Michael Bonitz

List of Publications by Year
in descending order

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420	11,349	31976	60623
papers	citations	53 h-index	81 g-index

431	431	431	2859
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	LÃ¶wdin's symmetry dilemma within Green functions theory for the oneâ€dimensional Hubbard model. Contributions To Plasma Physics, 2022, 62, e202000220.	1.1	4
2	Neutralization dynamics of slow highly charged ions passing through graphene nanoflakes: An embedding selfâ€energy approach. Contributions To Plasma Physics, 2022, 62, e202100041.	1.1	5
3	Screening of a test charge in a freeâ€electron gas at warm dense matter and dense nonâ€ideal plasma conditions. Contributions To Plasma Physics, 2022, 62, e202000176.	1.1	21
4	Shock physics in warm dense matter: A quantum hydrodynamics perspective. Contributions To Plasma Physics, 2022, 62, .	1.1	15
5	Towards a quantum fluid theory of correlated many-fermion systems from first principles. SciPost Physics, 2022, 12, .	4.9	14
6	Dynamic structure factor of the magnetized one-component plasma: Crossover from weak to strong coupling. Physical Review Research, 2022, 4, .	3.6	4
7	Dynamically screened ladder approximation: Simultaneous treatment of strong electronic correlations and dynamical screening out of equilibrium. Physical Review B, 2022, 105, .	3.2	15
8	Quantum fluctuations approach to the nonequilibrium GW approximation. Condensed Matter Physics, 2022, 25, 23401.	0.7	5
9	In memoriam Vladimir Evgenevich Fortov. Contributions To Plasma Physics, 2021, 61, .	1.1	2
10	Vladimir E. Fortov (1946â€“2020). Contributions To Plasma Physics, 2021, 61, .	1.1	3
11	Withstanding the Covid crisis. Contributions To Plasma Physics, 2021, 61, e202120021.	1.1	0
12	Momentum distribution function and short-range correlations of the warm dense electron gas: Ab initio quantum Monte Carlo results. Physical Review E, 2021, 103, 053204.	2.1	15
13	Density response of the warm dense electron gas beyond linear response theory: Excitation of harmonics. Physical Review Research, 2021, 3, .	3.6	35
14	Finite-temperature density-functional-theory investigation on the nonequilibrium transient warm-dense-matter state created by laser excitation. Physical Review E, 2021, 103, 013210.	2.1	6
15	Ultrafast dynamics of strongly correlated fermionsâ€”nonequilibrium Green functions and selfenergy approximations. Journal of Physics Condensed Matter, 2020, 32, 103001.	1.8	36
16	Restricted configuration path integral Monte Carlo. Journal of Chemical Physics, 2020, 153, 124114.	3.0	34
17	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
18	Dynamic properties of the warm dense electron gas based on abÂinitio path integral Monte Carlo simulations. Physical Review B, 2020, 102, .	3.2	42

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19	Nonlinear Electronic Density Response in Warm Dense Matter. Physical Review Letters, 2020, 125, 085001.	7.8	53
20	Ab initio simulation of warm dense matter. Physics of Plasmas, 2020, 27, .	1.9	114
21	Ion energy-loss characteristics and friction in a free-electron gas at warm dense matter and nonideal dense plasma conditions. Physical Review E, 2020, 101, 053203.	2.1	24
22	G1-G2 scheme: Dramatic acceleration of nonequilibrium Green functions simulations within the Hartree-Fock generalized Kadanoff-Baym ansatz. Physical Review B, 2020, 101, .	3.2	35
23	Achieving the Scaling Limit for Nonequilibrium Green Functions Simulations. Physical Review Letters, 2020, 124, 076601.	7.8	48
24	Editorial: Breakthrough for open access publishing in CPP. Contributions To Plasma Physics, 2020, 60, e201990024.	1.1	1
25	Path integral Monte Carlo simulation of degenerate electrons: Permutation-cycle properties. Journal of Chemical Physics, 2019, 151, 014108.	3.0	44
26	Quantum hydrodynamics for plasmasâ€"Quo vadis?. Physics of Plasmas, 2019, 26, .	1.9	76
27	Dynamical structure factor of strongly coupled ions in a dense quantum plasma. Physical Review E, 2019, 99, 053203.	2.1	37
28	Towards an integrated modeling of the plasma-solid interface. Frontiers of Chemical Science and Engineering, 2019, 13, 201-237.	4.4	34
29	Timeâ€dependent simulation of ion stopping: Charge transfer and electronic excitations. Contributions To Plasma Physics, 2019, 59, e201800184.	1.1	22
30	Ion Impact Induced Ultrafast Electron Dynamics in Finite Grapheneâ€Type Hubbard Clusters. Physica Status Solidi (B): Basic Research, 2019, 256, 1800490.	1.5	16
31	Effect of the dynamical collision frequency on quantum wakefields. Contributions To Plasma Physics, 2019, 59, e201800161.	1.1	9
32	Correlated Topological States in Graphene Nanoribbon Heterostructures. Nano Letters, 2019, 19, 9045-9050.	9.1	25
33	The static local field correction of the warm dense electron gas: An ab initio path integral Monte Carlo study and machine learning representation. Journal of Chemical Physics, 2019, 151, 194104.	3.0	64
34	Self-diffusion in two-dimensional quasimagnetized rotating dusty plasmas. Physical Review E, 2019, 99, 013203.	2.1	31
35	Femtosecond Electron Dynamics in Graphene Nanoribbons â€“ A Nonequilibrium Green Functions Approach Within an Extended Hubbard Model. Physica Status Solidi (B): Basic Research, 2019, 256, 1800498.	1.5	14
36	Permutation blocking path integral Monte Carlo simulations of degenerate electrons at finite temperature. Contributions To Plasma Physics, 2019, 59, e201800157.	1.1	30

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37	Molecular dynamics simulation of Agâ€“Cu cluster growth on a thin polymer film. Contributions To Plasma Physics, 2018, 58, 164-173.	1.1	4
38	The uniform electron gas at warm dense matter conditions. Physics Reports, 2018, 744, 1-86.	25.6	177
39	Theoretical foundations of quantum hydrodynamics for plasmas. Physics of Plasmas, 2018, 25, .	1.9	119
40	Doublon Formation by Ions Impacting a Strongly Correlated Finite Lattice System. Physical Review Letters, 2018, 121, 267602.	7.8	22
41	AbÂinitio Path Integral MonteÂCarlo Results for the Dynamic Structure Factor of Correlated Electrons: From the Electron Liquid to Warm Dense Matter. Physical Review Letters, 2018, 121, 255001.	7.8	95
42	Microscopic modeling of gas-surface scattering. I. A combined molecular dynamics-rate equation approach. Plasma Sources Science and Technology, 2018, 27, 064003.	3.1	5
43	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
44	Recent progress in the theory and simulation of strongly correlated plasmas: phase transitions, transport, quantum, and magnetic field effects. European Physical Journal D, 2018, 72, 1.	1.3	49
45	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
46	Magnetic field effects and waves in complex plasmas. European Physical Journal D, 2018, 72, 1.	1.3	15
47	Non-Maxwellian and magnetic field effects in complex plasma wakes. European Physical Journal D, 2018, 72, 1.	1.3	27
48	Structural characteristics of strongly coupled ions in a dense quantum plasma. Physical Review E, 2018, 98, 023207.	2.1	51
49	Timeâ€reversal invariance of quantum kinetic equations II: Density operator formalism. Contributions To Plasma Physics, 2018, 58, 1036-1046.	1.1	10
50	Formation of polymer-based nanoparticles and nanocomposites by plasma-assisted deposition methods. European Physical Journal D, 2018, 72, 1.	1.3	8
51	Sum rules and exact inequalities for strongly coupled oneâ€component plasmas. Contributions To Plasma Physics, 2018, 58, 967-975.	1.1	11
52	Extending first principle plasma-surface simulations to experimentally relevant scales. Plasma Sources Science and Technology, 2018, 27, 064005.	3.1	7
53	The Transregional Collaborative Research Centre â€œFundamentals of Complex Plasmasâ€•(Greifswald â€“) Tj ETQq1 1 0.784314 rgBT	1.3	1
54	Advanced fluid modeling and PIC/MCC simulations of low-pressure ccrf discharges. Plasma Sources Science and Technology, 2017, 26, 044001.	3.1	53

