

Kouta Kondou

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,110
citations

331259

21
h-index

233125

45
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all docs

53
docs citations

53
times ranked

2464
citing authors

#	ARTICLE	IF	CITATIONS
1	Fermi-level-dependent charge-to-spin current conversion by Dirac surface states of topological insulators. Nature Physics, 2016, 12, 1027-1031.	6.5	307
2	Magnetic and magnetic inverse spin Hall effects in a non-collinear antiferromagnet. Nature, 2019, 565, 627-630.	13.7	252
3	Electrical manipulation of a topological antiferromagnetic state. Nature, 2020, 580, 608-613.	13.7	212
4	Evaluation of Spin Hall Angle and Spin Diffusion Length by Using Spin Current-Induced Ferromagnetic Resonance. Applied Physics Express, 2012, 5, 073002.	1.1	138
5	Spintronic devices for energy-efficient data storage and energy harvesting. Communications Materials, 2020, 1, .	2.9	125
6	Current-Nonlinear Hall Effect and Spin-Orbit Torque Magnetization Switching in a Magnetic Topological Insulator. Physical Review Letters, 2017, 119, 137204.	2.9	122
7	Propagation dynamics of spin excitations along skyrmion strings. Nature Communications, 2020, 11, 256.	5.8	81
8	Experimental observation of spin-to-charge current conversion at non-magnetic metal/Bi ₂ O ₃ interfaces. Applied Physics Express, 2016, 9, 033001.	1.1	78
9	Current-Driven Domain Wall Motion in CoCrPt Wires with Perpendicular Magnetic Anisotropy. Applied Physics Express, 2008, 1, 011301.	1.1	55
10	Inverse Edelstein effect induced by magnon-phonon coupling. Physical Review B, 2018, 97, .	1.1	55
11	Influence of inverse spin Hall effect in spin-torque ferromagnetic resonance measurements. Applied Physics Express, 2016, 9, 023002.	1.1	49
12	Evaluation of spin diffusion length and spin Hall angle of the antiferromagnetic Weyl semimetal Mn_3Sn . Physical Review B, 2019, 99.	1.1	47
13	Nontrivial torque generation by orbital angular momentum injection in ferromagnetic-metal/ Cu_3O multilayers. Physical Review B, 2021, 103.	1.1	47
14	Spin-transfer switching in full-Heusler Co ₂ FeAl-based magnetic tunnel junctions. Applied Physics Letters, 2012, 100, .	1.5	45
15	Clear variation of spin splitting by changing electron distribution at non-magnetic metal/Bi ₂ O ₃ interfaces. Scientific Reports, 2018, 8, 5564.	1.6	44
16	Giant field-like torque by the out-of-plane magnetic spin Hall effect in a topological antiferromagnet. Nature Communications, 2021, 12, 6491.	5.8	41
17	Modulation of effective damping constant using spin Hall effect. Applied Physics Letters, 2014, 104, 092408.	1.5	37
18	Important role of magnetization precession angle measurement in inverse spin Hall effect induced by spin pumping. Applied Physics Letters, 2017, 110, .	1.5	30

