

Werner Ebeling

List of Publications by Year in descending order

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231
papers

5,897
citations

94381

37
h-index

110317

64
g-index

238
all docs

238
docs citations

238
times ranked

2243
citing authors

#	ARTICLE	IF	CITATIONS
1	Active Brownian particles. European Physical Journal: Special Topics, 2012, 202, 1-162.	1.2	816
2	Complex Motion of Brownian Particles with Energy Depots. Physical Review Letters, 1998, 80, 5044-5047.	2.9	226
3	Brownian particles far from equilibrium. European Physical Journal B, 2000, 15, 105-113.	0.6	170
4	Active Brownian particles with energy depots modeling animal mobility. BioSystems, 1999, 49, 17-29.	0.9	134
5	Noise-induced transition from translational to rotational motion of swarms. Physical Review E, 2005, 71, 051904.	0.8	133
6	Word frequency and entropy of symbolic sequences: a dynamical perspective. Chaos, Solitons and Fractals, 1992, 2, 635-650.	2.5	122
7	Temperature-dependent quantum pair potentials and their application to dense partially ionized hydrogen plasmas. Physical Review E, 2004, 70, 046411.	0.8	98
8	Entropies of biosequences: The role of repeats. Physical Review E, 1994, 50, 5061-5071.	0.8	90
9	Statistical mechanics of canonical-dissipative systems and applications to swarm dynamics. Physical Review E, 2001, 64, 021110.	0.8	81
10	Improved Kelbg potential for correlated Coulomb systems. Journal of Physics A, 2003, 36, 5957-5962.	1.6	77
11	Mean spherical approximation-mass action law theory of equilibrium and conductance in ionic solutions. Journal of Solution Chemistry, 1982, 11, 151-167.	0.6	75
12	Equation of state for hydrogen below 10000 K: From the fluid to the plasma. Physical Review B, 1999, 59, 14177-14181.	1.1	75
13	Local order, entropy and predictability of financial time series. European Physical Journal B, 2000, 15, 733-737.	0.6	73
14	Komplexe Strukturen: Entropie und Information. , 1998, , .		72
15	Thermodynamic Properties of Liquid Hydrogen Metal. Physica Status Solidi (B): Basic Research, 1985, 128, 467-474.	0.7	68
16	Statistische Thermodynamik der gebundenen Zustände in Plasmen. Annalen Der Physik, 1967, 474, 104-112.	0.9	65
17	Entropy and optimal partition for data analysis. European Physical Journal B, 2001, 19, 265-269.	0.6	59
18	On the estimation of theoretical individual activity coefficients of electrolytes. Zeitschrift Fur Physikalische Chemie, 1983, 264, 1-14.	1.4	58

#	ARTICLE	IF	CITATIONS
19	Effect of anharmonicity on charge transport in hydrogen-bonded systems. <i>Physical Review B</i> , 2006, 73, .	1.1	55
20	ON THE POSSIBILITY OF ELECTRIC CONDUCTION MEDIATED BY DISSIPATIVE SOLITONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 245-251.	0.7	53
21	Statistical derivation of the mass-action law for interacting gases and plasmas. <i>Physica</i> , 1974, 73, 573-584.	0.9	52
22	Excitation of rotational modes in two-dimensional systems of driven Brownian particles. <i>Physical Review E</i> , 2002, 65, 061106.	0.8	50
23	Boltzmann and Darwin strategies in complex optimization. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 125, 307-310.	0.9	45
24	Quantum Statistics of Dense Gases and Nonideal Plasmas. <i>Springer Series in Plasma Science and Technology</i> , 2017, , .	0.1	44
25	PARTITION-BASED ENTROPIES OF DETERMINISTIC AND STOCHASTIC MAPS. <i>Stochastics and Dynamics</i> , 2001, 01, 45-61.	0.6	43
26	Quasiclassical Theory and Molecular Dynamics of Two-Component Nonideal Plasmas. <i>Contributions To Plasma Physics</i> , 1999, 39, 61-64.	0.5	42
27	Equation of state and Saha equation of partially ionized plasmas. <i>Physica</i> , 1968, 38, 378-388.	0.9	41
28	The application of evolution models in scientometrics. <i>Scientometrics</i> , 1990, 18, 21-41.	1.6	41
29	Optimization of Road Networks Using Evolutionary Strategies. <i>Evolutionary Computation</i> , 1997, 5, 419-438.	2.3	41
30	Thermodynamic properties and plasma phase transition of xenon at high pressure and high temperature. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1988, 150, 159-171.	1.2	40
31	Electron capture and transport mediated by lattice solitons. <i>Physical Review E</i> , 2007, 76, 046602.	0.8	40
32	Soliton-like excitations and solectrons in two-dimensional nonlinear lattices. <i>European Physical Journal B</i> , 2011, 80, 137-145.	0.6	40
33	Nonlinear stochastic effects of substitution ? an evolutionary approach. <i>Journal of Evolutionary Economics</i> , 1996, 6, 1-30.	0.8	39
34	Coulombic Phase Transitions in Dense Plasmas. <i>Journal of Statistical Physics</i> , 2003, 110, 861-877.	0.5	39
35	DISSIPATIVE SOLITONS AND COMPLEX CURRENTS IN ACTIVE LATTICES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006, 16, 1613-1632.	0.7	39
36	Free Energy and Ionization in Dense Plasmas of the Light Elements. <i>Contributions To Plasma Physics</i> , 1990, 30, 553-561.	0.5	38

