

Jarno Järvinen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Nuclear-Polarized Phases of H Atoms Embedded in Solid Molecular Hydrogen Films. Journal of Low Temperature Physics, 2022, 208, 67-86.	1.4	2
2	A large octupole magnetic trap for research with atomic hydrogen. Review of Scientific Instruments, 2022, 93, 023201.	1.3	3
3	Purely spatial diffusion of H atoms in solid normal- and para-hydrogen films. Physical Review B, 2022, 105, .	3.2	4
4	Development of an ESR/NMR Double-Magnetic-Resonance System for Use at Ultra-low Temperatures and in High Magnetic Fields and Its Use for Measurements of a Si Wafer Lightly Doped with 31P. Applied Magnetic Resonance, 2021, 52, 305-315.	1.2	1
5	Millimeter-Wave Band Resonator with Surface Coil for DNP-NMR Measurements. Applied Magnetic Resonance, 2021, 52, 317-335.	1.2	2
6	Purely Spatial Quantum Diffusion of H Atoms in Solid H_2 at Temperatures below 1 ÅK. Physical Review Letters, 2021, 126, 195301.	7.8	4
7	Studies of nuclear polarization of hydrogen atoms embedded in solid molecular hydrogen and hydrogen deuteride films. Low Temperature Physics, 2020, 46, 139-144.	0.6	1
8	Experimental cell with a Fabry-Pérot resonator tuned <i>in situ</i> for magnetic resonance studies of matrix-isolated radicals at temperatures below 1 K. Review of Scientific Instruments, 2020, 91, 063901.	1.3	4
9	Dynamic nuclear polarization and ESR hole burning in As doped silicon. Physical Chemistry Chemical Physics, 2020, 22, 10227-10237.	2.8	2
10	Electrons Trapped in Solid Neon-Hydrogen Mixtures Below 1 K. Journal of Low Temperature Physics, 2019, 195, 365-377.	1.4	3
11	Gravitational and matter-wave spectroscopy of atomic hydrogen at ultra-low energies. Hyperfine Interactions, 2019, 240, 1.	0.5	4
12	Formation of Nuclear-Polarized Phases of H Atoms Embedded in Solid H_2 Films. Physical Review Letters, 2019, 122, 225301.	7.8	5
13	Deposition of YBCO Thin Films in View of Microwave Applications. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	7
14	ESR study of atomic hydrogen and tritium in solid T_2 and $T_2:H_2$ matrices below 1 K. Physical Chemistry Chemical Physics, 2017, 19, 2834-2842.	2.8	9
15	Dynamic Polarization and Relaxation of 75As Nuclei in Silicon at High Magnetic Field and Low Temperature. Applied Magnetic Resonance, 2017, 48, 473-483.	1.2	3
16	Dynamic Nuclear Polarization and Relaxation of H and D Atoms in Solid Mixtures of Hydrogen Isotopes. Journal of Low Temperature Physics, 2017, 187, 43-53.	1.4	2
17	Electron Spin Resonance Study of Electrons Trapped in Solid Molecular Hydrogen Films. Journal of Low Temperature Physics, 2016, 183, 120-126.	1.4	3
18	Tunneling chemical exchange reaction $D + HD \rightleftharpoons D_2 + H$ in solid HD and D2 at temperatures below 1 K. Physical Chemistry Chemical Physics, 2016, 18, 29600-29606.	2.8	6

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19	Microscopic control of $\langle S_i \rangle$ nuclear spins near phosphorus donors in silicon. Physical Review B, 2015, 92, .	3.2	4
20	Bose-Einstein Condensation of Magnons in Atomic Hydrogen Gas. Physical Review Letters, 2015, 114, 125304.	7.8	18
21	Dynamic Nuclear Polarization of High-Density Atomic Hydrogen in Solid Mixtures of Molecular Hydrogen Isotopes. Physical Review Letters, 2014, 113, 265303.	7.8	9
22	Experimental cell for molecular beam deposition and magnetic resonance studies of matrix isolated radicals at temperatures below 1 K. Review of Scientific Instruments, 2014, 85, 053902.	1.3	21
23	Efficient dynamic nuclear polarization of phosphorus in silicon in strong magnetic fields and at low temperatures. Physical Review B, 2014, 90, .	3.2	17
24	Atomic Hydrogen in Thick H ₂ Films at Temperatures 0.05–2 K. Journal of Low Temperature Physics, 2011, 162, 96-104.	1.4	10
25	Stabilization of H and D atoms in Aggregates of Kr Nanoclusters Immersed in Superfluid Helium. Journal of Low Temperature Physics, 2010, 158, 468-477.	1.4	7
26	Magnetic resonance study of H atoms in thin films of H_2 temperatures below 1 K. Physical Review B, 2010, 81, .	3.2	26
27	Stabilization of hydrogen atoms in aggregates of krypton nanoclusters immersed in superfluid helium. Physical Review B, 2009, 79, .	3.2	16
28	Stabilization of high-density atomic hydrogen in H_2 at $T < 0.5 \text{ K}$ Physical Review B, 2009, 79, .	3.2	19
29	Magnetic Resonance Studies of Cold Atomic Hydrogen Gas. Journal of Low Temperature Physics, 2008, 150, 577-586.	1.4	4
30	SQUID Measurements of the Susceptibilities of Impurity-Helium Condensates. Journal of Low Temperature Physics, 2008, 152, 6-20.	1.4	2
31	Clock Shift in High Field Magnetic Resonance of Atomic Hydrogen. Physical Review Letters, 2008, 101, 263003.	7.8	16
32	Thermal Compression of Atomic Hydrogen on Helium Surface. Journal of Low Temperature Physics, 2007, 147, 579-600.	1.4	8
33	Experimental Observation of Atomic Hydrogen Stabilized in Thin Films of Molecular H ₂ at Temperatures ~100 mK. AIP Conference Proceedings, 2006, , .	0.4	1
34	Exotic Behavior of Hydrogen Atoms in Solid H ₂ at Temperatures below 1 K. Physical Review Letters, 2006, 97, 095301.	7.8	28
35	Three-body recombination in two-dimensional atomic hydrogen gas. Physical Review A, 2005, 72, .	2.5	16
36	Thermal compression of two-dimensional atomic hydrogen gas. Physical Review A, 2004, 69, .	2.5	14

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37	Cryogenic 2â€¸mm wave electron spin resonance spectrometer with application to atomic hydrogen gas below 100â€¸mK. Review of Scientific Instruments, 2004, 75, 94-98.	1.3	45
38	Electron-Spin-Resonance Instability in Two-Dimensional Atomic Hydrogen Gas. Physical Review Letters, 2002, 89, 153002.	7.8	20
39	Laser deposition from a nanostructured YBaCuO target: Analysis of the plume and growth kinetics of particles on SrTiO3. Journal of Applied Physics, 2001, 90, 1521-1528.	2.5	37