

# Roman Schmied

## List of Publications by Year in descending order

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28  
papers

2,081  
citations

394421

19  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum metrology with nonclassical states of atomic ensembles. <i>Reviews of Modern Physics</i> , 2018, 90, .	45.6	852
2	Helium nanodroplet isolation rovibrational spectroscopy: Methods and recent results. <i>Journal of Chemical Physics</i> , 2001, 115, 10090.	3.0	337
3	Quantum Metrology with a Scanning Probe Atom Interferometer. <i>Physical Review Letters</i> , 2013, 111, 143001.	7.8	148
4	Bell correlations in a Bose-Einstein condensate. <i>Science</i> , 2016, 352, 441-444.	12.6	141
5	Optimal Surface-Electrode Trap Lattices for Quantum Simulation with Trapped Ions. <i>Physical Review Letters</i> , 2009, 102, 233002.	7.8	87
6	Arrays of individually controlled ions suitable for two-dimensional quantum simulations. <i>Nature Communications</i> , 2016, 7, ncomms11839.	12.8	52
7	Modified spin-wave theory with ordering vector optimization: spatially anisotropic triangular lattice and $J_1$ $J_2$ $J_3$ model with Heisenberg interactions. <i>New Journal of Physics</i> , 2011, 13, 075017.	2.9	36
8	UV spectra of benzene isotopomers and dimers in helium nanodroplets. <i>Journal of Chemical Physics</i> , 2004, 121, 2701.	3.0	33
9	Quantum simulation of the hexagonal Kitaev model with trapped ions. <i>New Journal of Physics</i> , 2011, 13, 115011.	2.9	33
10	Energetics and possible formation and decay mechanisms of vortices in helium nanodroplets. <i>Physical Review B</i> , 2003, 68, .	3.2	30
11	Electrostatics of gapped and finite surface electrodes. <i>New Journal of Physics</i> , 2010, 12, 023038.	2.9	30
12	Conformal carpet and grating cloaks. <i>Optics Express</i> , 2010, 18, 24361.	3.4	29
13	Quantum state tomography of a single qubit: comparison of methods. <i>Journal of Modern Optics</i> , 2016, 63, 1744-1758.	1.3	29
14	Tomographic reconstruction of the Wigner function on the Bloch sphere. <i>New Journal of Physics</i> , 2011, 13, 065019.	2.9	28
15	Modified spin-wave theory with ordering vector optimization: frustrated bosons on the spatially anisotropic triangular lattice. <i>New Journal of Physics</i> , 2010, 12, 053036.	2.9	27
16	Optimized magnetic lattices for ultracold atomic ensembles. <i>New Journal of Physics</i> , 2010, 12, 103029.	2.9	24
17	Tighter quantum uncertainty relations following from a general probabilistic bound. <i>Physical Review A</i> , 2015, 92, .	2.5	23
18	Eigenstate-resolved unimolecular dissociation dynamics of HOCl at $v_{OH} = 7$ and 8. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 2245-2252.	2.8	19

#	ARTICLE	IF	CITATIONS
19	Helium nanodroplet isolation spectroscopy of perylene and its complexes with oxygen. Journal of Chemical Physics, 2004, 120, 6792-6793.	3.0	19
20	Near-infrared spectroscopy of ethylene and ethylene dimer in superfluid helium droplets. Journal of Chemical Physics, 2005, 122, 104307.	3.0	18
21	(HCN) <sub>m</sub> <sup>n</sup> (M = K, Ca, Sr): Vibrational Excitation Induced Solvation and Desolvation of Dopants in and on Helium Nanodroplets. Journal of Physical Chemistry A, 2010, 114, 3391-3402.	2.5	18
22	Newtonian photorealistic ray tracing of grating cloaks and correlation-function-based cloaking-quality assessment. Optics Express, 2011, 19, 6078.	3.4	18
23	Bell Correlations in a Many-Body System with Finite Statistics. Physical Review Letters, 2017, 119, 170403.	7.8	18
24	Computer-generated character tables and nuclear spin statistical weights: application to benzene dimer and methane dimer. Journal of Molecular Spectroscopy, 2004, 226, 201-202.	1.2	14
25	The dipole moment of HOCl in $\nu_{OH}=4$ . Journal of Molecular Spectroscopy, 2003, 221, 116-120.	1.2	7
26	Optimal entanglement witnesses in a split spin-squeezed Bose-Einstein condensate. Physical Review A, 2017, 95, .	2.5	7
27	Sideband Rabi spectroscopy of finite-temperature trapped Bose gases. Physical Review A, 2016, 93, .	2.5	4
28	Three-Dimensional Newtonian Photorealistic Ray Tracing of the Conformal Grating Cloak. , 2011, , .		0