#	ARTICLE	IF	CITATIONS
37	ENTROPY, TRANSFORMATION AND WORD DISTRIBUTION OF INFORMATION-CARRYING SEQUENCES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1995, 05, 51-61.	0.7	38
38	On the possibility of electric transport mediated by long living intrinsic localized solectron modes. European Physical Journal B, 2011, 80, 545-554.	0.6	38
39	Nonlinear excitations and electric transport in dissipative Morse-Toda lattices. European Physical Journal B, 2006, 51, 87-99.	0.6	36
40	Local electron distributions and diffusion in anharmonic lattices mediated by thermally excited solitons. European Physical Journal B, 2009, 70, 217-227.	0.6	35
41	Quantum-statistical second virial coefficient and scattering theory. Physica, 1971, 51, 146-164.	0.9	34
42	Directed motion of Brownian particles with internal energy depot. Physica A: Statistical Mechanics and Its Applications, 1999, 273, 294-314.	1.2	34
43	Nonlinear Dynamics and Fluctuations of Dissipative Toda Chains. Journal of Statistical Physics, 2000, 101, 443-457.	0.5	34
44	Uphill motion of active brownian particles in piecewise linear potentials. European Physical Journal B, 2000, 14, 157-168.	0.6	34
45	Properties of nano-scale soliton-like excitations in two-dimensional lattice layers. Physica D: Nonlinear Phenomena, 2011, 240, 1954-1959.	1.3	34
46	Swarms of particle agents with harmonic interactions. Theory in Biosciences, 2001, 120, 207-224.	0.6	32
47	Dissipative Toda-Rayleigh lattice and its oscillatory modes. Physical Review E, 2001, 64, 036601.	0.8	32
48	Stochastic Theory of Molecular Replication Processes with Selection Character. Annalen Der Physik, 1977, 489, 81-90.	0.9	31
49	ON SOLITON-MEDIATED FAST ELECTRIC CONDUCTION IN A NONLINEAR LATTICE WITH MORSE INTERACTIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1035-1039.	0.7	31
50	SOLITON-LIKE WAVES ON DISSIPATIVE TODA LATTICES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 1075-1089.	0.7	30
51	Active Brownian motion models and applications to ratchets. European Physical Journal B, 2008, 65, 403-414.	0.6	30
52	THERMAL SOLITONS AND SOLECTRONS IN 1D ANHARMONIC LATTICES UP TO PHYSIOLOGICAL TEMPERATURES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 3815-3823.	0.7	30
53	Smoothing representation of fitness landscapes " the genotype-phenotype map of evolution. BioSystems, 1996, 39, 63-76.	0.9	29
54	Hydrogen Equation of State and Plasma Phase Transition. Contributions To Plasma Physics, 1999, 39, 21-24.	0.5	29

