Ireneusz Weymann

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	From giant magnetoresistance to current-induced switching by spin transfer. Physical Review B, 2005, 72, .	1.1	156
2	Tunnel magnetoresistance of quantum dots coupled to ferromagnetic leads in the sequential and cotunneling regimes. Physical Review B, 2005, 72, .	1.1	128
3	Emergent SU(4) Kondo physics in a spin–charge-entangled double quantum dot. Nature Physics, 2014, 10, 145-150.	6.5	114
4	Universal Fermi liquid crossover and quantum criticality in a mesoscopic system. Nature, 2015, 526, 237-240.	13.7	87
5	Universality of the Kondo Effect in Quantum Dots with Ferromagnetic Leads. Physical Review Letters, 2011, 107, 176808.	2.9	82
6	Spin effects in single-electron tunnelling. Journal of Physics Condensed Matter, 2008, 20, 423202.	0.7	77
7	Spin effects in transport through single-molecule magnets in the sequential and cotunneling regimes. Physical Review B, 2009, 79, .	1.1	70
8	Simulating Hybrid Circuits of Single-Electron Transistors and Field-Effect Transistors. Japanese Journal of Applied Physics, 2003, 42, 6467-6472.	0.8	67
9	Effects of different geometries on the conductance, shot noise, and tunnel magnetoresistance of double quantum dots. Physical Review B, 2008, 78, .	1.1	64
10	Zero-bias anomaly in cotunneling transport through quantum-dot spin valves. Physical Review B, 2005, 72, .	1.1	57
11	Nonequilibrium Steady-State Transport in Quantum Impurity Models: A Thermofield and Quantum Quench Approach Using Matrix Product States. Physical Review Letters, 2018, 121, 137702.	2.9	56
12	Interplay of the Kondo Effect and Spin-Polarized Transport in Magnetic Molecules, Adatoms, and Quantum Dots. Physical Review Letters, 2011, 106, 126602.	2.9	51
13	Spin thermoelectric effects in Kondo quantum dots coupled to ferromagnetic leads. Physical Review B, 2013, 88, .	1.1	48
14	Finite-temperature spintronic transport through Kondo quantum dots: Numerical renormalization group study. Physical Review B, 2011, 83, .	1.1	42
15	Spin diode behavior in transport through single-molecule magnets. Europhysics Letters, 2010, 89, 18003.	0.7	41
16	Spin-resolved Andreev transport through double-quantum-dot Cooper pair splitters. Physical Review B, 2015, 91, .	1.1	41
17	Transport properties of a hybrid Majorana wire-quantum dot system with ferromagnetic contacts. Physical Review B, 2017, 95, .	1.1	41
18	Cotunneling through quantum dots coupled to magnetic leads: Zero-bias anomaly for noncollinear magnetic configurations. Physical Review B, 2007, 75, .	1.1	39

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19	Negative tunnel magnetoresistance and differential conductance in transport through double quantum dots. Physical Review B, 2009, 80, .	1.1	37
20	Proximity effect on spin-dependent conductance and thermopower of correlated quantum dots. Physical Review B, 2014, 89, .	1.1	37
21	Constructive influence of the induced electron pairing on the Kondo state. Scientific Reports, 2016, 6, 23336.	1.6	36
22	Dark states in transport through triple quantum dots: The role of cotunneling. Physical Review B, 2011, 83, .	1.1	35
23	Transport characteristics of ferromagnetic single-electron transistors. Physica Status Solidi (B): Basic Research, 2003, 236, 651-660.	0.7	34
24	Phase diagram and excitations of a Shiba molecule. Physical Review B, 2014, 90, .	1.1	31
25	Interplay between correlations and Majorana mode in proximitized quantum dot. Scientific Reports, 2018, 8, 15717.	1.6	31
26	Spin diode based on a single-walled carbon nanotube. Applied Physics Letters, 2008, 92, .	1.5	30
