

Klaus Ziegler

List of Publications by Year in descending order

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176
papers

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257450

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178
all docs

178
docs citations

178
times ranked

4198
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous Josephson Effect of s -Wave Pairing States in Chiral Double Layers. Physical Review Letters, 2022, 128, 157001.	7.8	5
2	Driving quantum systems with periodic conditional measurements. Physical Review Research, 2022, 4, .	3.6	6
3	First-detection time of a quantum state under random probing. Physical Review A, 2021, 103, .	2.5	11
4	Quantized dynamics in closed quantum systems. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 205303.	2.1	1
5	Deformation of a graphene sheet: Interaction of fermions with phonons. Physical Review B, 2021, 103, .	3.2	3
6	Robust quantum transport at particle-hole symmetry. Europhysics Letters, 2021, 135, 17001.	2.0	8
7	Probing Many-Body Systems Near Spectral Degeneracies. Symmetry, 2021, 13, 1796.	2.2	2
8	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
9	Electron pairing with gapless excitations in mixed double layers. Physical Review B, 2021, 104, .	3.2	1
10	Quantum Hall effect induced by electron-phonon interaction. Annals of Physics, 2020, 418, 168199.	2.8	3
11	Quantum walks: The mean first detected transition time. Physical Review Research, 2020, 2, .	3.6	15
12	Pairing transition in a double layer with interlayer Coulomb repulsion. Physical Review Research, 2020, 2, .	3.6	4
13	Zero mode protection at particle-hole symmetry: a geometric interpretation. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 455101.	2.1	1
14	Metal-Insulator Transition in Three-Dimensional Semiconductors. Symmetry, 2019, 11, 1345.	2.2	1
15	Spontaneous mass generation due to phonons in a two-dimensional Dirac fermion system. Annals of Physics, 2019, 400, 262-278.	2.8	7
16	Large fluctuations of the first detected quantum return time. Physical Review Research, 2019, 1, .	3.6	23
17	Conductivity of disordered 2d binodal Dirac electron gas: effect of internode scattering. Philosophical Magazine, 2018, 98, 1799-1822.	1.6	2
18	Short Note on the Density of States in 3D Weyl Semimetals. Physical Review Letters, 2018, 121, 166401.	7.8	11

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19	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
20	Tunable transmittance in anisotropic two-dimensional materials. Physical Review B, 2018, 97, .	3.2	11
21	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
22	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
23	Lattice symmetries, spectral topology and opto-electronic properties of graphene-like materials. Europhysics Letters, 2017, 119, 27001.	2.0	19
24	Ray Modes in Random Gap Systems. Annalen Der Physik, 2017, 529, 1600345.	2.4	2
25	Controlling dynamical entanglement in a Josephson tunneling junction. International Journal of Modern Physics B, 2017, 31, 1750255.	2.0	1
26	Corrections to the self-consistent Born approximation for Weyl fermions. Physical Review B, 2017, 96, .	3.2	5
27	Quantum transport in 3D Weyl semimetals: Is there a metal-insulator transition?. European Physical Journal B, 2016, 89, 1.	1.5	9
28	Finite-size scaling in a 2D disordered electron gas with spectral nodes. Journal of Physics Condensed Matter, 2016, 28, 305701.	1.8	3
29	Hilbert-space localization in closed quantum systems. Physical Review A, 2016, 93, .	2.5	16
30	Emergent Chern-Simons excitations due to electron-phonon interaction. Physical Review B, 2016, 93, .	3.2	5
31	Short note on the excitonic Mott phase. Philosophical Magazine, 2016, 96, 1360-1368.	1.6	0
32	Phonon instability of insulating states in optical lattices. Journal of Physics: Conference Series, 2016, 691, 012014.	0.4	2
33	Quantum transport with strong scattering: beyond the nonlinear sigma model. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 055102.	2.1	7
34	Two-dimensional expansion of a condensed dense Bose gas. Physica D: Nonlinear Phenomena, 2015, 307, 77-81.	2.8	0
35	Instability of insulating states in optical lattices due to collective phonon excitations. Physical Review A, 2015, 91, .	2.5	11
36	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

