JÃ¼rgen KÃ¶nig

List of Publications by Year
in descending order

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146	7,153	47006	58581
papers	citations	47	82
		h-index	g-index

148	148	148	2611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prospects for high temperature ferromagnetism in (Ga,Mn)As semiconductors. Physical Review B, 2005, 72, .	3.2	382
2	Resonant tunneling through ultrasmall quantum dots: Zero-bias anomalies, magnetic-field dependence, and boson-assisted transport. Physical Review B, 1996, 54, 16820-16837.	3.2	310
3	Kondo Effect in Quantum Dots Coupled to Ferromagnetic Leads. Physical Review Letters, 2003, 91, 127203.	7.8	300
4	Theory of Diluted Magnetic Semiconductor Ferromagnetism. Physical Review Letters, 2000, 84, 5628-5631.	7.8	282
5	Kondo Correlations and the Fano Effect in Closed Aharonov-Bohm Interferometers. Physical Review Letters, 2001, 87, 156803.	7.8	254
6	Zero-Bias Anomalies and Boson-Assisted Tunneling Through Quantum Dots. Physical Review Letters, 1996, 76, 1715-1718.	7.8	222
7	Theory of transport through quantum-dot spin valves in the weak-coupling regime. Physical Review B, 2004, 70, .	3.2	216
8	Kondo Effect in the Presence of Itinerant-Electron Ferromagnetism Studied with the Numerical Renormalization Group Method. Physical Review Letters, 2003, 91, 247202.	7.8	186
9	Violation of the Wiedemann-Franz Law in a Single-Electron Transistor. Physical Review Letters, 2008, 100, 066801.	7.8	174
10	Interaction-Driven Spin Precession in Quantum-Dot Spin Valves. Physical Review Letters, 2003, 90, 166602.	7.8	169
11	Flux-dependent level attraction in double-dot Aharonov-Bohm interferometers. Physical Review B, 2002, 65, .	3.2	155
12	Full Counting Statistics in Strongly Interacting Systems: Non-Markovian Effects. Physical Review Letters, 2006, 96, 026805.	7.8	134
13	Tunnel magnetoresistance of quantum dots coupled to ferromagnetic leads in the sequential and cotunneling regimes. Physical Review B, 2005, 72, .	3.2	128
14	Aharonov-Bohm interferometry with interacting quantum dots: Spin configurations, asymmetric interference patterns, bias-voltage-induced Aharonov-Bohm oscillations, and symmetries of transport coefficients. Physical Review B, 2002, 65, .	3.2	127
15	Curie temperature trends in (III,Mn)V ferromagnetic semiconductors. Physical Review B, 2002, 66, .	3.2	125
16	Cotunneling at Resonance for the Single-Electron Transistor. Physical Review Letters, 1997, 78, 4482-4485.	7.8	123
17	Cotunneling Current and Shot Noise in Quantum Dots. Physical Review Letters, 2005, 95, 146806.	7.8	122
18	Theory of magnetic properties and spin-wave dispersion for ferromagnetic (Ga,Mn)As. Physical Review B, 2001, 64, .	3.2	111

