

Hidekazu Kurebayashi

List of Publications by Year in descending order

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62
papers

2,647
citations

201385

27
h-index

182168

51
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64
all docs

64
docs citations

64
times ranked

3082
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable gigahertz dynamics of low-temperature skyrmion lattice in a chiral magnet. Journal of Physics Condensed Matter, 2022, 34, 095801.	0.7	4
2	Magnetism, symmetry and spin transport in van der Waals layered systems. Nature Reviews Physics, 2022, 4, 150-166.	11.9	72
3	Observation and control of collective spin-wave mode hybridization in chevron arrays and in square, staircase, and brickwork artificial spin ices. Physical Review Research, 2022, 4, .	1.3	13
4	Reconfigurable training and reservoir computing in an artificial spin-vortex ice via spin-wave fingerprinting. Nature Nanotechnology, 2022, 17, 460-469.	15.6	60
5	Memristive, Spintronic, and 2D Materials-Based Devices to Improve and Complement Computing Hardware. Advanced Intelligent Systems, 2022, 4, .	3.3	13
6	Growth, strain, and spin-orbit torques in epitaxial Ni-Mn-Sb films sputtered on GaAs. Physical Review Materials, 2021, 5, .	0.9	3
7	Quantum Engineering With Hybrid Magnonic Systems and Materials (Invited Paper). IEEE Transactions on Quantum Engineering, 2021, 2, 1-36.	2.9	69
8	Spin-orbit coupling suppression and singlet-state blocking of spin-triplet Cooper pairs. Science Advances, 2021, 7, .	4.7	14
9	Parity-controlled spin-wave excitations in synthetic antiferromagnets. Applied Physics Letters, 2021, 118, .	1.5	7
10	Reconfigurable magnonic mode-hybridisation and spectral control in a bicomponent artificial spin ice. Nature Communications, 2021, 12, 2488.	5.8	30
11	Charge Density Waves in Electron-Doped Molybdenum Disulfide. Nano Letters, 2021, 21, 5516-5521.	4.5	10
12	Coupling microwave photons to topological spin textures in CuMnAs . Physical Review B, 2021, 104, .		
13	Tunable Pure Spin Supercurrents and the Demonstration of Their Gateability in a Spin-Wave Device. Physical Review X, 2020, 10, .	2.8	17
14	Tunable magnon-magnon coupling in synthetic antiferromagnets. Physical Review B, 2020, 102, .	1.1	46
15	Controlling the magnetic anisotropy in $\text{Cr}_2\text{Ge}_2\text{Te}_6$ by electrostatic gating. Nature Electronics, 2020, 3, 460-465.	13.1	145
16	Perpendicularly magnetized Ni/Pt (001) epitaxial superlattice. Physical Review Materials, 2020, 4, .	0.9	11
17	Spin dynamics study in layered van der Waals single-crystal Cr_2Te . Physical Review B, 2019, 100, .		
18	Tunable magnetization dynamics in artificial spin ice via shape anisotropy modification. Physical Review B, 2019, 100, .	1.1	47

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19	Development of Automatic Badminton Playing Robot with Distance Image Sensor. IFAC-PapersOnLine, 2019, 52, 67-72.	0.5	7
20	Effect of Meissner Screening and Trapped Magnetic Flux on Magnetization Dynamics in Thick $\text{NbNi}_{80}\text{Zr}_{20}$ Trilayers. Physical Review Applied, 2019, 11, .	1.5	44
21	Bolometric ferromagnetic resonance techniques for characterising spin-Hall effect at high temperatures. Journal of Magnetism and Magnetic Materials, 2019, 485, 304-307.	1.0	6
22	Magnon-photon coupling in the noncollinear magnetic insulator Cu_2OSeO_3 . Physical Review B, 2019, 99, .	1.1	16
23	$\text{Pt/NbNi}_{80}\text{Zr}_{20}$ spin pumping. Physical Review B, 2019, 99, .	1.1	25
24	Exchange-field enhancement of superconducting spin pumping. Physical Review B, 2019, 99, .	1.1	31
25	Spin transport parameters of NbN thin films characterized by spin pumping experiments. Physical Review Materials, 2019, 3, .	0.9	30
26	Enhanced spin pumping into superconductors provides evidence for superconducting pure spin currents. Nature Materials, 2018, 17, 499-503.	13.3	107
27	Electric power transfer in spin-pumping experiments. Applied Physics Express, 2018, 11, 013004.	1.1	3
28	Spin-Pumping-Induced Inverse Spin Hall Effect in $\text{NbNi}_{80}\text{Zr}_{20}$ Bilayers and its Strong Decay Across the Superconducting Transition Temperature. Physical Review Applied, 2018, 10, .	1.5	38
29	Crystal structure and crystal growth of the polar ferrimagnet $\text{CaBaFe}_4\text{O}_7$. Physical Review Materials, 2018, 2, .	0.9	3
30	Anatomy of spin-orbit torques. Nature Nanotechnology, 2017, 12, 941-942.	15.6	1
31	Going in the right direction. Nature Physics, 2017, 13, 209-210.	6.5	2
32	Complementary spin-Hall and inverse spin-galvanic effect torques in a ferromagnet/semiconductor bilayer. Nature Communications, 2015, 6, 6730.	5.8	36
33	Magnonic charge pumping via spin-orbit coupling. Nature Nanotechnology, 2015, 10, 50-54.	15.6	64
34	Polaron spin current transport in organic semiconductors. Nature Physics, 2014, 10, 308-313.	6.5	170
35	Electric control of the spin Hall effect by intervalley transitions. Nature Materials, 2014, 13, 932-937.	13.3	49
36	An antidamping spin-orbit torque originating from the Berry curvature. Nature Nanotechnology, 2014, 9, 211-217.	15.6	273