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55	M.V. Volkenstein, evolutionary thinking and the structure of fitness landscapes. <i>BioSystems</i> , 1992, 27, 125-128.	0.9	28
56	Transport Properties of Dense Plasmas. <i>Exs</i> , 1984, , .	1.4	28
57	Entropy and information in processes of self-organization: uncertainty and predictability. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 194, 563-575.	1.2	27
58	An elementary model for directed active motion. <i>Chaos, Solitons and Fractals</i> , 1994, 4, 1917-1930.	2.5	27
59	Evolutionary strategies of optimization. <i>Physical Review E</i> , 1997, 56, 1171-1180.	0.8	27
60	Entropy and the evolution of biological information. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990, 163, 398-402.	1.2	26
61	Entropy and local uncertainty of data from sensory neurons. <i>Physical Review E</i> , 2001, 64, 061911.	0.8	26
62	COLLECTIVE MOTION OF BROWNIAN PARTICLES WITH HYDRODYNAMIC INTERACTIONS. <i>Fluctuation and Noise Letters</i> , 2003, 03, L145-L154.	1.0	26
63	Thermodynamics and phase transitions in dissipative and active Morse chains. <i>European Physical Journal B</i> , 2005, 44, 509-519.	0.6	26
64	Swarm dynamics, attractors and bifurcations of active Brownian motion. <i>European Physical Journal: Special Topics</i> , 2008, 157, 17-31.	1.2	26
65	Compounds of paired electrons and lattice solitons moving with supersonic velocity. <i>Physical Review E</i> , 2008, 78, 066606.	0.8	26
66	Electron pairing and Coulomb repulsion in one-dimensional anharmonic lattices. <i>Physical Review B</i> , 2012, 85, .	1.1	26
67	Deterministic and stochastic theory of sustained oscillations in autocatalytic reaction systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1978, 93, 114-137.	1.2	25
68	Stochastic dynamics of instabilities in evolutionary systems. <i>System Dynamics Review</i> , 1989, 5, 176-191.	1.1	25
69	On the relation between various entropy concepts and the valoric interpretation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 182, 108-120.	1.2	25
70	Isentropes and Hugoniot curves for dense hydrogen and deuterium. <i>Physical Review E</i> , 2001, 63, 060202.	0.8	25
71	Controlling fast electron transfer at the nano-scale by solitonic excitations along crystallographic axes. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	25
72	Entropy and the Self-Organization of Information and Value. <i>Entropy</i> , 2016, 18, 193.	1.1	25

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73	Coexisting phases in an electron-hole plasma. <i>Physica Status Solidi (B): Basic Research</i> , 1976, 78, 241-253.	0.7	24
74	COHERENT MOTIONS AND CLUSTERS IN A DISSIPATIVE MORSE RING CHAIN. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002, 12, 2359-2377.	0.7	24
75	Electric Microfield Distribution in Two-Component Plasmas. Theory and Simulations. <i>Contributions To Plasma Physics</i> , 2000, 40, 555-568.	0.5	23
76	Effective Potentials, Energies, and Pair-distribution Functions of Plasmas by Monte-Carlo Simulations. <i>Contributions To Plasma Physics</i> , 2001, 41, 15-25.	0.5	23
77	Quantum Statistical Fugacity Expansions for Partially Ionized Plasmas in Equilibrium. <i>Beitrage Aus Der Plasmaphysik</i> , 1971, 11, 393-403.	0.1	22
78	Nonequilibrium statistical mechanics of swarms of driven particles. <i>Complexity</i> , 2003, 8, 23-30.	0.9	22
79	The influence of Pauli blocking effects on the properties of dense hydrogen. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 214033.	0.7	22
80	Evolution and the stochastic description of simple ecosystems. <i>BioSystems</i> , 1983, 16, 113-126.	0.9	21
81	Optimization of NP-Complete Problems by Boltzmann-Darwin Strategies Including Life Cycles. <i>Europhysics Letters</i> , 1988, 6, 107-112.	0.7	21
82	On the electron transport in polydiacetylene crystals and derivatives. <i>Europhysics Letters</i> , 2014, 106, 27004.	0.7	21
83	Pressure Ionization in Nonideal Alkali Plasmas. <i>Annalen Der Physik</i> , 1979, 491, 321-332.	0.9	20
84	Molecular dynamics simulation of the activation of soft molecules solved in condensed media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995, 217, 22-37.	1.2	20
85	New Padé approximations for the free charges in two-component strongly coupled plasmas based on the Unsöld-Berlin-Montroll asymptotics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 248, 242-246.	0.9	20
86	Semiclassical Dynamics and Time Correlations in Two-Component Plasmas. <i>Contributions To Plasma Physics</i> , 1999, 39, 311-321.	0.5	20
87	Anharmonic Excitations, Time Correlations and Electric Conductivity. <i>Contributions To Plasma Physics</i> , 2007, 47, 465-478.	0.5	20
88	ELECTRON TRAPPING BY SOLITONS: CLASSICAL VERSUS QUANTUM MECHANICAL APPROACH. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008, 18, 521-526.	0.7	20
89	Dynamics of individuals and swarms with shot noise induced by stochastic food supply. <i>European Physical Journal B</i> , 2009, 72, 597-606.	0.6	20
90	Bifurcations in a Bistable Reaction-Diffusion System. <i>Annalen Der Physik</i> , 1979, 491, 121-134.	0.9	19