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19	Monte Carlo study of ferromagnetism in (III,Mn)V semiconductors. Physical Review B, 2001, 64, .	3.2	110
20	Adiabatic Pumping through Interacting Quantum Dots. Physical Review Letters, 2005, 95, 246803.	7.8	108
21	Real-Time Renormalization Group and Charge Fluctuations in Quantum Dots. Physical Review Letters, 2000, 84, 3686-3689.	7.8	103
22	Coherence and Partial Coherence in Interacting Electron Systems. Physical Review Letters, 2001, 86, 3855-3858.	7.8	99
23	Dissipationless Spin Transport in Thin Film Ferromagnets. Physical Review Letters, 2001, 87, .	7.8	99
24	Shot noise in tunneling transport through molecules and quantum dots. Physical Review B, 2003, 68, .	3.2	97
25	Gate-controlled spin splitting in quantum dots with ferromagnetic leads in the Kondo regime. Physical Review B, 2005, 72, .	3.2	93
26	Magnetic domains in III-V magnetic semiconductors. Physical Review B, 2001, 64, .	3.2	89
27	Superconducting proximity effect in interacting double-dot systems. Physical Review B, 2010, 82, .	3.2	88
28	Super-Poissonian noise, negative differential conductance, and relaxation effects in transport through molecules, quantum dots, and nanotubes. Physical Review B, 2005, 71, .	3.2	83
29	Real-time diagrammatic approach to transport through interacting quantum dots with normal and superconducting leads. Physical Review B, 2008, 77, .	3.2	79
30	Adiabatic pumping through a quantum dot with coulomb interactions: A perturbation expansion in the tunnel coupling. Physical Review B, 2006, 74, .	3.2	77
31	Probing level renormalization by sequential transport through double quantum dots. Physical Review B, 2005, 72, .	3.2	76
32	Limits on the Curie temperature of (III,Mn)V ferromagnetic semiconductors. Applied Physics Letters, 2001, 78, 1550-1552.	3.3	75
33	Thermal Conductance of a Single-Electron Transistor. Physical Review Letters, 2017, 119, 077701.	7.8	66
34	Kondo quantum dot coupled to ferromagnetic leads: Numerical renormalization group study. Physical Review B, 2007, 76, .	3.2	65
35	Frequency-dependent current noise through quantum-dot spin valves. Physical Review B, 2006, 74, .	3.2	64
36	Nonadiabatic Pumping through Interacting Quantum Dots. Physical Review Letters, 2009, 103, 136801.	7.8	64

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37	Resonant tunneling through a two-level dot and double quantum dots. Europhysics Letters, 1997, 40, 189-194.	2.0	59
38	Cotunneling and renormalization effects for the single-electron transistor. Physical Review B, 1998, 58, 7882-7892.	3.2	59
39	Adiabatic charge and spin pumping through quantum dots with ferromagnetic leads. Physical Review B, 2008, 77, .	3.2	59
40	Strong Tunneling in the Single-Electron Box. Physical Review Letters, 1998, 81, 3511-3514.	7.8	58
41	Zero-bias anomaly in cotunneling transport through quantum-dot spin valves. Physical Review B, 2005, 72, .	3.2	57
42	Quantum-fluctuation effects on the thermopower of a single-electron transistor. Physical Review B, 2006, 73, .	3.2	54
43	Charge and spin dynamics in interacting quantum dots. Physical Review B, 2010, 81, .	3.2	54
44	Nonlocal Andreev transport through an interacting quantum dot. Physical Review B, 2009, 79, .	3.2	53
45	Transport through quantum-dot spin valves containing magnetic impurities. Physical Review B, 2010, 82, .	3.2	53
46	Time scales in the dynamics of an interacting quantum dot. Physical Review B, 2012, 85, .	3.2	51
47	Resonant Tunneling and Coulomb Oscillations. Europhysics Letters, 1995, 31, 31-36.	2.0	49
48	Superconducting proximity effect in interacting quantum dots revealed by shot noise. Solid State Communications, 2011, 151, 155-158.	1.9	47
49	Strong electron tunneling through mesoscopic metallic grains. Physical Review B, 1997, 56, 15782-15793.	3.2	45
50	Optical Detection of Single-Electron Tunneling into a Semiconductor Quantum Dot. Physical Review Letters, 2019, 122, 247403.	7.8	42
51	Nonmonotonic charge occupation in double dots. Physical Review B, 2005, 71, .	3.2	41
52	Unconventional superconductivity in double quantum dots. Physical Review B, 2014, 90, .	3.2	41
53	Tunable dynamical channel blockade in double-dot Aharonov-Bohm interferometers. Physical Review B, 2009, 79, .	3.2	40
54	Detection of interactions via generalized factorial cumulants in systems in and out of equilibrium. Physical Review B, 2015, 92, .	3.2	40

