Klaus Ziegler

List of Publications by Year
in descending order

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176 papers	4,476 citations	257450 24 h-index	110387 64 g-index
178 all docs	178 docs citations	178 times ranked	4198 citing authors

#	Article	IF	Citations
1	Properties of graphene: a theoretical perspective. Advances in Physics, 2010, 59, 261-482.	14.4	970
2	New Electromagnetic Mode in Graphene. Physical Review Letters, 2007, 99, 016803.	7.8	720
3	Nonlinear electromagnetic response of graphene: frequency multiplication and the self-consistent-field effects. Journal of Physics Condensed Matter, 2008, 20, 384204.	1.8	339
4	Tunable Band Gap in Hydrogenated Quasi-Free-Standing Graphene. Nano Letters, 2010, 10, 3360-3366.	9.1	297
5	Minimal conductivity of graphene: Nonuniversal values from the Kubo formula. Physical Review B, 2007, 75, .	3.2	212
6	Robust Transport Properties in Graphene. Physical Review Letters, 2006, 97, 266802.	7.8	194
7	Delocalization of 2D Dirac Fermions: The Role of a Broken Supersymmetry. Physical Review Letters, 1998, 80, 3113-3116.	7.8	121
8	Dielectric function and plasmons in graphene. Europhysics Letters, 2009, 87, 27005.	2.0	101
9	Details of Disorder Matter in 2Dd-Wave Superconductors. Physical Review Letters, 2000, 85, 3926-3929.	7.8	62
10	Surface acoustic wave propagation in graphene. Physical Review B, 2010, 81, .	3.2	60
11	Light-scattering properties of random-oriented aggregates: Do they represent the properties of an ensemble of aggregates?. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 100, 199-206.	2.3	47
12	Quenched thermodynamics of the random bond Ising model on the square lattice. Nuclear Physics B, 1990, 344, 499-530.	2.5	46
13	Superfluidity of dipole excitons in the presence of band gaps in two-layer graphene. Physical Review B, 2012, 85, .	3.2	41
14	Nonzero Fermi Level Density of States for a Disorderedd-Wave Superconductor in Two Dimensions. Physical Review Letters, 1996, 77, 3013-3016.	7.8	40
15	Dirac spectrum in piecewise constant one-dimensional (1D) potentials. New Journal of Physics, 2010, 12, 123020.	2.9	39
16	Scaling behavior and universality near the quantum Hall transition. Physical Review B, 1997, 55, 10661-10670.	3.2	36
17	Random-Gap Model for Graphene and Graphene Bilayers. Physical Review Letters, 2009, 102, 126802.	7.8	36
18	Quantum phases in mixtures of Fermionic atoms. Physical Review A, 2005, 71, .	2.5	34

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19	Coupling of two Dirac particles. Physical Review A, 2013, 87, .	2.5	33
20	Rabi Oscillations in Landau-Quantized Graphene. Physical Review Letters, 2009, 102, 036803.	7.8	28
21	The electron capture ratio in the decay of I125. Nuclear Physics (journal), 1964, 50, 648-656.	1.9	27
22	Disordered system withn orbitals per site: Lagrange formulation without replica trick, and scaling law for the density of states. European Physical Journal B, 1982, 48, 293-304.	1.5	26
23	Diffusion in the random gap model of monolayer and bilayer graphene. Physical Review B, 2009, 79, .	3.2	26
24	Effect of weak disorder on the density of states in graphene. Physical Review B, 2008, 77, .	3.2	24
25	Large fluctuations of the first detected quantum return time. Physical Review Research, 2019, 1, .	3.6	23
26	Bose-Einstein condensation in a trap: The case of a dense condensate. Physical Review A, 1997, 56, 1438-1442.	2.5	22
27	Two-component Bose gas in an optical lattice at single-particle filling. Physical Review A, 2003, 68, .	2.5	22
28	Fluctuation Effects in the Flux Lattice of High-Temperature Superconductors. Europhysics Letters, 1989, 9, 277-282.	2.0	20
29	Coherent backscattering effects for discrete random media: Numerical and theoretical results. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 103, 131-145.	2.3	20
30	Valley symmetry breaking and gap tuning in graphene by spin doping. New Journal of Physics, 2011, 13, 035023.	2.9	20
31	Gapless metallic charge-density-wave phase driven by strong electron correlations. Physical Review B, 2014, 89, .	3.2	19
32	Lattice symmetries, spectral topology and opto-electronic properties of graphene-like materials. Europhysics Letters, 2017, 119, 27001.	2.0	19
33	Spontaneous symmetry breaking due to randomness. Nuclear Physics B, 1987, 285, 606-618.	2.5	17
34	Dirac fermions with disorder in two dimensions: Exact results. Physical Review B, 1996, 53, 9653-9657.	3.2	16
35	Long-range correlations in disordered graphene. Physical Review B, 2008, 78, .	3.2	16
36	Hilbert-space localization in closed quantum systems. Physical Review A, 2016, 93, .	2.5	16

