John L Bohn

List of Publications by Year
in descending order

36 papers	1,473 citations	361413 20 h-index	361022 35 g-index
36 all docs	36 docs citations	36 times ranked	849 citing authors

#	Article	IF	Citations
1	Quantum chaos in ultracold collisions of gas-phase erbium atoms. Nature, 2014, 507, 475-479.	27.8	196
2	Scattering of ultracold molecules in the highly resonant regime. Physical Review A, 2013, 87, .	2.5	157
3	Multichannel Cold Collisions: Simple Dependences on Energy and Magnetic Field. Physical Review Letters, 1998, 81, 3355-3358.	7.8	121
4	Statistical aspects of ultracold resonant scattering. Physical Review A, 2012, 85, .	2.5	105
5	Strong dependence of ultracold chemical rates on electric dipole moments. Physical Review A, 2010, 81, .	2.5	83
6	Dipolar Bose-Einstein condensates with dipole-dependent scattering length. Physical Review A, 2006, 74, .	2.5	68
7	Simple quantum model of ultracold polar molecule collisions. Physical Review A, 2010, 82, .	2.5	66
8	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>s</mml:mi></mml:math>-wave scattering lengths of the strongly dipolar bosons<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Dy</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>162</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>and<mml:math	2.5	63
9	Roton immiscibility in a two-component dipolar Bose gas. Physical Review A, 2012, 86, .	2.5	62
10	Tuning of dipolar interactions and evaporative cooling in a three-dimensional molecular quantum gas. Nature Physics, 2021, 17, 1144-1148.	16.7	52
11	Cold collisions between OH and Rb: The field-free case. Physical Review A, 2007, 75, .	2.5	49
12	Zero sound in dipolar Fermi gases. Physical Review A, 2010, 81, .	2.5	46
13	Universalities in ultracold reactions of alkali-metal polar molecules. Physical Review A, 2011, 84, .	2.5	46
14	Long-lived complexes and chaos in ultracold molecular collisions. Physical Review A, 2014, 89, .	2.5	45
15	Adimensional theory of shielding in ultracold collisions of dipolar rotors. Physical Review A, 2017, 96, .	2.5	36
16	Pseudopotential treatment of two aligned dipoles under external harmonic confinement. Physical Review A, 2007, 75, .	2.5	34
17	Quantum defect theory for high-partial-wave cold collisions. Physical Review A, 2013, 87, .	2.5	32
18	Differential scattering and rethermalization in ultracold dipolar gases. Physical Review A, 2014, 89, .	2.5	28

#	Article	IF	Citations
19	Unified model of ultracold molecular collisions. Physical Review A, 2020, 102, .	2.5	22
20	Loss of molecules in magneto-electrostatic traps due to nonadiabatic transitions. Physical Review A, 2008, 78, .	2.5	20
21	Berry-like phases in structured atoms and molecules. Physical Review A, 2009, 80, .	2.5	17
22	Stability spectroscopy of rotons in a dipolar Bose gas. Physical Review A, 2013, 87, .	2.5	16
23	Stability of fermionic Feshbach molecules in a Bose-Fermi mixture. Physical Review A, 2006, 74, .	2.5	14
24	Quantum defect theory for cold chemistry with product-quantum-state resolution. Physical Review A, 2014, 90, .	2.5	13
25	Determination of the scattering length of erbium atoms. Physical Review A, 2022, 105, .	2.5	13
26	Anisotropic thermalization of dilute dipolar gases. Physical Review A, 2021, 103, .	2.5	12
27	Fine-structure effects in vibrational relaxation at ultralow temperatures. Journal of Chemical Physics, 2003, 119, 866-871.	3.0	11
28	Geometric stability spectra of dipolar Bose gases in tunable optical lattices. Physical Review A, 2013, 88, .	2.5	11
29	Influence of a humidor on the aerodynamics of baseballs. American Journal of Physics, 2008, 76, 1015-1021.	0.7	10
30	Manifestation of quantum chaos in Fano-Feshbach resonances. Physical Review A, 2018, 98, .	2.5	7
31	Linear response of a periodically driven thermal dipolar gas. Physical Review A, 2020, 102, .	2.5	7
32	Electric field dependence of complex-dominated ultracold molecular collisions. Physical Review A, 2022, 105, .	2.5	7
33	Ultracold collisions of the lithium monoxide radical. Physical Review A, 2020, 102, .	2.5	1
34	Magnetic moments of lanthanide van der Waals dimers. Physical Review A, 2021, 103, .	2.5	1
35	ELECTRIC FIELD SPECTROSCOPY OF ULTRACOLD POLAR MOLECULAR DIMERS. , 2005, , .		1
36	Channel Selection of Ultracold Atom-Molecule Scattering in Dynamic Magnetic Fields. Physical Review Letters, 2022, 129, .	7.8	1