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55	Two-dimensional hole precession in an all-semiconductor spin field effect transistor. Physical Review B, 2004, 69, .	3.2	39
56	Nonequilibrium Josephson and Andreev current through interacting quantum dots. New Journal of Physics, 2007, 9, 278-278.	2.9	38
57	Spin-induced charge correlations in transport through interacting quantum dots with ferromagnetic leads. Physical Review B, 2009, 79, .	3.2	37
58	Aharonov-Bohm interferometry with quantum dots: scattering approach versus tunneling picture. Physical Review B, 2003, 67, .	3.2	35
59	Persistent spin currents in helimagnets. Physical Review B, 2003, 68, .	3.2	35
60	Real-time renormalization group and cutoff scales in nonequilibrium applied to an arbitrary quantum dot in the Coulomb blockade regime. Physical Review B, 2007, 76, .	3.2	35
61	Universal Rashba spin precession of two-dimensional electrons and holes. Europhysics Letters, 2004, 65, 850-856.	2.0	34
62	Probing the exchange field of a quantum-dot spin valve by a superconducting lead. Physical Review B, 2010, 82, .	3.2	34
63	EPR and Ferromagnetism in Diluted Magnetic Semiconductor Quantum Wells. Physical Review Letters, 2003, 91, 077202.	7.8	30
64	Nonequilibrium current and noise in inelastic tunneling through a magnetic atom. New Journal of Physics, 2010, 12, 083028.	2.9	29
65	Short-time counting statistics of charge transfer in Coulomb-blockade systems. Physical Review B, 2016, 94, .	3.2	29
66	Faraday-rotation fluctuation spectroscopy with static and oscillating magnetic fields. Physical Review B, 2007, 75, .	3.2	28
67	Hanle effect in transport through quantum dots coupled to ferromagnetic leads. Europhysics Letters, 2005, 72, 294-300.	2.0	27
68	Pumping through a quantum dot in the proximity of a superconductor. Physical Review B, 2007, 75, .	3.2	27
69	Adiabatic pumping in a double-dot Cooper-pair beam splitter. Physical Review B, 2011, 84, .	3.2	26
70	Asymmetry of charge relaxation times in quantum dots: The influence of degeneracy. Europhysics Letters, 2014, 106, 47002.	2.0	25
71	Coulomb-interaction effects in full counting statistics of a quantum-dot Aharonov-Bohm interferometer. Physical Review B, 2008, 78, .	3.2	23
72	Renormalization effects in interacting quantum dots coupled to superconducting leads. Physical Review B, 2013, 87, .	3.2	23

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73	Spin current through a tunnel junction. Superlattices and Microstructures, 2005, 37, 333-336.	3.1	21
74	Spin resonance without spin splitting. Physical Review B, 2015, 91, .	3.2	21
75	Level Statistics of Quantum Dots Coupled to Reservoirs. Physical Review Letters, 1998, 81, 4468-4471.	7.8	20
76	Theory of a magnetically controlled quantum-dot spin transistor. Physical Review B, 2007, 76, .	3.2	19
77	Generation of pure spin currents by superconducting proximity effect in quantum dots. Europhysics Letters, 2010, 91, 47004.	2.0	19
78	Tunneling resonances in quantum dots: Coulomb interaction modifies the width. Physical Review B, 2006, 73, .	3.2	18
79	Generation of spin entanglement in nonequilibrium quantum dots. Physical Review B, 2007, 76, .	3.2	18
80	Relaxation dynamics in a Hubbard dimer coupled to fermionic baths: Phenomenological description and its microscopic foundation. Physical Review B, 2020, 101, .	3.2	18
81	Diagrammatic real-time approach to adiabatic pumping through metallic single-electron devices. Physical Review B, 2009, 79, .	3.2	17
82	Zero-frequency noise in adiabatically driven interacting quantum systems. Physical Review B, 2013, 87, .	3.2	17
83	Revealing attractive electronâ€“electron interaction in a quantum dot by full counting statistics. New Journal of Physics, 2018, 20, 073023.	2.9	17
84	Coherent dynamics in stochastic systems revealed by full counting statistics. Physical Review B, 2018, 98, .	3.2	17
85	Strong tunneling in double-island structures. Physical Review B, 1999, 59, 7579-7589.	3.2	14
86	Interference and interaction effects in adiabatic pumping through quantum dots. Physical Review B, 2010, 81, .	3.2	14
87	Real-Time Detection of Single Auger Recombination Events in a Self-Assembled Quantum Dot. Nano Letters, 2020, 20, 1631-1636.	9.1	14
88	Newton series expansion of bosonic operator functions. SciPost Physics, 2021, 10, .	4.9	14
89	Spin-dependent transport through quantum-dot Aharonov-Bohm interferometers. Physical Review B, 2010, 82, .	3.2	13
90	Influence of spin waves on transport through a quantum-dot spin valve. Physical Review B, 2010, 82, .	3.2	13