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37	Disorder-Induced Phase in the Random Bond Ising Model on the Square Lattice. Europhysics Letters, 1991, 14, 415-420.	2.0	15
38	Strongly Correlated Bosons on a Lattice: A Slave-Boson Approach. Europhysics Letters, 1993, 23, 463-467.	2.0	15
39	Quantum walks: The mean first detected transition time. Physical Review Research, 2020, 2, .	3.6	15
40	Remark on the lattice field description of the disordered two-dimensional Ising model. Journal of Physics A, 1985, 18, L801-L804.	1.6	14
41	Lower bound for the Fermi-level density of states of a disorderedd-wave superconductor in two dimensions. Physical Review B, 1998, 57, 10825-10830.	3.2	12
42	Rigorous derivation of superposition -matrix approach from solution of inhomogeneous wave equation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 74-88.	2.3	12
43	Effect of the Coulomb interaction on the gap in monolayer and bilayer graphene. Physical Review B, 2010, 82, .	3.2	12
44	Superfluidity and collective properties of excitonic polaritons in gapped graphene in a microcavity. Physical Review B, 2012, 86, .	3.2	12
45	On the mean field instability of a random model for disordered superconductors. Communications in Mathematical Physics, 1988, 120, 177-193.	2.2	11
46	Density of states in disordered graphene. Physical Review B, 2009, 79, .	3.2	11
47	Optical Hall conductivity of systems with gapped spectral nodes. European Physical Journal B, 2013, 86, 1.	1.5	11
48	Instability of insulating states in optical lattices due to collective phonon excitations. Physical Review A, 2015, 91, .	2.5	11
49	Short Note on the Density of States in 3D Weyl Semimetals. Physical Review Letters, 2018, 121, 166401.	7.8	11
50	Tunable transmittance in anisotropic two-dimensional materials. Physical Review B, 2018, 97, .	3.2	11
51	First-detection time of a quantum state under random probing. Physical Review A, 2021, 103, .	2.5	11
52	Comment on "Critical Behavior of the Specific Heat in the Two Dimensional Site Diluted Ising System". Physical Review Letters, 1994, 73, 3488-3488.	7.8	10
53	Dilute system of hard-core bosons: a soluble limit. Physica A: Statistical Mechanics and Its Applications, 1994, 208, 177-190.	2.6	10
54	Is the peak value of Ïƒ xx at the quantum Hall transition universal?. Zeitschrift FÃ¼r Physik B-Condensed Matter, 1997, 104, 5-6.	1.1	10

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55	Floating Wigner molecules and possible phase transitions in quantum dots. European Physical Journal B, 2002, 28, 117-120.	1.5	10
56	Mixtures of fermionic atoms in an optical lattice. Nuclear Physics A, 2007, 790, 718c-722c.	1.5	10
57	Integer Quantum Hall Effect for Lattice Fermions. Europhysics Letters, 1994, 28, 49-54.	2.0	9
58	Localization of electromagnetic waves in random media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 79-80, 1189-1198.	2.3	9
59	FiniteEâŠ—Î²Jahn-Teller systems: A continued-fraction approach. Physical Review B, 2005, 72, .	3.2	9
60	Gaps and tails in graphene and graphane. New Journal of Physics, 2009, 11, 095006.	2.9	9
61	Dynamics of two-site Fermi-Hubbard and Bose-Hubbard systems. Physical Review A, 2010, 81, .	2.5	9
62	Optical conductivity of graphene in the presence of random lattice deformations. Physical Review B, 2011, 83, .	3.2	9
63	Dynamical creation of entangled bosonic states in a double well. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 145302.	1.5	9
64	On the phase diagram of a two-dimensional electronâ€“hole system. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 71, 7-13.	2.7	9
65	Quantum transport in 3D Weyl semimetals: Is there a metal-insulator transition?. European Physical Journal B, 2016, 89, 1.	1.5	9
66	RPA for the linewidth of the van der Pol Oscillator. Zeitschrift FÃ¼r Physik B Condensed Matter and Quanta, 1980, 37, 339-341.	1.9	8
67	Density fluctuations of a hard-core Bose gas in a one-dimensional lattice near the Mott insulating phase. Physical Review A, 2005, 71, .	2.5	8
68	AC transport properties of single and bilayer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 755-758.	2.7	8
69	Quantum diffusion in two-dimensional random systems with particleâ€“hole symmetry. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 335001.	2.1	8
70	Short note on the Rabi model. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 452001.	2.1	8
71	Robust quantum transport at particle-hole symmetry. Europhysics Letters, 2021, 135, 17001.	2.0	8
72	The role of symmetry breaking effects in a random fermion model. Nuclear Physics B, 1987, 280, 661-679.	2.5	7