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55	Spontaneous generation of temperature anisotropy in a strongly coupled magnetized plasma. Physical Review E, 2017, 95, 013209.	2.1	19
56	Free energy of the uniform electron gas: Testing analytical models against firstâ€principles results. Contributions To Plasma Physics, 2017, 57, 137-146.	1.1	25
57	Increasing quality further. Contributions To Plasma Physics, 2017, 57, 49-49.	1.1	1
58	Ab initio quantum Monte Carlo simulation of the warm dense electron gas. Physics of Plasmas, 2017, 24, .	1.9	59
59	Impact of collisions on the dust wake potential with Maxwellian and non-Maxwellian ions. Physics of Plasmas, 2017, 24, 102130.	1.9	12
60	AbÂinitio Exchange-Correlation Free Energy of the Uniform Electron Gas at Warm Dense Matter Conditions. Physical Review Letters, 2017, 119, 135001.	7.8	139
61	Comment on â€œOn the unphysical solutions of the Kadanoff-Baym equations in linear response: Correlation-induced homogeneous density-distribution and attractorsâ€. Physical Review B, 2017, 96, .	3.2	9
62	Time reversal invariance of quantum kinetic equations: Nonequilibrium Green functions formalism. Journal of Mathematical Physics, 2017, 58, 061903.	1.1	10
63	Permutation-blocking path-integral Monte Carlo approach to the static density response of the warm dense electron gas. Physical Review E, 2017, 96, 023203.	2.1	43
64	Ab initio results for the static structure factor of the warm dense electron gas. Contributions To Plasma Physics, 2017, 57, 468-478.	1.1	37
65	Gradient correction and Bohm potential for twoâ€and oneâ€dimensional electron gases at a finite temperature. Contributions To Plasma Physics, 2017, 57, 499-505.	1.1	28
66	Nonequilibrium dynamics in the one-dimensional Fermi-Hubbard model: Comparison of the nonequilibrium Green-functions approach and the density matrix renormalization group method. Physical Review B, 2017, 95, .	3.2	53
67	Ion potential in nonâ€ideal dense quantum plasmas. Contributions To Plasma Physics, 2017, 57, 532-538.	1.1	26
68	Configuration path integral Monte Carlo approach to the static density response of the warm dense electron gas. Journal of Chemical Physics, 2017, 147, 164108.	3.0	49
69	A tribute to Dietrich Kremp. Contributions To Plasma Physics, 2017, 57, 434-440.	1.1	2
70	International Conference â€œStrongly Coupled Coulomb Systemsâ€•Kiel, Germany (July) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (3	1.1	0
71	Collisional Plasma Wakes of Small Particles. , 2017, , .		0
72	Notes on Anomalous Quantum Wake Effects. Contributions To Plasma Physics, 2016, 56, 442-447.	1.1	19

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73	Instabilities and inaccuracies of multi-configuration time-dependent Hartree-Fock. Journal of Physics: Conference Series, 2016, 696, 012009.	0.4	10
74	The Energyâ€Autocorrelation Function in Magnetized and Unmagnetized Strongly Coupled Plasmas. Contributions To Plasma Physics, 2016, 56, 246-252.	1.1	6
75	Analyzing Quantum Correlations Made Simple. Contributions To Plasma Physics, 2016, 56, 371-379.	1.1	18
76	Molecular dynamics simulation of gold cluster growth during sputter deposition. Journal of Applied Physics, 2016, 119, .	2.5	28
77	Stopping dynamics of ions passing through correlated honeycomb clusters. Physical Review B, 2016, 94, .	3.2	35
78	Role of confinements on the melting of Wigner molecules in quantum dots. European Physical Journal B, 2016, 89, 1.	1.5	5
79	AbÂInitioQuantum Monte Carlo Simulation of the Warm Dense Electron Gas in the Thermodynamic Limit. Physical Review Letters, 2016, 117, 156403.	7.8	136
80	Editorial: Contrib. Plasma Phys. 1/2016. Contributions To Plasma Physics, 2016, 56, 4-4.	1.1	0
81	Streaming Complex Plasmas: Ion Susceptibility for a Partially Ionized Plasma in Parallel Electric and Magnetic Fields. Contributions To Plasma Physics, 2016, 56, 204-214.	1.1	5
82	Nonequilibrium Green Functions Approach to Strongly Correlated Fermions in Lattice Systems. Contributions To Plasma Physics, 2016, 56, 5-91.	1.1	47
83	Dynamics of strongly correlated fermions:Ab initioresults for two and three dimensions. Physical Review B, 2016, 93, .	3.2	51
84	Ab initioquantum Monte Carlo simulations of the uniform electron gas without fixed nodes: The unpolarized case. Physical Review B, 2016, 93, .	3.2	54
85	Cage correlation and diffusion in strongly coupled three-dimensional Yukawa systems in magnetic fields. Physical Review E, 2016, 93, 063209.	2.1	12
86	Ab initioquantum Monte Carlo simulations of the uniform electron gas without fixed nodes. Physical Review B, 2016, 93, .	3.2	65
87	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
88	Correlation effects in strong-field ionization of heteronuclear diatomic molecules. Physical Review A, 2016, 93, .	2.5	15
89	Quantum Kinetic Theory. , 2016, , .		159
90	Quantum Hydrodynamics for Plasmas â€“ a Thomasâ€Fermi Theory Perspective. Contributions To Plasma Physics, 2015, 55, 437-443.	1.1	81

