Jordi Boronat

List of Publications by Year in descending order

191 papers	4,892 citations	117625 34 h-index	118850 62 g-index
192 all docs	192 docs citations	192 times ranked	2053 citing authors

#	Article	IF	Citations
1	Equation of State of a Fermi Gas in the BEC-BCS Crossover: A Quantum Monte Carlo Study. Physical Review Letters, 2004, 93, 200404.	7.8	448
2	Effective mass of oneHe4atom in liquidHe3. Physical Review B, 1994, 50, 4248-4251.	3.2	290
3	Quantum Phase Transition in a Two-Dimensional System of Dipoles. Physical Review Letters, 2007, 98, 060405.	7.8	202
4	Monte Carlo analysis of an interatomic potential for He. Physical Review B, 1994, 49, 8920-8930.	3.2	199
5	Beyond the Tonks-Girardeau Gas: Strongly Correlated Regime in Quasi-One-Dimensional Bose Gases. Physical Review Letters, 2005, 95, 190407.	7.8	160
6	Unbiased estimators in quantum Monte Carlo methods: Application to liquidHe4. Physical Review B, 1995, 52, 3654-3661.	3.2	137
7	Ground state of a homogeneous Bose gas: A diffusion Monte Carlo calculation. Physical Review A, 1999, 60, 5129-5132.	2.5	123
8	Progress in Monte Carlo Calculations of Fermi Systems: Normal LiquidH3e. Physical Review Letters, 2000, 84, 3121-3124.	7.8	101
9	Momentum Distribution and Condensate Fraction of a Fermion Gas in the BCS-BEC Crossover. Physical Review Letters, 2005, 95, 230405.	7.8	97
10	Simulation and understanding of atomic and molecular quantum crystals. Reviews of Modern Physics, 2017, 89, .	45.6	94
11	Dilute dipolar quantum droplets beyond the extended Gross-Pitaevskii equation. Physical Review Research, 2019, 1, .	3.6	81
12	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math>on a Single Graphene Sheet. Physical Review Letters, 2009, 102, 085303.	7.8	77
13	Superfluidity versus Bose-Einstein condensation in a Bose gas with disorder. Physical Review A, 2002, 66, .	2.5	76
14	High order Chin actions in path integral Monte Carlo. Journal of Chemical Physics, 2009, 130, 204109.	3.0	76
15	Droplets of Trapped Quantum Dipolar Bosons. Physical Review Letters, 2016, 117, 205301.	7.8	66
16	Quasi-one-dimensional4Heinside carbon nanotubes. Physical Review B, 2000, 61, R878-R881.	3.2	65
17	Zero-Temperature Equation of State of Quasi-One-DimensionalH2. Physical Review Letters, 2000, 85, 2348-2351.	7.8	63
18	Structure Properties of the 3He-4He mixture at T = 0 K. Journal of Low Temperature Physics, 1993, 91, 275-297.	1.4	60

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19	Excitations and Stripe Phase Formation in a Two-Dimensional Dipolar Bose Gas with Tilted Polarization. Physical Review Letters, 2012, 109, 235307.	7.8	59
20	Ultradilute quantum liquid drops. Physical Review B, 2018, 97, .	3.2	54
21	Universality in ultradilute liquid Bose-Bose mixtures. Physical Review A, 2019, 99, .	2.5	52
22	Binding energy of one4He impurity in liquid3He. Journal of Low Temperature Physics, 1994, 94, 325-349.	1.4	51
23	Monte Carlo calculations for liquidHe4at negative pressure. Physical Review B, 1994, 50, 3427-3430.	3.2	48
24	Higher order and infinite Trotter-number extrapolations in path integral Monte Carlo. Journal of Chemical Physics, 2004, 121, 636-643.	3.0	47
25	Distinguishability, degeneracy, and correlations in three harmonically trapped bosons in one dimension. Physical Review A, 2014, 90, .	2.5	47
26	One-dimensional three-boson problem with two- and three-body interactions. Physical Review A, 2018, 97, .	2.5	46
27	Dipolar Bose Supersolid Stripes. Physical Review Letters, 2017, 119, 250402.	7.8	44
28	Boseâ€“Einstein quantum statistics and the ground state of solid⁴He. New Journal of Physics, 2009, 11, 013047.	2.9	43
29	Quantum Monte Carlo simulation of a two-dimensional Bose gas. Physical Review A, 2005, 71, .	2.5	42
30	Quantum correlations and spatial localization in one-dimensional ultracold bosonic mixtures. New Journal of Physics, 2014, 16, 103004.	2.9	41
31	Supersolidity in quantum films adsorbed on graphene and graphite. Physical Review B, 2011, 83, .	3.2	38
32	Sharp crossover from composite fermionization to phase separation in microscopic mixtures of ultracold bosons. Physical Review A, 2013, 88, .	2.5	37
33	Diffusion Monte Carlo study of two-dimensional liquidHe4. Physical Review B, 1996, 54, 6099-6102.	3.2	35
34	Quantum Monte Carlo Simulation of Overpressurized LiquidHe4. Physical Review Letters, 2005, 95, 145302.	7.8	34
35	Ground state of low-dimensional dipolar gases: Linear and zigzag chains. Physical Review A, 2008, 78, .	2.5	34
36	Zero-temperature equation of state of solid⁴He at low and high pressures. Journal of Physics Condensed Matter, 2008, 20, 015223.	1.8	34

