## Isaac F Silvera

List of Publications by Year in descending order

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57758 54911 7,990 189 44 84 citations h-index g-index papers 192 192 192 3398 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Reflectance of rhenium as a function of pressure in a diamond anvil cell. Applied Physics Letters, 2022, 120, .	3.3	1
2	The High-Pressure Search for Metallic Hydrogen. Inference, 2022, 6, .	0.0	0
3	Phases of the hydrogen isotopes under pressure: metallic hydrogen. Advances in Physics: X, 2021, 6, .	4.1	5
4	Metallic Hydrogen. Inference, 2021, 6, .	0.0	0
5	Finite-element simulation of the liquid-liquid transition to metallic hydrogen. Physical Review B, 2019, 100, .	3.2	8
6	Quantum phase transition in solid hydrogen at high pressure. Physical Review B, 2019, 100, .	3.2	19
7	Striking isotope effect on the metallization phase lines of liquid hydrogen and deuterium. Physical Review B, 2018, 98, .	3.2	19
8	Metallic hydrogen. Journal of Physics Condensed Matter, 2018, 30, 254003.	1.8	21
9	Observation of the Wigner-Huntington transition to metallic hydrogen. Science, 2017, 355, 715-718.	12.6	438
10	Metallic Hydrogen. Journal of Low Temperature Physics, 2017, 187, 4-19.	1.4	2
11	The Creation of Long-Lived Multielectron Bubbles in Superfluid Helium. Journal of Low Temperature Physics, 2017, 187, 54-61.	1.4	6
12	Conductivity and dissociation in liquid metallic hydrogen and implications for planetary interiors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11873-11877.	7.1	41
13	Response to Comment on "Observation of the Wigner-Huntington transition to metallic hydrogen― Science, 2017, 357, .	12.6	15
14	Response to Comment on "Observation of the Wigner-Huntington transition to metallic hydrogen― Science, 2017, 357, .	12.6	15
15	Reply to "Comment on â€~Evidence of a first-order phase transition to metallic hydrogen' ― Physical Review B, 2017, 96, .	3.2	1
16	Reply to "Comment on â€~Evidence of a first-order phase transition to metallic hydrogen' ― Physical Review B, 2017, 96, .	3.2	2
17	New Phases and Dissociation-Recombination of Hydrogen Deuteride to 3.4ÂMbar. Physical Review Letters, 2016, 116, 145501.	7.8	22
18	Evidence of a first-order phase transition to metallic hydrogen. Physical Review B, 2016, 93, .	3.2	118

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19	Evidence of a liquid–liquid phase transition in hot dense hydrogen. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8040-8044.	7.1	92
20	Novel methods to create multielectron bubbles in superfluid helium. Review of Scientific Instruments, 2011, 82, 033904.	1.3	11
21	Nanoshells as a high-pressure gauge analyzed to 200 GPa. Journal of Applied Physics, 2011, 110, .	2.5	3
22	Pressure distribution in a quasi-hydrostatic pressure medium: A finite element analysis. Journal of Applied Physics, 2011, 110, .	2.5	6
23	The insulator-metal transition in hydrogen. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12743-12744.	7.1	17
24	Molten under pressure. Nature Physics, 2010, 6, 9-10.	16.7	7
25	Metallic hydrogen: The most powerful rocket fuel yet to exist. Journal of Physics: Conference Series, 2010, 215, 012194.	0.4	20
26	Thermionic emission and a novel electron collector in a liquid helium environment. Review of Scientific Instruments, 2009, 80, 043901.	1.3	15
27	Strategy and enhanced temperature determination in a laser heated diamond anvil cell. Journal of Applied Physics, 2009, 105, .	2.5	14
28	Melting Line of Hydrogen at High Pressures. Physical Review Letters, 2008, 100, 155701.	7.8	121
29	Conceptual Launch Vehicles Using Metallic Hydrogen Propellant. AIP Conference Proceedings, 2008, , .	0.4	5
