

Michael Bonitz

List of Publications by Year in descending order

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420
papers

11,349
citations

31976

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60623

81
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431
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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.	2.1	336
2	Complex plasmas: a laboratory for strong correlations. <i>Reports on Progress in Physics</i> , 2010, 73, 066501.	20.1	336
3	Wigner Crystallization in Mesoscopic 2D Electron Systems. <i>Physical Review Letters</i> , 2001, 86, 3851-3854.	7.8	266
4	The uniform electron gas at warm dense matter conditions. <i>Physics Reports</i> , 2018, 744, 1-86.	25.6	177
5	Real-Time Kadanoff-Baym Approach to Plasma Oscillations in a Correlated Electron Gas. <i>Physical Review Letters</i> , 2000, 84, 1768-1771.	7.8	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.	7.8	139
8	Quantum Monte Carlo Simulation of the Warm Dense Electron Gas in the Thermodynamic Limit. <i>Physical Review Letters</i> , 2016, 117, 156403.	7.8	136
9	Structural Properties of Screened Coulomb Balls. <i>Physical Review Letters</i> , 2006, 96, 075001.	7.8	129
10	Theoretical foundations of quantum hydrodynamics for plasmas. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	119
11	Thermodynamic Results for the Degenerate Electron Gas at Finite Temperature. <i>Physical Review Letters</i> , 2015, 115, 130402.	7.8	114
12	Ab initio simulation of warm dense matter. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	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.	2.1	112
14	On the wake structure in streaming complex plasmas. <i>New Journal of Physics</i> , 2012, 14, 053016.	2.9	108
15	Temperature-dependent quantum pair potentials and their application to dense partially ionized hydrogen plasmas. <i>Physical Review E</i> , 2004, 70, 046411.	2.1	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.	7.8	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, .	1.9	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.	3.0	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.	2.9	92
21	Characteristics and impact of the Matthew effect for countries. <i>Scientometrics</i> , 1997, 40, 407-422.	3.0	90
22	Crystallization in Two-Component Coulomb Systems. <i>Physical Review Letters</i> , 2005, 95, 235006.	7.8	88
23	Nonequilibrium Green's Functions Approach to Inhomogeneous Systems. <i>Lecture Notes in Physics</i> , 2013, , .	0.7	88
24	Structure of spherical three-dimensional Coulomb crystals. <i>Physical Review E</i> , 2005, 71, 046403.	2.1	86
25	Binding energies of positive and negative trions: From quantum wells to quantum dots. <i>Physical Review B</i> , 2005, 72, .	3.2	86
26	Is Diffusion Anomalous in Two-Dimensional Yukawa Liquids?. <i>Physical Review Letters</i> , 2009, 103, 195001.	7.8	84
27	Classical and quantum Coulomb crystals. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	82
28	Diffusion in a Strongly Coupled Magnetized Plasma. <i>Physical Review Letters</i> , 2011, 107, 135003.	7.8	81
29	Quantum Hydrodynamics for Plasmas - a Thomas-Fermi Theory Perspective. <i>Contributions To Plasma Physics</i> , 2015, 55, 437-443.	1.1	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, .	3.2	80
31	Plasma Phase Transition in Fluid Hydrogen-Helium Mixtures. <i>Contributions To Plasma Physics</i> , 1995, 35, 109-125.	1.1	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.	1.8	78
33	Time-dependent restricted-active-space configuration-interaction method for the photoionization of many-electron atoms. <i>Physical Review A</i> , 2012, 86, .	2.5	78
34	Kadanoff-Baym equations with initial correlations. <i>Physical Review E</i> , 1999, 59, 1557-1562.	2.1	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.	1.1	76

