, 41, 140-141.	1.3	4
32	Phase relations in boron at pressures up to 18 GPa and temperatures up to 2200 K. $\langle \mathbf{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \mathbf{mml:msup} \rangle \langle \mathbf{mml:mrow} \rangle \langle \mathbf{mml:mo} \rangle \langle \mathbf{mml:mo} \rangle \langle \mathbf{mml:msup} \rangle \langle \mathbf{mml:math} \rangle C$. <i>Physical Review B</i> , 2012, 85, .	3.2	32
33	Spin transition of ferric iron in Al-bearing Mg -perovskite up to 200 GPa and its implication for the lower mantle. <i>Earth and Planetary Science Letters</i> , 2012, 317-318, 407-412.	4.4	47
34	Thermal equation of state of $Mg_3Al_2Si_3O_{12}$ pyrope garnet up to 19 GPa and 1,700 K. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 589-598.	0.8	41
35	Polycrystalline I^3 -boron: As hard as polycrystalline cubic boron nitride. <i>Scripta Materialia</i> , 2012, 67, 257-260.	5.2	23
36	Experimental study on the stability of graphitic C_3N_4 under high pressure and high temperature. <i>Diamond and Related Materials</i> , 2011, 20, 819-825.	3.9	61

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37	Tough Hypoeutectic Zr-Based Bulk Metallic Glasses. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1468-1475.	2.2	26
38	Cation order-disorder phase transitions in LiGaO ₂ : Observation of the pathways of ternary wurtzite under high pressure. Journal of Applied Physics, 2010, 108, .	2.5	16
39	Iron Partitioning and Density Changes of Pyrolite in Earth's Lower Mantle. Science, 2010, 327, 193-195.	12.6	197
40	Phase transition and compression behavior of phase D up to 46 GPa using multi-anvil apparatus with sintered diamond anvils. High Pressure Research, 2008, 28, 363-373.	1.2	21
41	Density profiles of pyrolite and MORB compositions across the 660 km seismic discontinuity. High Pressure Research, 2008, 28, 335-349.	1.2	11
42	Effect of chemical environment on the hydrogen-related defect chemistry in wadsleyite. American Mineralogist, 2008, 93, 831-843.	1.9	27
43	Grain-growth kinetics in wadsleyite: Effects of chemical environment. Physics of the Earth and Planetary Interiors, 2006, 154, 30-43.	1.9	71
44	Generation of pressures to 60 GPa in Kawai-type apparatus and stability of MnGeO ₃ perovskite at high pressure and high temperature. American Mineralogist, 2006, 91, 1342-1345.	1.9	9
45	Olivine-wadsleyite transition in the system (Mg,Fe) ₂ SiO ₄ . Journal of Geophysical Research, 2004, 109, .	3.3	272
46	In situ X-ray observation of iron using Kawai-type apparatus equipped with sintered diamond: Absence of β phase up to 44 GPa and 2100 K. Geophysical Research Letters, 2003, 30, .	4.0	48
47	Post-spinel transition in Mg ₂ SiO ₄ determined by high P-T in situ X-ray diffractometry. Physics of the Earth and Planetary Interiors, 2003, 136, 11-24.	1.9	210
48	In situ X-ray diffraction study of enstatite up to 12 GPa and 1473 K and equations of state. American Mineralogist, 1999, 84, 1588-1594.	1.9	67
49	High-pressure transformations in MgAl ₂ O ₄ . Journal of Geophysical Research, 1998, 103, 20813-20818.	3.3	95
50	Effects of Water on the β -Transformation Kinetics in San Carlos Olivine. , 1998, 281, 85-87.		93