30	Electron Emission in Superfluid and Low Temperature Vapor Phase Helium. Physical Review Letters, 2008, 100, 117602.	7.8	7
31	Calibration of the ruby pressure scale to 150 GPa. Physica Status Solidi (B): Basic Research, 2007, 244, 460-467.	1.5	30
32	The c-DAC: A novel cubic diamond anvil cell with large sample volume/area and multidirectional optics. Review of Scientific Instruments, 2006, 77, 115105.	1.3	8
33	Megabar-Pressure Infrared Study of Hydrogen Deuteride. Physical Review Letters, 2006, 97, 255701.	7.8	9
34	Multielectron Bubbles in Helium and Wigner Crystallization. Journal of Low Temperature Physics, 2005, 139, 495-502.	1.4	1
35	Pulsed laser heating and temperature determination in a diamond anvil cell. Review of Scientific Instruments, 2005, 76, 125104.	1.3	35
36	The ruby pressure standard to 150GPa. Journal of Applied Physics, 2005, 98, 114905.	2.5	231

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37	High-pressure equations of state of Al, Cu, Ta, and W. Journal of Applied Physics, 2005, 98, 073526.	2.5	84
38	Properties of the spherical 2D electron system in a multielectron bubble in liquid helium. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 771-774.	2.7	3
39	Impurity proton NMR signals from common "proton-free―laboratory materials. Journal of Magnetic Resonance, 2003, 162, 417-422.	2.1	6
40	Temperature determination for nanosecond pulsed laser heating. Review of Scientific Instruments, 2003, 74, 3820-3825.	1.3	45
41	Adhesives for highly polished surfaces and low temperature: A simple test and results. Review of Scientific Instruments, 2002, 73, 2108-2114.	1.3	3
42	Effect of Pressure on Statics, Dynamics, and Stability of Multielectron Bubbles. Physical Review Letters, 2001, 87, 275301.	7.8	65
43	X-ray-induced thinning of3Heand3He/4Hemixture films. Physical Review B, 2000, 62, 9641-9647.	3.2	2
44	4Heliquid-vapor interface below 1 K studied using x-ray reflectivity. Physical Review B, 2000, 62, 9621-9640.	3.2	30
45	The double-diamond anvil cell, the poor-man's megabar pressure cell. Review of Scientific Instruments, 1999, 70, 4609-4611.	1.3	7
46	A High Pressure Study of Ortho-para Conversion in Hydrogen by NMR. Journal of Low Temperature Physics, 1998, 113, 711-716.	1.4	2
47	Spin-polarized Hydrogen in a High Field Trap: Towards a Two-Component Bose Gas. Journal of Low Temperature Physics, 1998, 113, 211-216.	1.4	4
48	The Validity of Ortho and Para States of Hydrogen at Megabar Pressures. Journal of Low Temperature Physics, 1998, 112, 237-250.	1.4	9
49	NMR Study of Ortho-Para Conversion at High Pressure in Hydrogen. Physical Review Letters, 1998, 81, 4180-4183.	7.8	55
50	Hydrogen at megabar pressures and the importance of ortho-para concentration. Journal of Physics Condensed Matter, 1998, 10, 11169-11177.	1.8	4
51	Nuclear magnetic resonance in a diamond anvil cell at very high pressures. Review of Scientific Instruments, 1998, 69, 479-484.	1.3	36
52	Index of refraction, polarizability, and equation of state of solid molecular hydrogen. Physical Review B, 1998, 57, 14105-14109.	3.2	35
53	The Ruby Scale at Megabar Pressures. Materials Research Society Symposia Proceedings, 1997, 499, 265.	0.1	1
54	Investigations of possible metallic and critical behavior in the solid hydrogens at megabar pressures. Journal of Non-Crystalline Solids, 1996, 205-207, 290-294.	3.1	2

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55	Extended Infrared Studies of High Pressure Hydrogen. Physical Review Letters, 1996, 76, 1663-1666.	7.8	88
56	Excitation of ruby fluorescence at multimegabar pressures. Review of Scientific Instruments, 1996, 67, 4275-4278.	1.3	26
