Krzysztof Jachymski

List of Publications by Year
in descending order

35	788	567281 15	501196 28
papers	citations	h-index	g-index

35	35	35	682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controlling the dynamics of ultracold polar molecules in optical tweezers. New Journal of Physics, 2022, 24, 015001.	2.9	6
2	Transport of a Single Cold Ion Immersed in a Bose-Einstein Condensate. Physical Review Letters, 2021, 126, 033401.	7.8	27
3	Ionic polaron in a Bose-Einstein condensate. Communications Physics, 2021, 4, .	5.3	30
4	Quantum droplets in a dipolar Bose gas at a dimensional crossover. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 165302.	1.5	3
5	Observation of Feshbach resonances between a single ion and ultracold atoms. Nature, 2021, 600, 429-433.	27.8	40
6	Inelastic collision dynamics of a single cold ion immersed in a Bose-Einstein condensate. Physical Review A, 2020, 102, .	2.5	19
7	Precise Feshbach resonance spectroscopy using tight anharmonic traps. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 065302.	1.5	2
8	Vibrational Quenching of Weakly Bound Cold Molecular Ions Immersed in Their Parent Gas. Applied Sciences (Switzerland), 2020, 10, 2371.	2.5	5
9	Quantum simulation of extended polaron models using compound atom-ion systems. Physical Review Research, 2020, 2, .	3.6	9
10	Cold hybrid ion-atom systems. Reviews of Modern Physics, 2019, 91, .	45.6	163
11	Beyond-mean-field corrections for dipolar bosons in an optical lattice. Physical Review A, 2019, 99, .	2.5	4
12	Single-Atom Transistor as a Precise Magnetic Field Sensor. Physical Review Letters, 2018, 120, 013401.	7.8	8
13	Nonuniversal beyond-mean-field properties of quasi-two-dimensional dipolar Bose gases. Physical Review A, 2018, 98, .	2.5	10
14	Trap-induced shape resonances in an ultracold few-body system of an atom and static impurities. Physical Review A, 2018, 98, .	2.5	10
15	Magnetic-field gradiometer based on ultracold collisions. Physical Review A, 2018, 97, .	2.5	5
16	Inelastic collisions of ultracold triplet Rb2 molecules in the rovibrational ground state. Nature Communications, 2017, 8, 14854.	12.8	17
17	Ultracold atoms in quasi-one-dimensional traps: A step beyond the Lieb-Liniger model. Physical Review A, 2017, 95, .	2.5	6
18	Impact of overlapping resonances on magnetoassociation of cold molecules in tight traps. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 195204.	1.5	4

#	Article	IF	Citations
19	Properties of strongly dipolar Bose gases beyond the Born approximation. Physical Review A, 2016, 94, .	2.5	23
20	Experimental and Theoretical Studies of Low-Energy Penning Ionization of NH3, CH3F, and CHF3. ChemPhysChem, 2016, 17, 3776-3782.	2.1	5
21	Communication: Importance of rotationally inelastic processes in low-energy Penning ionization of CHF3. Journal of Chemical Physics, 2016, 144, 221102.	3.0	10
22	Three-Body Interaction of Rydberg Slow-Light Polaritons. Physical Review Letters, 2016, 117, 053601.	7.8	26
23	Chaotic scattering in the presence of a dense set of overlapping Feshbach resonances. Physical Review A, 2015, 92, .	2.5	11
24	Broad universal Feshbach resonances in the chaotic spectrum of dysprosium atoms. Physical Review A, 2015, 92, .	2.5	59
25	Reactive collisions in confined geometries. New Journal of Physics, 2015, 17, 035007.	2.9	16
26	Polar molecule reactive collisions in quasi-1D systems. New Journal of Physics, 2015, 17, 013020.	2.9	16
27	Observation of orbiting resonances in He(3S1) + NH3 Penning ionization. Journal of Chemical Physics, 2015, 142, 164305.	3.0	57
28	Fast Quantum Gate via Feshbach-Pauli Blocking in a Nanoplasmonic Trap. Physical Review Letters, 2014, 112, 250502.	7.8	2
29	Dynamics of gas phase Ne* + NH3 and Ne* + ND3 Penning ionisation at low temperatures. Journal of Chemical Physics, 2014, 140, 244302.	3.0	82
30	Quantum-defect model of a reactive collision at finite temperature. Physical Review A, 2014, 90, .	2.5	20
31	Off-resonant light scattering from ultracold gases in optical lattices. European Physical Journal: Special Topics, 2013, 217, 85-90.	2.6	0
32	Analytical model of overlapping Feshbach resonances. Physical Review A, 2013, 88, .	2.5	32
33	Quantum Theory of Reactive Collisions for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:msup><mml:mi>r</mml:mi><mml:mi>n</mml:mi></mml:msup> Physical Review Letters, 2013, 110, 213202.	7.8	47
34	Feshbach resonances in a nonseparable trap. Physical Review A, 2013, 87, .	2.5	8
35	Light scattering from ultracold gases in disordered optical lattices. Physical Review A, 2012, 86, .	2.5	6