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37	On the phase diagram of a two-dimensional electron-hole system. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 71, 7-13.	2.7	9
38	Dynamical entanglement in coupled systems. Journal of Physics: Conference Series, 2014, 497, 012032.	0.4	0
39	Two-parameter scaling theory of transport near a spectral node. Physical Review B, 2014, 90, .	3.2	5
40	Linear response peculiarity of a two-dimensional Dirac electron gas at weak scattering. Physical Review B, 2014, 89, .	3.2	3
41	Gapless metallic charge-density-wave phase driven by strong electron correlations. Physical Review B, 2014, 89, .	3.2	19
42	Scaling behavior of disordered lattice fermions in two dimensions. European Physical Journal B, 2014, 87, 1.	1.5	1
43	Anderson localization in a two-dimensional random gap model. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 172-176.	2.7	2
44	Dynamical symmetry breaking in a 2D electron gas with a spectral node. European Physical Journal B, 2013, 86, 1.	1.5	6
45	Next-Nearest-Neighbor Tight-Binding Model of Plasmons in Graphene. Graphene, 2013, 02, 97-101.	1.0	6
46	Coupling of two Dirac particles. Physical Review A, 2013, 87, .	2.5	33
47	Optical Hall conductivity of systems with gapped spectral nodes. European Physical Journal B, 2013, 86, 1.	1.5	11
48	Two-Dimensional Lattice Fermions with Random Gap. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 15-26.	0.3	0
49	Quantum diffusion in two-dimensional random systems with particle-hole symmetry. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 335001.	2.1	8
50	Short note on the Rabi model. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 452001.	2.1	8
51	Renormalized transport properties of randomly gapped two-dimensional Dirac fermions. Physical Review B, 2012, 86, .	3.2	7
52	Superfluidity of dipole excitons in the presence of band gaps in two-layer graphene. Physical Review B, 2012, 85, .	3.2	41
53	Anderson localization in atomic mixtures. Journal of Physics: Conference Series, 2012, 376, 012013.	0.4	0
54	Superfluidity and collective properties of excitonic polaritons in gapped graphene in a microcavity. Physical Review B, 2012, 86, .	3.2	12

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55	Photonic spectral density of coupled optical cavities. Laser Physics, 2012, 22, 331-337.	1.2	3
56	Frequency splitting of intervalley phonons in graphene. Europhysics Letters, 2011, 95, 36003.	2.0	4
57	Optical conductivity of graphene in the presence of random lattice deformations. Physical Review B, 2011, 83, .	3.2	9
58	Inelastic scattering of atoms in a double well. Physical Review A, 2011, 83, .	2.5	1
59	Ising instability of a Holstein phonon mode in graphene. Physical Review B, 2011, 84, .	3.2	6
60	Perturbative analysis of the conductivity in disordered monolayer and bilayer graphene. Physical Review B, 2011, 84, .	3.2	5
61	Valley symmetry breaking and gap tuning in graphene by spin doping. New Journal of Physics, 2011, 13, 035023.	2.9	20
62	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
63	Properties of graphene: a theoretical perspective. Advances in Physics, 2010, 59, 261-482.	14.4	970
64	AC transport properties of single and bilayer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 755-758.	2.7	8
65	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
66	Effect of the Coulomb interaction on the gap in monolayer and bilayer graphene. Physical Review B, 2010, 82, .	3.2	12
67	Dynamics of two-site Fermi-Hubbard and Bose-Hubbard systems. Physical Review A, 2010, 81, .	2.5	9
68	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
69	Surface acoustic wave propagation in graphene. Physical Review B, 2010, 81, .	3.2	60
70	Tunable Band Gap in Hydrogenated Quasi-Free-Standing Graphene. Nano Letters, 2010, 10, 3360-3366.	9.1	297
71	Transport in finite graphene samples with a random gap. Physical Review B, 2010, 81, .	3.2	7
72	Dirac spectrum in piecewise constant one-dimensional (1D) potentials. New Journal of Physics, 2010, 12, 123020.	2.9	39

