List of Publications by Year in descending order

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ΗΙΡΛΟ ΝΛΟΗΙSA

#	Article	IF	CITATIONS
1	Density determination of liquid iron-nickel-sulfur at high pressure. American Mineralogist, 2022, 107, 1254-1261.	1.9	2
2	Equation of states for dense ice up to 80ÂGPa at low-temperature conditions. Journal of Chemical Physics, 2022, 156, 064504.	3.0	0
3	Equations of state of iron and nickel to the pressure at the center of the Earth. Matter and Radiation at Extremes, 2022, 7, .	3.9	9
4	Pressure-Induced Spin Transition in LuCu ₃ Fe ₄ O ₁₂ . Journal of the Physical Society of Japan, 2022, 91, .	1.6	1
5	Volume compression of period 4 elements: Zn, Ge, As, and Se above 200 GPa: Ordering of atomic volume by atomic number. Journal of Applied Physics, 2021, 129, .	2.5	5
6	Diamond formation from methane hydrate under the internal conditions of giant icy planets. Scientific Reports, 2021, 11, 8165.	3.3	10
7	High-pressure stability of bcc-vanadium and phase transition to a rhombohedral structure at 200 GPa. Journal of Applied Physics, 2021, 129, .	2.5	7
8	Synchrotron Mössbauer spectroscopic and x-ray diffraction study of ferropericlase in the high-pressure range of the lower mantle region. Physical Review B, 2021, 103, .	3.2	7
9	Mixed-valence state and structure changes of EuH (x = 2 and 2 < x â‰ 8 €¯3) under high-pressure H2 Journal of Alloys and Compounds, 2021, 865, 158637.	atmosph	ere. Z
10	Low-spin ferric iron in primordial bridgmanite crystallized from a deep magma ocean. Scientific Reports, 2021, 11, 19471.	3.3	0
11	Two-phase mixture of iron–nickel–silicon alloys in the Earth's inner core. Communications Earth & Environment, 2021, 2, .	6.8	10
12	Density and elastic properties of liquid gallium up to 10 GPa using X-ray absorption method combined with externally heated diamond anvil cell. High Pressure Research, 2021, 41, 379-391.	1.2	1
13	Incorporation mechanism of Fe and Al into bridgmanite in a subducting mid-ocean ridge basalt and its crystal chemistry. Scientific Reports, 2021, 11, 22839.	3.3	2
14	Pressure Destabilizes Oxygen Vacancies in Bridgmanite. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	5
15	Observation of high-pressure bcc phase of titanium at 243 GPa. Journal of Applied Physics, 2020, 128, 035901.	2.5	6
16	New pressure-induced phase transition to Co2Si-type Fe2P. American Mineralogist, 2020, 105, 1752-1755.	1.9	5
17	High-pressure Raman scattering and x-ray diffraction studies of the supercritical fluid of hydrogen. Journal of Applied Physics, 2020, 128, .	2.5	2
18	Dynamic observation of MoSiBTiC alloy phase transitions using in situ ultrahigh-temperature X-ray diffraction measurement. Materialia, 2020, 13, 100867.	2.7	2

