

Michael Bonitz

List of Publications by Year in descending order

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419
papers

11,349
citations

31902

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431
docs citations

431
times ranked

2859
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum kinetic theory of plasmas in strong laser fields. <i>Physical Review E</i> , 1999, 60, 4725-4732.	0.8	336
2	Complex plasmas: a laboratory for strong correlations. <i>Reports on Progress in Physics</i> , 2010, 73, 066501.	8.1	336
3	Wigner Crystallization in Mesoscopic 2D Electron Systems. <i>Physical Review Letters</i> , 2001, 86, 3851-3854.	2.9	266
4	The uniform electron gas at warm dense matter conditions. <i>Physics Reports</i> , 2018, 744, 1-86.	10.3	177
5	Real-Time Kadanoff-Baym Approach to Plasma Oscillations in a Correlated Electron Gas. <i>Physical Review Letters</i> , 2000, 84, 1768-1771.	2.9	162
6	Quantum Kinetic Theory. , 2016, , .		159
7	Exchange-Correlation Free Energy of the Uniform Electron Gas at Warm Dense Matter Conditions. <i>Physical Review Letters</i> , 2017, 119, 135001.	2.9	139
8	Quantum Monte Carlo Simulation of the Warm Dense Electron Gas in the Thermodynamic Limit. <i>Physical Review Letters</i> , 2016, 117, 156403.	2.9	136
9	Structural Properties of Screened Coulomb Balls. <i>Physical Review Letters</i> , 2006, 96, 075001.	2.9	129
10	Theoretical foundations of quantum hydrodynamics for plasmas. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	119
11	Thermodynamic Results for the Degenerate Electron Gas at Finite Temperature. <i>Physical Review Letters</i> , 2015, 115, 130402.	2.9	114
12	Ab initio simulation of warm dense matter. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	114
13	Thermodynamics of hot dense H-plasmas: path integral Monte Carlo simulations and analytical approximations. <i>Plasma Physics and Controlled Fusion</i> , 2001, 43, 743-759.	0.9	112
14	On the wake structure in streaming complex plasmas. <i>New Journal of Physics</i> , 2012, 14, 053016.	1.2	108
15	Temperature-dependent quantum pair potentials and their application to dense partially ionized hydrogen plasmas. <i>Physical Review E</i> , 2004, 70, 046411.	0.8	98
16	Path Integral Monte Carlo Results for the Dynamic Structure Factor of Correlated Electrons: From the Electron Liquid to Warm Dense Matter. <i>Physical Review Letters</i> , 2018, 121, 255001.	2.9	95
17	Theory and simulation of strong correlations in quantum Coulomb systems. <i>Journal of Physics A</i> , 2003, 36, 5921-5930.	1.6	94
18	Statically screened ion potential and Bohm potential in a quantum plasma. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	94