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91	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
92	Effect of correlations on heat transport in a magnetized strongly coupled plasma. Physical Review E, 2015, 92, 063105.	2.1	32
93	AbÂInitioThermodynamic Results for the Degenerate Electron Gas at Finite Temperature. Physical Review Letters, 2015, 115, 130402.	7.8	114
94	Viscosity of confined two-dimensional Yukawa liquids: A nonequilibrium method. Physics of Plasmas, 2015, 22, 093703.	1.9	3
95	Statically screened ion potential and Bohm potential in a quantum plasma. Physics of Plasmas, 2015, 22, .	1.9	94
96	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
97	Thermodynamics of the Quarkâ€Gluon Plasma at Finite Chemical Potential: Color Path Integral Monte Carlo Results. Contributions To Plasma Physics, 2015, 55, 203-208.	1.1	16
98	Linear Fluid Theory for Weakly Inhomogeneous Plasmas with Strong Correlations. Contributions To Plasma Physics, 2015, 55, 352-359.	1.1	12
99	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
100	Color path integral equation of state of the quarkâ€“gluon plasma at nonzero chemical potential. Plasma Physics and Controlled Fusion, 2015, 57, 044004.	2.1	8
101	Screened Coulomb potential in a flowing magnetized plasma. Plasma Physics and Controlled Fusion, 2015, 57, 025004.	2.1	36
102	Simulation of nanocolumn formation in a plasma environment. Journal of Applied Physics, 2015, 117, 014305.	2.5	7
103	Ion potential in warm dense matter: Wake effects due to streaming degenerate electrons. Physical Review E, 2015, 91, 023102.	2.1	35
104	Dynamical Screening and Wake Effects in Classical, Quantum, and Ultrarelativistic Plasmas. Contributions To Plasma Physics, 2015, 55, 186-191.	1.1	30
105	Fermionic path-integral Monte Carlo results for the uniform electron gas at finite temperature. Physical Review E, 2015, 91, 033108.	2.1	60
106	Resolving structural transitions in spherical dust clusters. Physical Review E, 2015, 91, 043104.	2.1	15
107	Towards ab Initio Thermodynamics of the Electron Gas at Strong Degeneracy. Contributions To Plasma Physics, 2015, 55, 136-143.	1.1	37
108	Firstâ€Principle Results for the Radial Pair Distribution Function in Strongly Coupled Oneâ€Component Plasmas. Contributions To Plasma Physics, 2015, 55, 243-253.	1.1	19

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109	Permutation blocking path integral Monte Carlo: a highly efficient approach to the simulation of strongly degenerate non-ideal fermions. New Journal of Physics, 2015, 17, 073017.	2.9	92
110	Superfluidity of strongly correlated bosons in two- and three-dimensional traps. Physical Review B, 2015, 91, .	3.2	22
111	Toward a Nonequilibrium Green Functions Approach to Diffusion in Strongly Coupled Finite Quantum Systems. Contributions To Plasma Physics, 2015, 55, 152-158.	1.1	7
112	Controlling strongly correlated dust clusters with lasers. Journal Physics D: Applied Physics, 2014, 47, 383001.	2.8	12
113	Coupling strength in Coulomb and Yukawa one-component plasmas. Physics of Plasmas, 2014, 21, .	1.9	58
114	Quantum breathing mode of trapped systems in one and two dimensions. New Journal of Physics, 2014, 16, 013001.	2.9	13
115	Quantum Breathing Mode of Trapped Particles: From Nanoplasmas to Ultracold Gases. Contributions To Plasma Physics, 2014, 54, 27-99.	1.1	30
116	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
117	Dynamics of two-dimensional one-component and binary Yukawa systems in a magnetic field. Physical Review E, 2014, 89, 013105.	2.1	39
118	Dynamics of strongly correlated and strongly inhomogeneous plasmas. Physical Review E, 2014, 90, 011101.	2.1	16
119	Ultrafast dynamics of finite Hubbard clusters: A stochastic mean-field approach. Physical Review B, 2014, 90, .	3.2	26
120	Hubbard nanoclusters far from equilibrium. Physical Review B, 2014, 90, .	3.2	63
121	Phase Transitions in Dusty Plasmas. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 3-49.	0.2	4
122	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
123	Introduction to Streaming Complex Plasmas A: Attraction of Like-Charged Particles. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 51-71.	0.2	6
124	Introduction to Streaming Complex Plasmas B: Theoretical Description of Wake Effects. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 73-99.	0.2	6
125	Quantum Hydrodynamics. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 103-152.	0.2	18
126	Introduction to Configuration Path Integral Monte Carlo. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 153-194.	0.2	3

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127	Nonequilibrium Green's Functions Approach to Inhomogeneous Systems. Lecture Notes in Physics, 2013, , .	0.7	88
128	Magnetic Field Blocks Two-Dimensional Crystallization in Strongly Coupled Plasmas. Physical Review Letters, 2013, 111, 065001.	7.8	20
129	Heat transport in confined strongly coupled two-dimensional dust clusters. Physics of Plasmas, 2013, 20, 073701.	1.9	10
130	Magnetoplasmons in Rotating Dusty Plasmas. Physical Review Letters, 2013, 111, 155002.	7.8	43
131	Laser Driven Electronâ€Positron Pair Creationâ€“Kinetic Theory Versus Analytical Approximations. Contributions To Plasma Physics, 2013, 53, 788-795.	1.1	3
132	Dynamics of Hubbard Nanoâ€€Clusters Following Strong Excitation. Contributions To Plasma Physics, 2013, 53, 778-787.	1.1	15
133	Quantum Many-Particle Systems out of Equilibrium. Lecture Notes in Physics, 2013, , 3-11.	0.7	0
134	Nonequilibrium Greenâ€™s Functions. Lecture Notes in Physics, 2013, , 15-38.	0.7	5
135	Representations of the Nonequilibrium Greenâ€™s Function. Lecture Notes in Physics, 2013, , 41-54.	0.7	0
136	Computation of Equilibrium States and Time-Propagation. Lecture Notes in Physics, 2013, , 55-71.	0.7	0
137	Lattice Systems. Lecture Notes in Physics, 2013, , 75-82.	0.7	0
138	Non-Lattice Systems. Lecture Notes in Physics, 2013, , 83-104.	0.7	0
139	Attractive forces between ions in quantum plasmas: Failure of linearized quantum hydrodynamics. Physical Review E, 2013, 87, .	2.1	53
140	Wave spectra of a strongly coupled magnetized one-component plasma: Quasilocalized charge approximation versus harmonic lattice theory and molecular dynamics. Physical Review E, 2013, 87, 043102.	2.1	24
141	Obliquely propagating waves in the magnetized strongly coupled one-component plasma. Physics of Plasmas, 2013, 20, .	1.9	10
142	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
143	Remembering Manfred Bonitz (7.3.1931â€“14.8.2012) on the first anniversary of his death. Scientometrics, 2013, 97, 121-128.	3.0	0
144	Nonequilibrium Green function approach to the pair distribution function of quantum many-body systems out of equilibrium. Journal of Physics: Conference Series, 2013, 427, 012002.	0.4	6

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145	Crystal and fluid modes in three-dimensional finite dust clouds. New Journal of Physics, 2013, 15, 113021.	2.9	11
146	Theory of the Quantum Breathing Mode in Harmonic Traps and its Use as a Diagnostic Tool. Physical Review Letters, 2013, 111, 256801.	7.8	24
147	Reply to â€œComment on â€˜Attractive forces between ions in quantum plasmas: Failure of linearized quantum hydrodynamicsâ€™ â€. Physical Review E, 2013, 87, .	2.1	23
148	Color path-integral Monte-Carlo simulations of quark-gluon plasma: Thermodynamic and transport properties. Physical Review C, 2013, 87, .	2.9	31
149	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
150	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
151	Progress in Nonequilibrium Green's Functions V (PNGF V). Journal of Physics: Conference Series, 2013, 427, 011001.	0.4	5
152	Time-dependent restricted active space Configuration Interaction theory applied to the photoionization of neon. Journal of Physics: Conference Series, 2013, 427, 012007.	0.4	7
153	Few-particle quantum dynamicsâ€“comparing nonequilibrium Green functions with the generalized Kadanoffâ€“Baym ansatz to density operator theory. Journal of Physics: Conference Series, 2013, 427, 012008.	0.4	17
154	The generalized Kadanoff-Baym ansatz. Computing nonlinear response properties of finite systems. Journal of Physics: Conference Series, 2013, 427, 012006.	0.4	21
155	Chirped Auger electron emission due to field-assisted post-collision interaction. EPJ Web of Conferences, 2013, 41, 02006.	0.3	0
156	Laser heating of finite two-dimensional dust clusters: B. Simulations. Physics of Plasmas, 2012, 19, 023701.	1.9	22
157	Laser heating of finite two-dimensional dust clusters: A. Experiments. Physics of Plasmas, 2012, 19, .	1.9	46
158	Kinetic theory for quantum plasmas. , 2012, , .		11
159	Theoretical description of field-assisted postcollision interaction in Auger decay of atoms. Physical Review A, 2012, 85, .	2.5	23
160	Evidence for Chirped Auger-Electron Emission. Physical Review Letters, 2012, 108, 253003.	7.8	37
161	Electronic double excitations in quantum wells: Solving the two-time Kadanoff-Baym equations. Europhysics Letters, 2012, 98, 67002.	2.0	24
162	Collective and single-particle excitations in two-dimensional dipolar Bose gases. Physical Review A, 2012, 86, .	2.5	31