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37	Equation of state of a weakly interacting two-dimensional Bose gas studied at zero temperature by means of quantum Monte Carlo methods. Physical Review A, 2009, 79, .	2.5	34
38	Single-particle versus pair superfluidity in a bilayer system of dipolar bosons. Physical Review A, 2014, 90, .	2.5	34
39	Dynamics of a Two-Dimensional System of Quantum Dipoles. Physical Review Letters, 2009, 102, 110405.	7.8	32
40	Bounds for the phonon-roton dispersion in superfluidHe4. Physical Review B, 1995, 52, 1236-1241.	3.2	29
41	Isotopic effects of hydrogen adsorption in carbon nanotubes. Physical Review B, 2001, 65, .	3.2	29
42	Strong correlation effects in 2D Boseâ€“Einstein condensed dipolar excitons. Solid State Communications, 2007, 144, 399-404.	1.9	27
43	Microscopic calculation of the phonon-roton branch in superfluid 4 He. Europhysics Letters, 1997, 38, 291-296.	2.0	26
44	Finite-range effects in ultradilute quantum drops. New Journal of Physics, 2020, 22, 053045.	2.9	26
45	Quadratic diffusion Monte Carlo and pure estimators for atoms. Journal of Chemical Physics, 2002, 116, 5956-5962.	3.0	25
46	Phase diagram 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 on graphene. Physical Review B, 2010, 81, .	3.2	25
47	High-order time expansion path integral ground state. Physical Review E, 2010, 81, 016707.	2.1	25
48	Layering Transition in Superfluid Helium Adsorbed on a Carbon Nanotube Mechanical Resonator. Physical Review Letters, 2019, 122, 165301.	7.8	25
49	Low-dimensional weakly interacting Bose gases: Nonuniversal equations of state. Physical Review A, 2010, 81, .	2.5	24
50	Superfluidity of metastable glassy bulkpara-hydrogen at low temperature. Physical Review B, 2012, 85, .	3.2	24
51	Dynamic structure factor of liquid<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math>across the normal-superfluid transition. Physical Review B, 2016, 93, .	3.2	24
52	Final-state effects on superfluidHe4in the deep inelastic regime. Physical Review B, 1996, 53, 5661-5669.	3.2	23
53	Quantum hydrogen vibrational dynamics in LiH: Neutron-scattering measurements and variational Monte Carlo simulations. Physical Review B, 2004, 69, .	3.2	23
54	Equation of state of an interacting Bose gas at finite temperature: A path-integral Monte Carlo study. Physical Review A, 2006, 74, .	2.5	23