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19	Two-photon ionization of helium studied with the multiconfigurational time-dependent Hartree-Fock method. <i>Journal of Chemical Physics</i> , 2011, 134, 084106.	1.2	93
20	Permutation blocking path integral Monte Carlo: a highly efficient approach to the simulation of strongly degenerate non-ideal fermions. <i>New Journal of Physics</i> , 2015, 17, 073017.	1.2	92
21	Characteristics and impact of the Matthew effect for countries. <i>Scientometrics</i> , 1997, 40, 407-422.	1.6	90
22	Crystallization in Two-Component Coulomb Systems. <i>Physical Review Letters</i> , 2005, 95, 235006.	2.9	88
23	Nonequilibrium Green's Functions Approach to Inhomogeneous Systems. <i>Lecture Notes in Physics</i> , 2013, , .	0.3	88
24	Structure of spherical three-dimensional Coulomb crystals. <i>Physical Review E</i> , 2005, 71, 046403.	0.8	86
25	Binding energies of positive and negative trions: From quantum wells to quantum dots. <i>Physical Review B</i> , 2005, 72, .	1.1	86
26	Is Diffusion Anomalous in Two-Dimensional Yukawa Liquids?. <i>Physical Review Letters</i> , 2009, 103, 195001.	2.9	84
27	Classical and quantum Coulomb crystals. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	82
28	Diffusion in a Strongly Coupled Magnetized Plasma. <i>Physical Review Letters</i> , 2011, 107, 135003.	2.9	81
29	Quantum Hydrodynamics for Plasmas - a Thomas-Fermi Theory Perspective. <i>Contributions To Plasma Physics</i> , 2015, 55, 437-443.	0.5	81
30	Influence of well-width fluctuations on the binding energy of excitons, charged excitons, and biexcitons in GaAs-based quantum wells. <i>Physical Review B</i> , 2004, 70, .	1.1	80
31	Plasma Phase Transition in Fluid Hydrogen-Helium Mixtures. <i>Contributions To Plasma Physics</i> , 1995, 35, 109-125.	0.5	78
32	Numerical analysis of non-Markovian effects in charge-carrier scattering: one-time versus two-time kinetic equations. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 6057-6071.	0.7	78
33	Time-dependent restricted-active-space configuration-interaction method for the photoionization of many-electron atoms. <i>Physical Review A</i> , 2012, 86, .	1.0	78
34	Kadanoff-Baym equations with initial correlations. <i>Physical Review E</i> , 1999, 59, 1557-1562.	0.8	77
35	Improved Kelbg potential for correlated Coulomb systems. <i>Journal of Physics A</i> , 2003, 36, 5957-5962.	1.6	77
36	Configuration Path Integral Monte Carlo. <i>Contributions To Plasma Physics</i> , 2011, 51, 687-697.	0.5	76

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37	Quantum hydrodynamics for plasmasâ€™ <i>Quo vadis</i> ? Physics of Plasmas, 2019, 26, .	0.7	76
38	Berezinskii-Kosterlitz-Thouless Transition in Two-Dimensional Dipole Systems. Physical Review Letters, 2010, 105, 070401.	2.9	70
39	Introduction to Complex Plasmas. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , .	0.1	68
40	<i>Ab initio</i> quantum Monte Carlo simulations of the uniform electron gas without fixed nodes. Physical Review B, 2016, 93, .	1.1	65
41	The static local field correction of the warm dense electron gas: An <i>ab initio</i> path integral Monte Carlo study and machine learning representation. Journal of Chemical Physics, 2019, 151, 194104.	1.2	64
42	Efficient grid-based method in nonequilibrium Greenâ€™s function calculations: Application to model atoms and molecules. Physical Review A, 2010, 81, .	1.0	63
43	Hubbard nanoclusters far from equilibrium. Physical Review B, 2014, 90, .	1.1	63
44	Time-dependent second-order Born calculations for model atoms and molecules in strong laser fields. Physical Review A, 2010, 82, .	1.0	62
45	Permutation blocking path integral Monte Carlo approach to the uniform electron gas at finite temperature. Journal of Chemical Physics, 2015, 143, 204101.	1.2	61
46	Harmonics generation in electron-ion collisions in a short laser pulse. Physical Review E, 2001, 64, 026405.	0.8	60
47	Monte Carlo results for the hydrogen Hugoniot. Physical Review E, 2004, 70, 057401.	0.8	60
48	Ground state of a confined Yukawa plasma. Physical Review E, 2006, 74, 056403.	0.8	60
49	Fermionic path-integral Monte Carlo results for the uniform electron gas at finite temperature. Physical Review E, 2015, 91, 033108.	0.8	60
50	<i>Ab initio</i> quantum Monte Carlo simulation of the warm dense electron gas. Physics of Plasmas, 2017, 24, .	0.7	59
51	Coupling strength in Coulomb and Yukawa one-component plasmas. Physics of Plasmas, 2014, 21, .	0.7	58
52	Phase transition in strongly degenerate hydrogen plasma. JETP Letters, 2001, 74, 384-387.	0.4	57
53	Time-dependent multiconfiguration methods for the numerical simulation of photoionization processes of many-electron atoms. European Physical Journal: Special Topics, 2014, 223, 177-336.	1.2	57
54	Magnetizing a Complex Plasma without a Magnetic Field. Physical Review Letters, 2012, 109, 155003.	2.9	56