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73	Diffusion in the random gap model of monolayer and bilayer graphene. Physical Review B, 2009, 79, .	3.2	26
74	Rabi Oscillations in Landau-Quantized Graphene. Physical Review Letters, 2009, 102, 036803.	7.8	28
75	Anderson localization in correlated fermionic mixtures. Europhysics Letters, 2009, 85, 60003.	2.0	6
76	Gaps and tails in graphene and graphane. New Journal of Physics, 2009, 11, 095006.	2.9	9
77	Dielectric function and plasmons in graphene. Europhysics Letters, 2009, 87, 27005.	2.0	101
78	Random-Gap Model for Graphene and Graphene Bilayers. Physical Review Letters, 2009, 102, 126802.	7.8	36
79	Density of states in disordered graphene. Physical Review B, 2009, 79, .	3.2	11
80	Diffusive transport in graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2622-2625.	2.7	5
81	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
82	Light scattering on random dielectric layers. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2329-2337.	2.3	0
83	Interacting bosons in an optical lattice. Annalen Der Physik, 2008, 17, NA-NA.	2.4	2
84	Nonlinear electromagnetic response of graphene: frequency multiplication and the self-consistent-field effects. Journal of Physics Condensed Matter, 2008, 20, 384204.	1.8	339
85	Long-range correlations in disordered graphene. Physical Review B, 2008, 78, .	3.2	16
86	Suppression of Magnetotransport in Strongly Disordered Graphene. Physical Review Letters, 2008, 100, 166801.	7.8	6
87	Dimer states in atomic mixtures. Physical Review A, 2008, 77, .	2.5	3
88	Formation of vortices in a dense Bose-Einstein condensate. Physical Review A, 2008, 78, .	2.5	2
89	Effect of weak disorder on the density of states in graphene. Physical Review B, 2008, 77, .	3.2	24
90	ANDERSON LOCALIZATION IN ATOMIC MIXTURES. , 2008, , .		0

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91	FUNCTIONAL-INTEGRAL REPRESENTATION OF ATOMIC MIXTURES. , 2008, , .		0
92	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
93	Interacting bosons in an optical lattice: Bose-Einstein condensates and Mott insulator. Physical Review A, 2007, 75, .	2.5	7
94	New Electromagnetic Mode in Graphene. Physical Review Letters, 2007, 99, 016803.	7.8	720
95	Mixtures of fermionic atoms in an optical lattice. Nuclear Physics A, 2007, 790, 718c-722c.	1.5	10
96	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
97	Minimal conductivity of graphene: Nonuniversal values from the Kubo formula. Physical Review B, 2007, 75, .	3.2	212
98	Robust Transport Properties in Graphene. Physical Review Letters, 2006, 97, 266802.	7.8	194
99	Quantized transport in two-dimensional spin-ordered structures. Philosophical Magazine, 2006, 86, 1667-1687.	1.6	4
100	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
101	Disorder physics in mixtures of fermionic atoms. Laser Physics, 2006, 16, 699-706.	1.2	6
102	Jahn-Teller systems at half filling: Crossover from Heisenberg to Ising behavior. Physical Review B, 2006, 74, .	3.2	3
103	Electronâ€phonon interaction for adiabatic anharmonic phonons. Journal of Physics Condensed Matter, 2005, 17, 5489-5497.	1.8	5
104	Correlations in systems of complex directed macromolecules. Journal of Physics Condensed Matter, 2005, 17, S1809-S1816.	1.8	0
105	Finiteâ€Jahn-Teller systems: A continued-fraction approach. Physical Review B, 2005, 72, .	3.2	9
106	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
107	Quantum phases in mixtures of Fermionic atoms. Physical Review A, 2005, 71, .	2.5	34
108	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