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91	Electrolytic conductance for Gurney-Friedman models. Journal of Solution Chemistry, 1979, 8, 53-82.	0.6	19
92	A stochastic description of evolutionary processes in underoccupied systems. BioSystems, 1986, 19, 91-100.	0.9	19
93	Nonideality Effects in Plasmas with Multiply Charged Ions. Contributions To Plasma Physics, 1989, 29, 165-172.	0.5	19
94	Anharmonicity and its significance to non-Ohmic electric conduction. Physical Review E, 2006, 73, 066626.	0.8	19
95	Complex representation of the quantumstatistical second virial coefficient. Physics Letters, Section A: General, Atomic and Solid State Physics, 1969, 29, 466-467.	0.9	18
96	ENTROPY AND EXTENDED MEMORY IN DISCRETE CHAOTIC DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 611-625.	0.7	18
97	The work of Baimbetov on Nonideal Plasmas and Some Recent Developments. Contributions To Plasma Physics, 2016, 56, 163-175.	0.5	18
98	Binäre SLATER-Summen und Verteilungsfunktionen für quantenstatistische Systeme mit COULOMB-Wechselwirkung. I. Annalen Der Physik, 1968, 476, 235-243.	0.9	17
99	Quantum statistics of coulomb systems: Thermodynamic functions and phase transitions. Physica A: Statistical Mechanics and Its Applications, 1986, 140, 160-168.	1.2	17
100	Mode transitions and wave propagation in a driven-dissipative Toda-Rayleigh ring. Physical Review E, 2003, 67, 056208.	0.8	17
101	Elementary Many-Particle Processes in Plasma Microfields. Contributions To Plasma Physics, 2006, 46, 195-260.	0.5	17
102	On Bjerrum's mass action law for electrolytes and Onsager's bookkeeping rule. Journal of Molecular Liquids, 2002, 96-97, 409-423.	2.3	16
103	On the quantum statistics of bound states within the Rutherford model of matter. Annalen Der Physik, 2012, 524, 311-326.	0.9	16
104	Discrete-breather-assisted charge transport along DNA-like molecular wires. Physical Review E, 2019, 100, 052203.	0.8	16
105	Theory of the Ionization Equilibrium in Nonideal Alkali Plasmas. Annalen Der Physik, 1977, 489, 9-22.	0.9	15
106	Adiabatic equation of state and ionization equilibrium of dense plasma. Physica A: Statistical Mechanics and Its Applications, 1997, 241, 719-728.	1.2	15
107	Distribution functions and excitation spectra of Toda systems at intermediate temperatures. Physica D: Nonlinear Phenomena, 2000, 141, 117-132.	1.3	15
108	Pressure Ionization and Transitions in Dense Hydrogen. Contributions To Plasma Physics, 2005, 45, 160-167.	0.5	15

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109	NUMERICAL EVIDENCE OF SOLITON-MEDIATED ELECTRON PAIRING IN HEATED ANHARMONIC CRYSTAL LATTICES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 1595-1600.	0.7	15
110	Bound States in Coulomb Systems – Old Problems and New Solutions. <i>Contributions To Plasma Physics</i> , 2012, 52, 7-16.	0.5	15
111	From solitons to discrete breathers. <i>European Physical Journal B</i> , 2016, 89, 1.	0.6	15
112	Many particle simulations of the quantum electron gas using momentum-dependent potentials. <i>Physical Review E</i> , 1997, 56, 3498-3507.	0.8	14
113	Microfields and fusion rates for dense plasmas. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 252, 488-504.	1.2	14
114	Thermodynamics and transport in an active Morse ring chain. <i>European Physical Journal B</i> , 2001, 24, 511-524.	0.6	14
115	Thermodynamics and Phase Transitions in Dense Hydrogen – the Role of Bound State Energy Shifts. <i>Contributions To Plasma Physics</i> , 2008, 48, 670-685.	0.5	14
116	ON THE MATHEMATICAL MODELING OF SOLITON-MEDIATED LONG-RANGE ELECTRON TRANSFER. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 185-194.	0.7	14
117	Hopping Transport and Stochastic Dynamics of Electrons in Plasma Layers. <i>Contributions To Plasma Physics</i> , 2011, 51, 814-829.	0.5	14
118	Nonlinear soliton-like excitations in two-dimensional lattices and charge transport. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2531-2546.	1.2	14
119	High electrical conductivity in nonlinear model lattice crystals mediated by thermal excitation of solitons. <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	14
120	Binäre SLATER-Summen und Verteilungsfunktionen für quantenstatistische Systeme mit COULOMB-Wechselwirkung. II. <i>Annalen Der Physik</i> , 1968, 477, 1-14.	0.9	13
121	Effects of strong noise on attractors of dynamical systems. <i>European Physical Journal B</i> , 1990, 81, 445-450.	0.6	13
122	Nonequilibrium statistical mechanics of swarms of driven particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 314, 92-96.	1.2	13
123	Electron pairing in one-dimensional anharmonic crystal lattices. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 551-565.	1.0	13
124	Models of active Brownian motors based on internal oscillations. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2465-2479.	1.2	13
125	Stochastic Bifurcations in a Bistable Reaction-Diffusion System with Neumann Boundary Conditions. <i>Annalen Der Physik</i> , 1983, 495, 151-160.	0.9	12
126	Statistical thermodynamics of fluid hydrogen at high energy density. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1985, 130, 587-596.	1.2	12