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55	<i>Ab initio</i> quantum Monte Carlo simulations of the uniform electron gas without fixed nodes: The unpolarized case. <i>Physical Review B</i> , 2016, 93, .	1.1	54
56	High-density phenomena in hydrogen plasma. <i>JETP Letters</i> , 2000, 72, 245-248.	0.4	53
57	Nonequilibrium Green's function approach to strongly correlated few-electron quantum dots. <i>Physical Review B</i> , 2009, 79, .	1.1	53
58	Non-invasive determination of the parameters of strongly coupled 2D Yukawa liquids. <i>Physics of Plasmas</i> , 2011, 18, 063701.	0.7	53
59	Attractive forces between ions in quantum plasmas: Failure of linearized quantum hydrodynamics. <i>Physical Review E</i> , 2013, 87, .	0.8	53
60	Advanced fluid modeling and PIC/MCC simulations of low-pressure ccrf discharges. <i>Plasma Sources Science and Technology</i> , 2017, 26, 044001.	1.3	53
61	Nonequilibrium dynamics in the one-dimensional Fermi-Hubbard model: Comparison of the nonequilibrium Green-functions approach and the density matrix renormalization group method. <i>Physical Review B</i> , 2017, 95, .	1.1	53
62	Nonlinear Electronic Density Response in Warm Dense Matter. <i>Physical Review Letters</i> , 2020, 125, 085001.	2.9	53
63	Green's function description of momentum-orientation relaxation of photoexcited electron plasmas in semiconductors. <i>Physical Review B</i> , 1997, 55, 5110-5116.	1.1	52
64	Quantum Kinetic Theory for Laser Plasmas. Dynamical Screening in Strong Fields. <i>Contributions To Plasma Physics</i> , 1999, 39, 329-347.	0.5	52
65	Wake Formation and Wake Field Effects in Complex Plasmas. <i>Contributions To Plasma Physics</i> , 2012, 52, 804-812.	0.5	52
66	Semiconductor Kadanoff-Baym Equation Results for Optically Excited Electron-Hole Plasmas in Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 206, 197-203.	0.7	51
67	Melting of Trapped Few-Particle Systems. <i>Physical Review Letters</i> , 2008, 100, 113401.	2.9	51
68	Dynamics of strongly correlated fermions: <i>Ab initio</i> results for two and three dimensions. <i>Physical Review B</i> , 2016, 93, .	1.1	51
69	Structural characteristics of strongly coupled ions in a dense quantum plasma. <i>Physical Review E</i> , 2018, 98, 023207.	0.8	51
70	Pair distribution functions of dense partially ionized hydrogen. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 274, 228-235.	0.9	49
71	Superdiffusion in quasi-two-dimensional Yukawa liquids. <i>Physical Review E</i> , 2008, 78, 026409.	0.8	49
72	Configuration path integral Monte Carlo approach to the static density response of the warm dense electron gas. <i>Journal of Chemical Physics</i> , 2017, 147, 164108.	1.2	49

