

Agnès Dewaele

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

5,339
citations

126907

33
h-index

155660

55
g-index

55
all docs

55
docs citations

55
times ranked

3546
citing authors

#	ARTICLE	IF	CITATIONS
1	Martensitic fcc-hcp transformation pathway in solid krypton and xenon and its effect on their equations of state. <i>Physical Review B</i> , 2022, 105, .	3.2	4
2	Magnetic phase diagram of iron at high pressure and temperature. <i>Physical Review B</i> , 2022, 106, .	3.2	5
3	Stability and equation of state of face-centered cubic and hexagonal close packed phases of argon under pressure. <i>Scientific Reports</i> , 2021, 11, 15192.	3.3	10
4	Toward an international practical pressure scale: A proposal for an IPPS ruby gauge (IPPS-Ruby2020). <i>High Pressure Research</i> , 2020, 40, 299-314.	1.2	143
5	Phase transitions and equation of state of zirconium under high pressure. <i>Physical Review B</i> , 2020, 102, .	3.2	16
6	Sound velocity and refractive index of pure N ₂ fluid and of equimolar N ₂ –CO ₂ fluid mixture up to 15 GPa. <i>Journal of Chemical Physics</i> , 2020, 153, 114503.	3.0	4
7	Compression of CsCl and CsBr in the megabar range. <i>High Pressure Research</i> , 2020, 40, 402-410.	1.2	3
8	Following the phase transitions of iron in 3D with X-ray tomography and diffraction under extreme conditions. <i>Acta Materialia</i> , 2020, 192, 30-39.	7.9	21
9	Argon-neon binary diagram and ArNe ₂ Laves phase. <i>Journal of Chemical Physics</i> , 2019, 151, 124708.	3.0	6
10	Equations of State of Simple Solids (Including Pb, NaCl and LiF) Compressed in Helium or Neon in the Mbar Range. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 684.	2.0	14
11	In situ characterization of the high pressure – high temperature melting curve of platinum. <i>Scientific Reports</i> , 2019, 9, 13034.	3.3	65
12	Recent Tomographic Imaging Developments at the PSICHE Beamline. <i>Integrating Materials and Manufacturing Innovation</i> , 2019, 8, 551-558.	2.6	15
13	High Pressure and High Temperature Synthesis of the Iron Pernitride FeN ₂ . <i>Inorganic Chemistry</i> , 2018, 57, 6245-6251.	4.0	46
14	Study of the iron nitride FeN into the megabar regime. <i>Journal of Alloys and Compounds</i> , 2018, 733, 53-58.	5.5	22
15	Iron under conditions close to the ϵ - γ - μ triple point. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	17
16	Toroidal diamond anvil cell for detailed measurements under extreme static pressures. <i>Nature Communications</i> , 2018, 9, 2913.	12.8	119
17	Reaction between nickel or iron and xenon under high pressure. <i>High Pressure Research</i> , 2017, 37, 137-146.	1.2	17
18	Methodology for <i>in situ</i> synchrotron X-ray studies in the laser-heated diamond anvil cell. <i>High Pressure Research</i> , 2017, 37, 170-180.	1.2	34