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109	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
110	Asymptotic Solutions of a Discrete Schrödinger Equation Arising from a Dirac Equation with Random Mass. , 2004, , 349-358.		0
111	Localization of electromagnetic waves in random media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 79-80, 1189-1198.	2.3	9
112	Two-component Bose gas in an optical lattice at single-particle filling. Physical Review A, 2003, 68, .	2.5	22
113	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
114	Interacting Bose Gas in an Optical Lattice. Journal of Low Temperature Physics, 2002, 126, 1431-1443.	1.4	6
115	Floating Wigner molecules and possible phase transitions in quantum dots. European Physical Journal B, 2002, 28, 117-120.	1.5	10
116	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
117	Density of states width-parity effect ind-wave superconducting quantum wires. Physical Review B, 2001, 64, .	3.2	3
118	Tails of the density of states of two-dimensional Dirac fermions. Annalen Der Physik, 2000, 9, 27-37.	2.4	2
119	Details of Disorder Matter in 2Dd-Wave Superconductors. Physical Review Letters, 2000, 85, 3926-3929.	7.8	62
120	Condensation of a hard-core Bose gas. Physical Review A, 2000, 62, .	2.5	7
121	Anomalous frequency-dependent conductivity near the quantum Hall transition. Physical Review B, 1999, 59, 5738-5744.	3.2	1
122	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
123	Some Uniform Ergodic Inequalities in the Nonmeasurable Case. Journal of Functional Analysis, 1998, 154, 531-541.	1.4	0
124	Transport in a nearly periodic potential with a magnetic field. Journal of Physics Condensed Matter, 1998, 10, 6749-6760.	1.8	2
125	Lower bound for the Fermi-level density of states of a disordereddd-wave superconductor in two dimensions. Physical Review B, 1998, 57, 10825-10830.	3.2	12
126	Delocalization of 2D Dirac Fermions: The Role of a Broken Supersymmetry. Physical Review Letters, 1998, 80, 3113-3116.	7.8	121

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127	Characterization of the local density-of-states fluctuations near the integer quantum Hall transition in a quantum-dot array. <i>Physical Review B</i> , 1997, 56, 9789-9797.	3.2	0
128	Bose-Einstein condensation in a trap: The case of a dense condensate. <i>Physical Review A</i> , 1997, 56, 1438-1442.	2.5	22
129	Quantum Hall transition in an array of quantum dots. <i>Physical Review B</i> , 1997, 55, 10602-10606.	3.2	3
130	Ziegler, Hettler, and Hirschfeld Reply:. <i>Physical Review Letters</i> , 1997, 78, 3982-3982.	7.8	6
131	Scaling behavior and universality near the quantum Hall transition. <i>Physical Review B</i> , 1997, 55, 10661-10670.	3.2	36
132	On Hoffmann-Jørgensen-type Inequalities for Outer Expectations with Applications. <i>Results in Mathematics</i> , 1997, 32, 179-192.	0.8	4
133	Is the peak value of ρ_{xx} at the quantum Hall transition universal?. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 104, 5-6.	1.1	10
134	Nonzero Fermi Level Density of States for a Disordered d-Wave Superconductor in Two Dimensions. <i>Physical Review Letters</i> , 1996, 77, 3013-3016.	7.8	40
135	Dirac fermions with disorder in two dimensions: Exact results. <i>Physical Review B</i> , 1996, 53, 9653-9657.	3.2	16
136	Phase transitions of fermions coupled to a gauge field: a quantum Monte Carlo approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995, 218, 461-470.	2.6	0
137	Incommensurate phase on a disordered surface: Instability against the formation of overhangs and finite loops. <i>Physical Review E</i> , 1995, 51, 3359-3362.	2.1	1
138	Two-Dimensional Electrons in a Strong Magnetic Field with Disorder: Divergence of the Localization Length. <i>Europhysics Letters</i> , 1995, 31, 549-554.	2.0	7
139	An Exactly Soluble Model of Directed Polymers with Multiple Phase Transitions. <i>Europhysics Letters</i> , 1995, 29, 705-710.	2.0	3
140	Integer Quantum Hall Effect for Lattice Fermions. <i>Europhysics Letters</i> , 1994, 28, 49-54.	2.0	9
141	Comment on "Critical Behavior of the Specific Heat in the Two Dimensional Site Diluted Ising System". <i>Physical Review Letters</i> , 1994, 73, 3488-3488.	7.8	10
142	Dilute system of hard-core bosons: a soluble limit. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 208, 177-190.	2.6	10
143	Strongly Correlated Bosons on a Lattice: A Slave-Boson Approach. <i>Europhysics Letters</i> , 1993, 23, 463-467.	2.0	15
144	Mean-field theory for melting of the flux-line lattice. <i>Physical Review B</i> , 1992, 46, 6647-6650.	3.2	5

