Hiroto Adachi

List of Publications by Year
in descending order

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66 papers	4,689 citations	279701 23 h-index	161767 54 g-index
67 all docs	67 docs citations	67 times ranked	3021 citing authors

#	Article	IF	Citations
1	Spin Seebeck insulator. Nature Materials, 2010, 9, 894-897.	13.3	1,088
2	Observation of longitudinal spin-Seebeck effect in magnetic insulators. Applied Physics Letters, 2010, 97, 172505.	1.5	636
3	Theory of the spin Seebeck effect. Reports on Progress in Physics, 2013, 76, 036501.	8.1	374
4	Linear-response theory of spin Seebeck effect in ferromagnetic insulators. Physical Review B, 2011, 83, .	1.1	239
5	Long-range spin Seebeck effect and acoustic spinÂpumping. Nature Materials, 2011, 10, 737-741.	13.3	235
6	Thermoelectric Generation Based on Spin Seebeck Effects. Proceedings of the IEEE, 2016, 104, 1946-1973.	16.4	232
7	Observation of the spin Seebeck effect in epitaxial Fe3O4 thin films. Applied Physics Letters, 2013, 102, .	1.5	163
8	Gigantic enhancement of spin Seebeck effect by phonon drag. Applied Physics Letters, 2010, 97, .	1.5	157
9	Origin of the spin Seebeck effect in compensated ferrimagnets. Nature Communications, 2016, 7, 10452.	5.8	154
10	Thermal spin pumping and magnon-phonon-mediated spin-Seebeck effect. Journal of Applied Physics, 2012, 111, .	1.1	140
11	Separation of longitudinal spin Seebeck effect from anomalous Nernst effect: Determination of origin of transverse thermoelectric voltage in metal/insulator junctions. Physical Review B, 2013, 88, .	1.1	126
12	Unidirectional spin-wave heat conveyer. Nature Materials, 2013, 12, 549-553.	13.3	125
13	Spin Seebeck effect in antiferromagnets and compensated ferrimagnets. Physical Review B, 2013, 87, .	1.1	117
14	Effects of Pauli paramagnetism on the superconducting vortex phase diagram in strong fields. Physical Review B, 2003, 68, .	1.1	113
15	Enhanced dc spin pumping into a fluctuating ferromagnet near<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>C</mml:mi></mml:msub><mml:m Physical Review B, 2014, 89, .	1.1	103
16	Spin Current: Experimental and Theoretical Aspects. Journal of the Physical Society of Japan, 2013, 82, 102002.	0.7	93
17	Unconventional scaling and significant enhancement of the spin Seebeck effect in multilayers. Physical Review B, 2015, 92, .	1.1	73
18	Angle-dependent magnetoresistance oscillation in the layered perovskiteSr2RuO4. Physical Review B, 1999, 59, 7263-7265.	1.1	58

#	Article	IF	Citations
19	Numerical study on the spin Seebeck effect. Physical Review B, 2011, 83, .	1.1	54
20	Generation of spin currents by surface plasmon resonance. Nature Communications, 2015, 6, 5910.	5.8	49
21	Spin pumping into superconductors: A new probe of spin dynamics in a superconducting thin film. Physical Review B, 2017, 96, .	1.1	48
22	Vortex state in a Fulde-Ferrell-Larkin-Ovchinnikov superconductor based on quasiclassical theory. Physical Review B, 2007, 76, .	1.1	31
23	Acoustic spin pumping: Direct generation of spin currents from sound waves in Pt/Y3Fe5O12 hybrid structures. Journal of Applied Physics, 2012, 111, .	1.1	30
24	Modulated vortex lattice in high fields and gap nodes. Physical Review B, 2004, 69, .	1.1	17
25	Mixed-State Thermodynamics of Superconductors with Moderately Large Paramagnetic Effects. Journal of the Physical Society of Japan, 2005, 74, 2181-2184.	0.7	17
26	Linear-response theory of the longitudinal spin Seebeck effect. Journal of the Korean Physical Society, 2013, 62, 1753-1758.	0.3	15
27	Thermal engineering of non-local resistance in lateral spin valves. Applied Physics Letters, 2014, 104, .	1.5	15
28	Spin Seebeck effect in paramagnets and antiferromagnets at elevated temperatures. Physical Review B, 2019, 100, .	1.1	14
29	Anisotropic Diamagnetic Response in Type-II Superconductors with Gap and Fermi-Surface Anisotropies. Physical Review Letters, 2005, 94, 067007.	2.9	13
30	Spin-Wave Spin Current in Magnetic Insulators. Solid State Physics, 2013, , 1-27.	1.3	12
31	Corrections to â€œThermoelectric Generation Based on Spin Seebeck Effectsâ€•[DOI: 10.1109/JPROC.2016.2535167]. Proceedings of the IEEE, 2016, 104, 1499-1499.	16.4	11
32	Spin Seebeck effect in a simple ferromagnet near T _c: a Ginzburgâ€“Landau approach. Journal Physics D: Applied Physics, 2018, 51, 144001.	1.3	11
33	Spin diffusion equation in superconductors in the vicinity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma Physical Review B, 2018, 98, .	1.1	11
34	Antiferromagnetic spin Seebeck effect across the spin-flop transition: A stochastic Ginzburg-Landau simulation. Physical Review B, 2022, 105, .	1.1	11
35	Josephson-Vortex-Glass Transition in Strong Fields. Journal of the Physical Society of Japan, 2000, 69, 2993-3006.	0.7	10
36	Probing thedx2â^'y2-wave Pomeranchuk instability by ultrasound. Physical Review B, 2009, 80, .	1.1	9