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19	Chemical Reaction Between Metallic Iron and a Limited Water Supply Under Pressure: Implications for Water Behavior at the Coreâ€Mantle Boundary. Geophysical Research Letters, 2020, 47, e2020GL089616.	4.0	3
20	New developments in high-pressure X-ray diffraction beamline for diamond anvil cell at SPring-8. Matter and Radiation at Extremes, 2020, 5, .	3.9	84
21	Equation of State of Liquid Iron under Extreme Conditions. Physical Review Letters, 2020, 124, 165701.	7.8	55
22	Pressure–Composition Phase Diagram of Fe–Ni Alloy. Materials Transactions, 2020, 61, 1058-1062.	1.2	4
23	Elastic softening of bulk modulus of monoclinic HfO2 under high pressure. Applied Physics Letters, 2020, 117, .	3.3	7
24	Fe ₂ S: The Most Feâ€Rich Iron Sulfide at the Earth's Inner Core Pressures. Geophysical Research Letters, 2019, 46, 11944-11949.	4.0	17
25	Static compression of B2 KCl to 230 GPa and its P-V-T equation of state. American Mineralogist, 2019, 104, 718-723.	1.9	20
26	Pressure-induced reentrant structural transition and equation of state of indium. Journal of Applied Physics, 2019, 125, .	2.5	7
27	Thermal Equation of State of Fe3C to 327 GPa and Carbon in the Core. Minerals (Basel, Switzerland), 2019, 9, 744.	2.0	3
28	High pressure generation using double-stage diamond anvil technique: problems and equations of state of rhenium. High Pressure Research, 2018, 38, 107-119.	1.2	39
29	Chemical Reactions Between Fe and H ₂ O up to Megabar Pressures and Implications for Water Storage in the Earth's Mantle and Core. Geophysical Research Letters, 2018, 45, 1330-1338.	4.0	42
30	Observation of the negative pressure derivative of the bulk modulus in monoclinic ZrO2. AIP Advances, 2018, 8, .	1.3	7
31	Discovery of moganite in a lunar meteorite as a trace of H ₂ O ice in the Moon's regolith. Science Advances, 2018, 4, eaar4378.	10.3	21
32	Electronic properties and compressional behavior of Fe–Si alloys at high pressure. American Mineralogist, 2018, 103, 1959-1965.	1.9	4
33	Melting experiments on Fe–Si–S alloys to core pressures: Silicon in the core?. American Mineralogist, 2018, 103, 742-748.	1.9	22
34	Melting Phase Relations and Element Partitioning in MORB to Lowermost Mantle Conditions. Journal of Geophysical Research: Solid Earth, 2018, 123, 5515-5531.	3.4	15
35	Spin state and electronic environment of iron in basaltic glass in the lower mantle. American Mineralogist, 2017, 102, 2106-2112.	1.9	7
36	Suppression of X-ray-induced dissociation of H2O molecules in dense ice under pressure. Scientific Reports, 2016, 6, 26641.	3.3	9

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37	Crystal structure of the superconducting phase of sulfur hydride. Nature Physics, 2016, 12, 835-838.	16.7	392
38	Phase stability and magnetic behavior of hexagonal phase of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow> <mml:msub> <mml:mi mathvariant="normal">N <mml:mn> 2 </mml:mn> </mml:mi </mml:msub> <mml:mtext> â^' </mml:mtext> <mml:ms mathvariant="normal">O <mml:mn> 2 </mml:mn> </mml:ms </mml:mrow> system with kagome lattice under high pressure and low temperature. Physical Review B, 2016, 94, .</mml:math 	sub&₂mm	l:mŧ
39	Experimental and theoretical thermal equations of state of MgSiO3 post-perovskite at multi-megabar pressures. Scientific Reports, 2016, 6, 22652.	3.3	30
40	Electrical conductivity model of Al-bearing bridgmanite with implications for the electrical structure of the Earth's lower mantle. Earth and Planetary Science Letters, 2016, 434, 208-219.	4.4	32
41	High-pressure generation using double stage micro-paired diamond anvils shaped by focused ion beam. Review of Scientific Instruments, 2015, 86, 033905.	1.3	42
42	High-pressure phase diagram of O ₂ and N ₂ binary system: formation of kagome-lattice of O ₂ . Journal of Physics: Conference Series, 2014, 500, 182001.	0.4	6
43	Pressure-induced reentrant metallic phase in lithium. Physical Review B, 2014, 89, .	3.2	52
44	Equation of state of bcc-Mo by static volume compression to 410 GPa. Journal of Applied Physics, 2014, 116, .	2.5	16
45	Equation of state of pure iron and Fe0.9Ni0.1 alloy up to 3 Mbar. Physics of the Earth and Planetary Interiors, 2014, 228, 114-126.	1.9	52
46	Equation of state of Fe3S at room temperature up to 2 megabars. Physics of the Earth and Planetary Interiors, 2014, 228, 106-113.	1.9	14
47	Stability of a hydrous δ-phase, AlOOH–MgSiO2(OH)2, and a mechanism for water transport into the base of lower mantle. Earth and Planetary Science Letters, 2014, 401, 12-17.	4.4	130
48	Decomposition of Fe ₃ S above 250 GPa. Geophysical Research Letters, 2013, 40, 4845-4849.	4.0	29
49	Discovery of seifertite in a shocked lunar meteorite. Nature Communications, 2013, 4, 1737.	12.8	48
50	Acoustic velocity measurements for stishovite across the post-stishovite phase transition under deviatoric stress: Implications for the seismic features of subducting slabs in the mid-mantle. American Mineralogist, 2013, 98, 2053-2062.	1.9	14
51	A perovskitic lower mantle inferred from high-pressure, high-temperature sound velocity data. Nature, 2012, 485, 90-94.	27.8	220
52	Stability of Fe–Ni hydride after the reaction between Fe–Ni alloy and hydrous phase (δ-AlOOH) up to 1.2Mbar: Possibility of H contribution to the core density deficit. Physics of the Earth and Planetary Interiors, 2012, 194-195, 18-24.	1.9	50
53	Sound velocity measurements in dhcp-FeH up to 70 GPa with inelastic X-ray scattering: Implications for the composition of the Earth's core. Earth and Planetary Science Letters, 2012, 313-314, 79-85.	4.4	71
54	Sound velocity measurements of CaSiO3 perovskite to 133GPa and implications for lowermost mantle seismic anomalies. Earth and Planetary Science Letters, 2012, 349-350, 1-7.	4.4	24