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73	Statistics of colored flux lines. Journal of Statistical Physics, 1991, 64, 277-308.	1.2	7
74	Two-Dimensional Electrons in a Strong Magnetic Field with Disorder: Divergence of the Localization Length. Europhysics Letters, 1995, 31, 549-554.	2.0	7
75	Condensation of a hard-core Bose gas. Physical Review A, 2000, 62, .	2.5	7
76	Interacting bosons in an optical lattice: Bose-Einstein condensates and Mott insulator. Physical Review A, 2007, 75, .	2.5	7
77	Transport in finite graphene samples with a random gap. Physical Review B, 2010, 81, .	3.2	7
78	Renormalized transport properties of randomly gapped two-dimensional Dirac fermions. Physical Review B, 2012, 86, .	3.2	7
79	Quantum transport with strong scattering: beyond the nonlinear sigma model. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 055102.	2.1	7
80	Spontaneous mass generation due to phonons in a two-dimensional Dirac fermion system. Annals of Physics, 2019, 400, 262-278.	2.8	7
81	The (n=0)-component Gross-Neveu model as a description of polymers in two dimensions. Journal of Physics A, 1988, 21, L661-L666.	1.6	6
82	Condensation of directed macromolecules. Physica A: Statistical Mechanics and Its Applications, 1991, 179, 301-310.	2.6	6
83	Ziegler, Hettler, and Hirschfeld Reply:. Physical Review Letters, 1997, 78, 3982-3982.	7.8	6
84	Level statistics and localization in a two-dimensional quantum percolation problem. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 491-499.	0.6	6
85	Interacting Bose Gas in an Optical Lattice. Journal of Low Temperature Physics, 2002, 126, 1431-1443.	1.4	6
86	Disorder physics in mixtures of fermionic atoms. Laser Physics, 2006, 16, 699-706.	1.2	6
87	Suppression of Magnetotransport in Strongly Disordered Graphene. Physical Review Letters, 2008, 100, 166801.	7.8	6
88	Anderson localization in correlated fermionic mixtures. Europhysics Letters, 2009, 85, 60003.	2.0	6
89	Ising instability of a Holstein phonon mode in graphene. Physical Review B, 2011, 84, .	3.2	6
90	Dynamical symmetry breaking in a 2D electron gas with a spectral node. European Physical Journal B, 2013, 86, 1.	1.5	6

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91	Next-Nearest-Neighbor Tight-Binding Model of Plasmons in Graphene. Graphene, 2013, 02, 97-101.	1.0	6
92	Driving quantum systems with periodic conditional measurements. Physical Review Research, 2022, 4, .	3.6	6
93	On the reentrant behaviour of the two-dimensional Ising model. Journal of Magnetism and Magnetic Materials, 1986, 60, 311-313.	2.3	5
94	Mean-field theory for melting of the flux-line lattice. Physical Review B, 1992, 46, 6647-6650.	3.2	5
95	Light scattering in an ensemble of complex particles: a random-matrix approach. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 88, 173-189.	2.3	5
96	Electronâ€“phonon interaction for adiabatic anharmonic phonons. Journal of Physics Condensed Matter, 2005, 17, 5489-5497.	1.8	5
97	Diffusive transport in graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2622-2625.	2.7	5
98	Perturbative analysis of the conductivity in disordered monolayer and bilayer graphene. Physical Review B, 2011, 84, .	3.2	5
99	Two-parameter scaling theory of transport near a spectral node. Physical Review B, 2014, 90, .	3.2	5
100	Emergent Chern-Simons excitations due to electron-phonon interaction. Physical Review B, 2016, 93, .	3.2	5
101	Corrections to the self-consistent Born approximation for Weyl fermions. Physical Review B, 2017, 96, .	3.2	5
102	Randomly repeated measurements on quantum systems: correlations and topological invariants of the quantum evolution. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 395302.	2.1	5
103	Anomalous Josephson Effect of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:math> -Wave Pairing States in Chiral Double Layers. Physical Review Letters, 2022, 128, 157001.	7.8	5
104	Invalidity of the replica trick for a two-dimensional fermion model. Journal of Physics A, 1986, 19, L943-L947.	1.6	4
105	Effect of disorder on a system of flux lines. Physical Review B, 1990, 42, 7898-7900.	3.2	4
106	Quasiparticle states in disordered superfluids. European Physical Journal B, 1992, 86, 33-38.	1.5	4
107	On Hoffmann-JÃ¸rgensen-type Inequalities for Outer Expectations with Applications. Results in Mathematics, 1997, 32, 179-192.	0.8	4
108	Quantized transport in two-dimensional spin-ordered structures. Philosophical Magazine, 2006, 86, 1667-1687.	1.6	4