#	Article	IF	Citations
37	Magnon instability driven by heat current in magnetic bilayers. Physical Review B, 2015, 92, .	1.1	8
38	Fluctuation Conductivity in Unconventional Superconductors near Critical Disorder. Journal of the Physical Society of Japan, 2001, 70, 2848-2851.	0.7	7
39	Microscopic Study of Quantum Vortex-Glass Transition Field in Two-Dimensional Superconductors. Journal of the Physical Society of Japan, 2002, 71, 245-253.	0.7	7
40	Anomalous Thermal Conductivity of Semi-Metallic Superconductors with Electronâ€“Hole Compensation. Journal of the Physical Society of Japan, 2008, 77, 053704.	0.7	7
41	Theory of the acoustic spin pumping. Solid State Communications, 2014, 198, 22-25.	0.9	7
42	Theory of unidirectional spin heat conveyer. Journal of Applied Physics, 2015, 117, 17C710.	1.1	7
43	Comment on â€œFluctuation-Driven First-Order Transition in Pauli-Limitedd-Wave Superconductorsâ€• Physical Review Letters, 2005, 95, 269703; author reply 269704.	2.9	5
44	Theoretical Description of Nearly Discontinuous Transition in Superconductors with Paramagnetic Depairing. Journal of the Physical Society of Japan, 2003, 72, 2460-2463.	0.7	4
45	Basal-Plane Magnetic Anisotropies of High-Îº d-Wave Superconductors in a Mixed State: A Quasiclassical Approach. Journal of the Physical Society of Japan, 2006, 75, 084716.	0.7	3
46	Quasi-Classical Calculation of the Mixed-State Thermal Conductivity in s- and d-Wave Superconductors. Journal of the Physical Society of Japan, 2007, 76, 064708.	0.7	3
47	Relation of Superconducting Pairing Symmetry and Non-Magnetic Impurity Effects in Vortex States. Symmetry, 2020, 12, 175.	1.1	3
48	Spin Hall effect generated by fluctuating vortices in type-II superconductors. Physical Review B, 2021, 103, .	1.1	3
49	Variation of zero-energy density of states of a d -wave superconductor in a rotating in-plane magnetic field: Effect of nonmagnetic impurities. Physical Review B, 2020, 101, .	1.1	2
50	Quasiclassical calculation of the quasiparticle thermal conductivity in a mixed state. Journal of Magnetism and Magnetic Materials, 2007, 310, 640-642.	1.0	1
51	Spin Waves, Spin Currents and Spin Seebeck Effect. Topics in Applied Physics, 2013, , 119-128.	0.4	1
52	Spin pumping into a spin glass material. Physical Review B, 2020, 101, .	1.1	1
53	Nonmagnetic impurity effect in vortex states of chiral superconductors. Physical Review B, 2021, 103, .	1.1	1
54	Thermal Effects in Spintronics: Physics and Applications. , 2016, , 1553-1576.		1

#	Article	IF	Citations
55	Resistance peak under a magnetic field parallel to the conducting plane. Synthetic Metals, 1999, 103, 1912.	2.1	0
56	Theoretical study of phase transition in type II superconductors with Pauli paramagnetic effect in high magnetic field. Physica B: Condensed Matter, 2003, 329-333, 1391-1392.	1.3	0
57	Ginzburgâ€“Landau functional for type-II superconductors with Pauli paramagnetic effect. Journal of Physics Condensed Matter, 2003, 15, S2223-S2226.	0.7	0
58	Electronic Structure of Vortex in the FFLO Superconducting State. AIP Conference Proceedings, 2006, , .	0.3	0
59	Electronic structure of vortex state in a FFLO superconductor. Physica C: Superconductivity and Its Applications, 2006, 445-448, 186-189.	0.6	0
60	Thermal conductivity in the vortex state of s-wave and d-wave superconductors. AIP Conference Proceedings, 2007, , .	0.3	0
61	Electronic thermal conductivity in a superconducting vortex state. Physica C: Superconductivity and Its Applications, 2007, 463-465, 36-39.	0.6	0
62	Vortex state in FFLO superconductors. Journal of Magnetism and Magnetic Materials, 2007, 310, 593-595.	1.0	0
63	Novel mixed-state thermal transport properties in ultra-clean URu2Si2. Physica C: Superconductivity and Its Applications, 2010, 470, S579-S580.	0.6	0
64	Heat and spin. Journal of the Korean Physical Society, 2013, 62, 1985-1989.	0.3	0
65	Thermal Effects in Spintronics: Physics and Applications. , 2015, , 1-20.		0
66	Twofold Symmetric Electronic Structure of a Vortex in TypeÂII Superconductors. , 2020, , .		0