

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	Bell Correlations in a Many-Body System with Finite Statistics. <i>Physical Review Letters</i> , 2017, 119, 170403.	7.8	18
3	Optimal entanglement witnesses in a split spin-squeezed Bose-Einstein condensate. <i>Physical Review A</i> , 2017, 95, .	2.5	7
4	Arrays of individually controlled ions suitable for two-dimensional quantum simulations. <i>Nature Communications</i> , 2016, 7, ncomms11839.	12.8	52
5	Bell correlations in a Bose-Einstein condensate. <i>Science</i> , 2016, 352, 441-444.	12.6	141
6	Sideband Rabi spectroscopy of finite-temperature trapped Bose gases. <i>Physical Review A</i> , 2016, 93, .	2.5	4
7	Quantum state tomography of a single qubit: comparison of methods. <i>Journal of Modern Optics</i> , 2016, 63, 1744-1758.	1.3	29
8	Tighter quantum uncertainty relations following from a general probabilistic bound. <i>Physical Review A</i> , 2015, 92, .	2.5	23
9	Quantum Metrology with a Scanning Probe Atom Interferometer. <i>Physical Review Letters</i> , 2013, 111, 143001.	7.8	148
10	Newtonian photorealistic ray tracing of grating cloaks and correlation-function-based cloaking-quality assessment. <i>Optics Express</i> , 2011, 19, 6078.	3.4	18
11	Three-Dimensional Newtonian Photorealistic Ray Tracing of the Conformal Grating Cloak. , 2011, , .		0
12	Quantum simulation of the hexagonal Kitaev model with trapped ions. <i>New Journal of Physics</i> , 2011, 13, 115011.	2.9	33
13	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
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	Electrostatics of gapped and finite surface electrodes. <i>New Journal of Physics</i> , 2010, 12, 023038.	2.9	30
18	Conformal carpet and grating cloaks. <i>Optics Express</i> , 2010, 18, 24361.	3.4	29

#	ARTICLE	IF	CITATIONS
19	(HCN) _m ⁿ (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
20	Optimal Surface-Electrode Trap Lattices for Quantum Simulation with Trapped Ions. Physical Review Letters, 2009, 102, 233002.	7.8	87
21	Near-infrared spectroscopy of ethylene and ethylene dimer in superfluid helium droplets. Journal of Chemical Physics, 2005, 122, 104307.	3.0	18
22	Helium nanodroplet isolation spectroscopy of perylene and its complexes with oxygen. Journal of Chemical Physics, 2004, 120, 6792-6793.	3.0	19
23	UV spectra of benzene isotopomers and dimers in helium nanodroplets. Journal of Chemical Physics, 2004, 121, 2701.	3.0	33
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 vOH=4. Journal of Molecular Spectroscopy, 2003, 221, 116-120.	1.2	7
26	Energetics and possible formation and decay mechanisms of vortices in helium nanodroplets. Physical Review B, 2003, 68, .	3.2	30
27	Eigenstate-resolved unimolecular dissociation dynamics of HOCl at vOH = 7 and 8. Physical Chemistry Chemical Physics, 2001, 3, 2245-2252.	2.8	19
28	Helium nanodroplet isolation rovibrational spectroscopy: Methods and recent results. Journal of Chemical Physics, 2001, 115, 10090.	3.0	337