

Yasuhiro Utsumi

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,568

citations

19

h-index

39

g-index

69

ext. papers

1,706

ext. citations

3.3

avg, IF

4.65

L-index

#	Paper	IF	Citations
62	Asymptotic expansion of the solution of the master equation and its application to the speed limit.. <i>Physical Review E</i> , 2021 , 104, 054139	2.4	0
61	Fluctuation of information content and the optimum capacity for bosonic transport. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1059-1066	2.3	
60	Comment on "Spin-orbit interaction and spin selectivity for tunneling electron transfer in DNA" <i>Physical Review B</i> , 2021 , 103,	3.3	4
59	Spin selectivity through time-reversal symmetric helical junctions. <i>Physical Review B</i> , 2020 , 102,	3.3	15
58	Spin-Current Induced Mechanical Torque in a Chiral Molecular Junction. <i>Journal of the Physical Society of Japan</i> , 2019 , 88, 064702	1.5	6
57	Full counting statistics of information content. <i>European Physical Journal: Special Topics</i> , 2019 , 227, 19112-1928 5	1.9	
56	Optimum capacity and full counting statistics of information content and heat quantity in the steady state. <i>Physical Review B</i> , 2019 , 99,	3.3	1
55	AC transport and full-counting statistics of molecular junctions in the weak electron-vibration coupling regime. <i>Journal of Chemical Physics</i> , 2017 , 146, 092313	3.9	8
54	Fluctuation theorem of a mesoscopic engine and spin switching. <i>Fortschritte Der Physik</i> , 2017 , 65, 1600049	3.7	
53	Heat and Charge Current Fluctuations and the Time-Dependent Coefficient of Performance for a Nanoscale Refrigerator. <i>Journal of the Physical Society of Japan</i> , 2017 , 86, 024007	1.5	5
52	Full counting statistics of information content and particle number. <i>Physical Review B</i> , 2017 , 96,	3.3	4
51	Analysis of the conditional average and conditional variance of dissipated energy in the driven spin-boson model. <i>Physical Review B</i> , 2017 , 96,	3.3	1
50	Relaxation time and critical slowing down of a spin-torque oscillator. <i>Physical Review B</i> , 2017 , 96,	3.3	11
49	Spin-dependent transport through a chiral molecule in the presence of spin-orbit interaction and nonunitary effects. <i>Physical Review B</i> , 2016 , 93,	3.3	77
48	Phonon-Induced Electron-Hole Excitation and ac Conductance in Molecular Junction. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 043703	1.5	3
47	Lasing in circuit quantum electrodynamics with strong noise. <i>Physical Review B</i> , 2015 , 91,	3.3	4
46	Fluctuation theorem for a small engine and magnetization switching by spin torque. <i>Physical Review Letters</i> , 2015 , 114, 186601	7.4	13

45	Full counting statistics of information content in the presence of Coulomb interaction. <i>Physical Review B</i> , 2015 , 92,	3.3	9
44	Stable oscillation in spin torque oscillator excited by a small in-plane magnetic field. <i>Journal of Applied Physics</i> , 2015 , 118, 053903	2.5	5
43	Fluctuation theorem for a two-terminal conductor connected to a thermal probe. <i>Physica Scripta</i> , 2015 , T165, 014021	2.6	
42	Fluctuation theorem for heat transport probed by a thermal probe electrode. <i>Physical Review B</i> , 2014 , 89,	3.3	19
41	Distribution of energy dissipated by a driven two-level system. <i>Physical Review B</i> , 2014 , 90,	3.3	9
40	Thermally activated switching rate of a nanomagnet in the presence of spin torque. <i>Physical Review B</i> , 2013 , 88,	3.3	17
39	Spin torque switching of an in-plane magnetized system in a thermally activated region. <i>Physical Review B</i> , 2013 , 87,	3.3	38
38	Full-counting statistics for molecular junctions: Fluctuation theorem and singularities. <i>Physical Review B</i> , 2013 , 87,	3.3	54
37	Test of the fluctuation theorem for single-electron transport. <i>Journal of Applied Physics</i> , 2013 , 113, 136507	2.7	6
36	Work fluctuation theorem for a classical circuit coupled to a quantum conductor. <i>Physical Review B</i> , 2012 , 86,	3.3	8
35	Irreversibility on the Level of Single-Electron Tunneling. <i>Physical Review X</i> , 2012 , 2,	9.1	73
34	Numerical Study on Spin Torque Switching in Thermally Activated Region. <i>Applied Physics Express</i> , 2012 , 5, 063009	2.4	18
33	Effective temperature and the fluctuation theorem in a double quantum dot coupled to a point-contact electrometer. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 042012	0.3	
32	Lasing without inversion in circuit quantum electrodynamics. <i>Physical Review Letters</i> , 2011 , 107, 093901	7.4	30
31	Fluctuation theorem and microreversibility in a quantum coherent conductor. <i>Physical Review B</i> , 2011 , 83,	3.3	37
30	Fluctuation theorem for a double quantum dot coupled to a point-contact electrometer. <i>Physical Review B</i> , 2011 , 84,	3.3	30
29	Bidirectional single-electron counting and the fluctuation theorem. <i>Physical Review B</i> , 2010 , 81,	3.3	83
28	Statistics of voltage fluctuations in resistively shunted Josephson junctions. <i>Physical Review B</i> , 2010 , 81,	3.3	16