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37	Quantum hydrodynamics for plasmasâ€™ <i>Quo vadis</i> ? Physics of Plasmas, 2019, 26, .	1.9	76
38	Berezinskii-Kosterlitz-Thouless Transition in Two-Dimensional Dipole Systems. Physical Review Letters, 2010, 105, 070401.	7.8	70
39	Introduction to Complex Plasmas. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , .	0.2	68
40	<i>Ab initio</i> quantum Monte Carlo simulations of the uniform electron gas without fixed nodes. Physical Review B, 2016, 93, .	3.2	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.	3.0	64
42	Efficient grid-based method in nonequilibrium Greenâ€™s function calculations: Application to model atoms and molecules. Physical Review A, 2010, 81, .	2.5	63
43	Hubbard nanoclusters far from equilibrium. Physical Review B, 2014, 90, .	3.2	63
44	Time-dependent second-order Born calculations for model atoms and molecules in strong laser fields. Physical Review A, 2010, 82, .	2.5	62
45	Permutation blocking path integral Monte Carlo approach to the uniform electron gas at finite temperature. Journal of Chemical Physics, 2015, 143, 204101.	3.0	61
46	Harmonics generation in electron-ion collisions in a short laser pulse. Physical Review E, 2001, 64, 026405.	2.1	60
47	Monte Carlo results for the hydrogen Hugoniot. Physical Review E, 2004, 70, 057401.	2.1	60
48	Ground state of a confined Yukawa plasma. Physical Review E, 2006, 74, 056403.	2.1	60
49	Fermionic path-integral Monte Carlo results for the uniform electron gas at finite temperature. Physical Review E, 2015, 91, 033108.	2.1	60
50	<i>Ab initio</i> quantum Monte Carlo simulation of the warm dense electron gas. Physics of Plasmas, 2017, 24, .	1.9	59
51	Coupling strength in Coulomb and Yukawa one-component plasmas. Physics of Plasmas, 2014, 21, .	1.9	58
52	Phase transition in strongly degenerate hydrogen plasma. JETP Letters, 2001, 74, 384-387.	1.4	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.	2.6	57
54	Magnetizing a Complex Plasma without a Magnetic Field. Physical Review Letters, 2012, 109, 155003.	7.8	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, .	3.2	54
56	High-density phenomena in hydrogen plasma. <i>JETP Letters</i> , 2000, 72, 245-248.	1.4	53
57	Nonequilibrium Green's function approach to strongly correlated few-electron quantum dots. <i>Physical Review B</i> , 2009, 79, .	3.2	53
58	Non-invasive determination of the parameters of strongly coupled 2D Yukawa liquids. <i>Physics of Plasmas</i> , 2011, 18, 063701.	1.9	53
59	Attractive forces between ions in quantum plasmas: Failure of linearized quantum hydrodynamics. <i>Physical Review E</i> , 2013, 87, .	2.1	53
60	Advanced fluid modeling and PIC/MCC simulations of low-pressure ccrf discharges. <i>Plasma Sources Science and Technology</i> , 2017, 26, 044001.	3.1	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, .	3.2	53
62	Nonlinear Electronic Density Response in Warm Dense Matter. <i>Physical Review Letters</i> , 2020, 125, 085001.	7.8	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.	3.2	52
64	Quantum Kinetic Theory for Laser Plasmas. Dynamical Screening in Strong Fields. <i>Contributions To Plasma Physics</i> , 1999, 39, 329-347.	1.1	52
65	Wake Formation and Wake Field Effects in Complex Plasmas. <i>Contributions To Plasma Physics</i> , 2012, 52, 804-812.	1.1	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.	1.5	51
67	Melting of Trapped Few-Particle Systems. <i>Physical Review Letters</i> , 2008, 100, 113401.	7.8	51
68	Dynamics of strongly correlated fermions: <i>Ab initio</i> results for two and three dimensions. <i>Physical Review B</i> , 2016, 93, .	3.2	51
69	Structural characteristics of strongly coupled ions in a dense quantum plasma. <i>Physical Review E</i> , 2018, 98, 023207.	2.1	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.	2.1	49
71	Superdiffusion in quasi-two-dimensional Yukawa liquids. <i>Physical Review E</i> , 2008, 78, 026409.	2.1	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.	3.0	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.	1.3	49
74	Melting scenarios for three-dimensional dusty plasma clusters. <i>Physical Review E</i> , 2011, 84, 056402.	2.1	48
75	Achieving the Scaling Limit for Nonequilibrium Green Functions Simulations. <i>Physical Review Letters</i> , 2020, 124, 076601.	7.8	48
76	Kadanoff–Baym equations and non-Markovian Boltzmann equation in generalized T-matrix approximation. <i>Journal of Mathematical Physics</i> , 2000, 41, 7458-7467.	1.1	47
77	Nonequilibrium Green Functions Approach to Strongly Correlated Fermions in Lattice Systems. <i>Contributions To Plasma Physics</i> , 2016, 56, 5-91.	1.1	47
78	Non-Markovian Boltzmann Equation. <i>Annals of Physics</i> , 1997, 258, 320-359.	2.8	46
79	Laser heating of finite two-dimensional dust clusters: A. Experiments. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	46
80	Existence and Vanishing of the Breathing Mode in Strongly Correlated Finite Systems. <i>Physical Review Letters</i> , 2008, 101, 045002.	7.8	44
81	Path integral Monte Carlo simulation of degenerate electrons: Permutation-cycle properties. <i>Journal of Chemical Physics</i> , 2019, 151, 014108.	3.0	44
82	Path Integral Simulations of Crystallization of Quantum Confined Electrons. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 231-234.	1.5	43
83	Magnetoplasmons in Rotating Dusty Plasmas. <i>Physical Review Letters</i> , 2013, 111, 155002.	7.8	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.	2.1	43
85	Nonlinear Magnetoplasmons in Strongly Coupled Yukawa Plasmas. <i>Physical Review Letters</i> , 2010, 105, 055002.	7.8	42
86	Dynamic properties of the warm dense electron gas based on ab initio path integral Monte Carlo simulations. <i>Physical Review B</i> , 2020, 102, .	3.2	42
87	Ground state of a confined Yukawa plasma including correlation effects. <i>Physical Review E</i> , 2007, 76, 036404.	2.1	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.	2.1	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 electron–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.	1.9	39
92	Dynamics of two-dimensional one-component and binary Yukawa systems in a magnetic field. <i>Physical Review E</i> , 2014, 89, 013105.	2.1	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, .	3.2	37
95	Evidence for Chirped Auger-Electron Emission. <i>Physical Review Letters</i> , 2012, 108, 253003.	7.8	37
96	Towards ab Initio Thermodynamics of the Electron Gas at Strong Degeneracy. <i>Contributions To Plasma Physics</i> , 2015, 55, 136-143.	1.1	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.	1.1	37
98	Dynamical structure factor of strongly coupled ions in a dense quantum plasma. <i>Physical Review E</i> , 2019, 99, 053203.	2.1	37
99	Screened Coulomb potential in a flowing magnetized plasma. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 025004.	2.1	36
100	Ultrafast dynamics of strongly correlated fermionsâ€™ nonequilibrium Green functions and selfenergy approximations. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 103001.	1.8	36
101	Thermodynamic Properties and Plasma Phase Transition in dense Hydrogen. <i>Contributions To Plasma Physics</i> , 2004, 44, 388-394.	1.1	35
102	Ion-streaming induced order transition in three-dimensional dust clusters. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 045011.	2.1	35
103	Oscillation Spectrum of a Magnetized Strongly Coupled One-Component Plasma. <i>Physical Review Letters</i> , 2012, 108, 255002.	7.8	35
104	Ion potential in warm dense matter: Wake effects due to streaming degenerate electrons. <i>Physical Review E</i> , 2015, 91, 023102.	2.1	35
105	Stopping dynamics of ions passing through correlated honeycomb clusters. <i>Physical Review B</i> , 2016, 94, .	3.2	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, .	3.2	35
107	Density response of the warm dense electron gas beyond linear response theory: Excitation of harmonics. <i>Physical Review Research</i> , 2021, 3, .	3.6	35
108	3D Coulomb balls: experiment and simulation. <i>Journal of Physics: Conference Series</i> , 2005, 11, 234-247.	0.4	34