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73	Recent progress in the theory and simulation of strongly correlated plasmas: phase transitions, transport, quantum, and magnetic field effects. <i>European Physical Journal D</i> , 2018, 72, 1.	0.6	49
74	Melting scenarios for three-dimensional dusty plasma clusters. <i>Physical Review E</i> , 2011, 84, 056402.	0.8	48
75	Achieving the Scaling Limit for Nonequilibrium Green Functions Simulations. <i>Physical Review Letters</i> , 2020, 124, 076601.	2.9	48
76	Kadanoffâ€“Baym equations and non-Markovian Boltzmann equation in generalized T-matrix approximation. <i>Journal of Mathematical Physics</i> , 2000, 41, 7458-7467.	0.5	47
77	Nonequilibrium Green Functions Approach to Strongly Correlated Fermions in Lattice Systems. <i>Contributions To Plasma Physics</i> , 2016, 56, 5-91.	0.5	47
78	Non-Markovian Boltzmann Equation. <i>Annals of Physics</i> , 1997, 258, 320-359.	1.0	46
79	Laser heating of finite two-dimensional dust clusters: A. Experiments. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	46
80	Existence and Vanishing of the Breathing Mode in Strongly Correlated Finite Systems. <i>Physical Review Letters</i> , 2008, 101, 045002.	2.9	44
81	Path integral Monte Carlo simulation of degenerate electrons: Permutation-cycle properties. <i>Journal of Chemical Physics</i> , 2019, 151, 014108.	1.2	44
82	Path Integral Simulations of Crystallization of Quantum Confined Electrons. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 231-234.	0.7	43
83	Magnetoplasmons in Rotating Dusty Plasmas. <i>Physical Review Letters</i> , 2013, 111, 155002.	2.9	43
84	Permutation-blocking path-integral Monte Carlo approach to the static density response of the warm dense electron gas. <i>Physical Review E</i> , 2017, 96, 023203.	0.8	43
85	Nonlinear Magnetoplasmons in Strongly Coupled Yukawa Plasmas. <i>Physical Review Letters</i> , 2010, 105, 055002.	2.9	42
86	Dynamic properties of the warm dense electron gas based on abâ€“initio path integral Monte Carlo simulations. <i>Physical Review B</i> , 2020, 102, .	1.1	42
87	Ground state of a confined Yukawa plasma including correlation effects. <i>Physical Review E</i> , 2007, 76, 036404.	0.8	41
88	Kinetic energy relaxation and correlation time of nonequilibrium many-particle systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 212, 83-90.	0.9	40
89	Modern multi-channel time analyzers in the nanosecond range. <i>Nuclear Instruments & Methods</i> , 1963, 22, 238-252.	1.2	39
90	Plasma phase transition in dense hydrogen and electronâ€“hole plasmas. <i>Journal of Physics A</i> , 2003, 36, 6069-6076.	1.6	39

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91	Experiments on metastable states of three-dimensional trapped particle clusters. <i>Physics of Plasmas</i> , 2008, 15, 040701.	0.7	39
92	Dynamics of two-dimensional one-component and binary Yukawa systems in a magnetic field. <i>Physical Review E</i> , 2014, 89, 013105.	0.8	39
93	The method of effective potentials in the quantum-statistical theory of plasmas. <i>Journal of Physics A</i> , 2006, 39, 4309-4317.	1.6	38
94	Scanning tunneling microscopy and kinetic Monte Carlo investigation of cesium superlattices on Ag(111). <i>Physical Review B</i> , 2008, 78, .	1.1	37
95	Evidence for Chirped Auger-Electron Emission. <i>Physical Review Letters</i> , 2012, 108, 253003.	2.9	37
96	Towards ab Initio Thermodynamics of the Electron Gas at Strong Degeneracy. <i>Contributions To Plasma Physics</i> , 2015, 55, 136-143.	0.5	37
97	Ab initio results for the static structure factor of the warm dense electron gas. <i>Contributions To Plasma Physics</i> , 2017, 57, 468-478.	0.5	37
98	Dynamical structure factor of strongly coupled ions in a dense quantum plasma. <i>Physical Review E</i> , 2019, 99, 053203.	0.8	37
99	Screened Coulomb potential in a flowing magnetized plasma. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 025004.	0.9	36
100	Ultrafast dynamics of strongly correlated fermionsâ€™ nonequilibrium Green functions and selfenergy approximations. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 103001.	0.7	36
101	Thermodynamic Properties and Plasma Phase Transition in dense Hydrogen. <i>Contributions To Plasma Physics</i> , 2004, 44, 388-394.	0.5	35
102	Ion-streaming induced order transition in three-dimensional dust clusters. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 045011.	0.9	35
103	Oscillation Spectrum of a Magnetized Strongly Coupled One-Component Plasma. <i>Physical Review Letters</i> , 2012, 108, 255002.	2.9	35
104	Ion potential in warm dense matter: Wake effects due to streaming degenerate electrons. <i>Physical Review E</i> , 2015, 91, 023102.	0.8	35
105	Stopping dynamics of ions passing through correlated honeycomb clusters. <i>Physical Review B</i> , 2016, 94, .	1.1	35
106	G1-G2 scheme: Dramatic acceleration of nonequilibrium Green functions simulations within the Hartree-Fock generalized Kadanoff-Baym ansatz. <i>Physical Review B</i> , 2020, 101, .	1.1	35
107	Density response of the warm dense electron gas beyond linear response theory: Excitation of harmonics. <i>Physical Review Research</i> , 2021, 3, .	1.3	35
108	3D Coulomb balls: experiment and simulation. <i>Journal of Physics: Conference Series</i> , 2005, 11, 234-247.	0.3	34