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109	A renormalized Grossâ€“Pitaevskii theory and vortices in a strongly interacting Bose gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 629-640.	1.5	4
110	Frequency splitting of intervalley phonons in graphene. Europhysics Letters, 2011, 95, 36003.	2.0	4
111	Ray modes from strong random scattering in media with degenerate linear spectrum. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 125002.	2.1	4
112	Pairing transition in a double layer with interlayer Coulomb repulsion. Physical Review Research, 2020, 2, .	3.6	4
113	An electron in a random potential: A representation of the one-particle green function. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 92, 339-340.	2.1	3
114	Comment on â€˜â€˜Supersymmetric treatment of random disorder in the continuum model of polyacetyleneâ€™â€™. Physical Review Letters, 1987, 59, 152-152.	7.8	3
115	Self-consistent approach for the two-dimensional Ising model with random bonds. European Physical Journal B, 1992, 89, 361-368.	1.5	3
116	An Exactly Soluble Model of Directed Polymers with Multiple Phase Transitions. Europhysics Letters, 1995, 29, 705-710.	2.0	3
117	Quantum Hall transition in an array of quantum dots. Physical Review B, 1997, 55, 10602-10606.	3.2	3
118	Density of states width-parity effect ind-wave superconducting quantum wires. Physical Review B, 2001, 64, .	3.2	3
119	Jahn-Teller systems at half filling: Crossover from Heisenberg to Ising behavior. Physical Review B, 2006, 74, .	3.2	3
120	Dimer states in atomic mixtures. Physical Review A, 2008, 77, .	2.5	3
121	Photonic spectral density of coupled optical cavities. Laser Physics, 2012, 22, 331-337.	1.2	3
122	Linear response peculiarity of a two-dimensional Dirac electron gas at weak scattering. Physical Review B, 2014, 89, .	3.2	3
123	Finite-size scaling in a 2D disordered electron gas with spectral nodes. Journal of Physics Condensed Matter, 2016, 28, 305701.	1.8	3
124	Deformation of a graphene sheet: Interaction of fermions with phonons. Physical Review B, 2021, 103, .	3.2	3
125	Quantum Hall effect induced by electronâ€“phonon interaction. Annals of Physics, 2020, 418, 168199.	2.8	3
126	Divergencies in a vector model with hyperbolic symmetry on a chain. Zeitschrift FÃ¼r Physik B Condensed Matter and Quanta, 1981, 43, 275-280.	1.9	2

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127	Scaling relation for the density of states of a disordered n-orbital model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 99, 19-21.	2.1	2
128	On the critical temperature of the two-dimensional random bond Ising model. Journal of Magnetism and Magnetic Materials, 1984, 45, 239-244.	2.3	2
129	Diffusion of flux lines in a random potential. European Physical Journal B, 1991, 84, 17-30.	1.5	2
130	Disordered magnetic systems in two dimensions. Journal of Magnetism and Magnetic Materials, 1991, 96, 77-81.	2.3	2
131	Dynamics of flux lines: thermal fluctuations. European Physical Journal B, 1991, 82, 163-169.	1.5	2
132	Transport in a nearly periodic potential with a magnetic field. Journal of Physics Condensed Matter, 1998, 10, 6749-6760.	1.8	2
133	Tails of the density of states of two-dimensional Dirac fermions. Annalen Der Physik, 2000, 9, 27-37.	2.4	2
134	Interacting bosons in an optical lattice. Annalen Der Physik, 2008, 17, NA-NA.	2.4	2
135	Formation of vortices in a dense Bose-Einstein condensate. Physical Review A, 2008, 78, .	2.5	2
136	A strongly attractive Fermi gas in an optical lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3869-3874.	2.1	2
137	Anderson localization in a two-dimensional random gap model. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 172-176.	2.7	2
138	Weak-localization approach to a 2D electron gas with a spectral node. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 71, 14-20.	2.7	2
139	Phonon instability of insulating states in optical lattices. Journal of Physics: Conference Series, 2016, 691, 012014.	0.4	2
140	Ray Modes in Random Gap Systems. Annalen Der Physik, 2017, 529, 1600345.	2.4	2
141	Conductivity of disordered 2d binodal Dirac electron gas: effect of internode scattering. Philosophical Magazine, 2018, 98, 1799-1822.	1.6	2
142	Probing Many-Body Systems Near Spectral Degeneracies. Symmetry, 2021, 13, 1796.	2.2	2
143	The Hubbard model, spin degeneracy and Ising spins. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 839-853.	0.6	2
144	Symmetries and broken symmetries in a model of disordered polyacetylene. European Physical Journal B, 1990, 78, 281-288.	1.5	1