27	Two-stage Kondo effect in T-shaped double quantum dots with ferromagnetic leads. Physical Review B, 2015, 91, .	1.1	30
28	Influence of magnetic anisotropy on the Kondo effect and spin-polarized transport through magnetic molecules, adatoms, and quantum dots. Physical Review B, 2011, 84, .	1.1	29
29	Superconducting proximity effect and zero-bias anomaly in transport through quantum dots weakly attached to ferromagnetic leads. Physical Review B, 2014, 89, .	1.1	29
30	Cotunneling through a quantum dot coupled to ferromagnetic leads with noncollinear magnetizations. European Physical Journal B, 2005, 46, 289-299.	0.6	28
31	Perfect spin polarization in T-shaped double quantum dots due to the spin-dependent Fano effect. Physical Review B, 2014, 90, .	1.1	28
32	Thermopower of strongly correlated T-shaped double quantum dots. Physical Review B, 2016, 93, .	1.1	28
33	Effect of intrinsic spin relaxation on the spin-dependent cotunneling transport through quantum dots. Physical Review B, 2006, 73, .	1.1	27
34	Theory of shot noise in single-walled metallic carbon nanotubes weakly coupled to nonmagnetic and ferromagnetic leads. Physical Review B, 2007, 76, .	1.1	27
35	Transport through single-wall metallic carbon nanotubes in the cotunneling regime. Physical Review B, 2008, 78, .	1.1	25
36	An electrically controlled quantum dot based spin current injector. Nanoscale, 2012, 4, 3635.	2.8	25

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37	Manifestation of the shape and edge effects in spin-resolved transport through graphene quantum dots. Physical Review B, 2012, 85, .	1.1	24
38	Majorana-Kondo interplay in T-shaped double quantum dots. Physical Review B, 2020, 101, .	1.1	23
39	Transport through two-level quantum dots weakly coupled to ferromagnetic leads. Journal of Physics Condensed Matter, 2007, 19, 096208.	0.7	22
40	Underscreened Kondo effect in <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn>quantum dots: Exchange, anisotropy, and temperature effects. Physical Review B, 2012, 86, .</mml:mrow></mml:math>	י>< ‡m ml:m	nat b 2magneti
41	SU(4) Kondo effect in double quantum dots with ferromagnetic leads. Physical Review B, 2018, 97, .	1.1	22
42	Spin Seebeck effect in quantum dot side-coupled to topological superconductor. Journal of Physics Condensed Matter, 2017, 29, 095301.	0.7	20
43	Kondo Cloud in a Superconductor. Physical Review Letters, 2021, 127, 186804.	2.9	20
44	Negative differential conductance and magnetoresistance oscillations due to spin accumulation in ferromagnetic double-island devices. Physical Review B, 2006, 73, .	1.1	19
45	Spin-resolved thermal signatures of Majorana-Kondo interplay in double quantum dots. Physical Review B, 2022, 105, .	1.1	18
46	Current cross-correlations in double quantum dot based Cooper pair splitters with ferromagnetic leads. Journal of Physics Condensed Matter, 2017, 29, 195302.	0.7	17
47	Shot noise and tunnel magnetoresistance in multilevel quantum dots: Effects of cotunneling. Physical Review B, 2008, 77, .	1.1	16
48	Underscreened Kondo effect in quantum dots coupled to ferromagnetic leads. Physical Review B, 2010, 81, .	1.1	16
49	Spin-polarized transport through weakly coupled double quantum dots in the Coulomb-blockade regime. Physical Review B, 2007, 75, .	1.1	15
50	Kondo physics in double quantum dot based Cooper pair splitters. Physical Review B, 2017, 96, .	1.1	15
51	Macroscopic description of spin transfer torque. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 126, 271-274.	1.7	13