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109	Shell Structure of Yukawa Balls. Contributions To Plasma Physics, 2007, 47, 281-290.	0.5	34
110	Towards an integrated modeling of the plasma-solid interface. Frontiers of Chemical Science and Engineering, 2019, 13, 201-237.	2.3	34
111	Restricted configuration path integral Monte Carlo. Journal of Chemical Physics, 2020, 153, 124114.	1.2	34
112	Correlation effects in partially ionized mass asymmetric electron-hole plasmas. Physical Review E, 2007, 75, 036401.	0.8	33
113	How Spherical Plasma Crystals Form. Physical Review Letters, 2010, 104, 015001.	2.9	33
114	The non-equilibrium Green function approach to inhomogeneous quantum many-body systems using the generalized Kadanoffâ€Baym ansatz. Physica Scripta, 2012, T151, 014036.	1.2	33
115	Effect of correlations on heat transport in a magnetized strongly coupled plasma. Physical Review E, 2015, 92, 063105.	0.8	32
116	Non-Lorentzian spectral functions for Coulomb quantum kinetics. European Physical Journal B, 1999, 9, 309-314.	0.6	31
117	Quantum breathing mode of trapped bosons and fermions at arbitrary coupling. Physical Review B, 2009, 80, .	1.1	31
118	Collective and single-particle excitations in two-dimensional dipolar Bose gases. Physical Review A, 2012, 86, .	1.0	31
119	Magnetized strongly coupled plasmas and how to realize them in a dusty plasma setup. Plasma Sources Science and Technology, 2013, 22, 015007.	1.3	31
120	Color path-integral Monte-Carlo simulations of quark-gluon plasma: Thermodynamic and transport properties. Physical Review C, 2013, 87, .	1.1	31
121	Comment on â€Discussion on novel attractive force between ions in quantum plasmasâ€failure of simulations based on a density functional approachâ™. Physica Scripta, 2013, 88, 057001.	1.2	31
122	Self-diffusion in two-dimensional quasimagnetized rotating dusty plasmas. Physical Review E, 2019, 99, 013203.	0.8	31
123	Ab initio results for the plasmon dispersion and damping of the warm dense electron gas. Contributions To Plasma Physics, 2020, 60, e202000147.	0.5	31
124	Probability of metastable configurations in spherical three-dimensional Yukawa crystals. Physical Review E, 2008, 78, 036408.	0.8	30
125	Multiconfigurational time-dependent Hartree-Fock calculations for photoionization of one-dimensional Helium. Journal of Physics: Conference Series, 2010, 220, 012019.	0.3	30
126	Phase Diagram of Bilayer Electronâ€Hole Plasmas. Contributions To Plasma Physics, 2012, 52, 819-826.	0.5	30

