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	Cold hybrid ion-atom systems. Reviews of Modern Physics, 2019, 91, .	45.6	163
2	Dynamics of gas phase Ne* + NH3 and Ne* + ND3 Penning ionisation at low temperatures. Journal of Chemical Physics, 2014, 140, 244302.	3.0	82
3	Broad universal Feshbach resonances in the chaotic spectrum of dysprosium atoms. Physical Review A, 2015, 92, .	2.5	59
4	Observation of orbiting resonances in He(3S1) + NH3 Penning ionization. Journal of Chemical Physics, 2015, 142, 164305.	3.0	57
5	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
6	Observation of Feshbach resonances between a single ion and ultracold atoms. Nature, 2021, 600, 429-433.	27.8	40
7	Analytical model of overlapping Feshbach resonances. Physical Review A, 2013, 88, .	2.5	32
8	Ionic polaron in a Bose-Einstein condensate. Communications Physics, 2021, 4, .	5.3	30
9	Transport of a Single Cold Ion Immersed in a Bose-Einstein Condensate. Physical Review Letters, 2021, 126, 033401.	7.8	27
10	Three-Body Interaction of Rydberg Slow-Light Polaritons. Physical Review Letters, 2016, 117, 053601.	7.8	26
11	Properties of strongly dipolar Bose gases beyond the Born approximation. Physical Review A, 2016, 94, .	2.5	23
12	Quantum-defect model of a reactive collision at finite temperature. Physical Review A, 2014, 90, .	2.5	20
13	Inelastic collision dynamics of a single cold ion immersed in a Bose-Einstein condensate. Physical Review A, 2020, 102, .	2.5	19
14	Inelastic collisions of ultracold triplet Rb2 molecules in the rovibrational ground state. Nature Communications, 2017, 8, 14854.	12.8	17
15	Reactive collisions in confined geometries. New Journal of Physics, 2015, 17, 035007.	2.9	16
16	Polar molecule reactive collisions in quasi-1D systems. New Journal of Physics, 2015, 17, 013020.	2.9	16
17	Chaotic scattering in the presence of a dense set of overlapping Feshbach resonances. Physical Review A, 2015, 92, .	2.5	11
18	Communication: Importance of rotationally inelastic processes in low-energy Penning ionization of CHF3. Journal of Chemical Physics, 2016, 144, 221102.	3.0	10

#	Article	IF	Citations
19	Nonuniversal beyond-mean-field properties of quasi-two-dimensional dipolar Bose gases. Physical Review A, 2018, 98, .	2.5	10
20	Trap-induced shape resonances in an ultracold few-body system of an atom and static impurities. Physical Review A, 2018, 98, .	2.5	10
21	Quantum simulation of extended polaron models using compound atom-ion systems. Physical Review Research, 2020, 2, .	3.6	9
22	Feshbach resonances in a nonseparable trap. Physical Review A, 2013, 87, .	2.5	8
23	Single-Atom Transistor as a Precise Magnetic Field Sensor. Physical Review Letters, 2018, 120, 013401.	7.8	8
24	Light scattering from ultracold gases in disordered optical lattices. Physical Review A, 2012, 86, .	2.5	6
25	Ultracold atoms in quasi-one-dimensional traps: A step beyond the Lieb-Liniger model. Physical Review A, 2017, 95, .	2.5	6
26	Controlling the dynamics of ultracold polar molecules in optical tweezers. New Journal of Physics, 2022, 24, 015001.	2.9	6
27	Experimental and Theoretical Studies of Low-Energy Penning Ionization of NH3, CH3F, and CHF3. ChemPhysChem, 2016, 17, 3776-3782.	2.1	5
28	Magnetic-field gradiometer based on ultracold collisions. Physical Review A, 2018, 97, .	2.5	5
29	Vibrational Quenching of Weakly Bound Cold Molecular Ions Immersed in Their Parent Gas. Applied Sciences (Switzerland), 2020, 10, 2371.	2.5	5
30	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
31	Beyond-mean-field corrections for dipolar bosons in an optical lattice. Physical Review A, 2019, 99, .	2.5	4
32	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
33	Fast Quantum Gate via Feshbach-Pauli Blocking in a Nanoplasmonic Trap. Physical Review Letters, 2014, 112, 250502.	7.8	2
34	Precise Feshbach resonance spectroscopy using tight anharmonic traps. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 065302.	1.5	2
35	Off-resonant light scattering from ultracold gases in optical lattices. European Physical Journal: Special Topics, 2013, 217, 85-90.	2.6	0