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109	Shell Structure of Yukawa Balls. Contributions To Plasma Physics, 2007, 47, 281-290.	1.1	34
110	Towards an integrated modeling of the plasma-solid interface. Frontiers of Chemical Science and Engineering, 2019, 13, 201-237.	4.4	34
111	Restricted configuration path integral Monte Carlo. Journal of Chemical Physics, 2020, 153, 124114.	3.0	34
112	Correlation effects in partially ionized mass asymmetric electron-hole plasmas. Physical Review E, 2007, 75, 036401.	2.1	33
113	How Spherical Plasma Crystals Form. Physical Review Letters, 2010, 104, 015001.	7.8	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.	2.5	33
115	Effect of correlations on heat transport in a magnetized strongly coupled plasma. Physical Review E, 2015, 92, 063105.	2.1	32
116	Non-Lorentzian spectral functions for Coulomb quantum kinetics. European Physical Journal B, 1999, 9, 309-314.	1.5	31
117	Quantum breathing mode of trapped bosons and fermions at arbitrary coupling. Physical Review B, 2009, 80, .	3.2	31
118	Collective and single-particle excitations in two-dimensional dipolar Bose gases. Physical Review A, 2012, 86, .	2.5	31
119	Magnetized strongly coupled plasmas and how to realize them in a dusty plasma setup. Plasma Sources Science and Technology, 2013, 22, 015007.	3.1	31
120	Color path-integral Monte-Carlo simulations of quark-gluon plasma: Thermodynamic and transport properties. Physical Review C, 2013, 87, .	2.9	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.	2.5	31
122	Self-diffusion in two-dimensional quasimagnetized rotating dusty plasmas. Physical Review E, 2019, 99, 013203.	2.1	31
123	Ab initio results for the plasmon dispersion and damping of the warm dense electron gas. Contributions To Plasma Physics, 2020, 60, e202000147.	1.1	31
124	Probability of metastable configurations in spherical three-dimensional Yukawa crystals. Physical Review E, 2008, 78, 036408.	2.1	30
125	Multiconfigurational time-dependent Hartree-Fock calculations for photoionization of one-dimensional Helium. Journal of Physics: Conference Series, 2010, 220, 012019.	0.4	30
126	Phase Diagram of Bilayer Electronâ€“Hole Plasmas. Contributions To Plasma Physics, 2012, 52, 819-826.	1.1	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.	1.1	30
128	Dynamical Screening and Wake Effects in Classical, Quantum, and Ultrarelativistic Plasmas. Contributions To Plasma Physics, 2015, 55, 186-191.	1.1	30
129	Permutation blocking path integral Monte Carlo simulations of degenerate electrons at finite temperature. Contributions To Plasma Physics, 2019, 59, e201800157.	1.1	30
130	Two-temperature relaxation in nonideal partially ionized plasmas. Physics of Plasmas, 1996, 3, 1241-1249.	1.9	29
131	Dynamics of strongly correlated ions in a partially ionized quantum plasma. Journal of Physics: Conference Series, 2010, 220, 012003.	0.4	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.	1.3	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.	1.9	28
135	Molecular dynamics simulation of gold cluster growth during sputter deposition. Journal of Applied Physics, 2016, 119, .	2.5	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.	1.1	28
137	Higher harmonics of the magnetoplasmon in strongly coupled Coulomb and Yukawa systems. Physical Review E, 2011, 83, 046403.	2.1	27
138	Crystallization of an exciton superfluid. Physical Review B, 2011, 84, .	3.2	27
139	Non-Maxwellian and magnetic field effects in complex plasma wakes. European Physical Journal D, 2018, 72, 1.	1.3	27
140	Dynamical properties and plasmon dispersion of a weakly degenerate correlated one-component plasma. Physical Review E, 2001, 64, 016409.	2.1	26
141	Interacting electrons in a one-dimensional random array of scatterers: A quantum dynamics and Monte Carlo study. Physical Review B, 2002, 65, .	3.2	26
142	Quantum breathing mode of interacting particles in a one-dimensional harmonic trap. Physical Review B, 2012, 86, .	3.2	26
143	Ultrafast dynamics of finite Hubbard clusters: A stochastic mean-field approach. Physical Review B, 2014, 90, .	3.2	26
144	Ion potential in nonideal dense quantum plasmas. Contributions To Plasma Physics, 2017, 57, 532-538.	1.1	26

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145	Short-time dynamics with initial correlations. <i>Physical Review E</i> , 2001, 63, 020102.	2.1	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, .	3.2	25
148	Theoretical description of Coulomb balls: Fluid phase. <i>Physical Review E</i> , 2009, 80, 066405.	2.1	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.	1.1	25
150	Correlated Topological States in Graphene Nanoribbon Heterostructures. <i>Nano Letters</i> , 2019, 19, 9045-9050.	9.1	25
151	Theory of plasmons in quasi-one-dimensional degenerate plasmas. <i>Physical Review E</i> , 1994, 49, 5535-5545.	2.1	24
152	T-matrix approach to equilibrium and nonequilibrium carrier-carrier scattering in semiconductors. <i>Physical Review B</i> , 1999, 59, 10639-10650.	3.2	24
153	Electronic double excitations in quantum wells: Solving the two-time Kadanoff-Baym equations. <i>Europhysics Letters</i> , 2012, 98, 67002.	2.0	24
154	Wave spectra of a strongly coupled magnetized one-component plasma: Quasilocated charge approximation versus harmonic lattice theory and molecular dynamics. <i>Physical Review E</i> , 2013, 87, 043102.	2.1	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.	7.8	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.	2.1	24
157	Structural and dynamical properties of Yukawa balls. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B109-B116.	2.1	23
158	Ground states of finite spherical Yukawa crystals. <i>New Journal of Physics</i> , 2008, 10, 093019.	2.9	23
159	Theoretical description of field-assisted postcollision interaction in Auger decay of atoms. <i>Physical Review A</i> , 2012, 85, .	2.5	23
160	Phase Transitions of Finite Dust Clusters in Dusty Plasmas. <i>Contributions To Plasma Physics</i> , 2012, 52, 795-803.	1.1	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, .	2.1	23
162	Crystallization in Mass-Asymmetric Electron-Hole Bilayers. <i>Contributions To Plasma Physics</i> , 2007, 47, 335-344.	1.1	22

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163	Controlling the spatial distribution of superfluidity in radially ordered Coulomb clusters. Physical Review B, 2008, 77, .	3.2	22
164	Laser heating of finite two-dimensional dust clusters: B. Simulations. Physics of Plasmas, 2012, 19, 023701.	1.9	22
165	Superfluidity of strongly correlated bosons in two- and three-dimensional traps. Physical Review B, 2015, 91, .	3.2	22
166	Doublon Formation by Ions Impacting a Strongly Correlated Finite Lattice System. Physical Review Letters, 2018, 121, 267602.	7.8	22
167	Time-dependent simulation of ion stopping: Charge transfer and electronic excitations. Contributions To Plasma Physics, 2019, 59, e201800184.	1.1	22
168	Correlation time approximation in non-Markovian kinetics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 221, 85-93.	2.1	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.	1.1	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, .	2.5	21
172	The generalized Kadanoff-Baym ansatz. Computing nonlinear response properties of finite systems. Journal of Physics: Conference Series, 2013, 427, 012006.	0.4	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.	1.1	21
174	Carrier-acoustic plasmon instability in semiconductor quantum wires. Physical Review Letters, 1993, 70, 3788-3791.	7.8	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.	0.9	20
176	Towards a Particle Based Simulation of Complex Plasma Driven Nanocomposite Formation. Contributions To Plasma Physics, 2012, 52, 890-898.	1.1	20
177	Magnetic Field Blocks Two-Dimensional Crystallization in Strongly Coupled Plasmas. Physical Review Letters, 2013, 111, 065001.	7.8	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.	2.9	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.	1.1	19