57	X-ray induced electrostatic charging of helium films. Journal of Low Temperature Physics, 1995, 101, 489-494.	1.4	1
58	Ultra-sensitive bolometers for atomic hydrogen detection. Journal of Low Temperature Physics, 1995, 101, 555-559.	1.4	0
59	The quest for Bose-Einstein condensation in atomic hydrogen. Journal of Low Temperature Physics, 1995, 101, 49-58.	1.4	9
60	Infrared Properties of Ortho and Mixed Crystals of Solid Deuterium at Megabar Pressures and the Question of Metallization in the Hydrogens. Physical Review Letters, 1995, 74, 4011-4014.	7.8	32
61	Excitations, order parameters, and phase diagram of solid deuterium at megabar pressures. Physical Review B, 1995, 51, 14987-14997.	3.2	50
62	Nonlocal distribution of the recombination energy in spin-polarized atomic hydrogen. Physical Review B, 1994, 50, 9339-9343.	3.2	7
63	Megabar pressure triple point in solid deuterium. Physical Review Letters, 1994, 72, 3048-3051.	7.8	40
64	Demonstration of neutral atom trapping with microwaves. Physical Review Letters, 1994, 72, 3162-3165.	7.8	65
65	Comment on â€~â€~The weakest bond: Experimental observation of helium dimer'' [J. Chem. Phys. 98, 356 (1993)]. Journal of Chemical Physics, 1994, 100, 4021-4022.	3.0	25
66	Novel technique for producing ultracoldHe4beams. Physical Review Letters, 1993, 70, 908-911.	7.8	12
67	Surface-state hydrogen maser. Physical Review A, 1993, 48, 3921-3929.	2.5	2
68	Remarkable high pressure phase line of orientational order in solid hydrogen deuteride. Physical Review Letters, 1993, 71, 3814-3817.	7.8	56
69	X-ray specular-reflectivity study of the liquid-vapor density profile ofHe4. Physical Review B, 1993, 48, 9644-9659.	3.2	43
70	Pressure dependence of the vibron inH2, HD, andD2: Implications for inter- and intramolecular forces. Physical Review B, 1993, 48, 12613-12619.	3.2	28
71	Cold collisions of ground stateHe4: GiantS-wave scattering cross sections. Physical Review Letters, 1993, 71, 1343-1346.	7.8	28
72	X-ray study of pressure-collapsed fullerite. Physical Review B, 1993, 48, 8474-8475.	3.2	18

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73	Demonstration of the microwave trap for cesium atoms. AIP Conference Proceedings, 1993, , .	0.4	O
74	Heat transport via evaporation of superfluid helium films: Giant effective Kapitza resistance. Physical Review Letters, 1992, 68, 3068-3071.	7.8	9
75	Gap reduction and the collapse of solidC60to a new phase of carbon under pressure. Physical Review Letters, 1992, 69, 466-469.	7.8	118
76	Pressure dependence of the vibron modes in solid hydrogen and deuterium. Physical Review B, 1992, 46, 5791-5794.	3.2	26
77	Dielectric properties of solid molecular hydrogen at high pressure. Physical Review B, 1992, 45, 9709-9715.	3.2	16
78	Measurement of a hyperfine-induced spin-exchange frequency shift in atomic hydrogen. Physical Review A, 1992, 46, 2495-2512.	2.5	18
79	Liquid-vapor density profile of helium: An x-ray study. Physical Review Letters, 1992, 68, 2628-2631.	7.8	72
80	Spin-polarized hydrogen: A weakly interacting boson gas. Journal of Low Temperature Physics, 1992, 87, 343-374.	1.4	10
81	Prospects for Bose-Einstein condensation in atomic hydrogen and other gases. Journal of Low Temperature Physics, 1992, 89, 287-296.	1.4	4
82	Measurements of giant cross sections in low temperature 4He-4He scattering. Journal of Low Temperature Physics, 1992, 89, 569-572.	1.4	8
83	A novel magnetic trap for spin-polarized hydrogen. Journal of Low Temperature Physics, 1992, 89, 703-706.	1.4	2
84	A hybrid microwave-static magnetic trap for spin-polarized hydrogen. Physica B: Condensed Matter, 1991, 169, 449-450.	2.7	8