52	Cotunneling through two-level quantum dots weakly coupled to ferromagnetic leads. Europhysics Letters, 2006, 76, 1200-1206.	0.7	13
53	Theory of frequency-dependent spin current noise through correlated quantum dots. Physical Review B, 2010, 81, .	1.1	13
54	Transport through graphenelike flakes with intrinsic spin-orbit interactions. Physical Review B, 2015, 92, .	1.1	13

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55	Current cross-correlations and waiting time distributions in Andreev transport through Cooper pair splitters based on a triple quantum dot system. Physical Review B, 2020, 101, .	1.1	13
56	Andreev transport in a correlated ferromagnet-quantum-dot-superconductor device. Physical Review B, 2015, 92, .	1.1	12
57	Spin effects in transport through triangular quantum dot molecule in different geometrical configurations. Physical Review B, 2015, 92, .	1.1	12
58	Interplay between electron pairing and Dicke effect in triple quantum dot structures. Physical Review B, 2017, 95, .	1.1	12
59	Asymmetry-induced effects in Kondo quantum dots coupled to ferromagnetic leads. Journal of Physics Condensed Matter, 2013, 25, 075301.	0.7	11
60	Spin related effects in magnetic mesoscopic systems. Physica Status Solidi (B): Basic Research, 2003, 236, 246-252.	0.7	10
61	Kondo effect in a quantum dot coupled to ferromagnetic leads and side-coupled to a nonmagnetic reservoir. Physical Review B, 2010, 81, .	1.1	10
62	Probing the Rashba effect via the induced magnetization around a Kondo impurity. Physical Review B, 2013, 87, .	1.1	10
63	Splitting efficiency and interference effects in a Cooper pair splitter based on a triple quantum dot with ferromagnetic contacts. Physical Review B, 2018, 97, .	1.1	10
64	Quench dynamics of spin in quantum dots coupled to spin-polarized leads. Physical Review B, 2019, 100,	1.1	10
65	Temperature dependence of electronic transport through molecular magnets in the Kondo regime. Physical Review B, 2012, 86, .	1.1	9
66	Nontrivial magnetoresistive behavior of a single-wall carbon nanotube with an attached molecular magnet. Physical Review B, 2015, 92, .	1.1	9
67	Thermalization and dynamics in the single-impurity Anderson model. Physical Review B, 2015, 92, .	1.1	9
68	Boosting spin-caloritronic effects by attractive correlations in molecular junctions. Scientific Reports, 2016, 6, 19236.	1.6	9
69	Interplay of the Kondo effect with the induced pairing in electronic and caloric properties of T-shaped double quantum dots. Physical Review B, 2018, 97, .	1.1	9
70	Nonlocal pairing as a source of spin exchange and Kondo screening. Physical Review B, 2019, 99, .	1.1	9
71	Dynamical quantum phase transitions in a mesoscopic superconducting system. Physical Review B, 2022, 105, .	1.1	9
72	Theory of ac spin current noise and spin conductance through a quantum dot in the Kondo regime: Equilibrium case. Physical Review B, 2011, 84, .	1.1	8

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73	Transverse anisotropy effects on spin-resolved transport through large-spin molecules. Physical Review B, 2014, 90, .	1.1	8
74	Spin-resolved dynamical conductance of a correlated large-spin magnetic molecule. Physical Review B, 2017, 95, .	1.1	8
75	Transient effects in a double quantum dot sandwiched laterally between superconducting and metallic leads. Physical Review B, 2021, 103, .	1.1	8
76	Quench dynamics of a correlated quantum dot sandwiched between normal-metal and superconducting leads. Physical Review B, 2021, 103, .	1.1	8
77	Large Voltage-Tunable Spin Valve Based on a Double Quantum Dot. Physical Review Applied, 2021, 16, .	1.5	8
