List of Publications by Year in descending order

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MILVA CELLI

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Irreversible structural changes of recovered hydrogen hydrate transforming from C0 phase to ice XVII. Chemical Physics, 2021, 544, 111092. | 1.9 | 4 |
| 2 | Density of Phonon States in Cubic Ice Ic. Journal of Physical Chemistry C, 2021, 125, 23533-23538. | 3.1 | 4 |
| 3 | Collective dynamics of liquid deuterium: Neutron scattering and approximate quantum simulation methods. Physical Review B, 2021, 104, . | 3.2 | 8 |
| 4 | Raman Investigation of the Ice Ic–Ice Ih Transformation. Journal of Physical Chemistry C, 2020, 124, 17135-17140. | 3.1 | 11 |
| 5 | Cubic ice Ic without stacking defects obtained from ice XVII. Nature Materials, 2020, 19, 663-668. | 27.5 | 64 |
| 6 | Hydrogen self-dynamics in diluted liquid mixtures with neon: An inelastic neutron scattering study. Physical Review E, 2019, 99, 012138. | 2.1 | 2 |
| 7 | Ne- and O ₂ -filled ice XVII: a neutron diffraction study. Physical Chemistry Chemical Physics, 2019, 21, 14671-14677. | 2.8 | 12 |
| 8 | Vibrational Modes of Hydrogen Hydrates: A First-Principles Molecular Dynamics and Raman Spectra Study. Journal of Physical Chemistry C, 2017, 121, 3690-3696. | 3.1 | 29 |
| 9 | Ice XVII as a Novel Material for Hydrogen Storage. Challenges, 2017, 8, 3. | 1.7 | 13 |
| 10 | Dynamics of hydrogen guests in ice XVII nanopores. Physical Review Materials, 2017, 1, . | 2.4 | 9 |
| 11 | Velocity autocorrelation by quantum simulations for direct parameter-free computations of the neutron cross sections. II. Liquid deuterium. Physical Review B, 2016, 93, . | 3.2 | 9 |
| 12 | New porous water ice metastable at atmospheric pressure obtained by emptying a hydrogen-filled ice. Nature Communications, 2016, 7, 13394. | 12.8 | 106 |
| 13 | Refined Structure of Metastable Ice XVII from Neutron Diffraction Measurements. Journal of Physical Chemistry C, 2016, 120, 26955-26959. | 3.1 | 43 |
| 14 | Velocity autocorrelation in liquid parahydrogen by quantum simulations for direct parameter-free computations of neutron cross sections. Physical Review B, 2015, 92, . | 3.2 | 11 |
| 15 | Hydrogen self-dynamics in liquidH2â^'D2mixtures studied through inelastic neutron scattering. Physical Review E, 2015, 92, 012311. | 2.1 | 10 |
| 16 | VSI@ESS: Case study for a vibrational spectroscopy instrument at the european spallation source. EPJ Web of Conferences, 2015, 83, 03021. | 0.3 | 1 |
| 17 | Raman Measurements of Pure Hydrogen Clathrate Formation from a Supercooled Hydrogen–Water Solution. Journal of Physical Chemistry Letters, 2015, 6, 4309-4313. | 4.6 | 19 |
| 18 | On the non-Gaussian corrections in the self dynamics of semi-quantum fluids. Chemical Physics, 2015, 446, 57-64. | 1.9 | 6 |