85	X-ray specular reflectivity of the 4He liquid-vapor interface. Physica B: Condensed Matter, 1991, 169, 507-508.	2.7	3
86	The insulator-metal transition in molecular hydrogen and the three-state Potts model. Physica B: Condensed Matter, 1991, 169, 551-552.	2.7	1
87	Density dependence of the intramolecular distance in solidH2: A. Spectroscopic determination. Physical Review B, 1991, 43, 10191-10196.	3.2	55
88	Ruby at high pressure. III. A pumping scheme for the R lines up to 230 GPa. Physical Review B, 1991, 44, 7202-7208.	3.2	38
89	Absorption and reflectance in hydrogen up to 230 GPa: Implications for metallization. Physical Review Letters, 1991, 66, 193-196.	7.8	71
90	Third sound of helium on a hydrogen substrate. Physical Review B, 1991, 44, 12453-12462.	3.2	29

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91	Test of the linearity of quantum mechanics in an atomic system with a hydrogen maser. Physical Review Letters, 1990, 64, 2599-2602.	7.8	51
92	Order parameter and a critical point on the megabar-pressure hydrogen-A phase line. Physical Review Letters, 1990, 65, 1901-1904.	7.8	32
93	Orientational phase transitions in hydrogen at megabar pressures. Physical Review Letters, 1990, 64, 1939-1942.	7.8	113
94	Observation of the J=4 roton band in solid deuterium under pressure. Physical Review Letters, 1990, 65, 2677-2679.	7.8	3
95	Deuterated palladium at temperatures from 4.3 to 400 K and pressures to 105 kbar: Search for cold fusion. Physical Review B, 1990, 42, 9143-9146.	3.2	7
96	Reply to â€~â€~Comment on â€~Ruby at high pressure. I. Optical line shifts to 156 GPa' ''. Physical Re 42, 9191-9192.	vięw B, 19	90,
97	Nonlinear quantum mechanics for systems of composite spin. Physical Review A, 1990, 42, 63-68.	2.5	2
98	Evidence for Band Overlap Metallization of Hydrogen. Science, 1990, 247, 863-863.	12.6	0
99	Ruby at high pressure. II. Fluorescence lifetime of theRline to 130 GPa. Physical Review B, 1989, 40, 5733-5738.	3.2	54
100	Ruby at high pressure. I. Optical line shifts to 156 GPa. Physical Review B, 1989, 40, 5724-5732.	3.2	120
101	Optical Evidence for the Metallization of Xenon at 132(5) GPa. Physical Review Letters, 1989, 62, 665-668.	7.8	164
102	Trapping of neutral atoms with resonant microwave radiation. Physical Review Letters, 1989, 62, 2361-2364.	7.8	68
103	Evidence for a structural phase transition in solid hydrogen at megabar pressures. Physical Review Letters, 1989, 63, 2080-2083.	7.8	124
104	Three-body recombination of spin-polarized atomic hydrogen in very strong magnetic fields. Physical Review B, 1989, 40, 210-223.	3.2	9
105	Eddy current shielding and heating: Reduction of dissipation for very lowâ€temperature experiments in the presence of magnetic field ripple. Review of Scientific Instruments, 1989, 60, 2964-2968.	1.3	11
106	Elimination of pressureâ€induced fluorescence in diamond anvils. Applied Physics Letters, 1988, 53, 2489-2491.	3.3	25
107	Temperature dependence of resistance of solid hydrogen iodide at high pressure. Journal of Chemical Physics, 1988, 88, 478-480.	3.0	2
108	Pressure dependence of the optical-absorption edge of solid hydrogen in a diamond-anvil cell. Physical Review B, 1988, 37, 6478-6481.	3.2	29

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109	Study of pressure distributions in a megabar diamond indentor cell. Review of Scientific Instruments, 1988, 59, 2583-2591.	1.3	9
110	Spin-polarized hydrogen in high magnetic fields. Physical Review B, 1988, 38, 9231-9234.	3.2	6
111	Equation of state of solid molecularH2andD2at 5 K. Physical Review B, 1988, 37, 1989-2000.	3.2	85