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127	Quasiclassical Statistical Thermodynamics and New Padé Approximations for the Free Charges in Strongly Coupled Plasma. Contributions To Plasma Physics, 1999, 39, 287-306.	0.5	12
128	Bifurcations of a semiclassical atom in a periodic field. Physical Review E, 2002, 65, 046228.	0.8	12
129	Thermodynamics of ionization and dissociation in hydrogen plasmas including fluctuations and magnetic fields. European Physical Journal D, 2003, 23, 265-272.	0.6	12
130	Nonlinear Ionic Excitations, Dynamic Bound States, and Nonlinear Currents in a One-dimensional Plasma. Contributions To Plasma Physics, 2005, 45, 275-283.	0.5	12
131	ON THE ATTRACTORS OF TWO-DIMENSIONAL RAYLEIGH OSCILLATORS INCLUDING NOISE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3623-3633.	0.7	12
132	Thermal solitons and solertrons in nonlinear conducting chains. International Journal of Quantum Chemistry, 2010, 110, 46-61.	1.0	12
133	Interionische Wechselwirkungen und Thermodynamik starker Elektrolyte. Zeitschrift Fur Physikalische Chemie, 1976, 2570, 549-562.	1.4	11
134	Markov processes, dynamic entropies and the statistical prediction of mesoscale weather regimes. Tellus, Series A: Dynamic Meteorology and Oceanography, 1997, 49, 108-118.	0.8	11
135	Active particles with broken symmetry. Chaos, 2011, 21, 047517.	1.0	11
136	Soliton assisted control of source to drain electron transport along natural channels " crystallographic axes " in two-dimensional triangular crystal lattices. European Physical Journal B, 2016, 89, 1.	0.6	11
137	Bound State Effects in Quantum Transport Theory. Annalen Der Physik, 1976, 488, 350-358.	0.9	10
138	Self-oscillations in ring Toda chains with negative friction. Physical Review E, 2001, 63, 046601.	0.8	10
139	Identity of electrons and ionization equilibrium. Europhysics Letters, 2011, 95, 25001.	0.7	10
140	Quartic lattice interactions, soliton-like excitations, and electron pairing in one-dimensional anharmonic crystals. International Journal of Quantum Chemistry, 2012, 112, 2591-2598.	1.0	10
141	Comment on "Direct linear term in the equation of state of plasmas". Physical Review E, 2015, 92, 047101.	0.8	10
142	On Saha's equation for partially ionised plasmas and Onsager's bookkeeping rule. European Physical Journal D, 2002, 20, 93-101.	0.6	9
143	Active and passive Brownian motion of charged particles in two-dimensional plasma models. Physical Review E, 2004, 70, 046406.	0.8	9
144	FERMI RESONANCE " NEW APPLICATIONS OF AN OLD EFFECT. Fluctuation and Noise Letters, 2004, 04, L183-L193.	1.0	9