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55	Melting relationships in the Fe–Fe3S system up to the outer core conditions. Earth and Planetary Science Letters, 2012, 359-360, 26-33.	4.4	56
56	Structural and Valence Changes of Europium Hydride Induced by Application of High-Pressure <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:msub><mml:mi mathvariant="normal">H<mml:mn>2</mml:mn></mml:mi </mml:msub></mml:math> . Physical Review Letters, 2011, 107, 025501.	7.8	34
57	Phase Transition of FeO and Stratification in Earth's Outer Core. Science, 2011, 334, 792-794.	12.6	60
58	Evidence from x-ray diffraction of orientational ordering in phase III of solid hydrogen at pressures up to 183 GPa. Physical Review B, 2010, 82, .	3.2	67
59	Compression of FeSi, Fe ₃ C, Fe _{0.95} O, and FeS under the core pressures and implication for light element in the Earth's core. Journal of Geophysical Research, 2010, 115, .	3.3	117
60	Phase relationships of the Fe–FeS system in conditions up to the Earth's outer core. Earth and Planetary Science Letters, 2010, 294, 94-100.	4.4	60
61	Development of an energy-domain ⁵⁷ Fe-Mössbauer spectrometer using synchrotron radiation and its application to ultrahigh-pressure studies with a diamond anvil cell. Journal of Synchrotron Radiation, 2009, 16, 723-729.	2.4	76
62	Development of in situ Brillouin spectroscopy at high pressure and high temperature with synchrotron radiation and infrared laser heating system: Application to the Earth's deep interior. Physics of the Earth and Planetary Interiors, 2009, 174, 282-291.	1.9	35
63	Aluminous hydrous mineral <i>δ</i> â€AlOOH as a carrier of hydrogen into the coreâ€mantle boundary. Geophysical Research Letters, 2008, 35, .	4.0	103
64	Highly intense monochromatic X-ray diffraction facility for high-pressure research at SPring-8. High Pressure Research, 2008, 28, 163-173.	1.2	140
65	New high-pressure B2 phase of FeS above 180 GPa. American Mineralogist, 2008, 93, 492-494.	1.9	23
66	Iron-water reaction at high pressure and temperature, and hydrogen transport into the core. Physics and Chemistry of Minerals, 2005, 32, 77-82.	0.8	56
67	Fe-Mg partitioning between (Mg, Fe)SiO3post-perovskite, perovskite, and magnesiowüstite in the Earth's lower mantle. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	77
68	Equation of state of iron?silicon alloys to megabar pressure. Physics and Chemistry of Minerals, 2004, 31, 329.	0.8	47
69	Compression of iron hydride to 80 GPa and hydrogen in the Earth's inner core. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	59
70	Phase transitions of (Mg,Fe)O at megabar pressures. Physics of the Earth and Planetary Interiors, 2004, 143-144, 201-213.	1.9	67