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|----|--|-----|-----------|
| 19 | The HD molecule in small and medium cages of clathrate hydrates: Quantum dynamics studied by neutron scattering measurements and computation. Journal of Chemical Physics, 2014, 141, 134501. | 3.0 | 16 |
| 20 | Spectroscopic and thermodynamic properties of molecular hydrogen dissolved in water at pressures up to 200 MPa. Journal of Chemical Physics, 2014, 140, 164312. | 3.0 | 11 |
| 21 | Neutron Scattering Measurements and Computation of the Quantum Dynamics of Hydrogen Molecules Trapped in the Small and Large Cages of Clathrate Hydrates. Journal of Physical Chemistry A, 2013, 117, 7314-7326. | 2.5 | 33 |
| 22 | Rigorous quantum treatment of inelastic neutron scattering spectra of a heteronuclear diatomic molecule in a nanocavity: HD in the small cage of structure II clathrate hydrate. Chemical Physics Letters, 2013, 563, 1-8. | 2.6 | 32 |
| 23 | Inelastic neutron scattering from solid molecular hydrogen at various densities. Chemical Physics, 2013, 427, 101-105. | 1.9 | 2 |
| 24 | Experimental inelastic neutron scattering spectrum of hydrogen hexagonal clathrate-hydrate compared with rigorous quantum simulations. Journal of Chemical Physics, 2013, 139, 164507. | 3.0 | 20 |
| 25 | Neutron study of non-Gaussian self dynamics in liquid parahydrogen. Journal of Physics: Conference Series, 2012, 340, 012076. | 0.4 | 1 |
| 26 | High pressure optical cell for synthesis and <i>in situ</i> Raman spectroscopy of hydrogen clathrate hydrates. Review of Scientific Instruments, 2012, 83, 113101. | 1.3 | 11 |
| 27 | High pressure synthesis and <i>in situ</i> Raman spectroscopy of H2 and HD clathrate hydrates. Journal of Chemical Physics, 2012, 137, 164320. | 3.0 | 16 |
| 28 | Phonon density of states in different clathrate hydrates measured by inelastic neutron scattering. Journal of Physics: Conference Series, 2012, 340, 012051. | 0.4 | 16 |
| 29 | Experimental and theoretical analysis of the rotational Raman spectrum of hydrogen molecules in clathrate hydrates. Journal of Chemical Physics, 2011, 135, 054506. | 3.0 | 18 |
| 30 | Quantum calculation of inelastic neutron scattering spectra of a hydrogen molecule inside a nanoscale cavity based on rigorous treatment of the coupled translation-rotation dynamics. Physical Review B, 2011, 83, . | 3.2 | 52 |
| 31 | Non-Gaussian self-dynamics of liquid hydrogen. Physical Review B, 2011, 84, . | 3.2 | 10 |
| 32 | Quantum confinement of hydrogen in ice based clathrates. Journal of Physics: Conference Series, 2009, 177, 012013. | 0.4 | 2 |
| 33 | Inelastic neutron scattering from hydrogen clathrate hydrates. Journal of Physics Condensed Matter, 2008, 20, 104242. | 1.8 | 32 |
| 34 | An apparatus for simultaneous thermodynamic and optical measurements, with large temperature excursions. Review of Scientific Instruments, 2008, 79, 013105. | 1.3 | 12 |
| 35 | Neutron diffractometer INES for quantitative phase analysis of archaeological objects. Measurement Science and Technology, 2008, 19, 034003. | 2.6 | 60 |
| 36 | Low temperature Raman spectra of hydrogen in simple and binary clathrate hydrates. Journal of Chemical Physics, 2008, 129, 084705. | 3.0 | 57 |

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|----|--|------|-----------|
| 37 | Inelastic neutron scattering and raman light scattering from hydrogen-filled clathrates hydrates. Journal of Physics: Conference Series, 2008, 121, 042018. | 0.4 | 1 |
| 38 | Lattice vibrations of para-hydrogen impurities in a solid deuterium matrix: An inelastic neutron scattering study. Physical Review B, 2007, 76, . | 3.2 | 7 |
| 39 | Quantum rattling of molecular hydrogen in clathrate hydrate nanocavities. Physical Review B, 2007, 76, . | 3.2 | 82 |
| 40 | Hydrogen and Hydrogen-Storage Materials. Neutron Scattering Applications and Techniques, 2007, , 417-437. | 0.2 | 0 |
| 41 | Structure and purity of single walled carbon nanotube samples. Carbon, 2007, 45, 943-951. | 10.3 | 4 |
| 42 | A new ceramic material for shielding pulsed neutron scattering instruments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 565, 861-863. | 1.6 | 56 |
| 43 | Microscopic self dynamics in liquid hydrogen and in its mixtures with deuterium and neon: a neutron scattering study. Journal of Low Temperature Physics, 2005, 138, 887-892. | 1.4 | 2 |
| 44 | Microscopic structure factor of liquid hydrogen by neutron-diffraction measurements. Physical Review B, 2005, 71, . | 3.2 | 22 |
| 45 | Density of phonon states in solid parahydrogen from inelastic neutron scattering. Journal of Chemical Physics, 2004, 120, 5657-5663. | 3.0 | 21 |
| 46 | Microscopic self-dynamics in liquid hydrogen and in its mixtures with deuterium. Physical Review E, 2004, 70, 061202. | 2.1 | 18 |
| 47 | The static structure factor of hydrogen in the liquid state. Physica B: Condensed Matter, 2004, 350, E1067-E1069. | 2.7 | 0 |
| 48 | Long-range pair potential from the low-density S(k) of 4He around 6K. Physica B: Condensed Matter, 2004, 350, E1059-E1061. | 2.7 | 3 |
| 49 | The total neutron cross-section of an ortho–para mixture of gaseous hydrogen at 75K. Physica B: Condensed Matter, 2004, 350, E1063-E1065. | 2.7 | 1 |
| 50 | SWCN characterization by neutron diffraction. Physica B: Condensed Matter, 2004, 350, E1027-E1029. | 2.7 | 10 |
| 51 | Breakdown of the Gaussian approximation in semi-quantum liquids. Physica B: Condensed Matter, 2004, 350, E1083-E1086. | 2.7 | 2 |
| 52 | The microscopic structure of the hydrogen liquids. Journal of Physics Condensed Matter, 2003, 15, S107-S112. | 1.8 | 4 |
| 53 | Microscopic structure factor of liquid para-hydrogen. Physical Review B, 2002, 65, . | 3.2 | 31 |
| 54 | Direct experimental access to microscopic dynamics in liquid hydrogen. Physical Review E, 2002, 66, 021202. | 2.1 | 35 |

