Jarno JÃ¤rvinen

List of Publications by Year in descending order

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39	403	687363	794594
papers	citations	13 h-index	19 g-index

39	39	39	195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Exotic Behavior of Hydrogen Atoms in SolidH2at Temperatures below 1ÂK. Physical Review Letters, 2006, 97, 095301.	7.8	28
4	Magnetic resonance study of H atoms in thin films of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math temperatures below 1 K. Physical Review B, 2010, 81, .	3.2	26
5	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
6	Electron-Spin-Resonance Instability in Two-Dimensional Atomic Hydrogen Gas. Physical Review Letters, 2002, 89, 153002.	7.8	20
7	Stabilization of high-density atomic hydrogen in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:ma at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>T</mml:mi><mml:mo><</mml:mo><mml:mn>0.5</mml:mn><mml:mtext>â€‚</mml:mtext> Physical Review B, 2009, 79, .	3.2	19
8	Bose-Einstein Condensation of Magnons in Atomic Hydrogen Gas. Physical Review Letters, 2015, 114, 125304.	7.8	18
9	Efficient dynamic nuclear polarization of phosphorus in silicon in strong magnetic fields and at low temperatures. Physical Review B, 2014, 90, .	3.2	17
10	Three-body recombination in two-dimensional atomic hydrogen gas. Physical Review A, 2005, 72, .	2.5	16
11	Clock Shift in High Field Magnetic Resonance of Atomic Hydrogen. Physical Review Letters, 2008, 101, 263003.	7.8	16
12	Stabilization of hydrogen atoms in aggregates of krypton nanoclusters immersed in superfluid helium. Physical Review B, 2009, 79, .	3.2	16
13	Thermal compression of two-dimensional atomic hydrogen gas. Physical Review A, 2004, 69, .	2.5	14
14	Atomic Hydrogen in Thick H2 Films at Temperatures 0.05â€“2ÂK. Journal of Low Temperature Physics, 2011, 162, 96-104.	1.4	10
15	Dynamic Nuclear Polarization of High-Density Atomic Hydrogen in Solid Mixtures of Molecular Hydrogen Isotopes. Physical Review Letters, 2014, 113, 265303.	7.8	9
16	ESR study of atomic hydrogen and tritium in solid T₂and T₂:H₂matrices below 1 K. Physical Chemistry Chemical Physics, 2017, 19, 2834-2842.	2.8	9
17	Thermal Compression of Atomic Hydrogen on Helium Surface. Journal of Low Temperature Physics, 2007, 147, 579-600.	1.4	8
18	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

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19	Deposition of YBCO Thin Films in View of Microwave Applications. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	7
20	Tunneling chemical exchange reaction D + HD â†' D2 + H in solid HD and D2 at temperatures below 1 K. Physical Chemistry Chemical Physics, 2016, 18, 29600-29606.	2.8	6
21	Formation of Nuclear-Polarized Phases of H Atoms Embedded in Solid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml Films. Physical Review Letters, 2019, 122, 225301.	7.8	5
22	Magnetic Resonance Studies of Cold Atomic Hydrogen Gas. Journal of Low Temperature Physics, 2008, 150, 577-586.	1.4	4
23	Microscopic control of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Si</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>29</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>nuclear spins near phosphorus donors in silicon. Physical Review B, 2015, 92, .	3.2	4
24	Gravitational and matter-wave spectroscopy of atomic hydrogen at ultra-low energies. Hyperfine Interactions, 2019, 240, 1.	0.5	4
25	Experimental cell with a Fabryâ€“PÃ©rot resonator tuned in situ for magnetic resonance studies of matrix-isolated radicals at temperatures below 1 K. Review of Scientific Instruments, 2020, 91, 063901.	1.3	4
26	Purely Spatial Quantum Diffusion of H Atoms in Solid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: at Temperatures below 1ÂK. Physical Review Letters, 2021, 126, 195301.	7.8	4
27	Purely spatial diffusion of H atoms in solid normal- and para-hydrogen films. Physical Review B, 2022, 105, .	3.2	4
28	Electron Spin Resonance Study of Electrons Trapped in Solid Molecular Hydrogen Films. Journal of Low Temperature Physics, 2016, 183, 120-126.	1.4	3
29	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
30	Electrons Trapped in Solid Neonâ€“Hydrogen Mixtures Below $$1, hbox {K}$$. Journal of Low Temperature Physics, 2019, 195, 365-377.	1.4	3
31	A large octupole magnetic trap for research with atomic hydrogen. Review of Scientific Instruments, 2022, 93, 023201.	1.3	3
32	SQUID Measurements of the Susceptibilities ofÂImpurity-Helium Condensates. Journal of Low Temperature Physics, 2008, 152, 6-20.	1.4	2
33	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
34	Dynamic nuclear polarization and ESR hole burning in As doped silicon. Physical Chemistry Chemical Physics, 2020, 22, 10227-10237.	2.8	2
35	Millimeter-Wave Band Resonator with Surface Coil for DNPâ€“NMR Measurements. Applied Magnetic Resonance, 2021, 52, 317-335.	1.2	2
36	Nuclear-Polarized Phases of H Atoms Embedded in Solid Molecular Hydrogen Films. Journal of Low Temperature Physics, 2022, 208, 67-86.	1.4	2

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37	Experimental Observation of Atomic Hydrogen Stabilized in Thin Films of Molecular H2 at Temperatures â‰¥100 mK. AIP Conference Proceedings, 2006, , .	0.4	1
38	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
39	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