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55	Bose-Einstein condensation in liquid<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>4</mml:mn></mml:msup></mml:math>He near the liquid-solid transition line. Physical Review B, 2012, 85, .	3.2	23
56	Zero-Temperature Equation of State of Two-DimensionalH3e. Physical Review Letters, 2002, 89, 045301.	7.8	22
57	Zero-temperature phase diagram of the second layer of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>4</mml:mn></mml:msup></mml:math>He adsorbed on graphene. Physical Review B, 2012, 85, .	3.2	22
58	Phase diagram of dipolar bosons in two dimensions with tilted polarization. Physical Review A, 2014, 90, .	2.5	22
59	Vortex Excitation in Superfluid4He: A Diffusion Monte Carlo Study. Physical Review Letters, 1996, 77, 2754-2757.	7.8	21
60	A Quantum Monte Carlo Study of 4He in Carbon Nanotube Bundles. Journal of Low Temperature Physics, 2002, 126, 199-204.	1.4	21
61	H2in the interstitial channels of nanotube bundles. Physical Review B, 2003, 68, .	3.2	21
62	Ground-state energy and stability limit ofHe3droplets. Physical Review B, 2006, 73, .	3.2	21
63	Atomic Monolayer Deposition on the Surface of Nanotube Mechanical Resonators. Physical Review Letters, 2014, 112, 196103.	7.8	21
64	Quantum Monte Carlo study of static properties of one3Heatom in superfluid4He. Physical Review B, 1999, 59, 8844-8851.	3.2	20
65	Ground-State Properties of a One-Dimensional System of Hard Rods. Physical Review Letters, 2008, 100, 020401.	7.8	20
66	Quasiequilibrium supersolid phase of a two-dimensional dipolar crystal. Physical Review B, 2010, 82, .	3.2	20
67	Ewald method for polytropic potentials in arbitrary dimensionality. Molecular Physics, 2012, 110, 227-247.	1.7	20
68	Weakly interacting two-dimensional system of dipoles: Limitations of the mean-field theory. Physical Review A, 2007, 75, .	2.5	19
69	Elusive structure of helium trimers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 185101.	1.5	19
70	Ferromagnetic transition of a two-component Fermi gas of hard spheres. Physical Review A, 2012, 85, .	2.5	18
71	Universality in Molecular Halo Clusters. Physical Review Letters, 2014, 113, 253401.	7.8	18
72	First-principles modeling of quantum nuclear effects and atomic interactions in solid<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">He</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>at high pressure. Physical Review B, 2015, 91, .	3.2	18

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73	Thermal and quantum fluctuations in chains of ultracold polar molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 154026.	1.5	17
74	Solidification of Small p-H₂ Clusters at Zero Temperature. Journal of Physical Chemistry A, 2011, 115, 7071-7076.	2.5	17
75	Microscopic description of anisotropic low-density dipolar Bose gases in two dimensions. Physical Review A, 2011, 84, .	2.5	17
76	Luttinger-liquid behavior of one-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">He</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review B, 2014, 90, .	3.2	17
77	Observation of dynamic atom-atom correlation in liquid helium in real space. Nature Communications, 2017, 8, 15294.	12.8	17
78	Elastic constants of solid<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>4</mml:mn></mml:msup></mml:math>He under pressure: Diffusion Monte Carlo study. Physical Review B, 2012, 85, .	3.2	16
79	Variational calculation of the binding energy of one3He impurity in liquid4He. Journal of Low Temperature Physics, 1989, 74, 347-364.	1.4	15
80	Dynamic structure function inâ^'43He mixtures. Physical Review B, 1993, 48, 7409-7418.	3.2	15
81	Free surface of superfluidHe4at zero temperature. Physical Review B, 2005, 71, .	3.2	15
82	Atomic kinetic energy, momentum distribution, and structure of solid neon at zero temperature. Physical Review B, 2008, 77, .	3.2	15
83	Properties of vacancy formation in hcp<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mtext>H</mml:mtext><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts><mml:mtext>e</mml:mtext></mml:mrow></mml:math>crystals	3.2	15
84	Liquid and Solid Phases of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>on Graphite. Physical Review Letters, 2016, 116, 145301.	7.8	15
85	Quantum Monte Carlo simulation of spin-polarized H. Physical Review B, 2007, 75, .	3.2	14
86	Path Integral Monte Carlo Calculation of Momentum Distribution in Solid 4He. Journal of Low Temperature Physics, 2011, 162, 146-153.	1.4	14
87	Ground state of small mixed helium and spin-polarized tritium clusters: A quantum Monte Carlo study. Journal of Chemical Physics, 2011, 134, 054509.	3.0	14
88	Supersolid striped droplets in a Raman spin-orbit-coupled system. Physical Review A, 2020, 102, .	2.5	14
89	Static Structure Factor and Static Response Function ofÂSuperfluid Helium 4: a Comparative Analysis. Journal of Low Temperature Physics, 2008, 152, 108-121.	1.4	13
90	Two-dimensional molecularpara-hydrogen andortho-deuterium at zero temperature. Physical Review B, 2008, 78, .	3.2	13