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145	Disorder induced phase transition in the Abrikosov phase of superconductors. Physica B: Condensed Matter, 1990, 165-166, 1117-1118.	2.7	1
146	Incommensurate phase on a disordered surface: Instability against the formation of overhangs and finite loops. Physical Review E, 1995, 51, 3359-3362.	2.1	1
147	Anomalous frequency-dependent conductivity near the quantum Hall transition. Physical Review B, 1999, 59, 5738-5744.	3.2	1
148	Electron-phonon interaction in correlated electronic systems: polarons and the formation of orbital ordering. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2828-2831.	0.8	1
149	Noise correlations of a strongly attractive spin-1/2 Fermi gas in an optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 065304.	1.5	1
150	Inelastic scattering of atoms in a double well. Physical Review A, 2011, 83, .	2.5	1
151	Scaling behavior of disordered lattice fermions in two dimensions. European Physical Journal B, 2014, 87, 1.	1.5	1
152	Sensitive linear response of an electron-hole superfluid in a periodic potential. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 92, 1-6.	2.7	1
153	Controlling dynamical entanglement in a Josephson tunneling junction. International Journal of Modern Physics B, 2017, 31, 1750255.	2.0	1
154	Circular edge states in photonic crystals with a Dirac node. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 107.	2.1	1
155	Zero mode protection at particle-hole symmetry: a geometric interpretation. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 455101.	2.1	1
156	Metalâ€“Insulator Transition in Three-Dimensional Semiconductors. Symmetry, 2019, 11, 1345.	2.2	1
157	Quantized dynamics in closed quantum systems. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 205303.	2.1	1
158	Electron pairing with gapless excitations in mixed double layers. Physical Review B, 2021, 104, .	3.2	1
159	One-dimensional randomness on a two-dimensional lattice: A soluble model. Physical Review B, 1987, 35, 5273-5275.	3.2	0
160	Low-temperature properties of superconducting materials on sublattice structures. Physical Review B, 1989, 39, 4736-4739.	3.2	0
161	Effect of anisotropy in the Abrikosov phase of copper oxide superconductors. European Physical Journal B, 1991, 82, 335-338.	1.5	0
162	Phase transitions of fermions coupled to a gauge field: a quantum Monte Carlo approach. Physica A: Statistical Mechanics and Its Applications, 1995, 218, 461-470.	2.6	0

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163	Characterization of the local density-of-states fluctuations near the integer quantum Hall transition in a quantum-dot array. Physical Review B, 1997, 56, 9789-9797.	3.2	0
164	Some Uniform Ergodic Inequalities in the Nonmeasurable Case. Journal of Functional Analysis, 1998, 154, 531-541.	1.4	0
165	The Hubbard model, spin degeneracy and Ising spins. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 839-853.	0.6	0
166	Random-matrix approach to light scattering on complex particles. , 0, , .		0
167	Correlations in systems of complex directed macromolecules. Journal of Physics Condensed Matter, 2005, 17, S1809-S1816.	1.8	0
168	Light scattering on random dielectric layers. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2329-2337.	2.3	0
169	Anderson localization in atomic mixtures. Journal of Physics: Conference Series, 2012, 376, 012013.	0.4	0
170	Dynamical entanglement in coupled systems. Journal of Physics: Conference Series, 2014, 497, 012032.	0.4	0
171	Two-dimensional expansion of a condensed dense Bose gas. Physica D: Nonlinear Phenomena, 2015, 307, 77-81.	2.8	0
172	Short note on the excitonic Mott phase. Philosophical Magazine, 2016, 96, 1360-1368.	1.6	0
173	Asymptotic Solutions of a Discrete SchrÃ¶dinger Equation Arising from a Dirac Equation with Random Mass. , 2004, , 349-358.		0
174	ANDERSON LOCALIZATION IN ATOMIC MIXTURES. , 2008, , .		0
175	FUNCTIONAL-INTEGRAL REPRESENTATION OF ATOMIC MIXTURES. , 2008, , .		0
176	Two-Dimensional Lattice Fermions with Random Gap. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 15-26.	0.3	0