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19	Low temperature equation of state of iron. Applied Physics Letters, 2017, 111, .	3.3	10
20	Synthesis of FeH ₅ : A layered structure with atomic hydrogen slabs. Science, 2017, 357, 382-385.	12.6	142
21	The $\hat{\Gamma}$ $\hat{\alpha}$ ' $\hat{\Gamma}$ phase transformation in zirconium followed with ms-scale time-resolved X-ray absorption spectroscopy. High Pressure Research, 2016, 36, 237-249.	1.2	12
22	Synthesis and stability of xenon oxides Xe ₂ O ₅ and Xe ₃ O ₂ under pressure. Nature Chemistry, 2016, 8, 784-790.	13.6	89
23	High pressure-temperature phase diagram and equation of state of titanium. Physical Review B, 2015, 91, .	3.2	40
24	Mechanism of the $\hat{\Gamma}$ $\hat{\alpha}$ ' $\hat{\Gamma}$ transformation in iron. Physical Review B, 2015, 91, .	3.2	16
25	New Iron Hydrides under High Pressure. Physical Review Letters, 2014, 113, 265504.	7.8	127
26	Equation of state of rhenium and application for ultra high pressure calibration. Journal of Applied Physics, 2014, 115, .	2.5	74
27	Equation of state of $\hat{\Gamma}$ $\hat{\alpha}$ ' $\hat{\Gamma}$ transformation in iron. Physical Review B, 2013, 88, .	3.2	16
28	Refinement of the equation of state of $\hat{\Gamma}$ $\hat{\alpha}$ ' $\hat{\Gamma}$ -uranium. Physical Review B, 2013, 88, .	3.2	31
29	High-pressure structural transformations of Sn up to 138 GPa: Angle-dispersive synchrotron x-ray diffraction study. Physical Review B, 2013, 88, .	3.2	54
30	Melting of Iron at Earth's Inner Core Boundary Based on Fast X-ray Diffraction. Science, 2013, 340, 464-466.	12.6	486
31	Oxygen impurities reduce the metallization pressure of xenon. Physical Review B, 2012, 86, .	3.2	23
32	High-pressure high-temperature equation of state of KCl and KBr. Physical Review B, 2012, 85, .	3.2	122
33	X-Ray Magnetic Circular Dichroism Measurements in Ni up to 200 GPa: Resistant Ferromagnetism. Physical Review Letters, 2011, 107, 237202.	7.8	56
34	Xenon and Argon: A contrasting behavior in olivine at depth. Geochimica Et Cosmochimica Acta, 2011, 75, 6271-6284.	3.9	25
35	Oxygen/noble gas binary phase diagrams at 296 K and high pressures. Physical Review B, 2010, 82, .	3.2	26
36	High Melting Points of Tantalum in a Laser-Heated Diamond Anvil Cell. Physical Review Letters, 2010, 104, 255701.	7.8	151

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37	High pressure–high temperature equations of state of neon and diamond. <i>Physical Review B</i> , 2008, 77, .	3.2	176
38	Compression curves of transition metals in the Mbar range: Experiments and projector augmented-wave calculations. <i>Physical Review B</i> , 2008, 78, .	3.2	383
39	Isothermal equation of state for gold with a He-pressure medium. <i>Physical Review B</i> , 2008, 78, .	3.2	157
40	Optical pressure sensors for high-pressure–high-temperature studies in a diamond anvil cell. <i>High Pressure Research</i> , 2007, 27, 447-463.	1.2	154
41	Melting of lead under high pressure studied using second-scale time-resolved x-ray diffraction. <i>Physical Review B</i> , 2007, 76, .	3.2	99
42	Pressurizing conditions in helium-pressure-transmitting medium. <i>High Pressure Research</i> , 2007, 27, 419-429.	1.2	66
43	Equations of state of MgO, Au, Pt, NaCl-B1, and NaCl-B2: Internally consistent high-temperature pressure scales. <i>High Pressure Research</i> , 2007, 27, 431-446.	1.2	232
44	Melting curve and fluid equation of state of carbon dioxide at high pressure and high temperature. <i>Journal of Chemical Physics</i> , 2006, 125, 054504.	3.0	65
45	Quasihydrostatic Equation of State of Iron above 2ÂMbar. <i>Physical Review Letters</i> , 2006, 97, 215504.	7.8	350
46	An x-ray topographic study of diamond anvils: Correlation between defects and helium diffusion. <i>Journal of Applied Physics</i> , 2006, 99, 104906.	2.5	15
47	Mechanical properties of tantalum under high pressure. <i>Physical Review B</i> , 2005, 72, .	3.2	40
48	Coupling static and dynamic compressions: first measurements in dense hydrogen. <i>High Pressure Research</i> , 2004, 24, 25-31.	1.2	96
49	Equations of state of six metals above 94GPa. <i>Physical Review B</i> , 2004, 70, .	3.2	693
50	Measurement of refractive index and equation of state in dense He, H ₂ , H ₂ O, and Ne under high pressure in a diamond anvil cell. <i>Physical Review B</i> , 2003, 67, .	3.2	102
51	Thermoelastic properties and crystal structure of MgSiO ₃ perovskite at lower mantle pressure and temperature conditions. <i>Geophysical Research Letters</i> , 2000, 27, 21-24.	4.0	257
52	P-V-T equation of state of periclase from synchrotron radiation measurements. <i>Journal of Geophysical Research</i> , 2000, 105, 2869-2877.	3.3	116
53	P-V-T equation of state of MgSiO ₃ perovskite. <i>Physics of the Earth and Planetary Interiors</i> , 1998, 105, 21-31.	1.9	171
54	Thermal parameters of the Earth's lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 1998, 107, 261-267.	1.9	4

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55	Temperature and pressure distribution in the laser-heated diamondâ€“anvil cell. Review of Scientific Instruments, 1998, 69, 2421-2426.	1.3	68