

Simeon I Mistakidis

List of Publications by Year in descending order

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62
papers

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citations

304368

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docs citations

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times ranked

371
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified <i>ab initio</i> approach to the correlated quantum dynamics of ultracold fermionic and bosonic mixtures. <i>Journal of Chemical Physics</i> , 2017, 147, 044106.	1.2	83
2	Quench Dynamics and Orthogonality Catastrophe of Bose Polarons. <i>Physical Review Letters</i> , 2019, 122, 183001.	2.9	78
3	Correlation effects in the quench-induced phase separation dynamics of a two species ultracold quantum gas. <i>New Journal of Physics</i> , 2018, 20, 043052.	1.2	68
4	Negative-quench-induced excitation dynamics for ultracold bosons in one-dimensional lattices. <i>Physical Review A</i> , 2015, 91, .	1.0	54
5	Dark-bright soliton dynamics beyond the mean-field approximation. <i>New Journal of Physics</i> , 2017, 19, 073004.	1.2	52
6	Interaction quench induced multimode dynamics of finite atomic ensembles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 225303.	0.6	47
7	Repulsive Fermi polarons and their induced interactions in binary mixtures of ultracold atoms. <i>New Journal of Physics</i> , 2019, 21, 043032.	1.2	47
8	Effective approach to impurity dynamics in one-dimensional trapped Bose gases. <i>Physical Review A</i> , 2019, 100, .	1.0	46
9	Phase-separation dynamics induced by an interaction quench of a correlated Fermi-Fermi mixture in a double well. <i>Physical Review A</i> , 2019, 99, .	1.0	36
10	Many-body expansion dynamics of a Bose-Fermi mixture confined in an optical lattice. <i>Physical Review A</i> , 2018, 97, .	1.0	35
11	Many-body quantum dynamics in the decay of bent dark solitons of Bose-Einstein condensates. <i>New Journal of Physics</i> , 2017, 19, 123012.	1.2	34
12	Mode coupling of interaction quenched ultracold few-boson ensembles in periodically driven lattices. <i>Physical Review A</i> , 2017, 95, .	1.0	33
13	Many-body quantum dynamics and induced correlations of Bose polarons. <i>New Journal of Physics</i> , 2020, 22, 043007.	1.2	33
14	Quench-induced resonant tunneling mechanisms of bosons in an optical lattice with harmonic confinement. <i>Physical Review A</i> , 2017, 95, .	1.0	31
15	Many-body dissipative flow of a confined scalar Bose-Einstein condensate driven by a Gaussian impurity. <i>Physical Review A</i> , 2018, 98, .	1.0	31
16	Induced correlations between impurities in a one-dimensional quenched Bose gas. <i>Physical Review Research</i> , 2020, 2, .	1.3	30
17	Dissipative correlated dynamics of a moving impurity immersed in a Bose-Einstein condensate. <i>New Journal of Physics</i> , 2019, 21, 103026.	1.2	28
18	Observation and analysis of multiple dark-antidark solitons in two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2020, 102, .	1.0	27

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19	Parametrically excited star-shaped patterns at the interface of binary Bose-Einstein condensates. <i>Physical Review A</i> , 2020, 102, .	1.0	27
20	Correlated tunneling dynamics of an ultracold Fermi-Fermi mixture confined in a double well. <i>Physical Review A</i> , 2018, 98, .	1.0	26
21	Resonant quantum dynamics of few ultracold bosons in periodically driven finite lattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 244004.	0.6	25
22	Probing ferromagnetic order in few-fermion correlated spin-flip dynamics. <i>New Journal of Physics</i> , 2019, 21, 053005.	1.2	25
23	Phase diagram, stability and magnetic properties of nonlinear excitations in spinor Bose-Einstein condensates. <i>New Journal of Physics</i> , 2021, 23, 013015.	1.2	23
24	Quantum dynamical response of ultracold few-boson ensembles in finite optical lattices to multiple interaction quenches. <i>Physical Review A</i> , 2017, 95, .	1.0	22
25	Correlated quantum dynamics of two quenched fermionic impurities immersed in a Bose-Einstein condensate. <i>Physical Review A</i> , 2019, 100, .	1.0	21
26	Collective excitations of dipolar gases based on local tunneling in superlattices. <i>Chemical Physics</i> , 2017, 482, 303-310.	0.9	19
27	Spontaneous generation of dark-bright and dark-antidark solitons upon quenching a particle-imbalanced bosonic mixture. <i>Physical Review A</i> , 2019, 100, .	1.0	19
28	Entanglement-assisted tunneling dynamics of impurities in a double well immersed in a bath of lattice trapped bosons. <i>New Journal of Physics</i> , 2020, 22, 023027.	1.2	19
29	Formation and quench of homonuclear and heteronuclear quantum droplets in one dimension. <i>Physical Review Research</i> , 2021, 3, .	1.3	19
30	Polaron Problems in Ultracold Atoms: Role of a Fermi Sea across Different Spatial Dimensions and Quantum Fluctuations of a Bose Medium. <i>Atoms</i> , 2021, 9, 18.	0.7	18
31	Pump-probe spectroscopy of Bose polarons: Dynamical formation and coherence. <i>Physical Review Research</i> , 2020, 2, .	1.3	18
32	Quench dynamics of two one-dimensional harmonically trapped bosons bridging attraction and repulsion. <i>Molecular Physics</i> , 2019, 117, 2043-2057.	0.8	17
33	Correlated dynamics of fermionic impurities induced by the counterflow of an ensemble of fermions. <i>Physical Review A</i> , 2020, 101, .	1.0	17
34	Spontaneous Formation of Star-Shaped Surface Patterns in a Driven Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2021, 127, 113001.	2.9	16
35	Doping a lattice-trapped bosonic species with impurities: from ground state properties to correlated tunneling dynamics. <i>New Journal of Physics</i> , 2020, 22, 083003.	1.2	15
36	Analytical treatment of the interaction quench dynamics of two bosons in a two-dimensional harmonic trap. <i>Physical Review A</i> , 2019, 100, .	1.0	14