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|----|--|-----|-----------|
| 55 | TOSCA neutron spectrometer: The final configuration. Applied Physics A: Materials Science and Processing, 2002, 74, s64-s66. | 2.3 | 180 |
| 56 | Neutron diffraction study of quantum effects on the pair correlation function of low-density 4 He. Applied Physics A: Materials Science and Processing, 2002, 74, s418-s420. | 2.3 | 1 |
| 57 | Quantitative multiphase analysis of archaeological bronzes by neutron diffraction. Applied Physics A: Materials Science and Processing, 2002, 74, s1139-s1142. | 2.3 | 40 |
| 58 | The microscopic dynamics of condensed parahydrogen. Applied Physics A: Materials Science and Processing, 2002, 74, s430-s432. | 2.3 | 0 |
| 59 | The Microscopic Structure of Hydrogens in the Liquid Phase. Journal of Low Temperature Physics, 2002, 126, 579-584. | 1.4 | 0 |
| 60 | The Microscopic Dynamics of Liquid and Solid Parahydrogen. Journal of Low Temperature Physics, 2002, 126, 585-590. | 1.4 | 6 |
| 61 | Density dependence of mean kinetic energy in liquid and solid hydrogen at 19.3 K. European Physical Journal B, 2001, 23, 171-178. | 1.5 | 23 |
| 62 | Microscopic dynamics of liquid hydrogen. Europhysics Letters, 2001, 53, 34-39. | 2.0 | 11 |
| 63 | The measurement of the translational kinetic energy of liquid hydrogen using TOSCA. Physica B: Condensed Matter, 2000, 276-278, 814-815. | 2.7 | 0 |
| 64 | An inverse geometry neutron scattering spectrometer with graphite Venetian blind crystal analyser and a para-hydrogen filter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 441, 494-503. | 1.6 | 2 |
| 65 | Experimental determination of the translational kinetic energy of liquid and solid hydrogen. European Physical Journal B, 2000, 14, 239-244. | 1.5 | 25 |
| 66 | Deep inelastic neutron scattering on liquid hydrogen in the crossover region between the molecular and atomic regimes. Physical Review B, 1998, 58, 791-797. | 3.2 | 19 |
| 67 | Kinetic energy of4Healong theT=6.1K isotherm. Physical Review B, 1998, 58, 242-247. | 3.2 | 25 |
| 68 | Quantum Mechanical Effects on the Static Structure Factor of Pairs of Orthodeuterium Molecules. Physical Review Letters, 1998, 81, 5828-5831. | 7.8 | 6 |
| 69 | Neutron diffraction determination of the thermodynamic derivatives of the microscopic structure of liquid parahydrogen. Physical Review B, 1998, 58, 11905-11910. | 3.2 | 21 |
| 70 | Deep inelastic neutron scattering in condensed hydrogen. Physica B: Condensed Matter, 1996, 226, 304-312. | 2.7 | 9 |
| 71 | Theory of the density expansion of the dynamic structure factor: The pair contribution. Physical Review A, 1992, 46, 7561-7572. | 2.5 | 3 |
| 72 | Theory of virial expansion of correlation functions and spectra: Application to interaction-induced spectroscopy. Physical Review A, 1989, 40, 1116-1126. | 2.5 | 25 |

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|----|--|-----|-----------|
| 73 | Interaction-induced translational Raman scattering in dense krypton gas: Evidence of irreducible many-body effects. Physical Review A, 1988, 38, 3984-3991. | 2.5 | 15 |
| 74 | Simple and Binary Hydrogen Clathrate Hydrates: Synthesis and Microscopic Characterization through Neutron and Raman Scattering. Advances in Science and Technology, 0, , . | 0.2 | 3 |