78	Majorana mode leaking into a spin-charge entangled double quantum dot. Physical Review B, 2021, 104, .	1.1	8
79	Strong spin Seebeck effect in Kondo T-shaped double quantum dots. Journal of Physics Condensed Matter, 2017, 29, 055303.	0.7	7
80	Spectral properties and the Kondo effect of cobalt adatoms on silicene. Physical Review B, 2017, 96, .	1.1	7
81	Magnetization dynamics in a Majorana-wire–quantum-dot setup. Physical Review B, 2021, 103, .	1.1	7
82	Spin-Dependent Transport Through Graphene Quantum Dots. Journal of Nanoscience and Nanotechnology, 2012, 12, 7525-7528.	0.9	6
83	Magnetic Kondo regimes in a frustrated half-filled trimer. Physical Review B, 2020, 102, .	1.1	6
84	Eightfold shell-filling patterns in spin-dependent transport through double-wall carbon nanotube quantum dots. Physical Review B, 2010, 82, .	1.1	5
85	The tunnel magnetoresistance in chains of quantum dots weakly coupled to external leads. Journal of Physics Condensed Matter, 2010, 22, 015301.	0.7	5
86	Pauli spin blockade in double molecular magnets. Physical Review B, 2016, 94, .	1.1	5
87	Dynamical spin accumulation in large-spin magnetic molecules. Physical Review B, 2018, 97, .	1.1	5
88	Andreev transport through single-molecule magnets. Physical Review B, 2018, 98, .	1.1	5
89	Detection of Spin Reversal via Kondo Correlation in Hybrid Carbon Nanotube Quantum Dots. ACS Nano, 2019, 13, 10029-10035.	7.3	5
90	Spin Seebeck effect of correlated magnetic molecules. Scientific Reports, 2021, 11, 9192.	1.6	5

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91	Effect of the intrinsic spin-orbit interaction on the tunnel magnetoresistance in graphenelike nanoflakes. Physical Review B, 2016, 94, .	1.1	4
92	Dark states in spin-polarized transport through triple quantum dot molecules. Physical Review B, 2018, 97, .	1.1	4
93	Spin-dependent transport through double-island single-electron devices. Physica Status Solidi (B): Basic Research, 2006, 243, 239-242.	0.7	3
94	Interplay of the Kondo effect and spin-polarized transport in nanoscopic systems with uniaxial magnetic anisotropy. Journal of Applied Physics, 2011, 109, 07C732.	1.1	3
95	Noise of a Chargeless Fermi Liquid. Physical Review Letters, 2018, 120, 016803.	2.9	3
96	Manipulating spins of magnetic molecules: Hysteretic behavior with respect to bias voltage. Europhysics Letters, 2018, 121, 38006.	0.7	3
97	Majorana-Kondo competition in a cross-shaped double quantum dot-topological superconductor system. Journal of Magnetism and Magnetic Materials, 2022, 549, 168935.	1.0	3
98	Electronic transport in ferromagnetic double-island single-electron devices. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1477-E1479.	1.0	2
99	Frequency-dependent conductance of Kondo quantum dots coupled to ferromagnetic leads. Journal of Applied Physics, 2011, 109, 07C704.	1.1	2
100	Tunnel magnetoresistance of a supramolecular spin valve. Europhysics Letters, 2019, 125, 18004.	0.7	2
101	Transport through Single-Wall Carbon Nanotubes Weakly Coupled to External Leads. Acta Physica Polonica A, 2009, 115, 296-298.	0.2	2
102	Influence of Magnetic Field on Dark States in Transport through Triple Quantum Dots. Acta Physica Polonica A, 2017, 132, 108-111.	0.2	2
103	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2003, 16, 225-228.	0.5	1
104	Tunnel magnetoresistance and linear conductance of double quantum dots strongly coupled to ferromagnetic leads. Journal of Applied Physics, 2015, 117, 17D704.	1.1	1
105	Current Suppression in Transport Through Triple Quantum Dots Coupled to Ferromagnetic Leads. Acta Physica Polonica A, 2015, 127, 460-462.	0.2	1