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181	Notes on Anomalous Quantum Wake Effects. Contributions To Plasma Physics, 2016, 56, 442-447.	1.1	19
182	Spontaneous generation of temperature anisotropy in a strongly coupled magnetized plasma. Physical Review E, 2017, 95, 013209.	2.1	19
183	Analyzing Quantum Correlations Made Simple. Contributions To Plasma Physics, 2016, 56, 371-379.	1.1	18
184	Quantum Hydrodynamics. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 103-152.	0.2	18
185	Thermodynamics of a correlated confined plasma II. Mesoscopic system. Journal of Physics: Conference Series, 2006, 35, 94-109.	0.4	17
186	Tuning correlations in multi-component plasmas. Plasma Physics and Controlled Fusion, 2010, 52, 124013.	2.1	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.	0.4	17
188	Path integral Monte Carlo results for Bose condensation of mesoscopic indirect excitons. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2457-2460.	0.8	16
189	Formation of magnetic nanocolumns during vapor phase deposition of a metal-polymer nanocomposite: Experiments and kinetic Monte Carlo simulations. Journal of Applied Physics, 2013, 114, .	2.5	16
190	Dynamics of strongly correlated and strongly inhomogeneous plasmas. Physical Review E, 2014, 90, 011101.	2.1	16
191	Thermodynamics of the Quark—Gluon Plasma at Finite Chemical Potential: Color Path Integral Monte Carlo Results. Contributions To Plasma Physics, 2015, 55, 203-208.	1.1	16
192	Ion Impact Induced Ultrafast Electron Dynamics in Finite Graphene—Type Hubbard Clusters. Physica Status Solidi (B): Basic Research, 2019, 256, 1800490.	1.5	16
193	Evolution of the entropy of stationary states in selforganization processes in the control parameter space. European Physical Journal B, 1988, 70, 241-249.	1.5	15
194	Strongly correlated indirect excitons in quantum wells in high electric fields. Journal of Physics: Conference Series, 2006, 35, 197-208.	0.4	15
195	Spectral Line Shape Variations in Time-Resolved Photoemission from a Solid. Physical Review Letters, 2007, 99, 247601.	7.8	15
196	Complex plasmas: forces and dynamical behaviour. Plasma Physics and Controlled Fusion, 2008, 50, 124003.	2.1	15
197	Dynamics of Hubbard Nano—Clusters Following Strong Excitation. Contributions To Plasma Physics, 2013, 53, 778-787.	1.1	15
198	Resolving structural transitions in spherical dust clusters. Physical Review E, 2015, 91, 043104.	2.1	15

#	ARTICLE	IF	CITATIONS
199	Correlation effects in strong-field ionization of heteronuclear diatomic molecules. <i>Physical Review A</i> , 2016, 93, .	2.5	15
200	Magnetic field effects and waves in complex plasmas. <i>European Physical Journal D</i> , 2018, 72, 1.	1.3	15
201	Momentum distribution function and short-range correlations of the warm dense electron gas: <i>Ab initio</i> quantum Monte Carlo results. <i>Physical Review E</i> , 2021, 103, 053204.	2.1	15
202	Introduction to Quantum Plasmas. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2010, , 41-77.	0.2	15
203	Shock physics in warm dense matter: A quantum hydrodynamics perspective. <i>Contributions To Plasma Physics</i> , 2022, 62, .	1.1	15
204	Dynamically screened ladder approximation: Simultaneous treatment of strong electronic correlations and dynamical screening out of equilibrium. <i>Physical Review B</i> , 2022, 105, .	3.2	15
205	Short-time dynamics of correlated many-particle systems: Molecular dynamics versus quantum kinetics. <i>Physical Review E</i> , 1997, 56, 1246-1249.	2.1	14
206	Quantum kinetic theory of plasmas in strong laser fields. <i>Laser and Particle Beams</i> , 2000, 18, 535-540.	1.0	14
207	Nonequilibrium plasmons in optically excited semiconductors. <i>Physical Review B</i> , 2000, 62, 15724-15734.	3.2	14
208	Thermodynamics of Hydrogen and Hydrogen-Helium Plasmas: Path Integral Monte Carlo Calculations and Chemical Picture. <i>Contributions To Plasma Physics</i> , 2005, 45, 258-265.	1.1	14
209	Anomalous and Fickian Diffusion in Two-Dimensional Dusty Plasmas. <i>Contributions To Plasma Physics</i> , 2009, 49, 760-764.	1.1	14
210	Quantum Kinetic Approach to Time-Resolved Photoionization of Atoms. <i>Contributions To Plasma Physics</i> , 2010, 50, 54-59.	1.1	14
211	Electronic correlations in double ionization of atoms in pump-probe experiments. <i>Europhysics Letters</i> , 2010, 91, 53001.	2.0	14
212	Collective excitations of a spherically confined Yukawa plasma. <i>Physical Review E</i> , 2011, 83, 056401.	2.1	14
213	Femtosecond Electron Dynamics in Graphene Nanoribbons – A Nonequilibrium Green Functions Approach Within an Extended Hubbard Model. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800498.	1.5	14
214	Thermodynamics of the uniform electron gas: Fermionic path integral Monte Carlo simulations in the restricted grand canonical ensemble. <i>Contributions To Plasma Physics</i> , 0, , e202100112.	1.1	14
215	Towards a quantum fluid theory of correlated many-fermion systems from first principles. <i>SciPost Physics</i> , 2022, 12, .	4.9	14
216	Notes on a fast time analyzer for short lifetime measurements. <i>Nuclear Instruments & Methods</i> , 1960, 9, 13-20.	1.2	13

#	ARTICLE	IF	CITATIONS
217	Evidence for j-forbidden isomeric transition in ^{208}Bi . Nuclear Physics A, 1968, 115, 219-224.	1.5	13
218	Path Integral Simulations of the Thermodynamic Properties of Quantum Dense Plasma. Contributions To Plasma Physics, 2001, 41, 135-138.	1.1	13
219	Single-electron control of Wigner crystallization. Microelectronic Engineering, 2002, 63, 141-145.	2.4	13
220	Internal energy of high-density hydrogen: Analytic approximations compared with path integral Monte Carlo calculations. Journal of Experimental and Theoretical Physics, 2003, 96, 465-479.	0.9	13
221	Quantum Stark confined strongly correlated indirect excitons in quantum wells. Physica Status Solidi (B): Basic Research, 2006, 243, 2363-2366.	1.5	13
222	Nonequilibrium properties of strongly correlated artificial atoms—a Green's functions approach. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214020.	2.1	13
223	Thermodynamic properties and electrical conductivity of strongly correlated plasma media. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214002.	2.1	13
224	Structure and Phase Transitions of Yukawa Balls. Contributions To Plasma Physics, 2009, 49, 281-302.	1.1	13
225	Spectral properties of spherically confined dusty plasma crystals. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214023.	2.1	13
226	Shell Structure of Confined Charges at Strong Coupling. Contributions To Plasma Physics, 2010, 50, 26-30.	1.1	13
227	Diffusion and Growth of Metal Clusters in Nanocomposites: A Kinetic Monte Carlo Study. Contributions To Plasma Physics, 2011, 51, 971-980.	1.1	13
228	Color path-integral Monte Carlo simulations of quark-gluon plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1096-1101.	2.1	13
229	Charge Correlations in a Harmonic Trap. Contributions To Plasma Physics, 2012, 52, 45-48.	1.1	13
230	Quantum breathing mode of trapped systems in one and two dimensions. New Journal of Physics, 2014, 16, 013001.	2.9	13
231	Three-quasiparticle excitations in ^{175}Yb . Nuclear Physics A, 1969, 130, 333-341.	1.5	12
232	Reaction and diffusion in dense nonideal plasmas. Physics of Fluids B, 1993, 5, 216-229.	1.7	12
233	Impossibility of plasma instabilities in isotropic quantum plasmas. Physics of Plasmas, 1994, 1, 832-833.	1.9	12
234	Monte Carlo simulations of dense quantum plasmas. Journal of Physics A, 2006, 39, 4421-4429.	1.6	12