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145	Self-consistent approach for the two-dimensional Ising model with random bonds. European Physical Journal B, 1992, 89, 361-368.	1.5	3
146	Quasiparticle states in disordered superfluids. European Physical Journal B, 1992, 86, 33-38.	1.5	4
147	Condensation of directed macromolecules. Physica A: Statistical Mechanics and Its Applications, 1991, 179, 301-310.	2.6	6
148	Effect of anisotropy in the Abrikosov phase of copper oxide superconductors. European Physical Journal B, 1991, 82, 335-338.	1.5	0
149	Diffusion of flux lines in a random potential. European Physical Journal B, 1991, 84, 17-30.	1.5	2
150	Disordered magnetic systems in two dimensions. Journal of Magnetism and Magnetic Materials, 1991, 96, 77-81.	2.3	2
151	Dynamics of flux lines: thermal fluctuations. European Physical Journal B, 1991, 82, 163-169.	1.5	2
152	Statistics of colored flux lines. Journal of Statistical Physics, 1991, 64, 277-308.	1.2	7
153	Disorder-Induced Phase in the Random Bond Ising Model on the Square Lattice. Europhysics Letters, 1991, 14, 415-420.	2.0	15
154	Symmetries and broken symmetries in a model of disordered polyacetylene. European Physical Journal B, 1990, 78, 281-288.	1.5	1
155	Disorder induced phase transition in the Abrikosov phase of superconductors. Physica B: Condensed Matter, 1990, 165-166, 1117-1118.	2.7	1
156	Effect of disorder on a system of flux lines. Physical Review B, 1990, 42, 7898-7900.	3.2	4
157	Quenched thermodynamics of the random bond Ising model on the square lattice. Nuclear Physics B, 1990, 344, 499-530.	2.5	46
158	Low-temperature properties of superconducting materials on sublattice structures. Physical Review B, 1989, 39, 4736-4739.	3.2	0
159	Fluctuation Effects in the Flux Lattice of High-Temperature Superconductors. Europhysics Letters, 1989, 9, 277-282.	2.0	20
160	On the mean field instability of a random model for disordered superconductors. Communications in Mathematical Physics, 1988, 120, 177-193.	2.2	11
161	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
162	One-dimensional randomness on a two-dimensional lattice: A soluble model. Physical Review B, 1987, 35, 5273-5275.	3.2	0

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163	Comment on "Supersymmetric treatment of random disorder in the continuum model of polyacetylene". Physical Review Letters, 1987, 59, 152-152.	7.8	3
164	The role of symmetry breaking effects in a random fermion model. Nuclear Physics B, 1987, 280, 661-679.	2.5	7
165	Spontaneous symmetry breaking due to randomness. Nuclear Physics B, 1987, 285, 606-618.	2.5	17
166	On the reentrant behaviour of the two-dimensional Ising model. Journal of Magnetism and Magnetic Materials, 1986, 60, 311-313.	2.3	5
167	Invalidity of the replica trick for a two-dimensional fermion model. Journal of Physics A, 1986, 19, L943-L947.	1.6	4
168	Remark on the lattice field description of the disordered two-dimensional Ising model. Journal of Physics A, 1985, 18, L801-L804.	1.6	14
169	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
170	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
171	Disordered system with n 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
172	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
173	Divergencies in a vector model with hyperbolic symmetry on a chain. Zeitschrift für Physik B Condensed Matter and Quanta, 1981, 43, 275-280.	1.9	2
174	RPA for the linewidth of the van der Pol Oscillator. Zeitschrift für Physik B Condensed Matter and Quanta, 1980, 37, 339-341.	1.9	8
175	The electron capture ratio in the decay of I125. Nuclear Physics (journal), 1964, 50, 648-656.	1.9	27
176	Random-matrix approach to light scattering on complex particles. , 0, , .		0