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145	Statistical mechanics of confined systems with rotational excitations. Physica D: Nonlinear Phenomena, 2004, 187, 268-280.	1.3	9
146	Electric Microfield Distributions in Li^+ + Plasma With Account of the Ion Structure. Contributions To Plasma Physics, 2009, 49, 76-89.	0.5	9
147	Velocity Distributions and Kinetic Equations for Plasmas Including Levy Type Power Law Tails. Contributions To Plasma Physics, 2009, 49, 704-712.	0.5	9
148	Swarms of Particle Agents with Harmonic Interactions. Theory in Biosciences, 2001, 120, 207-224.	0.6	8
149	STOCHASTIC DYNAMICS OF ACTIVE AGENTS IN EXTERNAL FIELDS. Fluctuation and Noise Letters, 2005, 05, L185-L192.	1.0	8
150	Electric Microfield Distributions in Dense One- and Two-Component Plasmas. Contributions To Plasma Physics, 2007, 47, 659-669.	0.5	8
151	Tuning active Brownian motion with shot-noise energy pulses. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01029.	0.9	8
152	Controlling uphill motion of an active Brownian particle driven by shot-noise energy pulses. Physical Review E, 2013, 87, .	0.8	8
153	High Conductivity Mediated by Thermal Excitation of Solectrons. Contributions To Plasma Physics, 2013, 53, 736-743.	0.5	8
154	Stochastic urn models of innovation and search dynamics. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 599-612.	1.2	7
155	New species in evolving networks – stochastic theory of sensitive networks and applications on the metaphorical level. BioSystems, 2006, 85, 65-71.	0.9	7
156	Dissipative solitons, wave asymmetry and dynamical ratchets. Physica A: Statistical Mechanics and Its Applications, 2007, 377, 435-447.	1.2	7
157	Convolutated Gauss-Levy distributions and exploding Coulomb clusters. European Physical Journal: Special Topics, 2010, 187, 157-170.	1.2	7
158	Static and dynamic structure factors with account of the ion structure for high-temperature alkali and alkaline earth plasmas*. European Physical Journal D, 2011, 61, 117-130.	0.6	7
159	The unlikely high efficiency of a molecular motor based on active motion. European Physical Journal: Special Topics, 2015, 224, 1395-1403.	1.2	7
160	Excitation of solitons in hexagonal lattices and ways of controlling electron transport. International Journal of Dynamics and Control, 2018, 6, 1376-1383.	1.5	7
161	Correlation Functions AND Thermodynamic Potentials FOR Nonideal Plasmas. Contributions To Plasma Physics, 1993, 33, 492-502.	0.5	6
162	Molecular dynamics simulation of the energy distributions of molecules in liquid solutions. Journal of Molecular Liquids, 1997, 73-74, 445-452.	2.3	6

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163	Microscopic Models and Simulations of Local Activation Processes. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 755-765.	0.7	6
164	Stochastic Cluster Dynamics of Macromolecules. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 921-926.	0.7	6
165	Klimontovich's contributions to the kinetic theory of nonlinear Brownian motion and new developments. Journal of Physics: Conference Series, 2005, 11, 89-98.	0.3	6
166	The thermodynamic cycle of an entropy-driven stepper motor walking hand-over-hand. Chemical Physics, 2010, 375, 472-478.	0.9	6
167	Studies on Manfred Eigen's model for the self-organization of information processing. European Biophysics Journal, 2018, 47, 395-401.	1.2	6
168	Microfields, Kinetic Equations and Fusion Rates in Exploding Ion Clusters. Contributions To Plasma Physics, 2009, 49, 477-487.	0.5	5
169	Soliton-mediated compression density waves and charge density in 2d layers of underdoped cuprate-like lattices. Comptes Rendus - Mecanique, 2012, 340, 910-916.	2.1	5
170	Selforganization of Symbols and Information. , 2015, , 141-184.		5
171	Long-Range Electron Transport Donor-Acceptor in Nonlinear Lattices. Entropy, 2016, 18, 92.	1.1	5
172	About electron transfer over long distances with tunable sub/supersonic velocities. Journal of Chemical Physics, 2020, 153, 044117.	1.2	5
173	Equation of state of hydrogen, helium, and solar plasmas. Contributions To Plasma Physics, 2021, 61, e202100085.	0.5	5
174	The Influence of Pauli Blocking Effects on the Mott Transition in Dense Hydrogen. Springer Series in Materials Science, 2010, , 37-61.	0.4	5
175	Contributions of Yuri L. Klimontovich to the kinetic theory of nonideal plasmas. Contributions To Plasma Physics, 2003, 43, 247-251.	0.5	4
176	GUEST EDITORS' EDITORIAL: NOISE IN CONDENSED MATTER AND COMPLEX SYSTEMS. Fluctuation and Noise Letters, 2005, 05, L159-L161.	1.0	4
177	Statistical theory of individual ionic activity coefficients of electrolytes with multiple " Charged ions including seawater. Journal of Molecular Liquids, 2022, 346, 117814.	2.3	4
178	SYNCHRONIZATION OF STOCHASTIC MOTIONS IN SWARMS OF ACTIVE BROWNIAN PARTICLES WITH GLOBAL COUPLING. Fluctuation and Noise Letters, 2003, 03, L137-L144.	1.0	3
179	Electron Dynamics in Tight-Binding Approximation -the Influence of Thermal Anharmonic Lattice Excitations. Contributions To Plasma Physics, 2009, 49, 529-535.	0.5	3
180	Physical basis of information and the relation to entropy: European Physical Journal: Special Topics, 2017, 226, 161-176.	1.2	3