#	ARTICLE	IF	CITATIONS
235	Fluid modes of a spherically confined Yukawa plasma. <i>Physical Review E</i> , 2010, 82, 036407.	2.1	12
236	Recent Progress in Complex Plasmas. <i>Contributions To Plasma Physics</i> , 2012, 52, 789-794.	1.1	12
237	Controlling strongly correlated dust clusters with lasers. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 383001.	2.8	12
238	Linear Fluid Theory for Weakly Inhomogeneous Plasmas with Strong Correlations. <i>Contributions To Plasma Physics</i> , 2015, 55, 352-359.	1.1	12
239	Cage correlation and diffusion in strongly coupled three-dimensional Yukawa systems in magnetic fields. <i>Physical Review E</i> , 2016, 93, 063209.	2.1	12
240	Impact of collisions on the dust wake potential with Maxwellian and non-Maxwellian ions. <i>Physics of Plasmas</i> , 2017, 24, 102130.	1.9	12
241	Semiconductor Kadanoff-Baym Equation Results for Optically Excited Electron-Hole Plasmas in Quantum Wells. , 1998, 206, 197.		12
242	Wigner Function Quantum Molecular Dynamics. , 2008, , 41-60.		12
243	Impact ionization rates of semiconductors in an electric field: The effect of collisional broadening. <i>Journal of Applied Physics</i> , 2001, 90, 829-836.	2.5	11
244	Ground state and structural transitions in mesoscopic electron hole bilayers. <i>Contributions To Plasma Physics</i> , 2003, 43, 285-289.	1.1	11
245	Equilibrium and dynamical properties of few particle systems in bilayers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 1518-1522.	0.8	11
246	Progress in Nonequilibrium Green's Functions III. <i>Journal of Physics: Conference Series</i> , 2006, 35, .	0.4	11
247	Comment on "Self-Diffusion in 2D Dusty-Plasma Liquids: Numerical-Simulation Results"; <i>Physical Review Letters</i> , 2009, 103, 099501; author reply 099502.	7.8	11
248	A plasma of magnetic monopoles. <i>Nature Physics</i> , 2011, 7, 192-194.	16.7	11
249	Kinetic theory for quantum plasmas. , 2012, , .		11
250	Crystal and fluid modes in three-dimensional finite dust clouds. <i>New Journal of Physics</i> , 2013, 15, 113021.	2.9	11
251	Sum rules and exact inequalities for strongly coupled one-component plasmas. <i>Contributions To Plasma Physics</i> , 2018, 58, 967-975.	1.1	11
252	Multiple undamped acoustic plasmons in three-dimensional two-component nonequilibrium plasmas. <i>Physical Review B</i> , 1994, 49, 2174-2176.	3.2	10

#	ARTICLE	IF	CITATIONS
253	Nonlinear carrier-plasmon interaction in a one-dimensional quantum plasma. <i>Physical Review B</i> , 1994, 50, 15095-15098.	3.2	10
254	Quantum kinetic equations, memory effects, conservation laws. <i>Physica B: Condensed Matter</i> , 1996, 228, 72-77.	2.7	10
255	Generalized Kadanoff-Baym Theory for Non-Equilibrium Many-Body Systems in External Fields. An Effective Multi-Band Approach. <i>Contributions To Plasma Physics</i> , 1999, 39, 37-40.	1.1	10
256	Path integral Monte Carlo calculations of helium and hydrogen-helium plasma thermodynamics and of the deuterium shock Hugoniot. <i>Journal of Physics A</i> , 2006, 39, 4447-4452.	1.6	10
257	Equation of State of Strongly Coupled Quark-Gluon Plasma - Path Integral Monte Carlo Results. <i>Contributions To Plasma Physics</i> , 2009, 49, 536-543.	1.1	10
258	Towards a theory of an attosecond transient recorder. <i>Physical Review A</i> , 2009, 80, .	2.5	10
259	Quantum breathing mode of interacting particles in harmonic traps. <i>Journal of Physics: Conference Series</i> , 2010, 220, 012013.	0.4	10
260	Nonequilibrium Green function approach to photoionization processes in atoms. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 513-519.	2.7	10
261	Heat transport in confined strongly coupled two-dimensional dust clusters. <i>Physics of Plasmas</i> , 2013, 20, 073701.	1.9	10
262	Obliquely propagating waves in the magnetized strongly coupled one-component plasma. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	10
263	Instabilities and inaccuracies of multi-configuration time-dependent Hartree-Fock. <i>Journal of Physics: Conference Series</i> , 2016, 696, 012009.	0.4	10
264	Time reversal invariance of quantum kinetic equations: Nonequilibrium Green functions formalism. <i>Journal of Mathematical Physics</i> , 2017, 58, 061903.	1.1	10
265	Time-reversal invariance of quantum kinetic equations II: Density operator formalism. <i>Contributions To Plasma Physics</i> , 2018, 58, 1036-1046.	1.1	10
266	The multidimensional space of Scientometrics; The Derek John de Solla Price awards 1984-1993. <i>Scientometrics</i> , 1994, 29, 3-14.	3.0	9
267	Quantum Kinetic Theory of Laser Plasmas. <i>Contributions To Plasma Physics</i> , 2001, 41, 259-262.	1.1	9
268	Mesoscopic Two-Dimensional Electron Crystals in Single and Double Layers. <i>Contributions To Plasma Physics</i> , 2001, 41, 357-362.	1.1	9
269	Plasma phase transition in hydrogen and electron-hole plasmas. <i>Contributions To Plasma Physics</i> , 2003, 43, 290-294.	1.1	9
270	Thermodynamics and correlation functions of an ultracold nonideal Rydberg plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 98, 719-727.	0.9	9

#	ARTICLE	IF	CITATIONS
271	Vacuum Particle Creation: Analogy with the Bloch Theory in Solid State Physics. Contributions To Plasma Physics, 2009, 49, 575-584.	1.1	9
272	Proton Crystallization in a Dense Hydrogen Plasma. Contributions To Plasma Physics, 2012, 52, 224-228.	1.1	9
273	Comment on "On the unphysical solutions of the Kadanoff-Baym equations in linear response: Correlation-induced homogeneous density-distribution and attractors". Physical Review B, 2017, 96, .	3.2	9
274	Effect of the dynamical collision frequency on quantum wakefields. Contributions To Plasma Physics, 2019, 59, e201800161.	1.1	9
275	BBGKY Approach to Non-Markovian Semiconductor Bloch Equations. Physica Status Solidi (B): Basic Research, 1998, 206, 181-187.	1.5	8
276	Generalized T-Matrix Approximation in Quantum Kinetic Equations. Contributions To Plasma Physics, 2002, 42, 31-35.	1.1	8
277	Effective potentials and Yuri Lvovich Klimontovich. Journal of Physics: Conference Series, 2005, 11, 131-138.	0.4	8
278	Short-time kinetics and initial correlations in quantum kinetic theory. Journal of Physics: Conference Series, 2005, 11, 1-13.	0.4	8
279	Energy spectrum of strongly correlated particles in quantum dots. Journal of Physics: Conference Series, 2006, 35, 209-218.	0.4	8
280	Effective interaction potential and superfluid-solids transition of spatially indirect excitons. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214016.	2.1	8
281	Interacting bosons beyond the Gross-Pitaevskii mean field. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 420-424.	2.7	8
282	Quantum Monte Carlo Simulations of Strongly Coupled Quark-Gluon Plasma. Contributions To Plasma Physics, 2012, 52, 135-139.	1.1	8
283	Color path integral equation of state of the quark-gluon plasma at nonzero chemical potential. Plasma Physics and Controlled Fusion, 2015, 57, 044004.	2.1	8
284	Formation of polymer-based nanoparticles and nanocomposites by plasma-assisted deposition methods. European Physical Journal D, 2018, 72, 1.	1.3	8
285	Nonideality and Nonlinearity in Reaction-Diffusion Plasmas. Contributions To Plasma Physics, 1989, 29, 511-525.	1.1	7
286	Plasmon Dispersion of a Weakly Degenerate Nonideal One-Component Plasma. Contributions To Plasma Physics, 2002, 42, 37-41.	1.1	7
287	First principles approach to binding energies of excitons, trions and biexcitons in quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1441-1444.	0.8	7
288	Exciton formation and dissociation in mass-asymmetric electron-hole plasmas. Journal of Physics: Conference Series, 2005, 11, 139-146.	0.4	7