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91	Harmonically trapped Boseâ€“Bose mixtures: a quantum Monte Carlo study. New Journal of Physics, 2018, 20, 085002.	2.9	13
92	Supersolid stripes enhanced by correlations in a Raman spin-orbit-coupled system. Physical Review A, 2020, 101, .	2.5	13
93	Dynamics of equilibration and collisions in ultradilute quantum droplets. Physical Review Research, 2021, 3, .	3.6	13
94	Quantum Monte Carlo study of small pure and mixed spin-polarized tritium clusters. Journal of Chemical Physics, 2008, 128, 064302.	3.0	12
95	Quantum Monte Carlo simulation of spin-polarized tritium. Physical Review B, 2009, 80, .	3.2	12
96	Phase diagram of Rydberg atoms with repulsive van der Waals interaction. Physical Review A, 2011, 84, .	2.5	12
97	Onset Temperature of Bose-Einstein Condensation in Incommensurate SolidHe4. Physical Review Letters, 2012, 108, 045308.	7.8	12
98	Phase diagram of a quantum Coulomb wire. Physical Review B, 2015, 92, .	3.2	12
99	Berezinskii-Kosterlitz-Thouless transition in two-dimensional dipolar stripes. Physical Review A, 2019, 100, .	2.5	12
100	Superfluid and Supersolid Phases of He4 on the Second Layer of Graphite. Physical Review Letters, 2020, 124, 205301.	7.8	12
101	Quantum Monte Carlo Study of Two-Dimensional H2on a Rb Substrate. Journal of Low Temperature Physics, 2004, 134, 43-48.	1.4	11
102	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math>adsorbed inside (10,10) single-walled carbon nanotubes. Physical Review B, 2007, 76, .	3.2	11
103	Ground-state properties and superfluidity of two- and quasi-two-dimensional solid4He. Journal of Physics Condensed Matter, 2010, 22, 165402.	1.8	11
104	Phase transitions of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>adsorbe on the surface of single carbon nanotubes. Physical Review B, 2011, 84, .	3.2	11
105	First-principles modeling of three-body interactions in highly compressed solid helium. Physical Review B, 2015, 92, .	3.2	11
106	Quantized vortices inHe4droplets: A quantum Monte Carlo study. Physical Review B, 2007, 76, .	3.2	10
107	Phase Diagrams of 4He on Flat and Curved Environments. Journal of Low Temperature Physics, 2013, 171, 606-612.	1.4	10
108	Luttinger parameter of quasi-one-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>para</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 95, .	3.2	10

