

Svetlana Kotochigova

List of Publications by Year in descending order

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53
papers

1,680
citations

293460

24
h-index

312153

41
g-index

53
all docs

53
docs citations

53
times ranked

1366
citing authors

#	ARTICLE	IF	CITATIONS
19	Universal Scattering of Ultracold Atoms and Molecules in Optical Potentials. <i>Atoms</i> , 2019, 7, 36.	0.7	9
20	Excitation-assisted nonadiabatic charge-transfer reaction in a mixed atom-ion system. <i>Physical Review A</i> , 2019, 99, .	1.0	9
21	Emulating optical cycling centers in polyatomic molecules. <i>Communications Physics</i> , 2019, 2, .	2.0	18
22	Fractal universality in near-threshold magnetic lanthanide dimers. <i>Science Advances</i> , 2018, 4, eaap8308.	4.7	7
23	Extending Rotational Coherence of Interacting Polar Molecules in a Spin-Decoupled Magic Trap. <i>Physical Review Letters</i> , 2018, 121, 253401.	2.9	50
24	Orbital quantum magnetism in spin dynamics of strongly interacting magnetic lanthanide atoms. <i>Physical Review A</i> , 2018, 97, .	1.0	6
25	Laser controlled charge-transfer reaction at low temperatures. <i>Journal of Chemical Physics</i> , 2017, 146, 084304.	1.2	8
26	Pendular trapping conditions for ultracold polar molecules enforced by external electric fields. <i>Physical Review A</i> , 2017, 95, .	1.0	7
27	Explanation of efficient quenching of molecular ion vibrational motion by ultracold atoms. <i>Nature Communications</i> , 2016, 7, 11234.	5.8	30
28	Photoassociative production of ultracold heteronuclear YbLi^+ molecular ions. <i>Physical Review A</i> , 2016, 94, .	1.2	17
29	Photodissociation spectroscopy of the dysprosium monochloride molecular ion. <i>Journal of Chemical Physics</i> , 2015, 143, 124309.	1.2	4
30	Magnetic field dependent interactions in an ultracold $\text{Li}^+\text{Yb}_3\text{P}_2$ mixture. <i>New Journal of Physics</i> , 2015, 17, 055007.	1.2	19
31	Magnetic control of ultra-cold ^6Li and $^{174}\text{Yb}_3\text{P}_2$ atom mixtures with Feshbach resonances. <i>New Journal of Physics</i> , 2015, 17, 045010.	1.2	11
32	Ultracold Heteronuclear Mixture of Ground and Excited State Atoms. <i>Physical Review Letters</i> , 2014, 112, 033201.	2.9	44
33	Action spectroscopy of SrCl^+ using an integrated ion trap time-of-flight mass spectrometer. <i>Journal of Chemical Physics</i> , 2014, 141, 014309.	1.2	9
34	Quantum chaos in ultracold collisions of gas-phase erbium atoms. <i>Nature</i> , 2014, 507, 475-479.	18.7	196
35	Controlling interactions between highly magnetic atoms with Feshbach resonances. <i>Reports on Progress in Physics</i> , 2014, 77, 093901.	8.1	36
36	External field control of spin-dependent rotational decoherence of ultracold polar molecules. <i>Molecular Physics</i> , 2013, 111, 1731-1737.	0.8	6

#	ARTICLE	IF	CITATIONS
37	Evidence for sympathetic vibrational cooling of translationally cold molecules. <i>Nature</i> , 2013, 495, 490-494.	13.7	103
38	Role of Electronic Excitations in Ground-State-Forbidden Inelastic Collisions Between Ultracold Atoms and Ions. <i>Physical Review Letters</i> , 2012, 109, 223002.	2.9	52
39	Anisotropy-Induced Feshbach Resonances in a Quantum Dipolar Gas of Highly Magnetic Atoms. <i>Physical Review Letters</i> , 2012, 109, 103002.	2.9	60
40	Towards the production of ultracold ground-state RbCs molecules: Feshbach resonances, weakly bound states, and the coupled-channel model. <i>Physical Review A</i> , 2012, 85, .	1.0	131
41	Trapping molecular ions formed via photo-associative ionization of ultracold atoms. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18859.	1.3	29
42	Anisotropy in the interaction of ultracold dysprosium. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19165.	1.3	31
43	Molecular-ion trap-depletion spectroscopy of BaCl $\langle\text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle\text{mml:mrow}>\langle\text{mml:msup}>\langle\text{mml:mrow}>/>\langle\text{mml:mrow}>\langle\text{mml:mo}>+\langle\text{mml:mo}>\langle\text{mml:mrow}>\langle\text{mml:msup}>\langle\text{mml:mrow}>\langle\text{mml:math}>.$ <i>Physical Review A</i> , 2011, 83, .	1.0	26
44	Ab initio properties of Li-group-II molecules for ultracold matter studies. <i>Journal of Chemical Physics</i> , 2011, 135, 164108.	1.2	45
45	Large Chemical Reaction Rate between Ultracold Closed-Shell $\langle\text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle\text{mml:mmultiscripts}>\langle\text{mml:mi}>\text{Ca}</\text{mml:mi}>\langle\text{mml:mprescripts}>/>\langle\text{mml:none}>/>\langle\text{mml:mn}>40</\text{mml:mn}>\langle\text{mml:mmultiscripts}>\langle\text{mml:math}>\text{Atoms and Open-Shell}<\text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle\text{mml:mmultiscripts}>\langle\text{mml:mi}>\text{Yb}</\text{mml:mi}>\langle\text{mml:none}>/>\langle\text{mml:mn}>40</\text{mml:mn}>\langle\text{mml:mmultiscripts}>$ <i>Physical Review Letters</i> , 2010, 100, 073003.	2.9	127
46	Electric-field-dependent dynamic polarizability and state-insensitive conditions for optical trapping of diatomic polar molecules. <i>Physical Review A</i> , 2010, 82, .	1.0	50
47	Dispersion interactions and reactive collisions of ultracold polar molecules. <i>New Journal of Physics</i> , 2010, 12, 073041.	1.2	64
48	Multi-channel modelling of the formation of vibrationally cold polar KRb molecules. <i>New Journal of Physics</i> , 2009, 11, 055043.	1.2	24
49	Relativistic electronic structure of the Sr ₂ molecule. <i>Journal of Chemical Physics</i> , 2008, 128, 024303.	1.2	26
50	Chapter 13 Extensive Calculations of High-Precision Energy Levels in Hydrogen and Deuterium Through a Least-Squares Adjustment. <i>Advances in Quantum Chemistry</i> , 2008, 53, 253-271.	0.4	1
51	Prospects for Making Polar Molecules with Microwave Fields. <i>Physical Review Letters</i> , 2007, 99, 073003.	2.9	20
52	Precise Calculation of Transition Frequencies of Hydrogen and Deuterium Based on a Least-Squares Analysis. <i>Physical Review Letters</i> , 2005, 95, 163003.	2.9	40
53	Local-density-functional calculations of the energy of atoms. <i>Physical Review A</i> , 1997, 55, 191-199.	1.0	114