112	ESR pumping experiments in spin-polarized atomic hydrogen. Physical Review B, 1988, 37, 4831-4838.	<b>3.</b> 2	5
113	Magnetic-field dependence of resonance recombination in spin-polarized atomic hydrogen. Physical Review B, 1988, 37, 1520-1524.	3.2	4
114	Vibrational mode frequencies, phase diagram, and optical transmission of solid hydrogen iodide to 25 GPa. Physical Review B, 1987, 36, 9253-9262.	3.2	6
115	A hydrogen maser at temperatures below $1\mathrm{K}$ . IEEE Transactions on Instrumentation and Measurement, 1987, IM-36, 588-593.	4.7	3
116	Electrical resistance measurements on cryocrystals in a diamondâ€anvil cell to 70 GPa. Review of Scientific Instruments, 1987, 58, 994-996.	1.3	15
117	Semiempirical equation of state of solid hydrogen iodide. Physical Review B, 1987, 36, 9301-9303.	3.2	6
118	Ortho-para dependence of the equation of state and the phonon frequency of solid hydrogen. Physical Review B, 1987, 35, 6649-6658.	3.2	3
119	Spin-Polarized Atomic Hydrogen in Very High Magnetic Fields. Japanese Journal of Applied Physics, 1987, 26, 229.	1.5	3
120	Cooling of a Gas of Atomic Hydrogen with Microwave Radiation. Japanese Journal of Applied Physics, 1987, 26, 245.	1.5	2
121	Equation of state of solidHe4. Physical Review B, 1986, 33, 3269-3288.	3.2	73
122	Hydrogen maser at temperatures below 1 K. Physical Review A, 1986, 34, 2550-2553.	2.5	35
123	Spin exchange and dipolar relaxation rates in atomic hydrogen: Lifetimes in magnetic traps. Physical Review B, 1986, 33, 626-628.	3.2	63
124	Improved adhesion of thin conformal organic films to metal surfaces. Review of Scientific Instruments, 1986, 57, 1381-1383.	1.3	38
125	Observation of Metal-insulator and Metal-Metal Transitions in Hydrogen Iodide under Pressure. Physical Review Letters, 1986, 57, 766-769.	7.8	31
126	Transmissionâ€line tunnel diode oscillator: A sensitive, fast, and flexible lowâ€temperature detection system. Review of Scientific Instruments, 1986, 57, 2842-2847.	1.3	4

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127	Experiments with â€~â€~doubly''-spin-polarized atomic hydrogen. Physical Review B, 1986, 34, 6172-6182.	. 3.2	16
128	Interaction of Atomic Hydrogen with Undersaturated Helium Films. Physical Review Letters, 1985, 55, 1311-1314.	7.8	20
129	Roton-phonon mixing in solid hydrogen and deuterium. Physical Review B, 1985, 31, 1352-1358.	3.2	5
130	Compression experiments with spin-polarized atomic hydrogen. Physical Review B, 1985, 32, 5668-5682.	3.2	28
131	Diamond anvil cell and cryostat for lowâ€ŧemperature optical studies. Review of Scientific Instruments, 1985, 56, 121-124.	1.3	113
132	Raman spectra of diamond at high pressures. Physical Review B, 1985, 32, 1423-1425.	3.2	163
133	Ortho-para conversion of solid hydrogen as a function of density. Physical Review B, 1984, 30, 2517-2526.	3.2	31
134	Study of doubly polarized atomic hydrogen by electron-spin resonance. Physical Review B, 1984, 30, 2386-2400.	3.2	6
135	An improved experimental equation of state of solid hydrogen and deuterium. Journal of Low Temperature Physics, 1984, 54, 361-395.	1.4	28
136	The high-pressure equation of state of solid molecular tritium. Journal of Low Temperature Physics, 1984, 54, 565-585.	1.4	2
137	Ultimate fate of a gas of atomic hydrogen in a liquid-helium chamber: Recombination and burial. Physical Review B, 1984, 29, 3899-3904.	3.2	36
138	A model for the determination of the crystal field potential in H2 and D2 from high pressure experiments. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 99, 97-100.	2.1	2
139	Raman studies of argon dimers in a supersonic expansion. I. Spectroscopy. Physical Review A, 1983, 27, 3008-3018.	2.5	38