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37	Spin-orbit torque opposing the Oersted torque in ultrathin Co/Pt bilayers. Applied Physics Letters, 2014, 104, .	1.5	55
38	Control of Pure Spin Current by Magnon Tunneling and Three-Magnon Splitting in Insulating Yttrium Iron Garnet Films. Solid State Physics, 2013, 64, 83-122.	1.3	2
39	Enhanced inverse spin-Hall effect in ultrathin ferromagnetic/normal metal bilayers. Applied Physics Letters, 2013, 102, .	1.5	12
40	Uniaxial anisotropy of two-magnon scattering in an ultrathin epitaxial Fe layer on GaAs. Applied Physics Letters, 2013, 102, 062415.	1.5	40
41	Effect of the magnetic film thickness on the enhancement of the spin current by multi-magnon processes. Applied Physics Letters, 2013, 102, .	1.5	10
42	Electrical excitation and detection of magnetic dynamics with impedance matching. Applied Physics Letters, 2012, 101, 182402.	1.5	3
43	Characterisation of ferromagnetic rings for Zernike phase plates using the Aharonov-Bohm effect. Ultramicroscopy, 2012, 120, 78-85.	0.8	20
44	Spin pumping by parametrically excited short-wavelength spin waves. Applied Physics Letters, 2011, 99, .	1.5	49
45	Controlled enhancement of spin-current emission by three-magnon splitting. Nature Materials, 2011, 10, 660-664.	13.3	170
46	Spin-orbit-driven ferromagnetic resonance. Nature Nanotechnology, 2011, 6, 413-417.	15.6	182
47	Electrically tunable spin injector free from the impedance mismatch problem. Nature Materials, 2011, 10, 655-659.	13.3	324
48	Spin current depolarization under high electric fields in undoped InGaAs. Applied Physics Letters, 2011, 98, 242104.	1.5	9
49	Electrical determination of the spin relaxation time of photoexcited electrons in GaAs. Applied Physics Letters, 2010, 96, .	1.5	13
50	Schottky Barrier Height in Fe/GaAs Films. IEEE Transactions on Magnetics, 2010, 46, 1737-1740.	1.2	12
51	Spin-engineering in the Co ₇₅ Fe ₂₅ /Cu(110) system. Journal of Magnetism and Magnetic Materials, 2010, 322, 2493-2497.	1.0	2
52	Spin transport in germanium at room temperature. Applied Physics Letters, 2010, 97, 162104.	1.5	43
53	The initial growth mode of Co on Cu(311). Journal of Applied Physics, 2010, 107, 09E101.	1.1	0
54	Numerical calculation model for spin-dependent transport of photoexcited electrons across Fe/GaAs(0001) interfaces. Journal Physics D: Applied Physics, 2010, 43, 305001.	1.3	1

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55	Spin polarization control through resonant states in an Fe/GaAs Schottky barrier. Physical Review B, 2008, 78, .	1.1	28
56	Distinct evolution of magnetism and anisotropy of ultrathin CoFe and Co films on Cu(110) upon gas adsorption. Journal of Applied Physics, 2008, 103, 07C911.	1.1	2
57	Effect of MgO barriers on ferromagnetic metallic layers studied by polarized neutron reflectivity. Applied Physics Letters, 2008, 93, 012505.	1.5	9
58	Initial/final state selection of the spin polarization in electron tunneling across an epitaxial Fe ^δ /GaAs(001) interface. Applied Physics Letters, 2007, 91, .	1.5	23
59	Magnetic properties of epitaxial Co/sub 2/Cr/sub 1-x/Fe/sub x/Al full Heusler alloy thin films with the L2/sub 1/ structure. IEEE Transactions on Magnetics, 2005, 41, 2802-2804.	1.2	12
60	Magnetic properties of L21-structured Co2(Cr,Fe)Al films grown on GaAs(001) substrates. Journal of Applied Physics, 2005, 97, 10C308.	1.1	18
61	Structural and magnetic properties of epitaxial L21-structured Co2(Cr,Fe)Al films grown on GaAs(001) substrates. Journal of Applied Physics, 2005, 97, 103714.	1.1	62
62	Magnetoresistance in tunnel junctions using Co2(Cr,Fe)Al full Heusler alloys. Journal of Applied Physics, 2004, 95, 7234-7236.	1.1	49