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91	Mesoscopic Stoner Instability in Metallic Nanoparticles Revealed by Shot Noise. Physical Review Letters, 2012, 108, 166603.	7.8	13
92	Odd-triplet superconductivity in single-level quantum dots. Physical Review B, 2017, 96, .	3.2	13
93	Tunneling-induced renormalization in interacting quantum dots. Physical Review B, 2012, 86, .	3.2	12
94	Theory of spin pumping through an interacting quantum dot tunnel coupled to a ferromagnet with time-dependent magnetization. Physical Review B, 2013, 87, .	3.2	12
95	Adiabatic pumping through an interacting quantum dot with spin-orbit coupling. Physical Review B, 2013, 87, .	3.2	12
96	Inverse counting statistics based on generalized factorial cumulants. New Journal of Physics, 2017, 19, 023018.	2.9	12
97	Pushing the Limits in Real-Time Measurements of Quantum Dynamics. Physical Review Letters, 2022, 128, 087701.	7.8	12
98	Theory of spin waves in diluted-magnetic-semiconductor quantum wells. Physical Review B, 2004, 70, .	3.2	11
99	Generation and detection of a spin entanglement in nonequilibrium quantum dots. New Journal of Physics, 2008, 10, 045016.	2.9	10
100	Driven superconducting proximity effect in interacting quantum dots. Physical Review B, 2012, 85, .	3.2	10
101	Ferromagnetism in (III,Mn) V Semiconductors. Springer Series in Materials Science, 2003, , 163-211.	0.6	10
102	Ferromagnetism and spin waves in diluted magnetic semiconductors. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 10, 139-142.	2.7	9
103	KÃ¶nig, Lin, and MacDonald Reply:. Physical Review Letters, 2001, 86, 5637-5637.	7.8	9
104	Violation of detailed balance for chargeâ€transfer statistics in Coulombâ€blockade systems. Physica Status Solidi (B): Basic Research, 2017, 254, 1600507.	1.5	9
105	Relaxation dynamics in double-spin systems. Physical Review B, 2020, 101, .	3.2	9
106	Electron Waiting Times in a Strongly Interacting Quantum Dot: Interaction Effects and Higher-Order Tunneling Processes. Physical Review Letters, 2021, 127, 096803.	7.8	9
107	Theory of transport through noncollinear single-electron spin-valve transistors. Physical Review B, 2011, 84, .	3.2	8
108	ac Josephson transport through interacting quantum dots. Physical Review B, 2012, 86, .	3.2	8