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109	Towards a quantum Monte Carloâ€“based density functional including finite-range effects: Excitation modes of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">K</mml:mi><mml:mprescripts /><mml:none /><mml:mn>39</mml:mn></mml:mmultiscripts></mml:math> quantum droplet. Physical Review A, 2020, 102, .	2.5	10
110	Few-body bound states of two-dimensional bosons. Physical Review A, 2020, 101, .	2.5	10
111	Quasiparticle Nature of the Bose Polaron at Finite Temperature. Physical Review Letters, 2021, 127, 205301.	7.8	10
112	Thermal Effects on the Microscopic Properties of 4He Drops. Journal of Low Temperature Physics, 2007, 148, 845-849.	1.4	9
113	Off-diagonal ground-state properties of a one-dimensional gas of Fermi hard rods. Physical Review A, 2008, 77, .	2.5	9
114	Quantum Monte Carlo study of large spin-polarized tritium clusters. Journal of Chemical Physics, 2009, 131, 244506.	3.0	9
115	Instability of Vacancy Clusters in Solid 4He. Journal of Low Temperature Physics, 2010, 158, 608-614.	1.4	9
116	Quantum Monte Carlo estimation of complex-time correlations for the study of the ground-state dynamic structure function. Journal of Chemical Physics, 2015, 142, 114114.	3.0	9
117	Diffusion Monte Carlo methods for spin-orbit-coupled ultracold Bose gases. Physical Review A, 2018, 98, .	2.5	9
118	Dilute quantum liquid in a K-Rb Bose mixture. Physical Review A, 2021, 104, .	2.5	9
119	Model-independent bounds for the potential and kinetic energy of liquidHe4at zero temperature. Physical Review B, 1989, 39, 2700-2702.	3.2	8
120	Momentum distributions in3Heâ^’4Heliquid mixtures. Physical Review B, 1997, 56, 11854-11864.	3.2	8
121	Diffusion Monte Carlo for Excited States: Phonons and Rotons in Superfluid 4He. Journal of Low Temperature Physics, 1998, 110, 443-448.	1.4	8
122	Superfluidity versus localization in bulkHe4at zero temperature. Physical Review B, 2006, 73, .	3.2	8
123	Condensate Fraction in Liquid 4He at Zero Temperature. Journal of Low Temperature Physics, 2012, 166, 21-32.	1.4	8
124	Elastic constants of incommensurate solid<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>4</mml:mn></mml:msup></mml:math>He from diffusion Monte Carlo simulations. Physical Review B, 2013, 87, .	3.2	8
125	Spin-polarized hydrogen and its isotopes: A rich class of quantum phases (Review Article). Low Temperature Physics, 2013, 39, 857-873.	0.6	8
126	Possible superfluidity of molecular hydrogen in a two-dimensional crystal phase of sodium. Physical Review B, 2013, 88, .	3.2	8

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127	Ground-state properties of weakly bound helium-alkali trimers. Journal of Chemical Physics, 2017, 146, 014305.	3.0	8
128	Optical lattices as a tool to study defect-induced superfluidity. Physical Review A, 2017, 96, .	2.5	8
129	Isotopic Effects in Solid LiH and LiD at Very Low Temperature. Journal of Low Temperature Physics, 2005, 139, 645-650.	1.4	7
130	Quantum Fluids in Nanotubes: A Quantum Monte Carlo Approach. Journal of Low Temperature Physics, 2009, 157, 296-323.	1.4	7
131	On the Stability of Small Vacancy Clusters in Solid 4He. Journal of Low Temperature Physics, 2011, 162, 455-463.	1.4	7
132	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn mathvariant="bold">4</mml:mn></mml:msup></mml:math>He adsorbed outside a single carbon nanotube. Physical Review B, 2012, 86, .	3.2	7
133	Ground state properties and excitation spectrum of a two dimensional gas of bosonic dipoles. European Physical Journal D, 2012, 66, 1.	1.3	7
134	A Microscopic Description of Vacancies in Solid 4He. Journal of Low Temperature Physics, 2012, 168, 150-161.	1.4	7
135	Gapped spectrum in pair-superfluid bosons. Physical Review A, 2016, 94, .	2.5	7
136	Two-dimensional mixture of dipolar fermions: Equation of state and magnetic phases. Physical Review A, 2019, 99, .	2.5	7
137	Quantum hard spheres as a model for a homogeneous Bose gas. Physica B: Condensed Matter, 2000, 284-288, 1-2.	2.7	6
138	Zero-temperature phase diagram of Yukawa bosons. Physical Review A, 2012, 85, .	2.5	6
139	Second layer of H2and D2adsorbed on graphene. Physical Review B, 2013, 87, .	3.2	6
140	Coherent and incoherent dynamic structure functions of the free Fermi gas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 220, 251-257.	2.1	5
141	High-momentum dynamic structure function of liquid3Heâ^'4Hemixtures: A microscopic approach. Physical Review B, 2001, 63, .	3.2	5
142	Momentum Distribution of Quantum Liquids at Finite Temperature. Journal of Low Temperature Physics, 2002, 126, 1547-1552.	1.4	5
143	Dynamic structure function of a cold Fermi gas at unitarity. Journal of Physics: Conference Series, 2014, 529, 012009.	0.4	5
144	He3on preplated graphite. Physical Review B, 2016, 94, .	3.2	5