#	ARTICLE	IF	CITATIONS
289	Electric field-induced exciton localization in quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 551-555.	0.8	7
290	Finite elements and the discrete variable representation in nonequilibrium Green's function calculations. <i>Atomic and molecular models. Journal of Physics: Conference Series</i> , 2010, 220, 012020.	0.4	7
291	Quantum Color Dynamic Simulations of the Strongly Coupled Quark-Gluon Plasma. <i>Contributions To Plasma Physics</i> , 2011, 51, 322-327.	1.1	7
292	Theoretical description of spherically confined, strongly correlated Yukawa plasmas. <i>Physical Review E</i> , 2011, 84, 046407.	2.1	7
293	Vacuum particle creation under action of a strong external field: an example of irreversible behavior of a system with time reversal symmetry. <i>P-Adic Numbers, Ultrametric Analysis, and Applications</i> , 2012, 4, 319-325.	0.4	7
294	Time-dependent restricted active space Configuration Interaction theory applied to the photoionization of neon. <i>Journal of Physics: Conference Series</i> , 2013, 427, 012007.	0.4	7
295	Simulation of nanocolumn formation in a plasma environment. <i>Journal of Applied Physics</i> , 2015, 117, 014305.	2.5	7
296	Toward a Nonequilibrium Green Functions Approach to Diffusion in Strongly Coupled Finite Quantum Systems. <i>Contributions To Plasma Physics</i> , 2015, 55, 152-158.	1.1	7
297	Extending first principle plasma-surface simulations to experimentally relevant scales. <i>Plasma Sources Science and Technology</i> , 2018, 27, 064005.	3.1	7
298	Quantum Kinetic Equations: Correlation Dynamics and Selfenergy. <i>Contributions To Plasma Physics</i> , 1997, 37, 101-113.	1.1	6
299	Coulomb crystal and quantum melting in electron-hole plasmas of semiconductors under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 474-479.	1.5	6
300	Nonequilibrium Green function approach to the pair distribution function of quantum many-body systems out of equilibrium. <i>Journal of Physics: Conference Series</i> , 2013, 427, 012002.	0.4	6
301	The Energy-Autocorrelation Function in Magnetized and Unmagnetized Strongly Coupled Plasmas. <i>Contributions To Plasma Physics</i> , 2016, 56, 246-252.	1.1	6
302	Finite-temperature density-functional-theory investigation on the nonequilibrium transient warm-dense-matter state created by laser excitation. <i>Physical Review E</i> , 2021, 103, 013210.	2.1	6
303	Introduction to Streaming Complex Plasmas A: Attraction of Like-Charged Particles. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2014, , 51-71.	0.2	6
304	Introduction to Streaming Complex Plasmas B: Theoretical Description of Wake Effects. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2014, , 73-99.	0.2	6
305	Nonlinear interaction of external perturbations in warm dense matter. <i>Contributions To Plasma Physics</i> , 0, , .	1.1	6
306	Relaxation of temperature and chemical composition in nonideal plasmas. <i>Physics of Plasmas</i> , 1995, 2, 3214-3221.	1.9	5

#	ARTICLE	IF	CITATIONS
307	Phase transition in dense low-temperature molecular gases. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 289, 141-146.	2.1	5
308	First Principle Thermodynamic and Dynamic Simulations for Dense Quantum Plasmas. <i>Contributions To Plasma Physics</i> , 2005, 45, 450-458.	1.1	5
309	Energy spectrum of strongly correlated electrons and indirect excitons in quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2402-2405.	0.8	5
310	Quantum kinetic theory of trapped particles in a strong electromagnetic field. <i>Annals of Physics</i> , 2008, 323, 3158-3174.	2.8	5
311	Linear response for confined particles. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 214052.	2.1	5
312	Quantum potential for diffraction and exchange effects. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 3082-3092.	2.0	5
313	Strong field generalization of the interband transitions kinetics. <i>Physics of Particles and Nuclei</i> , 2010, 41, 1075-1078.	0.7	5
314	Nonequilibrium Green's Functions. <i>Lecture Notes in Physics</i> , 2013, , 15-38.	0.7	5
315	Progress in Nonequilibrium Green's Functions V (PNGF V). <i>Journal of Physics: Conference Series</i> , 2013, 427, 011001.	0.4	5
316	Role of confinements on the melting of Wigner molecules in quantum dots. <i>European Physical Journal B</i> , 2016, 89, 1.	1.5	5
317	Streaming Complex Plasmas: Ion Susceptibility for a Partially Ionized Plasma in Parallel Electric and Magnetic Fields. <i>Contributions To Plasma Physics</i> , 2016, 56, 204-214.	1.1	5
318	Microscopic modeling of gas-surface scattering. I. A combined molecular dynamics-rate equation approach. <i>Plasma Sources Science and Technology</i> , 2018, 27, 064003.	3.1	5
319	Neutralization dynamics of slow highly charged ions passing through graphene nanoflakes: An embedding self-energy approach. <i>Contributions To Plasma Physics</i> , 2022, 62, e202100041.	1.1	5
320	Progress in Nonequilibrium Green's Functions IV. <i>Journal of Physics: Conference Series</i> , 2010, 220, 011001.	0.4	5
321	Quantum fluctuations approach to the nonequilibrium GW approximation. <i>Condensed Matter Physics</i> , 2022, 25, 23401.	0.7	5
322	Plasmons and Instabilities in Quantum Plasmas. <i>Contributions To Plasma Physics</i> , 1993, 33, 536-539.	1.1	4
323	Experimental evidence for the effect of nonequilibrium acoustic plasmons on carrier relaxation in bulk semiconductors. <i>Physical Review B</i> , 1999, 60, R8453-R8456.	3.2	4
324	Quantum kinetic equations for nonideal plasmas: Bound states and ionization kinetics. <i>Physics of Plasmas</i> , 2000, 7, 59-67.	1.9	4