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109	Spin pumping through quantum dots. Physica Status Solidi (B): Basic Research, 2014, 251, 1912-1923.	1.5	8
110	Iterative path-integral summations for the tunneling magnetoresistance in interacting quantum-dot spin valves. Physical Review B, 2019, 99, .	3.2	8
111	Statistical analysis of spin switching in coupled spin-crossover molecules. Physical Review B, 2021, 104, .	3.2	8
112	Resonant tunneling through a single-electron transistor. Physics-Uspekhi, 1998, 41, 159-164.	2.2	7
113	Strong Tunneling in Small Quantum Dots: Kondo Effect in Two Model Systems. Journal of Low Temperature Physics, 2000, 118, 391-399.	1.4	7
114	Quantum Dots Attached to Ferromagnetic Leads: Exchange Field, Spin Precession, andÂKondo Effect. Lecture Notes in Physics, 2005, , 145-164.	0.7	7
115	Josephson-Majorana cycle in topological single-electron hybrid transistors. Physical Review B, 2013, 88, .	3.2	7
116	Resonant tunneling through quantum dots. Physica B: Condensed Matter, 2000, 284-288, 1762-1763.	2.7	6
117	Quantum fluctuations and the Kondo effect in small quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 371-374.	2.7	6
118	Band-mixing-mediated Andreev reflection of semiconductor holes. Physical Review B, 2011, 84, .	3.2	6
119	Transverse rectification in density-modulated two-dimensional electron gases. Physical Review B, 2012, 86, .	3.2	6
120	Resonant Tunneling and Charging Effects, a Path Integral Approach. , 1995, , 221-239.		6
121	Electron transport through small quantum dots: zero-bias anomalies and magnetic field dependence. European Physical Journal D, 1996, 46, 2399-2400.	0.4	5
122	Kondo effect in single-molecule spintronic devices. Journal of Magnetism and Magnetic Materials, 2007, 310, e343-e345.	2.3	5
123	Determining energy relaxation length scales in two-dimensional electron gases. Applied Physics Letters, 2015, 107, .	3.3	5
124	Synchronized coherent charge oscillations in coupled double quantum dots. Physical Review B, 2021, 104, .	3.2	5
125	Comment on â€œDo Intradot Electron-Electron Interactions Induce Dephasing?â€• Physical Review Letters, 2005, 94, 179701; author reply 179702.	7.8	4
126	Transport in metallic multi-island Coulomb blockade systems: A systematic perturbative expansion in the junction transparency. Physical Review B, 2006, 73, .	3.2	4

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127	Nonequilibrium Josephson and Andreev current through interacting quantum dots. New Journal of Physics, 2008, 10, 099801.	2.9	4
128	Multilevel coherences in quantum dots. Physical Review Research, 2020, 2, .	3.6	4
129	Zero-bias anomalies and boson-assisted transport through small quantum dots. , 1996, , 215-228.		3
130	Resonant tunneling through a single-level quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 1997, 1, 241-244.	2.7	3
131	Collective spin fluctuations in diluted magnetic semiconductors. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 379-382.	2.7	3
132	Mesoscopic diffusion thermopower in two-dimensional electron gases. Physical Review B, 2014, 90, .	3.2	3
133	Theory of Ferromagnetism in Diluted Magnetic Semiconductors. Lecture Notes in Physics, 2001, , 195-212.	0.7	3
134	Environment-induced decay dynamics of antiferromagnetic order in Mott-Hubbard systems. Physical Review B, 2022, 105, .	3.2	3
135	Real-Time Renormalization Group: Charge Fluctuations in Metallic Islands and Quantum Dots. Journal of Low Temperature Physics, 2000, 118, 409-419.	1.4	2
136	Resonant tunnelling through small metallic islands and quantum dots. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1219-1230.	0.6	1
137	Single Electron Tunneling in Small Molecules. , 2006, , 207-228.		1
138	Current fluctuations in noncollinear single-electron spin-valve transistors. Physical Review B, 2012, 86, .	3.2	1
139	Quantum Dot Spintronics: Fundamentals and Applications. Springer Tracts in Modern Physics, 2013, , 235-268.	0.1	1
140	Interaction-induced current asymmetries in resonant transport through interacting quantum-dot spin valves revealed by iterative summation of path integrals. Physical Review B, 2020, 102, .	3.2	1
141	How to get from static to dynamic electromagnetism. European Journal of Physics, 2021, 42, 045204.	0.6	1
142	Manipulating Single Spins in Quantum Dots Coupled to Ferromagnetic Leads. Lecture Notes in Physics, 2010, , 103-124.	0.7	1
143	Real-time renormalization group and strong tunneling. Physica B: Condensed Matter, 2000, 280, 392-393.	2.7	0
144	Transport through Quantum Dots and the Kondo Problem. , 2000, , 161-167.		0

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145	Ferromagnetism in Diluted Magnetic Semiconductors. Springer Proceedings in Physics, 2001, , 232-233.	0.2	0
146	Strong Electron Tunneling in Mesoscopic Tunnel Junctions. , 1998, , 107-126.		0