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145	One dimensional¹H,²H and³H. New Journal of Physics, 2016, 18, 055013.	2.9	5
146	Quantum Halo States in Helium Tetramers. Journal of Physical Chemistry A, 2017, 121, 308-314.	2.5	5
147	Two-dimensional repulsive Fermi polarons with short- and long-range interactions. Physical Review A, 2019, 100, .	2.5	5
148	Stability limits of mixed spin-polarised tritium clusters. Journal of Physics: Conference Series, 2009, 150, 032010.	0.4	4
149	Stability of resonantly interacting heavy-light Fermi mixtures. Physical Review B, 2012, 86, .	3.2	4
150	Composite Boson Description of a Low-Density Gas of Excitons. Journal of Low Temperature Physics, 2017, 189, 300-311.	1.4	4
151	Universality of size-energy ratio in four-body systems. Scientific Reports, 2019, 9, 6289.	3.3	4
152	Finite-range effects in the two-dimensional repulsive Fermi polaron. Physical Review A, 2021, 103, .	2.5	4
153	Atomic and Molecular Hydrogen Impurities in Liquid 4He. Journal of Low Temperature Physics, 1998, 110, 205-211.	1.4	3
154	Equation of State of Overpressurized Liquid 4He at Zero Temperature. Journal of Low Temperature Physics, 2005, 138, 43-48.	1.4	3
155	Microscopic approach to the bcc phase of solid⁴He. Molecular Physics, 2011, 109, 2963-2968.	1.7	3
156	H2 Physisorbed on Graphane. Journal of Low Temperature Physics, 2013, 171, 619-625.	1.4	3
157	Estimation of the condensate fraction from the static structure factor. Physical Review B, 2021, 103, .	3.2	3
158	Ultradilute Quantum Liquid of Dipolar Atoms in a Bilayer. Physical Review Letters, 2022, 128, 063401.	7.8	3
159	Supersolidity in the second layer of para- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> adsorbed on graphite. Physical Review B, 2022, 105, .	3.2	3
160	Static properties of one3He impurity in superfluid4He. European Physical Journal D, 1996, 46, 271-272.	0.4	2
161	NEW PERSPECTIVES IN THE APPLICATION OF THE DIFFUSION MONTE CARLO METHOD TO THE STUDY OF LIQUID 3He. International Journal of Modern Physics B, 2001, 15, 1591-1600.	2.0	2
162	Correlation Effects in Small 3He Clusters. Journal of Low Temperature Physics, 2005, 138, 247-252.	1.4	2

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163	GROUND-STATE PROPERTIES OF SMALL 3He DROPS FROM QUANTUM MONTE CARLO SIMULATIONS. International Journal of Modern Physics B, 2007, 21, 2124-2133.	2.0	2
164	Influence of the Interaction Potential on the Dâ†"1 Equation of State. Journal of Low Temperature Physics, 2013, 171, 436-442.	1.4	2
165	Zero-temperature phase diagram of D₂ physisorbed on graphane. Journal of Physics Condensed Matter, 2013, 25, 445011.	1.8	2
166	Quantum Monte Carlo study of spin-polarized deuterium. Physical Review B, 2013, 88, .	3.2	2
167	Quantum phase transition with a simple variational ansatz. Physical Review B, 2014, 90, .	3.2	2
168	The Limit of Mechanical Stability in Quantum Crystals: A Diffusion Monte Carlo Study of Solid ^{4} 4 He. Journal of Low Temperature Physics, 2015, 180, 20-28.	1.4	2
169	Structure of Halo and Quasi-halo Heliumâ€"Heliumâ€"Alkali Trimers. Few-Body Systems, 2017, 58, 1.	1.5	2
170	Temperature Dependence of the Vacancy Formation Energy in Solid 4He. Crystals, 2018, 8, 344.	2.2	2
171	Dislocation Structure and Mobility in Hcp Rare-Gas Solids: Quantum versus Classical. Crystals, 2018, 8, 64.	2.2	2
172	Fluid and registered phases in the second layer of He3 on graphite. Physical Review B, 2018, 97, .	3.2	2
173	Reply to â€œComment on â€˜Berezinskii-Kosterlitz-Thouless transition in two-dimensional dipolar stripesâ€™â€‰â€. Physical Review A, 2020, 102, .	2.5	2
174	Trapped Bose-Bose mixtures at finite temperature: A quantum Monte Carlo approach. Physical Review A, 2020, 102, .	2.5	2
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