#	ARTICLE	IF	CITATIONS
19	Evaluation of bulk-interface contributions to Edelstein magnetoresistance at metal/oxide interfaces. Physical Review B, 2017, 96, .	1.1	28
20	Three-Terminal Device Based on the Current-Induced Magnetic Vortex Dynamics with the Magnetic Tunnel Junction. Applied Physics Express, 0, 1, 091302.	1.1	26
21	Direct optical observation of spin accumulation at nonmagnetic metal/oxide interface. Applied Physics Letters, 2017, 111, 092402.	1.5	26
22	Omnidirectional Control of Large Electrical Output in a Topological Antiferromagnet. Advanced Functional Materials, 2021, 31, 2008971.	7.8	26
23	Single Shot Detection of the Magnetic Domain Wall Motion by Using Tunnel Magnetoresistance Effect. Applied Physics Express, 0, 1, 061302.	1.1	25
24	Electrical nucleation, displacement, and detection of antiferromagnetic domain walls in the chiral antiferromagnet Mn ₃ Sn. Communications Physics, 2020, 3, .	2.0	21
25	Efficient spin current generation and suppression of magnetic damping due to fast spin ejection from nonmagnetic metal/indium-tin-oxide interfaces. APL Materials, 2018, 6, 101105.	2.2	16
26	Large Hall Signal due to Electrical Switching of an Antiferromagnetic Weyl Semimetal State. Small Science, 2021, 1, 2000025.	5.8	16
27	Chirality-Induced Magnetoresistance Due to Thermally Driven Spin Polarization. Journal of the American Chemical Society, 2022, 144, 7302-7307.	6.6	16
28	Realization of Spin-dependent Functionality by Covering a Metal Surface with a Single Layer of Molecules. Nano Letters, 2019, 19, 7119-7123.	4.5	14
29	Enhancement of acoustic spin pumping by acoustic distributed Bragg reflector cavity. Applied Physics Letters, 2020, 116, .	1.5	14
30	Spin relaxation characteristics in Ag nanowire covered with various oxides. Applied Physics Letters, 2015, 107, .	1.5	12
31	Phenomenological model for the direct and inverse Edelstein effects. Physical Review B, 2020, 102, .	1.1	12
32	Large enhancement of the spin Hall effect in Mn metal by Sn doping. Physical Review Materials, 2018, 2, .	0.9	11
33	Spin-orbit torque switching of the antiferromagnetic state in polycrystalline Mn ₃ Sn/Cu/heavy metal heterostructures. AIP Advances, 2021, 11, .	0.6	10
34	Observation of anisotropic energy transfer in magnetically coupled magnetic vortex pair. Applied Physics Letters, 2016, 108, .	1.5	9
35	Spin-current-driven thermoelectric generation based on interfacial spin-orbit coupling. Applied Physics Letters, 2016, 108, 242409.	1.5	8
36	High output voltage of magnetic tunnel junctions with a Cu(In _{0.8} Ga _{0.2})Se ₂ semiconducting barrier with a low resistance-area product. Applied Physics Express, 2017, 10, 013008.	1.1	8

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37	Chirality-induced effective magnetic field in a phthalocyanine molecule. Applied Physics Express, 2020, 13, 113001.	1.1	7
38	Impact of interface stiffness in surface-wave resonances on nanostrip-attached substrates. Physical Review B, 2016, 93, .	1.1	6
39	Phase boundary exchange coupling in the mixed magnetic phase regime of a Pd-doped FeRh epilayer. Physical Review Materials, 2020, 4, .	0.9	6
40	Progress in Spinconversion and its Connection with Band Crossing. Annalen Der Physik, 2022, 534, .	0.9	6
41	Selective mode excitation in three-chained magnetic vortices. Applied Physics Express, 2015, 8, 063005.	1.1	4
42	Evidence for spin swapping from modulation of transverse resistance in magnetic heterostructures with Rashba interface. Applied Physics Letters, 2020, 116, .	1.5	3
43	Influence of planar Hall effect on the output signal in a T-shaped spin conversion device. Applied Physics Letters, 2021, 119, 092401.	1.5	3
44	Experimental detection of domain wall propagation above the Walker field. Journal of Physics Condensed Matter, 2012, 24, 024217.	0.7	2
45	Spin pumping due to spin waves in magnetic vortex structure. Applied Physics Express, 2017, 10, 053002.	1.1	2
46	Spin Relaxation Enhanced by Decorating Cu Surfaces With Lead (II) Phthalocyanine Molecules. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	2
47	Enhanced spin-to-charge current conversion at metal/oxide interfaces by lowering the temperature. Japanese Journal of Applied Physics, 2019, 58, 110907.	0.8	2
48	Effect of Current on Domain Wall Depinning Field in Co/Ni Nanowire. Japanese Journal of Applied Physics, 2012, 51, 028005.	0.8	1
49	Magneto-thermodynamic Properties and Anomalous Magnetic Phase Transition in FeRh Nanowires. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	1
50	Subtractively Prepared Permalloy Nanowires for Spin-Torque Experiments. Journal of Physics: Conference Series, 2011, 303, 012092.	0.3	0
51	Electrical Investigation of Notch Width Dependence of Domain Wall Structure in Co/Ni Nanowires. Japanese Journal of Applied Physics, 2011, 50, 073002.	0.8	0
52	Magnetoresistance in ferromagnetic multilayer with strong interfacial spin-orbit coupling (Conference Presentation). , 2016, , .		0