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163	Vacuum particle creation under action of a strong external field: an example of irreversible behavior of a system with time reversal symmetry. P-Adic Numbers, Ultrametric Analysis, and Applications, 2012, 4, 319-325.	0.4	7
164	Recent Progress in Complex Plasmas. Contributions To Plasma Physics, 2012, 52, 789-794.	1.1	12
165	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
166	Quantum breathing mode of interacting particles in a one-dimensional harmonic trap. Physical Review B, 2012, 86, .	3.2	26
167	Magnetizing a Complex Plasma without a Magnetic Field. Physical Review Letters, 2012, 109, 155003.	7.8	56
168	Phase Transitions of Finite Dust Clusters in Dusty Plasmas. Contributions To Plasma Physics, 2012, 52, 795-803.	1.1	23
169	Wake Formation and Wake Field Effects in Complex Plasmas. Contributions To Plasma Physics, 2012, 52, 804-812.	1.1	52
170	Towards a Particle Based Simulation of Complex Plasma Driven Nanocomposite Formation. Contributions To Plasma Physics, 2012, 52, 890-898.	1.1	20
171	Phase Diagram of Bilayer Electronâ€Hole Plasmas. Contributions To Plasma Physics, 2012, 52, 819-826.	1.1	30
172	Time-dependent restricted-active-space configuration-interaction method for the photoionization of many-electron atoms. Physical Review A, 2012, 86, .	2.5	78
173	Ion-streaming induced order transition in three-dimensional dust clusters. Plasma Physics and Controlled Fusion, 2012, 54, 045011.	2.1	35
174	Oscillation Spectrum of a Magnetized Strongly Coupled One-Component Plasma. Physical Review Letters, 2012, 108, 255002.	7.8	35
175	Quantum simulations of strongly coupled quark-gluon plasma. Physics of Atomic Nuclei, 2012, 75, 693-697.	0.4	4
176	On the wake structure in streaming complex plasmas. New Journal of Physics, 2012, 14, 053016.	2.9	108
177	Proton Crystallization in a Dense Hydrogen Plasma. Contributions To Plasma Physics, 2012, 52, 224-228.	1.1	9
178	Quantum Monte Carlo Simulations of Strongly Coupled Quarkâ€Gluon Plasma. Contributions To Plasma Physics, 2012, 52, 135-139.	1.1	8
179	Color path-integral Monte Carlo simulations of quarkâ€“gluon plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1096-1101.	2.1	13
180	Charge Correlations in a Harmonic Trap. Contributions To Plasma Physics, 2012, 52, 45-48.	1.1	13

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181	Higher harmonics of the magnetoplasmon in strongly coupled Coulomb and Yukawa systems. Physical Review E, 2011, 83, 046403.	2.1	27
182	Diffusion in a Strongly Coupled Magnetized Plasma. Physical Review Letters, 2011, 107, 135003.	7.8	81
183	Non-invasive determination of the parameters of strongly coupled 2D Yukawa liquids. Physics of Plasmas, 2011, 18, 063701.	1.9	53
184	Melting scenarios for three-dimensional dusty plasma clusters. Physical Review E, 2011, 84, 056402.	2.1	48
185	A plasma of magnetic monopoles. Nature Physics, 2011, 7, 192-194.	16.7	11
186	Quantum simulations of strongly coupled quark-gluon plasma. Physics of Particles and Nuclei Letters, 2011, 8, 823-830.	0.4	0
187	Quantum simulations of strongly coupled quark-gluon plasma. Physics of Atomic Nuclei, 2011, 74, 1364-1374.	0.4	4
188	Time Evolution from Weak to Strong Coupling in a Spherically Confined Dusty Plasma. Contributions To Plasma Physics, 2011, 51, 519-523.	1.1	3
189	Quantum Color Dynamic Simulations of the Strongly Coupled Quarkâ€Gluon Plasma. Contributions To Plasma Physics, 2011, 51, 322-327.	1.1	7
190	Configuration Path Integral Monte Carlo. Contributions To Plasma Physics, 2011, 51, 687-697.	1.1	76
191	Diffusion and Growth of Metal Clusters in Nanocomposites: A Kinetic Monte Carlo Study. Contributions To Plasma Physics, 2011, 51, 971-980.	1.1	13
192	Two-photon ionization of helium studied with the multiconfigurational time-dependent Hartreeâ€“Fock method. Journal of Chemical Physics, 2011, 134, 084106.	3.0	93
193	Theoretical description of spherically confined, strongly correlated Yukawa plasmas. Physical Review E, 2011, 84, 046407.	2.1	7
194	Collective excitations of a spherically confined Yukawa plasma. Physical Review E, 2011, 83, 056401.	2.1	14
195	Crystallization of an exciton superfluid. Physical Review B, 2011, 84, .	3.2	27
196	Higher Harmonic Generation in Strongly Coupled Magnetized Two-Dimensional Yukawa Liquids. IEEE Transactions on Plasma Science, 2011, 39, 2768-2769.	1.3	1
197	Dynamics of strongly correlated ions in a partially ionized quantum plasma. Journal of Physics: Conference Series, 2010, 220, 012003.	0.4	29
198	Quantum breathing mode of interacting particles in harmonic traps. Journal of Physics: Conference Series, 2010, 220, 012013.	0.4	10