#	ARTICLE	IF	CITATIONS
325	Dielectric Properties of Correlated Quantum Plasmas. Contributions To Plasma Physics, 2001, 41, 155-158.	1.1	4
326	Phase transition in superdense hydrogen and deuterium. Plasma Physics Reports, 2001, 27, 1025-1031.	0.9	4
327	Contributions of Yuri L. Klimontovich to the kinetic theory of nonideal plasmas. Contributions To Plasma Physics, 2003, 43, 247-251.	1.1	4
328	Temperature estimates for quantum systems after an ionization induced rapid switch of the spin statistics. Journal of Physics A, 2003, 36, 6095-6101.	1.6	4
329	Wigner approach to quantum dynamics simulations of the interacting carriers in disordered systems. Physica Status Solidi (B): Basic Research, 2004, 241, 40-46.	1.5	4
330	Kinetic theory for metallic clusters II. Klimontovich equation approach. Journal of Physics: Conference Series, 2005, 11, 47-60.	0.4	4
331	Center-of-mass tomographic approach to quantum dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5064-5070.	2.1	4
332	Quantum simulations of strongly coupled quark-gluon plasma. Physics of Atomic Nuclei, 2011, 74, 1364-1374.	0.4	4
333	Quantum simulations of strongly coupled quark-gluon plasma. Physics of Atomic Nuclei, 2012, 75, 693-697.	0.4	4
334	A tribute to pioneers of strongly coupled plasmas: Hugh E. DeWitt, Bernard Jancovici, and Forrest J. Rogers. Contributions To Plasma Physics, 2015, 55, 102-115.	1.1	4
335	Molecular dynamics simulation of Ag-Cu cluster growth on a thin polymer film. Contributions To Plasma Physics, 2018, 58, 164-173.	1.1	4
336	Microscopic modeling of gas-surface scattering: II. Application to argon atom adsorption on a platinum (111) surface. Plasma Sources Science and Technology, 2018, 27, 064002.	3.1	4
337	LÅ¶wÅ¶in's symmetry dilemma within Green functions theory for the one-dimensional Hubbard model. Contributions To Plasma Physics, 2022, 62, e202000220.	1.1	4
338	Phase Transitions in Dusty Plasmas. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 3-49.	0.2	4
339	Kinetic Monte Carlo Simulations of Cluster Growth and Diffusion in Metal-Polymer Nanocomposites. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 321-370.	0.2	4
340	Kinetic approach to the electrical conductivity of dense plasmas in strong laser fields. European Physical Journal Special Topics, 2000, 10, Pr5-323-Pr5-326.	0.2	4
341	Dynamic structure factor of the magnetized one-component plasma: Crossover from weak to strong coupling. Physical Review Research, 2022, 4, .	3.6	4
342	Definition of the Degree of Order in Selforganization Processes. Annalen Der Physik, 1988, 500, 340-352.	2.4	3

#	ARTICLE	IF	CITATIONS
343	Diffusion and Heat Transport in a Dense Partially Ionized Plasma. Contributions To Plasma Physics, 1997, 37, 229-238.	1.1	3
344	Numerical Solution of the Quantum Landau Equation for Dense Plasmas. Contributions To Plasma Physics, 1997, 37, 499-509.	1.1	3
345	Strong Correlation (T-Matrix) Effects in Electron-Hole Plasmas in Semiconductors. Physica Status Solidi (B): Basic Research, 1998, 206, 257-263.	1.5	3
346	KADANOFF–BAYM EQUATIONS WITH INITIAL CORRELATIONS. , 2000, , .		3
347	Controlling intershell rotations in mesoscopic electron clusters. Superlattices and Microstructures, 2003, 34, 219-224.	3.1	3
348	Spontaneous emission of semiconductors in the Wigner approach. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S299-S305.	1.4	3
349	CORRELATION INDUCED HEATING AND COOLING OF MANY-BODY SYSTEMS. , 2003, , .		3
350	Interaction of Partially Ionized Plasmas with Electromagnetic Fields. Contributions To Plasma Physics, 2005, 45, 396-404.	1.1	3
351	Thermodynamics of a correlated confined plasma. I. Macroscopic system. Journal of Physics: Conference Series, 2006, 35, 78-93.	0.4	3
352	Path integral Monte Carlo calculations of dense hydrogen and helium thermodynamics. Journal of Plasma Physics, 2006, 72, 813.	2.1	3
353	<title>Nonperturbative kinetics of electron-hole excitations in strong electric field</title>. , 2007, , .		3
354	Ordered structure formation in 2D mass asymmetric electron–hole plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5208-5214.	2.1	3
355	Monte Carlo calculations of thermodynamic properties of deuterium under high pressures. Journal of Physics: Conference Series, 2008, 121, 012012.	0.4	3
356	Time Evolution from Weak to Strong Coupling in a Spherically Confined Dusty Plasma. Contributions To Plasma Physics, 2011, 51, 519-523.	1.1	3
357	Laser Driven Electron–Positron Pair Creation–Kinetic Theory Versus Analytical Approximations. Contributions To Plasma Physics, 2013, 53, 788-795.	1.1	3
358	Viscosity of confined two-dimensional Yukawa liquids: A nonequilibrium method. Physics of Plasmas, 2015, 22, 093703.	1.9	3
359	Vladimir E. Fortov (1946–2020). Contributions To Plasma Physics, 2021, 61, .	1.1	3
360	Path Integral Simulations of Crystallization of Quantum Confined Electrons. , 2000, 221, 231.		3

#	ARTICLE	IF	CITATIONS
361	Introduction to Configuration Path Integral Monte Carlo. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 153-194.	0.2	3
362	Introduction to Quantum Plasma Simulations. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , 79-107.	0.2	3
363	THERMODYNAMIC PROPERTIES OF CORRELATED STRONGLY DEGENERATE PLASMAS. , 2000, , .		3
364	Doublon production in correlated materials by multiple ion impacts. Physica Status Solidi (B): Basic Research, 0, , .	1.5	3
365	The impact of behavioral principles on the design of the system of scientific communication. Scientometrics, 1991, 20, 107-111.	3.0	2
366	Quantum kinetic theory of confined electrons in a strong time dependent field. Superlattices and Microstructures, 2003, 34, 225-229.	3.1	2
367	Quantum Generalization of Molecular Dynamics Method. Wigner Approach. Lecture Notes in Computer Science, 2004, , 402-411.	1.3	2
368	Exciton Molecules in Quantum Wells: Influence of the Well Width Fluctuations. Few-Body Systems, 2004, 34, 149.	1.5	2
369	Ionization kinetics in laser plasmas. Journal of Physics: Conference Series, 2005, 11, 25-36.	0.4	2
370	Kinetic Theory of Nonideal Plasmas. Journal of Physics: Conference Series, 2005, 11, .	0.4	2
371	Fast Electron Generation by Coulomb Scattering on Spatially Correlated Ions in a Strong Laser Field. Contributions To Plasma Physics, 2009, 49, 558-567.	1.1	2
372	A tribute to Dietrich Kremp. Contributions To Plasma Physics, 2017, 57, 434-440.	1.1	2
373	In memoriam Vladimir Evgenevich Fortov. Contributions To Plasma Physics, 2021, 61, .	1.1	2
374	Thermodynamic Properties of Nonideal Strongly Degenerate Hydrogen Plasma. AIP Conference Proceedings, 2002, , .	0.4	1
375	Electronic transport in a one-dimensional random array of scatterers. Journal of Physics A, 2003, 36, 5905-5911.	1.6	1
376	SHORT-TIME DYNAMICS OF QUANTUM MANY-BODY SYSTEMS FOLLOWING A SPIN STATISTICS SWITCH. , 2003, , .		1
377	COMBINATION OF QUANTUM KINETIC THEORY AND FIRST-PRINCIPLE SIMULATIONS FOR STRONGLY CORRELATED QUANTUM PLASMAS. , 2003, , .		1
378	A tribute to Yuri Klimontovich. Journal of Physics: Conference Series, 2005, 11, .	0.4	1