106	Giant superconducting proximity effect on spintronic anisotropy. Physical Review B, 2019, 100, .	1.1	1
107	Magnetoresistive properties of a double magnetic molecule spin valve in different geometrical arrangements. Journal of Magnetism and Magnetic Materials, 2019, 480, 11-21.	1.0	1
108	Spectral properties of a Co-decorated quasi-two-dimensional GaSe layer. Physical Review B, 2020, 102, .	1.1	1

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109	Time-dependent spintronic anisotropy in magnetic molecules. Physical Review B, 2020, 101, .	1.1	1
110	Spin polarized cotunneling through a quantum dot. Physica Status Solidi A, 2003, 196, 113-116.	1.7	0
111	Current induced switching due to spin-transfer in spin valves: macroscopic model. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 97-100.	0.8	Ο
112	Cotunneling through a magnetic quantum dot coupled to ferromagnetic leads with noncollinear magnetizations. Physica B: Condensed Matter, 2006, 378-380, 945-946.	1.3	0
113	Single- and double-island ferromagnetic single-electron transistors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 126, 275-278.	1.7	Ο
114	Influence of intrinsic spin-flip processes on spin-polarized transport through quantum dots in the cotunneling regime. Physica B: Condensed Matter, 2006, 378-380, 942-944.	1.3	0
115	Charge and spin transport through artificial atoms and molecules. Journal of Physics: Conference Series, 2008, 104, 012016.	0.3	0
116	The Magnetic Field Effects on Spin Polarization of T-Shaped Double Quantum Dots Coupled to Ferromagnetic Leads. Acta Physica Polonica A, 2015, 127, 222-224.	0.2	0
117	Spin-Dependent Transport through a Single-Wall Carbon Nanotube Quantum Dot with an S=1 Molecule. Acta Physica Polonica A, 2015, 127, 475-477.	0.2	0
118	Andreev Transport in Double Quantum Dot Cooper Pair Splitters in the Presence of External Magnetic Field. Acta Physica Polonica A, 2015, 127, 502-504.	0.2	0
119	Magnetic Field Effects on Tunnel Magnetoresistance of a Coupled Carbon-Nanotube-Molecular-Magnet System. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	0
120	The SU(4) Kondo effect in double quantum dots coupled to ferromagnetic leads: A scaling analysis. , 2019, , .		0
121	Spin Polarized Transport through Quantum Dots: Coulomb Blockade and Kondo Effect. Acta Physica Polonica A, 2003, 104, 165-177.	0.2	0
122	Spin-Polarized Transport through Quantum Dots in the Cotunneling Regime. Acta Physica Polonica A, 2008, 113, 529-532.	0.2	0
123	Signatures of Transverse Magnetic Anisotropy in Transport through a Large-Spin Molecule in the Kondo Regime. Acta Physica Polonica A, 2015, 128, 200-203.	0.2	0
124	Andreev Conductance through a Quantum Dot Strongly Coupled to Ferromagnetic and Superconducting Leads. Acta Physica Polonica A, 2017, 132, 143-145.	0.2	0
125	Andreev Transport through a Magnetic Molecule Weakly Coupled to Ferromagnetic Leads. Acta Physica Polonica A, 2018, 133, 594-596.	0.2	0
126	Dynamical Aspects of Magnetic Switching in a Single Molecule-Based Spin Valve. Acta Physica Polonica A, 2018, 133, 555-557.	0.2	0

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127	Spintronic transport through a double quantum dot-based spin valve with noncollinear magnetizations. Journal of Magnetism and Magnetic Materials, 2022, 546, 168788.	1.0	0
128	Spin-polarized transport in quadruple quantum dots attached to ferromagnetic leads. Journal of Magnetism and Magnetic Materials, 2022, 546, 168835.	1.0	0
129	Numerical renormalization group study of the Loschmidt echo in Kondo systems. Scientific Reports, 2022, 12, .	1.6	0