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199	Strong field generalization of the interband transitions kinetics. Physics of Particles and Nuclei, 2010, 41, 1075-1078.	0.7	5
200	Complex plasmas: a laboratory for strong correlations. Reports on Progress in Physics, 2010, 73, 066501.	20.1	336
201	Shell Structure of Confined Charges at Strong Coupling. Contributions To Plasma Physics, 2010, 50, 26-30.	1.1	13
202	Quantum Kinetic Approach to Timeâ€Resolved Photoionization of Atoms. Contributions To Plasma Physics, 2010, 50, 54-59.	1.1	14
203	Interacting bosons beyond the Grossâ€“Pitaevskii mean field. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 420-424.	2.7	8
204	Nonequilibrium Green function approach to photoionization processes in atoms. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 513-519.	2.7	10
205	How Spherical Plasma Crystals Form. Physical Review Letters, 2010, 104, 015001.	7.8	33
206	Berezinskii-Kosterlitz-Thouless Transition in Two-Dimensional Dipole Systems. Physical Review Letters, 2010, 105, 070401.	7.8	70
207	Introduction to Complex Plasmas. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , .	0.2	68
208	Nonlinear Magnetoplasmons in Strongly Coupled Yukawa Plasmas. Physical Review Letters, 2010, 105, 055002.	7.8	42
209	Fluid modes of a spherically confined Yukawa plasma. Physical Review E, 2010, 82, 036407.	2.1	12
210	Efficient grid-based method in nonequilibrium Greenâ€™s function calculations: Application to model atoms and molecules. Physical Review A, 2010, 81, .	2.5	63
211	Time-dependent second-order Born calculations for model atoms and molecules in strong laser fields. Physical Review A, 2010, 82, .	2.5	62
212	Finite elements and the discrete variable representation in nonequilibrium Green's function calculations. Atomic and molecular models. Journal of Physics: Conference Series, 2010, 220, 012020.	0.4	7
213	Electronic correlations in double ionization of atoms in pump-probe experiments. Europhysics Letters, 2010, 91, 53001.	2.0	14
214	Multiconfigurational time-dependent Hartree-Fock calculations for photoionization of one-dimensional Helium. Journal of Physics: Conference Series, 2010, 220, 012019.	0.4	30
215	Molecular Dynamics Simulation of Strongly Correlated Dusty Plasmas. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , 231-264.	0.2	1
216	Tuning correlations in multi-component plasmas. Plasma Physics and Controlled Fusion, 2010, 52, 124013.	2.1	17

#	Article	IF	Citations
217	Introduction to Quantum Plasmas. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , 41-77.	0.2	15
218	Introduction to Quantum Plasma Simulations. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , 79-107.	0.2	3
219	Progress in Nonequilibrium Green's Functions IV. Journal of Physics: Conference Series, 2010, 220, 011001.	0.4	5
220	Statistical Theory of Spherically Confined Dust Crystals. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , 175-201.	0.2	0
221	Quantum breathing mode of trapped bosons and fermions at arbitrary coupling. Physical Review B, 2009, 80, .	3.2	31
222	Nonequilibrium Greenâ€™s function approach to strongly correlated few-electron quantum dots. Physical Review B, 2009, 79, .	3.2	53
223	Comment on â€œSelf-Diffusion in 2D Dusty-Plasma Liquids: Numerical-Simulation Resultsâ€• Physical Review Letters, 2009, 103, 099501; author reply 099502.	7.8	11
224	Nonequilibrium properties of strongly correlated artificial atomsâ€”a Green's functions approach. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214020.	2.1	13
225	Thermodynamic properties and electrical conductivity of strongly correlated plasma media. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214002.	2.1	13
226	Effective interaction potential and superfluidâ€“solid transition of spatially indirect excitons. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214016.	2.1	8
227	Structures of quantum 2D electronâ€“hole plasmas. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214014.	2.1	1
228	Linear response for confined particles. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214052.	2.1	5
229	Structure and Phase Transitions of Yukawa Balls. Contributions To Plasma Physics, 2009, 49, 281-302.	1.1	13
230	Preface: Contrib. Plasma Phys. 7-8/2009. Contributions To Plasma Physics, 2009, 49, 430-430.	1.1	1
231	Equation of State of Strongly Coupled Quarkâ€“Gluon Plasma â€“ Path Integral Monte Carlo Results. Contributions To Plasma Physics, 2009, 49, 536-543.	1.1	10
232	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
233	Vacuum Particle Creation: Analogy with the Bloch Theory in Solid State Physics. Contributions To Plasma Physics, 2009, 49, 575-584.	1.1	9
234	Anomalous and Fickian Diffusion in Twoâ€Dimensional Dusty Plasmas. Contributions To Plasma Physics, 2009, 49, 760-764.	1.1	14

#	Article	IF	Citations
235	Electric fieldâ€induced exciton localization in quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 551-555.	0.8	7
236	Quantum potential for diffraction and exchange effects. International Journal of Quantum Chemistry, 2009, 109, 3082-3092.	2.0	5
237	Is Diffusion Anomalous in Two-Dimensional Yukawa Liquids?. Physical Review Letters, 2009, 103, 195001.	7.8	84
238	Theoretical description of Coulomb balls: Fluid phase. Physical Review E, 2009, 80, 066405.	2.1	25
239	Towards a theory of an attosecond transient recorder. Physical Review A, 2009, 80, .	2.5	10
240	Spectral properties of spherically confined dusty plasma crystals. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214023.	2.1	13
241	Quantum kinetic theory of trapped particles in a strong electromagnetic field. Annals of Physics, 2008, 323, 3158-3174.	2.8	5
242	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
243	Ordered structure formation in 2D mass asymmetric electronâ€“hole plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5208-5214.	2.1	3
244	Complex plasmas: forces and dynamical behaviour. Plasma Physics and Controlled Fusion, 2008, 50, 124003.	2.1	15
245	Angular distributions of atomic photoelectrons produced in the uv and xuv regimes. Physical Review A, 2008, 78, .	2.5	21
246	Melting of Trapped Few-Particle Systems. Physical Review Letters, 2008, 100, 113401.	7.8	51
247	Simulation of thermodynamic properties of dense deuterium plasma by Monte Carlo methods. , 2008, , .		0
248	Quantum dynamics in Wigner and tomography representations. , 2008, , .		0
249	Ordered structures in 2D electron-hole plasmas. , 2008, , .		0
250	Ground states of finite spherical Yukawa crystals. New Journal of Physics, 2008, 10, 093019.	2.9	23
251	Strongly coupled dusty plasmas: finite and extended systems. AIP Conference Proceedings, 2008, , .	0.4	0
252	Structure And Dynamics Of Finite Dust Clouds. AIP Conference Proceedings, 2008, , .	0.4	0

#	Article	IF	Citations
253	On the Coulombâ€“dipole transition in mesoscopic classical and quantum electronâ€“hole bilayers. New Journal of Physics, 2008, 10, 083031.	2.9	19
254	Scanning tunneling microscopy and kinetic Monte Carlo investigation of cesium superlattices on Ag(111). Physical Review B, 2008, 78, .	3.2	37
255	Existence and Vanishing of the Breathing Mode in Strongly Correlated Finite Systems. Physical Review Letters, 2008, 101, 045002.	7.8	44
256	Controlling the spatial distribution of superfluidity in radially ordered Coulomb clusters. Physical Review B, 2008, 77, .	3.2	22
257	Probability of metastable configurations in spherical three-dimensional Yukawa crystals. Physical Review E, 2008, 78, 036408.	2.1	30
258	Superdiffusion in quasi-two-dimensional Yukawa liquids. Physical Review E, 2008, 78, 026409.	2.1	49
259	Classical and quantum Coulomb crystals. Physics of Plasmas, 2008, 15, .	1.9	82
260	Shell transitions between metastable states of Yukawa balls. Physics of Plasmas, 2008, 15, 073710.	1.9	28
261	Experiments on metastable states of three-dimensional trapped particle clusters. Physics of Plasmas, 2008, 15, 040701.	1.9	39
262	Monte Carlo calculations of thermodynamic properties of deuterium under high pressures. Journal of Physics: Conference Series, 2008, 121, 012012.	0.4	3
263	Wigner Function Quantum Molecular Dynamics. , 2008, , 41-60.		12
264	Invariance of the Kohn center-of-mass mode in a conserving theory. Physical Review B, 2007, 76, .	3.2	25
265	Spectral Line Shape Variations in Time-Resolved Photoemission from a Solid. Physical Review Letters, 2007, 99, 247601.	7.8	15
266	Correlation effects in partially ionized mass asymmetric electron-hole plasmas. Physical Review E, 2007, 75, 036401.	2.1	33
267	Structural and dynamical properties of Yukawa balls. Plasma Physics and Controlled Fusion, 2007, 49, B109-B116.	2.1	23
268	<title>Nonperturbative kinetics of electron-hole excitations in strong electric field</title>. , 2007, , .		3
269	Ground state of a confined Yukawa plasma including correlation effects. Physical Review E, 2007, 76, 036404.	2.1	41
270	Shell Structure of Yukawa Balls. Contributions To Plasma Physics, 2007, 47, 281-290.	1.1	34