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37	Induced interactions and quench dynamics of bosonic impurities immersed in a Fermi sea. <i>Physical Review A</i> , 2020, 102, .	1.0	14
38	Coherent-state path integrals in the continuum. <i>Physical Review A</i> , 2014, 90, .	1.0	13
39	Quench dynamics of finite bosonic ensembles in optical lattices with spatially modulated interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 225001.	0.6	13
40	Dynamical pruning of the non-equilibrium quantum dynamics of trapped ultracold bosons. <i>Journal of Chemical Physics</i> , 2019, 151, .	1.2	13
41	Stationary and dynamical properties of two harmonically trapped bosons in the crossover from two dimensions to one. <i>Physical Review A</i> , 2020, 102, .	1.0	13
42	Pulse- and continuously driven many-body quantum dynamics of bosonic impurities in a Bose-Einstein condensate. <i>Physical Review A</i> , 2020, 101, .	1.0	13
43	Statistical mechanics of one-dimensional quantum droplets. <i>Physical Review A</i> , 2021, 104, .	1.0	12
44	Radiofrequency spectroscopy of one-dimensional trapped Bose polarons: crossover from the adiabatic to the diabatic regime. <i>New Journal of Physics</i> , 2021, 23, 043051.	1.2	11
45	Few-body correlations in two-dimensional Bose and Fermi ultracold mixtures. <i>New Journal of Physics</i> , 2021, 23, 093022.	1.2	11
46	Polarons and their induced interactions in highly imbalanced triple mixtures. <i>Physical Review A</i> , 2021, 104, .	1.0	11
47	Pattern Formation in One-Dimensional Polaron Systems and Temporal Orthogonality Catastrophe. <i>Atoms</i> , 2022, 10, 3.	0.7	10
48	Quench induced vortex-bright-soliton formation in binary Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 0, , .	0.6	9
49	Many-body effects on second-order phase transitions in spinor Bose-Einstein condensates and breathing dynamics. <i>Physical Review A</i> , 2020, 102, .	1.0	8
50	Many-body collisional dynamics of impurities injected into a double-well trapped Bose-Einstein condensate. <i>Physical Review Research</i> , 2021, 3, .	1.3	8
51	Interplay of phase separation and itinerant magnetism for correlated few fermions in a double-well. <i>New Journal of Physics</i> , 2020, 22, 063058.	1.2	7
52	Theoretical and numerical evidence for the potential realization of the Peregrine soliton in repulsive two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2022, 105, .	1.0	7
53	Entangling Lattice-Trapped Bosons with a Free Impurity: Impact on Stationary and Dynamical Properties. <i>Entropy</i> , 2021, 23, 290.	1.1	5
54	Pattern formation of correlated impurities subjected to an impurity-medium interaction pulse. <i>Physical Review A</i> , 2021, 103, .	1.0	5

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55	Counterflow dynamics of two correlated impurities immersed in a bosonic gas. <i>Physical Review A</i> , 2022, 105, .	1.0	5
56	Artificial atoms from cold bosons in one dimension. <i>New Journal of Physics</i> , 0, , .	1.2	5
57	The many facets of Poincare recurrence theorem of the logistic map. <i>Kybernetes</i> , 2012, 41, 794-803.	1.2	3
58	Reply to "Comment on "Coherent-state path integrals in the continuum"™". <i>Physical Review A</i> , 2019, 99, 1.0		3
59	ENTROPY PRODUCTION OF ENTIRELY DIFFUSIONAL LAPLACIAN TRANSFER AND THE POSSIBLE ROLE OF FRAGMENTATION OF THE BOUNDARIES. <i>Fractals</i> , 2015, 23, 1550026.	1.8	3
60	Intra- and interband excitations induced residue decay of the Bose polaron in a one-dimensional double-well. <i>New Journal of Physics</i> , 2022, 24, 033004.	1.2	3
61	SYMBOL-TO-SYMBOL CORRELATION FUNCTION AT THE FEIGENBAUM POINT OF THE LOGISTIC MAP. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013, 23, 1350118.	0.7	1
62	Statistical versus optimal partitioning for block entropies. <i>Kybernetes</i> , 2013, 42, 35-54.	1.2	0