#	ARTICLE	IF	CITATIONS
379	Interaction of partially ionized plasmas with electromagnetic fields. Journal of Physics: Conference Series, 2006, 35, 53-70.	0.4	1
380	Structures of quantum 2D electron-hole plasmas. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214014.	2.1	1
381	Preface: Contrib. Plasma Phys. 7-8/2009. Contributions To Plasma Physics, 2009, 49, 430-430.	1.1	1
382	Molecular Dynamics Simulation of Strongly Correlated Dusty Plasmas. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , 231-264.	0.2	1
383	Higher Harmonic Generation in Strongly Coupled Magnetized Two-Dimensional Yukawa Liquids. IEEE Transactions on Plasma Science, 2011, 39, 2768-2769.	1.3	1
384	Total and correlation energy of the uniform polarized electron gas at finite temperature: Direct path integral simulations. Journal of Physics: Conference Series, 2015, 653, 012113.	0.4	1
385	The time-dependent generalized active space configuration interaction approach to correlated ionization dynamics of diatomic molecules. Journal of Physics: Conference Series, 2016, 696, 012008.	0.4	1
386	Increasing quality further. Contributions To Plasma Physics, 2017, 57, 49-49.	1.1	1
387	The Transregional Collaborative Research Centre "Fundamentals of Complex Plasmas" (Greifswald) Tj ETQq _{1,3} 1 0.784314 rgB ₁	1.3	1
388	Editorial: Breakthrough for open access publishing in CPP. Contributions To Plasma Physics, 2020, 60, e20190024.	1.1	1
389	Mesoscopic Two-Dimensional Electron Crystals in Single and Double Layers. , 2001, 41, 357.		1
390	Mesoscopic Two-Dimensional Electron Crystals in Single and Double Layers. Contributions To Plasma Physics, 2001, 41, 357-362.	1.1	1
391	Generalized T-Matrix Approximation in Quantum Kinetic Equations. , 2002, 42, 31.		1
392	Plasmon Dispersion of a Weakly Degenerate Nonideal One-Component Plasma. Contributions To Plasma Physics, 2002, 42, 37-41.	1.1	1
393	Response to "Comments on 'Impossibility of plasma instabilities in isotropic quantum plasmas'" [Phys. Plasmas 1, 832 (1994)]. Physics of Plasmas, 1995, 2, 1017-1018.	1.9	1
394	Suppression of the dissociative phase transition in plasma mixtures of molecular and noble gases. Plasma Physics Reports, 2002, 28, 484-488.	0.9	0
395	PATH INTEGRAL MONTE CARLO SIMULATIONS OF BOUND STATES IN SEMICONDUCTOR QUANTUM WELLS: EXCITONS, TRIONS AND BIEXCITONS. , 2003, , .		0
396	Phase transitions in dense hydrogen - helium plasmas. AIP Conference Proceedings, 2004, , .	0.4	0

#	ARTICLE	IF	CITATIONS
397	Thermodynamic properties and plasma phase transition in dense hydrogen mixtures. , 0, , .		0
398	On Phase Transition in Strongly Coupled Hydrogen Plasma. AIP Conference Proceedings, 2004, , .	0.4	0
399	Wilfried Schäfer (1951â€“2003). Journal of Physics: Conference Series, 2006, 35, .	0.4	0
400	Simulation of thermodynamic properties of dense deuterium plasma by Monte Carlo methods. , 2008, , .		0
401	Quantum dynamics in Wigner and tomography representations. , 2008, , .		0
402	Ordered structures in 2D electron-hole plasmas. , 2008, , .		0
403	Strongly coupled dusty plasmas: finite and extended systems. AIP Conference Proceedings, 2008, , .	0.4	0
404	Structure And Dynamics Of Finite Dust Clouds. AIP Conference Proceedings, 2008, , .	0.4	0
405	Quantum simulations of strongly coupled quark-gluon plasma. Physics of Particles and Nuclei Letters, 2011, 8, 823-830.	0.4	0
406	Quantum Many-Particle Systems out of Equilibrium. Lecture Notes in Physics, 2013, , 3-11.	0.7	0
407	Representations of the Nonequilibrium Greenâ€™s Function. Lecture Notes in Physics, 2013, , 41-54.	0.7	0
408	Computation of Equilibrium States and Time-Propagation. Lecture Notes in Physics, 2013, , 55-71.	0.7	0
409	Lattice Systems. Lecture Notes in Physics, 2013, , 75-82.	0.7	0
410	Non-Lattice Systems. Lecture Notes in Physics, 2013, , 83-104.	0.7	0
411	Remembering Manfred Bonitz (7.3.1931â€“14.8.2012) on the first anniversary of his death. Scientometrics, 2013, 97, 121-128.	3.0	0
412	Chirped Auger electron emission due to field-assisted post-collision interaction. EPJ Web of Conferences, 2013, 41, 02006.	0.3	0
413	Editorial: Contrib. Plasma Phys. 1/2016. Contributions To Plasma Physics, 2016, 56, 4-4.	1.1	0
414	International Conference â€œStrongly Coupled Coulomb Systemsâ€“Kiel, Germany (July) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (30		1.1

#	ARTICLE	IF	CITATIONS
415	Withstanding the Covid crisis. Contributions To Plasma Physics, 2021, 61, e202120021.	1.1	0
416	Quantum dynamics of strongly coupled particles in phase space. European Physical Journal Special Topics, 2000, 10, Pr5-145-Pr5-148.	0.2	0
417	Path Integral Monte Carlo Simulations and Analytical Approximations for High-Temperature Plasmas. Lecture Notes in Computer Science, 2001, , 1272-1281.	1.3	0
418	INTERSHELL ROTATION BARRIERS OF MESOSCOPIC 2D COULOMB CLUSTERS. , 2003, , .		0
419	Statistical Theory of Spherically Confined Dust Crystals. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , 175-201.	0.2	0
420	Collisional Plasma Wakes of Small Particles. , 2017, , .		0