#	Article	IF	Citations
271	Crystallization in Mass-Asymmetric Electron-Hole Bilayers. Contributions To Plasma Physics, 2007, 47, 335-344.	1.1	22
272	Coulomb crystal and quantum melting in electronâ€“hole plasmas of semiconductors under high pressure. Physica Status Solidi (B): Basic Research, 2007, 244, 474-479.	1.5	6
273	Hole crystallization in semiconductors. Journal of Physics A, 2006, 39, 4717-4721.	1.6	19
274	Progress in Nonequilibrium Green's Functions III. Journal of Physics: Conference Series, 2006, 35, .	0.4	11
275	Ground state of a confined Yukawa plasma. Physical Review E, 2006, 74, 056403.	2.1	60
276	Structural Properties of Screened Coulomb Balls. Physical Review Letters, 2006, 96, 075001.	7.8	129
277	Strongly correlated indirect excitons in quantum wells in high electric fields. Journal of Physics: Conference Series, 2006, 35, 197-208.	0.4	15
278	Thermodynamics of a correlated confined plasma. I. Macroscopic system. Journal of Physics: Conference Series, 2006, 35, 78-93.	0.4	3
279	Wilfried SchÃfer (1951â€“2003). Journal of Physics: Conference Series, 2006, 35, .	0.4	0
280	Path integral Monte Carlo calculations of dense hydrogen and helium thermodynamics. Journal of Plasma Physics, 2006, 72, 813.	2.1	3
281	Energy spectrum of strongly correlated particles in quantum dots. Journal of Physics: Conference Series, 2006, 35, 209-218.	0.4	8
282	Thermodynamics of a correlated confined plasma II. Mesoscopic system. Journal of Physics: Conference Series, 2006, 35, 94-109.	0.4	17
283	Interaction of partially ionized plasmas with electromagnetic fields. Journal of Physics: Conference Series, 2006, 35, 53-70.	0.4	1
284	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
285	Energy spectrum of strongly correlated electrons and indirect excitons in quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2402-2405.	0.8	5
286	Quantum Stark confined strongly correlated indirect excitons in quantum wells. Physica Status Solidi (B): Basic Research, 2006, 243, 2363-2366.	1.5	13
287	Path integral Monte Carlo calculations of helium and hydrogenâ€“helium plasma thermodynamics and of the deuterium shock Hugoniot. Journal of Physics A, 2006, 39, 4447-4452.	1.6	10
288	Monte Carlo simulations of dense quantum plasmas. Journal of Physics A, 2006, 39, 4421-4429.	1.6	12

#	Article	IF	Citations
289	Screened Coulomb ballsâ€"structural properties and melting behaviour. Journal of Physics A, 2006, 39, 4527-4531.	1.6	25
290	The method of effective potentials in the quantum-statistical theory of plasmas. Journal of Physics A, 2006, 39, 4309-4317.	1.6	38
291	Exciton formation and dissociation in mass-asymmetric electron-hole plasmas. Journal of Physics: Conference Series, 2005, 11, 139-146.	0.4	7
292	A tribute to Yuri Klimontovich. Journal of Physics: Conference Series, 2005, 11, .	0.4	1
293	Ionization kinetics in laser plasmas. Journal of Physics: Conference Series, 2005, 11, 25-36.	0.4	2
294	Kinetic theory for metallic clusters II. Klimontovich equation approach. Journal of Physics: Conference Series, 2005, 11, 47-60.	0.4	4
295	Effective potentials and Yuri Lvovich Klimontovich. Journal of Physics: Conference Series, 2005, 11, 131-138.	0.4	8
296	Kinetic Theory of Nonideal Plasmas. Journal of Physics: Conference Series, 2005, 11, .	0.4	2
297	Crystallization in Two-Component Coulomb Systems. Physical Review Letters, 2005, 95, 235006.	7.8	88
298	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
299	Thermodynamics of Hydrogen and Hydrogen-Helium Plasmas: Path Integral Monte Carlo Calculations and Chemical Picture. Contributions To Plasma Physics, 2005, 45, 258-265.	1.1	14
300	Interaction of Partially Ionized Plasmas with Electromagnetic Fields. Contributions To Plasma Physics, 2005, 45, 396-404.	1.1	3
301	First Principle Thermodynamic and Dynamic Simulations for Dense Quantum Plasmas. Contributions To Plasma Physics, 2005, 45, 450-458.	1.1	5
302	Structure of spherical three-dimensional Coulomb crystals. Physical Review E, 2005, 71, 046403.	2.1	86
303	3D Coulomb balls: experiment and simulation. Journal of Physics: Conference Series, 2005, 11, 234-247.	0.4	34
304	Binding energies of positive and negative trions: From quantum wells to quantum dots. Physical Review B, 2005, 72, .	3.2	86
305	Short-time kinetics and initial correlations in quantum kinetic theory. Journal of Physics: Conference Series, 2005, 11, 1-13.	0.4	8
306	Phase transitions in dense hydrogen - helium plasmas. AIP Conference Proceedings, 2004, , .	0.4	0

#	Article	IF	Citations
307	Monte Carlo results for the hydrogen Hugoniot. Physical Review E, 2004, 70, 057401.	2.1	60
308	Quantum Generalization of Molecular Dynamics Method. Wigner Approach. Lecture Notes in Computer Science, 2004, , 402-411.	1.3	2
309	Thermodynamics and correlation functions of an ultracold nonideal Rydberg plasma. Journal of Experimental and Theoretical Physics, 2004, 98, 719-727.	0.9	9
310	Exciton Molecules in Quantum Wells: Influence of the Well Width Fluctuations. Few-Body Systems, 2004, 34, 149.	1.5	2
311	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
312	Thermodynamic Properties and Plasma Phase Transition in dense Hydrogen. Contributions To Plasma Physics, 2004, 44, 388-394.	1.1	35
313	Temperature-dependent quantum pair potentials and their application to dense partially ionized hydrogen plasmas. Physical Review E, 2004, 70, 046411.	2.1	98
314	Influence of well-width fluctuations on the binding energy of excitons, charged excitons, and biexcitons inGaAs-based quantum wells. Physical Review B, 2004, 70, .	3.2	80
315	On Phase Transition in Strongly Coupled Hydrogen Plasma. AIP Conference Proceedings, 2004, , .	0.4	0
316	Controlling intershell rotations in mesoscopic electron clusters. Superlattices and Microstructures, 2003, 34, 219-224.	3.1	3
317	Quantum kinetic theory of confined electrons in a strong time dependent field. Superlattices and Microstructures, 2003, 34, 225-229.	3.1	2
318	Contributions of Yuri L. Klimontovich to the kinetic theory of nonideal plasmas. Contributions To Plasma Physics, 2003, 43, 247-251.	1.1	4
319	Ground state and structural transitions in mesoscopic electron hole bilayers. Contributions To Plasma Physics, 2003, 43, 285-289.	1.1	11
320	Plasma phase transition in hydrogen and electron-hole plasmas. Contributions To Plasma Physics, 2003, 43, 290-294.	1.1	9
321	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
322	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
323	Equilibrium and dynamical properties of few particle systems in bilayers. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1518-1522.	0.8	11
324	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