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127	Quantum Breathing Mode of Trapped Particles: From Nanoplasmas to Ultracold Gases. Contributions To Plasma Physics, 2014, 54, 27-99.	0.5	30
128	Dynamical Screening and Wake Effects in Classical, Quantum, and Ultrarelativistic Plasmas. Contributions To Plasma Physics, 2015, 55, 186-191.	0.5	30
129	Permutation blocking path integral Monte Carlo simulations of degenerate electrons at finite temperature. Contributions To Plasma Physics, 2019, 59, e201800157.	0.5	30
130	Two-temperature relaxation in nonideal partially ionized plasmas. Physics of Plasmas, 1996, 3, 1241-1249.	0.7	29
131	Dynamics of strongly correlated ions in a partially ionized quantum plasma. Journal of Physics: Conference Series, 2010, 220, 012003.	0.3	29
132	Plasma based formation and deposition of metal and metal oxide nanoparticles using a gas aggregation source. European Physical Journal D, 2018, 72, 1.	0.6	29
133	Relaxation of strongly coupled Coulomb systems after rapid changes of the interaction potential. Journal of Physics A, 2003, 36, 6087-6093.	1.6	28
134	Shell transitions between metastable states of Yukawa balls. Physics of Plasmas, 2008, 15, 073710.	0.7	28
135	Molecular dynamics simulation of gold cluster growth during sputter deposition. Journal of Applied Physics, 2016, 119, .	1.1	28
136	Gradient correction and Bohm potential for two- and one-dimensional electron gases at a finite temperature. Contributions To Plasma Physics, 2017, 57, 499-505.	0.5	28
137	Higher harmonics of the magnetoplasmon in strongly coupled Coulomb and Yukawa systems. Physical Review E, 2011, 83, 046403.	0.8	27
138	Crystallization of an exciton superfluid. Physical Review B, 2011, 84, .	1.1	27
139	Non-Maxwellian and magnetic field effects in complex plasma wakes. European Physical Journal D, 2018, 72, 1.	0.6	27
140	Dynamical properties and plasmon dispersion of a weakly degenerate correlated one-component plasma. Physical Review E, 2001, 64, 016409.	0.8	26
141	Interacting electrons in a one-dimensional random array of scatterers: A quantum dynamics and Monte Carlo study. Physical Review B, 2002, 65, .	1.1	26
142	Quantum breathing mode of interacting particles in a one-dimensional harmonic trap. Physical Review B, 2012, 86, .	1.1	26
143	Ultrafast dynamics of finite Hubbard clusters: A stochastic mean-field approach. Physical Review B, 2014, 90, .	1.1	26
144	Ion potential in nonideal dense quantum plasmas. Contributions To Plasma Physics, 2017, 57, 532-538.	0.5	26

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145	Short-time dynamics with initial correlations. <i>Physical Review E</i> , 2001, 63, 020102.	0.8	25
146	Screened Coulomb balls' structural properties and melting behaviour. <i>Journal of Physics A</i> , 2006, 39, 4527-4531.	1.6	25
147	Invariance of the Kohn center-of-mass mode in a conserving theory. <i>Physical Review B</i> , 2007, 76, .	1.1	25
148	Theoretical description of Coulomb balls: Fluid phase. <i>Physical Review E</i> , 2009, 80, 066405.	0.8	25
149	Free energy of the uniform electron gas: Testing analytical models against first-principles results. <i>Contributions To Plasma Physics</i> , 2017, 57, 137-146.	0.5	25
150	Correlated Topological States in Graphene Nanoribbon Heterostructures. <i>Nano Letters</i> , 2019, 19, 9045-9050.	4.5	25
151	Theory of plasmons in quasi-one-dimensional degenerate plasmas. <i>Physical Review E</i> , 1994, 49, 5535-5545.	0.8	24
152	T-matrix approach to equilibrium and nonequilibrium carrier-carrier scattering in semiconductors. <i>Physical Review B</i> , 1999, 59, 10639-10650.	1.1	24
153	Electronic double excitations in quantum wells: Solving the two-time Kadanoff-Baym equations. <i>Europhysics Letters</i> , 2012, 98, 67002.	0.7	24
154	Wave spectra of a strongly coupled magnetized one-component plasma: Quasilocalized charge approximation versus harmonic lattice theory and molecular dynamics. <i>Physical Review E</i> , 2013, 87, 043102.	0.8	24
155	Theory of the Quantum Breathing Mode in Harmonic Traps and its Use as a Diagnostic Tool. <i>Physical Review Letters</i> , 2013, 111, 256801.	2.9	24
156	Ion energy-loss characteristics and friction in a free-electron gas at warm dense matter and nonideal dense plasma conditions. <i>Physical Review E</i> , 2020, 101, 053203.	0.8	24
157	Structural and dynamical properties of Yukawa balls. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B109-B116.	0.9	23
158	Ground states of finite spherical Yukawa crystals. <i>New Journal of Physics</i> , 2008, 10, 093019.	1.2	23
159	Theoretical description of field-assisted postcollision interaction in Auger decay of atoms. <i>Physical Review A</i> , 2012, 85, .	1.0	23
160	Phase Transitions of Finite Dust Clusters in Dusty Plasmas. <i>Contributions To Plasma Physics</i> , 2012, 52, 795-803.	0.5	23
161	Reply to 'Comment on 'Attractive forces between ions in quantum plasmas: Failure of linearized quantum hydrodynamics'''. <i>Physical Review E</i> , 2013, 87, .	0.8	23
162	Crystallization in Mass-Asymmetric Electron-Hole Bilayers. <i>Contributions To Plasma Physics</i> , 2007, 47, 335-344.	0.5	22