140	Compression of Spin-Polarized Hydrogen to High Density. Physical Review Letters, 1983, 51, 479-482.	7.8	56
141	Raman studies of argon dimers in a supersonic expansion. II. Kinetics of dimer formation. Physical Review A, 1983, 27, 3019-3030.	2.5	25
142	Direct Microscopic Study of Doubly Polarized Atomic Hydrogen by Electron-Spin Resonance. Physical Review Letters, 1983, 50, 53-56.	7.8	25
143	Pressure dependence of the optical phonon in solid hydrogen and deuterium up to 230 kbar. Physical Review B, 1983, 27, 5084-5087.	3.2	23
144	Rotational R branch Raman spectroscopy in CO2. Journal of Chemical Physics, 1983, 78, 121-123.	3.0	5

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145	RotationalRâ€branch spectroscopy in CO2: Reply. Journal of Chemical Physics, 1983, 79, 2491-2491.	3.0	1
146	Pressure dependence of the vibron in solid hydrogen and deuterium up to 600 kbar. Physical Review B, 1982, 26, 4957-4962.	3.2	29
147	State-Dependent Recombination and Suppressed Nuclear Relaxation in Atomic Hydrogen. Physical Review Letters, 1982, 49, 153-157.	7.8	46
148	Ballistic heat pulses in spin-polarized atomic hydrogen toT=200mK. Physical Review B, 1982, 25, 6002-6005.	3.2	13
149	Heliumâ€temperature beam source of atomic hydrogen. Review of Scientific Instruments, 1982, 53, 1167-1181.	1.3	67
150	Raman Spectroscopy of Argon Dimers. Physical Review Letters, 1982, 48, 1337-1340.	7.8	29
151	Low-Temperature Equation of State of Molecular Hydrogen and Deuterium to 0.37 Mbar: Implications for Metallic Hydrogen. Physical Review Letters, 1982, 48, 97-100.	7.8	81
152	Atomic hydrogen in an inhomogeneous magnetic field: Density profile and Bose-Einstein condensation. Physical Review B, 1981, 24, 2870-2873.	3.2	165
153	Spinâ€polarized atomic hydrogen: A magnetic gas (invited). Journal of Applied Physics, 1981, 52, 2304-2308.	2.5	17
154	A stabilised gas of atomic hydrogen. Physics Bulletin, 1981, 32, 352-353.	0.0	0
155	Roton softening in the solid hydrogens. Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 84, 28-31.	2.1	31
156	Measurement of Pressure of Gaseous H↓: Adsorption Energies and Surface Recombination Rates on Helium. Physical Review Letters, 1981, 46, 668-671.	7.8	62
157	New Low-Temperature Phase of Molecular Deuterium at Ultrahigh Pressure. Physical Review Letters, 1981, 47, 39-42.	7.8	144
158	Adsorption Energy and Nuclear Relaxation of H↓ onHe3-He4Mixtures. Physical Review Letters, 1981, 47, 800-803.	7.8	38
159	Density, Magnetization, Compression, and Thermal Leakage of Low-Temperature Atomic Hydrogen. Physical Review Letters, 1980, 44, 168-171.	7.8	39
160	Raman Spectrum of Solid Orthodeuterium to 150 kbar at 5 K. Physical Review Letters, 1980, 44, 456-459.	7.8	20
161	Spin-Polarized Atomic Deuterium: Stabilization, Limitations on Density, and Adsorption Energy on Helium. Physical Review Letters, 1980, 45, 1268-1271.	7.8	55
162	Atomic Hydrogen in Contact with a Helium Surface: Bose Condensation, Adsorption Isotherms, and Stability. Physical Review Letters, 1980, 45, 915-918.	7.8	37

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163	Magnetic Equation of State of a Gas of Spin-Polarized Atomic Hydrogen. Physical Review Letters, 1980, 45, 449-452.	7.8	80
164	Stabilization of Atomic Hydrogen at Low Temperature. Physical Review Letters, 1980, 44, 164-168.	7.8	209
165	The solid molecular hydrogens in the condensed phase: Fundamentals and static properties. Reviews of Modern Physics, 1980, 52, 393-452.	45.6	1,097
166	Anomalous double-peaked one-phonon far infrared absorption in compressed deuterium. Physics Letters, Section A: General, Atomic and Solid State Physics, 1979, 70, 337-340.	2.1	3