#	Article	IF	Citations
325	Plasma phase transition in dense hydrogen and electronâ€“hole plasmas. Journal of Physics A, 2003, 36, 6069-6076.	1.6	39
326	Theory and simulation of strong correlations in quantum Coulomb systems. Journal of Physics A, 2003, 36, 5921-5930.	1.6	94
327	Electronic transport in a one-dimensional random array of scatterers. Journal of Physics A, 2003, 36, 5905-5911.	1.6	1
328	Relaxation of strongly coupled Coulomb systems after rapid changes of the interaction potential. Journal of Physics A, 2003, 36, 6087-6093.	1.6	28
329	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
330	Spontaneous emission of semiconductors in the Wigner approach. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S299-S305.	1.4	3
331	Excitonic clusters in coupled quantum dots. Journal of Physics A, 2003, 36, 5899-5904.	1.6	21
332	Improved Kelbg potential for correlated Coulomb systems. Journal of Physics A, 2003, 36, 5957-5962.	1.6	77
333	CORRELATION INDUCED HEATING AND COOLING OF MANY-BODY SYSTEMS. , 2003, , .		3
334	SHORT-TIME DYNAMICS OF QUANTUM MANY-BODY SYSTEMS FOLLOWING A SPIN STATISTICS SWITCH. , 2003, , .		1
335	COMBINATION OF QUANTUM KINETIC THEORY AND FIRST-PRINCIPLE SIMULATIONS FOR STRONGLY CORRELATED QUANTUM PLASMAS. , 2003, , .		1
336	PATH INTEGRAL MONTE CARLO SIMULATIONS OF BOUND STATES IN SEMICONDUCTOR QUANTUM WELLS: EXCITONS, TRIONS AND BIEXCITONS. , 2003, , .		0
337	INTERSHELL ROTATION BARRIERS OF MESOSCOPIC 2D COULOMB CLUSTERS. , 2003, , .		0
338	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
339	Thermodynamic Properties of Nonideal Strongly Degenerate Hydrogen Plasma. AIP Conference Proceedings, 2002, , .	0.4	1
340	Generalized T-Matrix Approximation in Quantum Kinetic Equations. Contributions To Plasma Physics, 2002, 42, 31-35.	1.1	8
341	Plasmon Dispersion of a Weakly Degenerate Nonideal One-Component Plasma. Contributions To Plasma Physics, 2002, 42, 37-41.	1.1	7
342	Suppression of the dissociative phase transition in plasma mixtures of molecular and noble gases. Plasma Physics Reports, 2002, 28, 484-488.	0.9	0

#	Article	IF	Citations
343	Single-electron control of Wigner crystallization. Microelectronic Engineering, 2002, 63, 141-145.	2.4	13
344	Generalized T-Matrix Approximation in Quantum Kinetic Equations. , 2002, 42, 31.		1
345	Plasmon Dispersion of a Weakly Degenerate Nonideal One-Component Plasma. Contributions To Plasma Physics, 2002, 42, 37-41.	1.1	1
346	Wigner Crystallization in Mesoscopic 2D Electron Systems. Physical Review Letters, 2001, 86, 3851-3854.	7.8	266
347	Dynamical properties and plasmon dispersion of a weakly degenerate correlated one-component plasma. Physical Review E, 2001, 64, 016409.	2.1	26
348	Path Integral Simulations of the Thermodynamic Properties of Quantum Dense Plasma. Contributions To Plasma Physics, 2001, 41, 135-138.	1.1	13
349	Dielectric Properties of Correlated Quantum Plasmas. Contributions To Plasma Physics, 2001, 41, 155-158.	1.1	4
350	Quantum Kinetic Theory of Laser Plasmas. Contributions To Plasma Physics, 2001, 41, 259-262.	1.1	9
351	Mesoscopic Two-Dimensional Electron Crystals in Single and Double Layers. Contributions To Plasma Physics, 2001, 41, 357-362.	1.1	9
352	Phase transition in dense low-temperature molecular gases. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 289, 141-146.	2.1	5
353	Phase transition in superdense hydrogen and deuterium. Plasma Physics Reports, 2001, 27, 1025-1031.	0.9	4
354	Phase transition in strongly degenerate hydrogen plasma. JETP Letters, 2001, 74, 384-387.	1.4	57
355	Thermodynamics of hot dense H-plasmas: path integral Monte Carlo simulations and analytical approximations. Plasma Physics and Controlled Fusion, 2001, 43, 743-759.	2.1	112
356	Impact ionization rates of semiconductors in an electric field: The effect of collisional broadening. Journal of Applied Physics, 2001, 90, 829-836.	2.5	11
357	Short-time dynamics with initial correlations. Physical Review E, 2001, 63, 020102.	2.1	25
358	Harmonics generation in electron-ion collisions in a short laser pulse. Physical Review E, 2001, 64, 026405.	2.1	60
359	Mesoscopic Two-Dimensional Electron Crystals in Single and Double Layers. , 2001, 41, 357.		1
360	Mesoscopic Two-Dimensional Electron Crystals in Single and Double Layers. Contributions To Plasma Physics, 2001, 41, 357-362.	1.1	1

#	Article	IF	Citations
361	Path Integral Monte Carlo Simulations and Analytical Approximations for High-Temperature Plasmas. Lecture Notes in Computer Science, 2001, , 1272-1281.	1.3	0
362	Quantum kinetic theory of plasmas in strong laser fields. Laser and Particle Beams, 2000, 18, 535-540.	1.0	14
363	Path Integral Simulations of Crystallization of Quantum Confined Electrons. Physica Status Solidi (B): Basic Research, 2000, 221, 231-234.	1.5	43
364	High-density phenomena in hydrogen plasma. JETP Letters, 2000, 72, 245-248.	1.4	53
365	Pair distribution functions of dense partially ionized hydrogen. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 274, 228-235.	2.1	49
366	KADANOFFâ€“BAYM EQUATIONS WITH INITIAL CORRELATIONS. , 2000, , .		3
367	Kadanoffâ€“Baym equations and non-Markovian Boltzmann equation in generalized T-matrix approximation. Journal of Mathematical Physics, 2000, 41, 7458-7467.	1.1	47
368	Real-Time Kadanoff-Baym Approach to Plasma Oscillations in a Correlated Electron Gas. Physical Review Letters, 2000, 84, 1768-1771.	7.8	162
369	Nonequilibrium plasmons in optically excited semiconductors. Physical Review B, 2000, 62, 15724-15734.	3.2	14
370	Quantum kinetic equations for nonideal plasmas: Bound states and ionization kinetics. Physics of Plasmas, 2000, 7, 59-67.	1.9	4
371	Path Integral Simulations of Crystallization of Quantum Confined Electrons. , 2000, 221, 231.		3
372	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
373	THERMODYNAMIC PROPERTIES OF CORRELATED STRONGLY DEGENERATE PLASMAS. , 2000, , .		3
374	Quantum dynamics of strongly coupled particles in phase space. European Physical Journal Special Topics, 2000, 10, Pr5-145-Pr5-148.	0.2	0
375	Kadanoff-Baym equations with initial correlations. Physical Review E, 1999, 59, 1557-1562.	2.1	77
376	Quantum kinetic theory of plasmas in strong laser fields. Physical Review E, 1999, 60, 4725-4732.	2.1	336
377	T-matrix approach to equilibium and nonequilibrium carrier-carrier scattering in semiconductors. Physical Review B, 1999, 59, 10639-10650.	3.2	24
378	Experimental evidence for the effect of nonequilibrium acoustic plasmons on carrier relaxation in bulk semiconductors. Physical Review B, 1999, 60, R8453-R8456.	3.2	4