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163	Controlling the spatial distribution of superfluidity in radially ordered Coulomb clusters. Physical Review B, 2008, 77, .	1.1	22
164	Laser heating of finite two-dimensional dust clusters: B. Simulations. Physics of Plasmas, 2012, 19, 023701.	0.7	22
165	Superfluidity of strongly correlated bosons in two- and three-dimensional traps. Physical Review B, 2015, 91, .	1.1	22
166	Doublon Formation by Ions Impacting a Strongly Correlated Finite Lattice System. Physical Review Letters, 2018, 121, 267602.	2.9	22
167	Time-dependent simulation of ion stopping: Charge transfer and electronic excitations. Contributions To Plasma Physics, 2019, 59, e201800184.	0.5	22
168	Correlation time approximation in non-Markovian kinetics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 221, 85-93.	0.9	21
169	Relaxation of a quantum many-body system from a correlated initial state. A general and consistent approach. Contributions To Plasma Physics, 2003, 43, 321-325.	0.5	21
170	Excitonic clusters in coupled quantum dots. Journal of Physics A, 2003, 36, 5899-5904.	1.6	21
171	Angular distributions of atomic photoelectrons produced in the uv and xuv regimes. Physical Review A, 2008, 78, .	1.0	21
172	The generalized Kadanoff-Baym ansatz. Computing nonlinear response properties of finite systems. Journal of Physics: Conference Series, 2013, 427, 012006.	0.3	21
173	Screening of a test charge in a free-electron gas at warm dense matter and dense non-ideal plasma conditions. Contributions To Plasma Physics, 2022, 62, e202000176.	0.5	21
174	Carrier-acoustic plasmon instability in semiconductor quantum wires. Physical Review Letters, 1993, 70, 3788-3791.	2.9	20
175	Calculation of the Shock Hugoniot of Deuterium at Pressures above 1 Mbar by the Path-Integral Monte Carlo Method. Plasma Physics Reports, 2005, 31, 700.	0.3	20
176	Towards a Particle Based Simulation of Complex Plasma Driven Nanocomposite Formation. Contributions To Plasma Physics, 2012, 52, 890-898.	0.5	20
177	Magnetic Field Blocks Two-Dimensional Crystallization in Strongly Coupled Plasmas. Physical Review Letters, 2013, 111, 065001.	2.9	20
178	Hole crystallization in semiconductors. Journal of Physics A, 2006, 39, 4717-4721.	1.6	19
179	On the Coulomb-dipole transition in mesoscopic classical and quantum electron-hole bilayers. New Journal of Physics, 2008, 10, 083031.	1.2	19
180	First-Principle Results for the Radial Pair Distribution Function in Strongly Coupled One-Component Plasmas. Contributions To Plasma Physics, 2015, 55, 243-253.	0.5	19

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181	Notes on Anomalous Quantum Wake Effects. Contributions To Plasma Physics, 2016, 56, 442-447.	0.5	19
182	Spontaneous generation of temperature anisotropy in a strongly coupled magnetized plasma. Physical Review E, 2017, 95, 013209.	0.8	19
183	Analyzing Quantum Correlations Made Simple. Contributions To Plasma Physics, 2016, 56, 371-379.	0.5	18
184	Quantum Hydrodynamics. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 103-152.	0.1	18
185	Thermodynamics of a correlated confined plasma II. Mesoscopic system. Journal of Physics: Conference Series, 2006, 35, 94-109.	0.3	17
186	Tuning correlations in multi-component plasmas. Plasma Physics and Controlled Fusion, 2010, 52, 124013.	0.9	17
187	Few-particle quantum dynamics—comparing nonequilibrium Green functions with the generalized Kadanoff—Baym ansatz to density operator theory. Journal of Physics: Conference Series, 2013, 427, 012008.	0.3	17
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