27	Nonequilibrium fluctuation relations in a quantum coherent conductor. <i>Physical Review Letters</i> , 2010 , 104, 080602	7.4	87
26	Fluctuation theorem in spintronics. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 052030	0.3	7
25	Nonequilibrium Extension of Onsager Relations for Thermoelectric Effects in Mesoscopic Conductors. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 045003	1.5	8
24	Fluctuation theorem in a quantum-dot Aharonov-Bohm interferometer. <i>Physical Review B</i> , 2009 , 79,	3.3	45
23	Symmetry in full counting statistics, fluctuation theorem, and relations among nonlinear transport coefficients in the presence of a magnetic field. <i>Physical Review B</i> , 2008 , 78,	3.3	151
22	Full counting statistics for electron number in quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 154-157		
21	Full counting statistics for molecular spintronics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 40, 375-378	3	
20	Full counting statistics for charge inside a quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 40, 355-358	3	
19	Indirect exchange interaction between two local spins embedded in an Aharonov-Bohm Ring. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 1142-1144	2.8	5
18	Kondo effect in single-molecule spintronic devices. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, e343-e345	2.8	4
17	Full counting statistics for the number of electrons in a quantum dot. <i>Physical Review B</i> , 2007 , 75,	3.3	22
16	Full counting statistics for transport through a molecular quantum dot magnet: Incoherent tunneling regime. <i>Physical Review B</i> , 2007 , 75,	3.3	19
15	Full counting statistics for a single-electron transistor: nonequilibrium effects at intermediate conductance. <i>Physical Review Letters</i> , 2006 , 96, 086803	7.4	37
14	Full counting statistics of interacting electrons. <i>Fortschritte Der Physik</i> , 2006 , 54, 917-938	5.7	40
13	Nonequilibrium Kondo effect in a quantum dot coupled to ferromagnetic leads. <i>Physical Review B</i> , 2005 , 71,	3.3	65
12	Twisted exchange interaction between localized spins embedded in a one- or two-dimensional electron gas with Rashba spin-orbit coupling. <i>Physical Review B</i> , 2004 , 69,	3.3	133
11	Indirect exchange interaction between two quantum dots in an Aharonov-Bohm ring. <i>Physical Review B</i> , 2004 , 69,	3.3	19
10	Spin relaxation and tunnel magnetoresistance of a ferromagnet/superconductor/ferromagnet single-electron tunneling transistor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 43-44	3	

9	Kondo effect in quantum dots coupled to ferromagnetic electrodes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 75-76	3	
8	The effect of large quantum fluctuation on the noise of a single-electron transistor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 93-94	3	
7	Kondo effect in quantum dots coupled to ferromagnetic leads. <i>Physical Review Letters</i> , 2003 , 91, 127203	7.4	269
6	Noise of a single-electron transistor in the regime of large quantum fluctuations of island charge out of equilibrium. <i>Physical Review B</i> , 2003 , 67,	3-3	11
5	The effect of charge fluctuation on a normal-superconducting-normal single-electron transistor. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 367, 237-240	1-3	3
4	Parity effect and tunnel magnetoresistance of ferromagnet/superconductor/ferromagnet single-electron tunneling transistors. <i>Physical Review B</i> , 2002 , 66,	3-3	7
3	Charge fluctuation between even and odd states of a superconducting island. <i>Physical Review B</i> , 2002 , 66,	3-3	8
2	Effect of Quantum Fluctuation on the Andreev Reflection. <i>Journal of the Physical Society of Japan</i> , 2000 , 69, 2739-2742	1.5	2
1	Barrier Height and Film Thickness Dependence of the TMR. <i>Journal of the Physical Society of Japan</i> , 1999 , 68, 3444-3455	1.5	16