

D Blume

List of Publications by Year in descending order

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430874

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43
all docs

43
docs citations

43
times ranked

988
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural properties of $^4\text{He-N}_2$ van der Waals complexes. Physical Review A, 2015, 92, .	2.5	25
2	Two emitters coupled to a bath with Kerr-like nonlinearity: Exponential decay, fractional populations, and Rabi oscillations. Physical Review A, 2022, 105, .	2.5	4
3	Mean-field spin-oscillation dynamics beyond the single-mode approximation for a harmonically trapped spin-1 Bose-Einstein condensate. Physical Review A, 2020, 102, .	2.5	9
4	Nonexponential Tunneling due to Mean-Field-Induced Swallowtails. Physical Review Letters, 2020, 125, 213401.	7.8	10
5	Rabi oscillations and Ramsey-type pulses in ultracold bosons: Role of interactions. Physical Review A, 2020, 101, .	2.5	6
6	Observation of resonant scattering between ultracold heteronuclear Feshbach molecules. Physical Review A, 2019, 100, .	2.5	10
7	Spinor Bose-Einstein condensate interferometer within the undepleted pump approximation: Role of the initial state. Physical Review A, 2019, 100, .	2.5	10
8	Density Oscillations Induced by Individual Ultracold Two-Body Collisions. Physical Review Letters, 2019, 122, 083401.	7.8	19
9	Harmonically trapped four-boson system. Physical Review A, 2018, 97, .	2.5	10
10	Hyperspherical lowest-order constrained-variational approximation to resonant Bose-Einstein condensates. Physical Review A, 2018, 97, .	2.5	5
11	K -matrix formulation of two-particle scattering in a waveguide in the presence of one-dimensional spin-orbit coupling. Physical Review A, 2018, 98, .	2.5	4
12	Three-Boson Spectrum in the Presence of 1D Spin-Orbit Coupling: Efimov's Generalized Radial Scaling Law. Physical Review X, 2018, 8, .	8.9	4
13	Analytical coupled-channel treatment of two-body scattering in the presence of three-dimensional isotropic spin-orbit coupling. Physical Review A, 2017, 95, .	2.5	11
14	Path-Integral Monte Carlo Determination of the Fourth-Order Virial Coefficient for a Unitary Two-Component Fermi Gas with Zero-Range Interactions. Physical Review Letters, 2016, 116, 230401.	7.8	26
15	Energy and structural properties of N -boson clusters attached to three-body Efimov states: Two-body zero-range interactions and the role of the three-body regulator. Physical Review A, 2015, 92, .	2.5	22
16	Efimov Physics and the Three-Body Parameter for Shallow van der Waals Potentials. Few-Body Systems, 2015, 56, 859-867.	1.5	18
17	Observation of the Efimov state of the helium trimer. Science, 2015, 348, 551-555.	12.6	190
18	Harmonically trapped two-atom systems: Interplay of short-range-wave interaction and spin-orbit coupling. Physical Review A, 2014, 89, .	2.5	15

#	ARTICLE	IF	CITATIONS
19	Universal and nonuniversal effective N-body interactions for ultracold harmonically trapped few-atom systems. <i>Physical Review A</i> , 2014, 90, .	2.5	9
20	Generalized Efimov Scenario for Heavy-Light Mixtures. <i>Physical Review Letters</i> , 2014, 113, 213201.	7.8	40
21	Tunable high-temperature thermodynamics of weakly interacting dipolar gases. <i>Physical Review A</i> , 2014, 89, .	2.5	1
22	Abnormal Superfluid Fraction of Harmonically Trapped Few-Fermion Systems. <i>Physical Review Letters</i> , 2014, 112, 235301.	7.8	9
23	Theory and application of explicitly correlated Gaussians. <i>Reviews of Modern Physics</i> , 2013, 85, 693-749.	45.6	263
24	Harmonically trapped Fermi gas: Temperature dependence of the Tan contact. <i>Physical Review A</i> , 2013, 88, .	2.5	17
25	Small two-component Fermi gases in a cubic box with periodic boundary conditions. <i>Physical Review A</i> , 2013, 87, .	2.5	8
26	Universal Four-Body States in Heavy-Light Mixtures with a Positive Scattering Length. <i>Physical Review Letters</i> , 2012, 109, 230404.	7.8	31
27	Hyperspherical explicitly correlated Gaussian approach for few-body systems with finite angular momentum. <i>Physical Review A</i> , 2012, 86, .	2.5	12
28	Three s -wave-interacting fermions under anisotropic harmonic confinement: Dimensional crossover of energetics and virial coefficients. <i>Physical Review A</i> , 2012, 86, .	2.5	34
29	Few-body physics with ultracold atomic and molecular systems in traps. <i>Reports on Progress in Physics</i> , 2012, 75, 046401.	20.1	160
30	Breakdown of Universality for Unequal-Mass Fermi Gases with Infinite Scattering Length. <i>Physical Review Letters</i> , 2010, 105, 170403.	7.8	38
31	Stability of inhomogeneous multicomponent Fermi gases. <i>Physical Review A</i> , 2008, 77, .	2.5	13
32	Pseudopotential treatment of two aligned dipoles under external harmonic confinement. <i>Physical Review A</i> , 2007, 75, .	2.5	34
33	Equation of state of cold atoms: A lowest-order-constrained variational study of systems with large non- s -wave scattering lengths. <i>Physical Review A</i> , 2007, 76, .	2.5	2
34	Universal Properties of a Trapped Two-Component Fermi Gas at Unitarity. <i>Physical Review Letters</i> , 2007, 99, 233201.	7.8	95
35	BEC-BCS crossover of a trapped two-component Fermi gas with unequal masses. <i>Physical Review A</i> , 2007, 76, .	2.5	56
36	Dipolar Bose-Einstein condensates with dipole-dependent scattering length. <i>Physical Review A</i> , 2006, 74, .	2.5	68

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37	Nondivergent pseudopotential treatment of spin-polarized fermions under one- and three-dimensional harmonic confinement. <i>Physical Review A</i> , 2004, 70, .	2.5	52
38	Tuning the Interactions of Spin-Polarized Fermions Using Quasi-One-Dimensional Confinement. <i>Physical Review Letters</i> , 2004, 92, 133202.	7.8	123
39	Lowest breathing mode of bosonic helium clusters. <i>European Physical Journal D</i> , 2002, 18, 83-86.	1.3	1
40	Vibrationally excited states and fragmentation geometries of Ne _N and Ar _N clusters, N=3-6, using hyperspherical coordinates. <i>Journal of Chemical Physics</i> , 2000, 113, 4242-4249.	3.0	14
41	Monte Carlo hyperspherical description of helium cluster excited states. <i>Journal of Chemical Physics</i> , 2000, 112, 8053-8067.	3.0	94
42	Comparative study of He ₃ , Ne ₃ , and Ar ₃ using hyperspherical coordinates. <i>Journal of Chemical Physics</i> , 2000, 113, 2145-2158.	3.0	69