Jani-Petri J Martikainen

List of Publications by Year
in descending order

59	2,116	293460	263392
papers	citations	24 h-index	45 g-index

61	61	61	2395
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic onâ€“off switching of a plasmonic laser. Nature Photonics, 2022, 16, 27-32.	15.6	18
2	Strong coupling between organic dye molecules and lattice modes of a dielectric nanoparticle array. Nanophotonics, 2020, 9, 267-276.	2.9	17
3	Lasing in Ni Nanodisk Arrays. ACS Nano, 2019, 13, 5686-5692.	7.3	40
4	Boseâ€“Einstein condensation in a plasmonic lattice. Nature Physics, 2018, 14, 739-744.	6.5	151
5	The Fuldeâ€“Ferrellâ€“Larkinâ€“Ovchinnikov state for ultracold fermions in lattice and harmonic potentials: a review. Reports on Progress in Physics, 2018, 81, 046401.	8.1	90
6	Ultrafast Pulse Generation in an Organic Nanoparticle-Array Laser. Nano Letters, 2018, 18, 2658-2665.	4.5	36
7	Coupled dipole approximation across the Î“-point in a finite-sized nanoparticle array. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160316.	1.6	13
8	Strong Coupling Between Organic Molecules and Plasmonic Nanostructures. Springer Series in Solid-state Sciences, 2017, , 121-150.	0.3	7
9	Lasing in dark and bright modes of a finite-sized plasmonic lattice. Nature Communications, 2017, 8, 13687.	5.8	218
10	Quantum emitter dipoleâ€“dipole interactions in nanoplasmonic systems. International Journal of Modern Physics B, 2017, 31, 1740006.	1.0	5
11	Strong light-matter interactions in plasmonic lattices. , 2016, , .		0
12	Modelling lasing in plasmonic nanoparticle arrays. Journal of Optics (United Kingdom), 2016, 18, 024006.	1.0	7
13	Superfluid phases of fermions with hybridizedsandporbitals. Physical Review A, 2015, 92, .	1.0	13
14	Condensation phenomena in plasmonics. Physical Review A, 2014, 90, .	1.0	19
15	Fulde-Ferrell states and Berezinskii-Kosterlitz-Thouless phase transition in two-dimensional imbalanced Fermi gases. Physical Review B, 2014, 89, .	1.1	36
16	Spatial Coherence Properties of Organic Molecules Coupled to Plasmonic Surface Lattice Resonances in the Weak and Strong Coupling Regimes. Physical Review Letters, 2014, 112, 153002.	2.9	167
17	Plasmonic Surface Lattice Resonances at the Strong Coupling Regime. Nano Letters, 2014, 14, 1721-1727.	4.5	275
18	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>X</mml:mi><mml:mi>Y</mml:mi><mml:mi>Z</mml:mi></mml:math>Quantum Heisenberg Models with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-Orbital Bosons. Physical Review Letters, 2013, 111, 205302.	2.9	55

#	Article	IF	Citations
19	Publisher's Note: Mott insulators in plaquettes [Phys. Rev. A86, 033630 (2012)]. Physical Review A, 2012, 86, .	1.0	0
20	Multiorbital bosons in bipartite optical lattices. Physical Review A, 2012, 86, .	1.0	17
21	Confined<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-band Bose-Einstein condensates. Physical Review A, 2012, 85, .	1.0	18
22	Kelvin-Helmholtz instability in two-component Bose gases on a lattice. Physical Review A, 2012, 85, .	1.0	10
23	Mott insulators in plaquettes. Physical Review A, 2012, 86, .	1.0	2
24	Dynamical instability and loss ofp-band bosons in optical lattices. Physical Review A, 2011, 83, .	1.0	15
25	Loading of bosons in optical lattices into thepband. Physical Review A, 2011, 84, .	1.0	2
26	Exotic Superfluid States of Lattice Fermions in Elongated Traps. Physical Review Letters, 2011, 106, 095301.	2.9	23
27	Spin-orbit-coupled Bose-Einstein condensate in a tilted optical lattice. Physical Review A, 2010, 82, .	1.0	46
28	Ultracold atoms in a cavity-mediated double-well system. Physical Review A, 2010, 82, .	1.0	18
29	Dynamical quantum phase transition of a two-component Bose-Einstein condensate in an optical lattice. Physical Review A, 2010, 81, .	1.0	3
30	Coupling internal atomic states in a two-component Bose-Einstein condensate via an optical lattice: Extended Mott-stateâ€“superfluid transitions. Physical Review A, 2009, 80, .	1.0	8
31	Induced Interactions for Ultracold Fermi Gases in Optical Lattices. Physical Review Letters, 2009, 102, 245301.	2.9	23
32	Induced Interactions and the Superfluid Transition Temperature in a Three-Component Fermi Gas. Physical Review Letters, 2009, 103, 260403.	2.9	20
33	Multiband bosons in optical lattices. Physical Review A, 2009, 79, .	1.0	44
34	Noise correlations of the ultracold Fermi gas in an optical lattice. Physical Review A, 2008, 77, .	1.0	15
35	Cooper problem in a lattice. Physical Review A, 2008, 78, .	1.0	7
36	FFLO state in 1-, 2- and 3-dimensional optical lattices combined with a non-uniform background potential. New Journal of Physics, 2008, 10, 045014.	1.2	60