167	An atomic beam technique for the study of active solid nitrogen. Physics Letters, Section A: General, Atomic and Solid State Physics, 1979, 73, 119-122.	2.1	5
168	Direct determination of the temperature and density of gaseous atomic hydrogen at low temperature by atomic beam techniques. Physics Letters, Section A: General, Atomic and Solid State Physics, 1979, 74, 193-196.	2.1	10
169	Experimental determination of the equation of state of solid hydrogen and deuterium at high pressures. Journal of Low Temperature Physics, 1979, 34, 255-305.	1.4	46
170	Frequency dependence of Raman-active phonons in solid HCP hydrogen on ortho-para concentration and temperature. Journal of Low Temperature Physics, 1979, 35, 611-625.	1.4	9
171	Far-infrared absorption in solid hydrogen and deuterium in the ordered state as a function of density. Journal of Low Temperature Physics, 1979, 36, 243-278.	1.4	8
172	Orientational Ordering in Solid Hydrogen: Dependence of Critical Temperature and Concentration on Density. Physical Review Letters, 1979, 43, 377-380.	7.8	19
173	Far-infrared absorption by phonons and librons in solid H2 and D2 in the ordered state. Journal of Low Temperature Physics, 1978, 32, 185-219.	1.4	19
174	The libron spectra and conversion as a function of ortho-para concentration in solid H2 and D2. Journal of Low Temperature Physics, 1978, 32, 401-417.	1.4	8
175	Experimental study of spin aligned atomic hydrogen condensed on surfaces. Physics Letters, Section A: General, Atomic and Solid State Physics, 1978, 66, 247-250.	2.1	14
176	The equation of state of solid molecular hydrogen and deuterium. Physics Letters, Section A: General, Atomic and Solid State Physics, 1978, 68, 207-210.	2.1	17
177	The isotropic intermolecular potential for H2and D2in the solid and gas phases. Journal of Chemical Physics, 1978, 69, 4209-4213.	3.0	560
178	Intracavity Raman Scattering from Molecular Beams: Direct Determination of Local Properties in an Expanding Jet Beam. Physical Review Letters, 1976, 37, 136-140.	7.8	40
179	Inelastic Neutron Scattering and Separation Coefficient of Absorbed Hydrogen: Molecular Alignment and Energy Levels. Physical Review Letters, 1976, 37, 1275-1278.	7.8	64
180	Raman scattering in oriented crystals of paradeuterium and orthohydrogen. Physical Review B, 1975, 12, 753-789.	3.2	44

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181	Raman-Active Optical Phonons in the Hexagonal Phases of SolidH2,D2, and HD. Physical Review B, 1972, 5, 1578-1586.	3.2	39
182	Precision Frequency Calibrator for Raman Spectrometers. Review of Scientific Instruments, 1972, 43, 58-62.	1.3	11
183	Libron Spectra of Oriented Crystals of Paradeuterium and Orthohydrogen in the Ordered State. Physical Review Letters, 1971, 26, 127-131.	7.8	40
184	Direct Observation of IsolatedJ=1Pairs in Solid Deuterium and Hydrogen by Raman Scattering. Physical Review B, 1971, 4, 2724-2733.	3.2	22
185	Mylar Windows for Use at Low Temperatures. Review of Scientific Instruments, 1970, 41, 1513-1514.	1.3	14
186	A Variable Temperature, Variable Path Length Cell for ir Studies of Liquefied and Solidified Gases. Review of Scientific Instruments, 1970, 41, 1592-1594.	1.3	3
187	Observation of Librational Waves in the Ordered State of Solid Hydrogen and Deuterium by Raman Scattering. Physical Review Letters, 1969, 22, 297-300.	7.8	39
188	Rotational excitations in solid hydrogen and deuterium in the ordered state. Discussions of the Faraday Society, 1969, 48, 54.	0.9	27
189	Optical Phonons in Solid Hydrogen and Deuterium in the Ordered State. Physical Review Letters, 1968, 21, 291-294.	7.8	38