#	ARTICLE	IF	CITATIONS
181	Nonlinear excitations and bound states of electrons, holes and solitons in bilayers of triangular lattices. European Physical Journal B, 2019, 92, 1.	0.6	3
182	Towards a Theory of Degenerated Solitons in Doped Lattices: Problems and Perspectives. Understanding Complex Systems, 2013, , 443-466.	0.3	3
183	Anharmonicity and Soliton-Mediated Transport: Thermal Solitons, Solitons and Electric Transport in Nonlinear Conducting Lattices. NATO Science for Peace and Security Series A: Chemistry and Biology, 2009, , 171-198.	0.5	3
184	Hydrogen, helium and lithium plasmas at high pressures. European Physical Journal: Special Topics, 2020, 229, 3403-3431.	1.2	3
185	A dissipative one-dimensional collision model with intermediate energy storage. Physica D: Nonlinear Phenomena, 2003, 185, 158-174.	1.3	2
186	Electric Microfield Distributions in Alkali Plasmas with Account of the Ion Structure. Contributions To Plasma Physics, 2009, 49, 388-402.	0.5	2
187	Equilibrium thermodynamics and thermodynamic processes in nonlinear systems. European Physical Journal B, 2009, 72, 247-256.	0.6	2
188	Molecular dynamic simulations of electric microfield distributions in a nonideal electron-positron plasma. Plasma Physics Reports, 2010, 36, 1161-1166.	0.3	2
189	Electron Transport Mediated by Nonlinear Excitations in Atomic Layers. Contributions To Plasma Physics, 2013, 53, 355-359.	0.5	2
190	Energy conversion in isothermal nonlinear irreversible processes "struggling for higher efficiency. European Physical Journal: Special Topics, 2017, 226, 2015-2030.	1.2	2
191	Control of electron and electron-hole pair dynamics on nonlinear lattice bilayers by strong solitons. Chaos, 2021, 31, 083123.	1.0	2
192	Effective Potentials, Energies, and Pair-distribution Functions of Plasmas by Monte-Carlo Simulations. Contributions To Plasma Physics, 2001, 41, 15-25.	0.5	2
193	Modellierungskonzepte der Synergetik und der Theorie der Selbstorganisation. , 2015, , 419-452.		2
194	Intrinsic electronic noise strength significantly alters a period doubling cascade to chaos. Chaos, 2021, 31, 113102.	1.0	2
195	Synchronization in ensembles of stochastic resonators. , 1997, , .		1
196	Ensemble-based control of evolutionary optimization algorithms. Physical Review E, 2002, 65, 046106.	0.8	1
197	Ensemble-based Control of Search Dynamics with Application to String Optimization. Zeitschrift Fur Physikalische Chemie, 2002, 216, .	1.4	1
198	Problems of bound states in plasmas "physical and chemical picture revisited. Physics of Particles and Nuclei, 2008, 39, 993-997.	0.2	1