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37	Interband physics in an ultracold Fermi gas in an optical lattice. Physical Review A, 2008, 78, .	1.0	5
38	Coupled two-component atomic gas in an optical lattice. Physical Review A, 2008, 78, .	1.0	9
39	Coexistence and shell structures of several superfluids in trapped three-component Fermi mixtures. Physical Review A, 2007, 75, .	1.0	34
40	Finite-Temperature Phase Diagram of a Polarized Fermi Gas in an Optical Lattice. Physical Review Letters, 2007, 99, 120403.	2.9	86
41	Fermion pairing with spin-density imbalance in an optical lattice. New Journal of Physics, 2006, 8, 179-179.	1.2	39
42	Sound velocity and dimensional crossover in a superfluid Fermi gas in an optical lattice. Physical Review A, 2006, 73, .	1.0	25
43	Ultracold polarized Fermi gas at intermediate temperatures. Physical Review A, 2006, 74, .	1.0	18
44	Pairing in a three-component Fermi gas. Physical Review A, 2006, 73, .	1.0	56
45	Quasi-Two-Dimensional Superfluid Fermionic Gases. Physical Review Letters, 2005, 95, 170407.	2.9	27
46	Quantum theory of a vortex line in an optical lattice. Physical Review A, 2004, 69, .	1.0	21
47	Spontaneous squeezing of a vortex in an optical lattice. Physical Review A, 2004, 70, .	1.0	9
48	Vortex-Line Solitons in A Periodically Modulated Bose-Einstein Condensate. Physical Review Letters, 2004, 93, 070402.	2.9	7
49	Longitudinal sound mode of a Bose-Einstein condensate in an optical lattice. Physical Review A, 2004, 69, .	1.0	12
50	Excitations of a Bose-Einstein condensate in a one-dimensional optical lattice. Physical Review A, 2003, 68, .	1.0	20
51	Quantum Fluctuations of a Vortex in an Optical Lattice. Physical Review Letters, 2003, 91, 240403.	2.9	27
52	Vortex nucleation in Bose-Einstein condensates in time-dependent traps. Physical Review A, 2003, 67, .	1.0	32
53	Creation of a Monopole in a Spinor Condensate. Physical Review Letters, 2002, 88, 090404.	2.9	35
54	Coreless vortex ground state of the rotating spinor condensate. Physical Review A, 2002, 66, .	1.0	48

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55	Collective excitations in anF= 2 Bose-Einstein condensate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 4091-4101.	0.6	12
56	Generation and evolution of vortex-antivortex pairs in Bose-Einstein condensates. Physical Review A, 2001, 64, .	1.0	36
57	Comment on â€œBose-Einstein condensation with magnetic dipole-dipole forcesâ€. Physical Review A, 2001, 64, .	1.0	40
58	Bose-Einstein condensation in shallow traps. Physical Review A, 2001, 63, .	1.0	17
59	Validity of the Landau-Zener model for output coupling of Bose condensates. Physical Review A, 1999, 60, 4175-4178.	1.0	1