#	Article	IF	Citations
379	Non-Lorentzian spectral functions for Coulomb quantum kinetics. European Physical Journal B, 1999, 9, 309-314.	1.5	31
380	Generalized Kadanoffâ€“Baym Theory for Nonâ€“Equilibrium Manyâ€“Body Systems in External Fields. An Effective Multiâ€“Band Approach. Contributions To Plasma Physics, 1999, 39, 37-40.	1.1	10
381	Quantum Kinetic Theory for Laser Plasmas. Dynamical Screening in Strong Fields. Contributions To Plasma Physics, 1999, 39, 329-347.	1.1	52
382	BBGKY Approach to Non-Markovian Semiconductor Bloch Equations. Physica Status Solidi (B): Basic Research, 1998, 206, 181-187.	1.5	8
383	Semiconductor Kadanoff-Baym Equation Results for Optically Excited Electron-Hole Plasmas in Quantum Wells. Physica Status Solidi (B): Basic Research, 1998, 206, 197-203.	1.5	51
384	Strong Correlation (T-Matrix) Effects in Electron-Hole Plasmas in Semiconductors. Physica Status Solidi (B): Basic Research, 1998, 206, 257-263.	1.5	3
385	Semiconductor Kadanoff-Baym Equation Results for Optically Excited Electronâ€“Hole Plasmas in Quantum Wells. , 1998, 206, 197.		12
386	Short-time dynamics of correlated many-particle systems: Molecular dynamics versus quantum kinetics. Physical Review E, 1997, 56, 1246-1249.	2.1	14
387	Green's function description of momentum-orientation relaxationof photoexcited electron plasmas in semiconductors. Physical Review B, 1997, 55, 5110-5116.	3.2	52
388	Characteristics and impact of the matthew effect for countries. Scientometrics, 1997, 40, 407-422.	3.0	90
389	Quantum Kinetic Equations: Correlation Dynamics and Selfenergy. Contributions To Plasma Physics, 1997, 37, 101-113.	1.1	6
390	Diffusion and Heat Transport in a Dense Partially Ionized Plasma. Contributions To Plasma Physics, 1997, 37, 229-238.	1.1	3
391	Numerical Solution of the Quantum Landau Equation for Dense Plasmas. Contributions To Plasma Physics, 1997, 37, 499-509.	1.1	3
392	Non-Markovian Boltzmann Equation. Annals of Physics, 1997, 258, 320-359.	2.8	46
393	Numerical analysis of non-Markovian effects in charge-carrier scattering: one-time versus two-time kinetic equations. Journal of Physics Condensed Matter, 1996, 8, 6057-6071.	1.8	78
394	Twoâ€temperature relaxation in nonideal partially ionized plasmas. Physics of Plasmas, 1996, 3, 1241-1249.	1.9	29
395	Kinetic energy relaxation and correlation time of nonequilibrium many-particle systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 212, 83-90.	2.1	40
396	Correlation time approximation in non-Markovian kinetics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 221, 85-93.	2.1	21

#	Article	IF	Citations
397	Quantum kinetic equations, memory effects, conservation laws. Physica B: Condensed Matter, 1996, 228, 72-77.	2.7	10
398	Plasma Phase Transition in Fluid Hydrogenâ€Helium Mixtures. Contributions To Plasma Physics, 1995, 35, 109-125.	1.1	78
399	Response to â€˜â€˜Comments on â€˜Impossibility of plasma instabilities in isotropic quantum plasmasâ€™â€‰â€™ [Phys. Plasmas 1, 832 (1994)]. Physics of Plasmas, 1995, 2, 1017-1018.	1.9	0
400	Relaxation of temperature and chemical composition in nonideal plasmas. Physics of Plasmas, 1995, 2, 3214-3221.	1.9	5
401	Theory of plasmons in quasi-one-dimensional degenerate plasmas. Physical Review E, 1994, 49, 5535-5545.	2.1	24
402	Multiple undamped acoustic plasmons in three-dimensional two-component nonequilibrium plasmas. Physical Review B, 1994, 49, 2174-2176.	3.2	10
403	Nonlinear carrier-plasmon interaction in a one-dimensional quantum plasma. Physical Review B, 1994, 50, 15095-15098.	3.2	10
404	The multidimensional space of Scientometrics; The Derek John de Solla Price awards 1984â€“1993. Scientometrics, 1994, 29, 3-14.	3.0	9
405	Impossibility of plasma instabilities in isotropic quantum plasmas. Physics of Plasmas, 1994, 1, 832-833.	1.9	12
406	Plasmons and Instabilities in Quantum Plasmas. Contributions To Plasma Physics, 1993, 33, 536-539.	1.1	4
407	Carrier-acoustic plasmon instability in semiconductor quantum wires. Physical Review Letters, 1993, 70, 3788-3791.	7.8	20
408	Reaction and diffusion in dense nonideal plasmas. Physics of Fluids B, 1993, 5, 216-229.	1.7	12
409	The impact of behavioral principles on the design of the system of scientific communication. Scientometrics, 1991, 20, 107-111.	3.0	2
410	Nonideality and Nonlinearity in Reactionâ€Diffusion Plasmas. Contributions To Plasma Physics, 1989, 29, 511-525.	1.1	7
411	Definition of the Degree of Order in Selforganization Processes. Annalen Der Physik, 1988, 500, 340-352.	2.4	3
412	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
413	Three-quasiparticle excitations in 175Yb. Nuclear Physics A, 1969, 130, 333-341.	1.5	12
414	Evidence for j-forbidden isomeric transition in 208Bi. Nuclear Physics A, 1968, 115, 219-224.	1.5	13

#	Article	IF	Citations
415	Modern multi-channel time analyzers in the nanosecond range. Nuclear Instruments & Methods, 1963, 22, 238-252.	1.2	39
416	Notes on a fast time analyzer for short lifetime measurements. Nuclear Instruments & Methods, 1960, 9, 13-20.	1.2	13
417	Thermodynamic properties and plasma phase transition in dense hydrogen mixtures. , 0, , .		0
418	Thermodynamics of the uniform electron gas: Fermionic path integral Monte Carlo simulations in the restricted grand canonical ensemble. Contributions To Plasma Physics, 0, , e202100112.	1.1	14
419	Doublon production in correlated materials by multiple ion impacts. Physica Status Solidi (B): Basic Research, 0, , .	1.5	3
420	Nonlinear interaction of external perturbations in warm dense matter. Contributions To Plasma Physics, 0, , .	1.1	6