#	ARTICLE	IF	CITATIONS
199	On bifurcations in complex ecological systems with diffusion and noise. <i>Ecological Complexity</i> , 2013, 14, 2-7.	1.4	1
200	Analysis of linear and nonlinear conductivity of plasma-like systems on the basis of the Fokker-Planck equation. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	1
201	Max Planck and Albrecht Unsöld on plasma partition functions and lowering of ionization energy. <i>Contributions To Plasma Physics</i> , 2017, 57, 441-451.	0.5	1
202	Quantum Statistics of Dilute Plasmas. <i>Lecture Notes in Physics</i> , 2019, , 171-210.	0.3	1
203	Effective Potentials, Energies, and Pair-distribution Functions of Plasmas by Monte-Carlo Simulations. , 2001, 41, 15.		1
204	Electron Transfer and Tunneling from Donor to Acceptor in Anharmonic Crystal Lattices. <i>Springer Series in Materials Science</i> , 2015, , 267-289.	0.4	1
205	Solitons and Charge Transport in Triangular and Quadratic Crystal Lattices. <i>Springer Series in Materials Science</i> , 2015, , 321-339.	0.4	1
206	Active Motion in Systems with Energy Supply. , 2001, , 119-142.		1
207	Experimental behavior of a dissipative Toda-Rayleigh ring. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	0
208	Quantum Wave Packet Dynamics: Langevin Equations for Hamiltonian Systems Imbedded into a Heat Bath. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	0
209	Dynamics and stochastics of swarms of self-propelled Brownian particles. , 2003, , .		0
210	Thermodynamics of the rupture in a Morse lattice. <i>European Physical Journal B</i> , 2010, 75, 443-450.	0.6	0
211	Electric Microfield Distributions in Alkali Plasmas with Account of the Ion Structure in a Moderately Coupled Approximation. <i>Contributions To Plasma Physics</i> , 2011, 51, 386-390.	0.5	0
212	THERMAL SOLITONS IN 1D AND 2D ANHARMONIC LATTICES – SOLELECTRONS AND THE ORGANIZATION OF NON-LINEAR FLUCTUATIONS IN LONG-LIVING DYNAMICAL STRUCTURES. , 2013, , 458-465.		0
213	Strong Correlations and Equation of State of Dense Gases. <i>Springer Series in Plasma Science and Technology</i> , 2017, , 67-115.	0.1	0
214	Equations of State for Strongly Coupled Partially Ionized Plasmas. <i>Springer Series in Plasma Science and Technology</i> , 2017, , 279-336.	0.1	0
215	Hopping Kinetics, Quantum Dynamics and Transport. <i>Springer Series in Plasma Science and Technology</i> , 2017, , 367-396.	0.1	0
216	Coulomb Systems. Screening and Ionization Problems. <i>Springer Series in Plasma Science and Technology</i> , 2017, , 117-191.	0.1	0

#	ARTICLE	IF	CITATIONS
217	Coulomb Correlations and EOS of Nondegenerate Nonideal Plasmas. Springer Series in Plasma Science and Technology, 2017, , 193-239.	0.1	0
218	Plasma Bound States in Grand Canonical and Mixed Representations. Springer Series in Plasma Science and Technology, 2017, , 241-278.	0.1	0
219	Kinetic Equations and Fluctuations in Nonideal Gases and Plasmas. Springer Series in Plasma Science and Technology, 2017, , 337-366.	0.1	0
220	Non-ideality and Deep Bound States in Plasmas. Lecture Notes in Physics, 2019, , 211-231.	0.3	0
221	Non-equilibrium: Kinetic Equations. Lecture Notes in Physics, 2019, , 233-266.	0.3	0
222	Real Gas Quantum Statistics. Lecture Notes in Physics, 2019, , 141-170.	0.3	0
223	Nonlinear Waves and Moving Clusters on Rings. , 2000, , 239-244.		0
224	Nonlinear Dynamics of Active Brownian Particles. , 2002, , 141-151.		0
225	Dynamics of Economic and Technological Search Processes in Complex Adaptive Landscapes. , 2002, , 79-96.		0
226	Anharmonic Oscillations, Dissipative Solitons and Non-Ohmic Supersonic Electric Transport. Lecture Notes in Physics, 2008, , 1-15.	0.3	0
227	Sensitive Networks – Modelling Self-Organization and Innovation Processes in Networks. Understanding Complex Systems, 2009, , 285-327.	0.3	0
228	Soliton-Mediated Electron Transfer and Electric Transport Arising from Coupling Electron Quantum Mechanics to Nonlinear Elasticity in Anharmonic Crystal Lattices. , 2013, , 47-62.		0
229	Two-Dimensional Anharmonic Crystal Lattices: Solitons, Solectrons, and Electric Conduction. Springer Proceedings in Physics, 2014, , 3-13.	0.1	0
230	Physics of Dense Gases, Nonideal Plasmas, and High Energy Density Matter. Springer Series in Plasma Science and Technology, 2017, , 1-66.	0.1	0
231	Evolutionary strategies for solving optimization problems. , 2002, , 240-254.		0