Kouta Kondou

List of Publications by Year
in descending order

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52 papers	2,110 citations	331259 21 h-index	233125 45 g-index
53 all docs	53 docs citations	53 times ranked	2464 citing authors

#	Article	IF	Citations
1	Progress in Spinconversion and its Connection with Band Crossing. Annalen Der Physik, 2022, 534, .	0.9	6
2	Chirality-Induced Magnetoresistance Due to Thermally Driven Spin Polarization. Journal of the American Chemical Society, 2022, 144, 7302-7307.	6.6	16
3	Nontrivial torque generation by orbital angular momentum injection in ferromagnetic-metal/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Cu</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> bilayers. Physical Review B, 2021, 103, .	1.1	47
4	Omnidirectional Control of Large Electrical Output in a Topological Antiferromagnet. Advanced Functional Materials, 2021, 31, 2008971.	7.8	26
5	Large Hall Signal due to Electrical Switching of an Antiferromagnetic Weyl Semimetal State. Small Science, 2021, 1, 2000025.	5.8	16
6	Spinâ€“orbit torque switching of the antiferromagnetic state in polycrystalline Mn3Sn/Cu/heavy metal heterostructures. AIP Advances, 2021, 11, .	0.6	10
7	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
8	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
9	Phenomenological model for the direct and inverse Edelstein effects. Physical Review B, 2020, 102, .	1.1	12
10	Spintronic devices for energy-efficient data storage and energy harvesting. Communications Materials, 2020, 1, .	2.9	125
11	Enhancement of acoustic spin pumping by acoustic distributed Bragg reflector cavity. Applied Physics Letters, 2020, 116, .	1.5	14
12	Electrical nucleation, displacement, and detection of antiferromagnetic domain walls in the chiral antiferromagnet Mn3Sn. Communications Physics, 2020, 3, .	2.0	21
13	Evidence for spin swapping from modulation of transverse resistance in magnetic heterostructures with Rashba interface. Applied Physics Letters, 2020, 116, .	1.5	3
14	Propagation dynamics of spin excitations along skyrmion strings. Nature Communications, 2020, 11, 256.	5.8	81
15	Electrical manipulation of a topological antiferromagnetic state. Nature, 2020, 580, 608-613.	13.7	212
16	Phase boundary exchange coupling in the mixed magnetic phase regime of a Pd-doped FeRh epilayer. Physical Review Materials, 2020, 4, .	0.9	6
17	Chirality-induced effective magnetic field in a phthalocyanine molecule. Applied Physics Express, 2020, 13, 113001.	1.1	7
18	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

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19	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
20	Evaluation of spin diffusion length and spin Hall angle of the antiferromagnetic Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi>Sn</mml:mi></mml:math>. Physical Review B, 2019, 99, .	1.1	47
21	Magnetic and magneticÂinverse spin Hall effects in a non-collinear antiferromagnet. Nature, 2019, 565, 627-630.	13.7	252
22	Clear variation of spin splitting by changing electron distribution at non-magnetic metal/Bi2O3 interfaces. Scientific Reports, 2018, 8, 5564.	1.6	44
23	Magnetothermodynamic Properties and Anomalous Magnetic Phase Transition in FeRh Nanowires. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	1
24	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
25	Spin Relaxation Enhanced by Decorating Cu Surfaces With Lead (II) Phthalocyanine Molecules. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	2
26	Inverse Edelstein effect induced by magnon-phonon coupling. Physical Review B, 2018, 97, .	1.1	55
27	Large enhancement of the spin Hall effect in Mn metal by Sn doping. Physical Review Materials, 2018, 2, .	0.9	11
28	Important role of magnetization precession angle measurement in inverse spin Hall effect induced by spin pumping. Applied Physics Letters, 2017, 110, .	1.5	30
29	Spin pumping due to spin waves in magnetic vortex structure. Applied Physics Express, 2017, 10, 053002.	1.1	2
30	High output voltage of magnetic tunnel junctions with a Cu(In_{0.8}Ga_{0.2})Se₂ semiconducting barrier with a low resistanceâ€“area product. Applied Physics Express, 2017, 10, 013008.	1.1	8
31	Current-Nonlinear Hall Effect and Spin-Orbit Torque Magnetization Switching in a Magnetic Topological Insulator. Physical Review Letters, 2017, 119, 137204.	2.9	122
32	Evaluation of bulk-interface contributions to Edelstein magnetoresistance at metal/oxide interfaces. Physical Review B, 2017, 96, .	1.1	28
33	Direct optical observation of spin accumulation at nonmagnetic metal/oxide interface. Applied Physics Letters, 2017, 111, 092402.	1.5	26
34	Spin-current-driven thermoelectric generation based on interfacial spin-orbit coupling. Applied Physics Letters, 2016, 108, 242409.	1.5	8
35	Fermi-level-dependent charge-to-spin current conversion by Dirac surface states of topologicalÂinsulators. Nature Physics, 2016, 12, 1027-1031.	6.5	307
36	Impact of interface stiffness in surface-wave resonances on nanostrip-attached substrates. Physical Review B, 2016, 93, .	1.1	6

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37	Magnetoresistance in ferromagnetic multilayer with strong interfacial spin-orbit coupling (Conference Presentation). , 2016, , .		0
38	Experimental observation of spin-to-charge current conversion at non-magnetic metal/Bi₂O₃ interfaces. Applied Physics Express, 2016, 9, 033001.	1.1	78
39	Observation of anisotropic energy transfer in magnetically coupled magnetic vortex pair. Applied Physics Letters, 2016, 108, .	1.5	9
40	Influence of inverse spin Hall effect in spin-torque ferromagnetic resonance measurements. Applied Physics Express, 2016, 9, 023002.	1.1	49
41	Spin relaxation characteristics in Ag nanowire covered with various oxides. Applied Physics Letters, 2015, 107, .	1.5	12
42	Selective mode excitation in three-chained magnetic vortices. Applied Physics Express, 2015, 8, 063005.	1.1	4
43	Modulation of effective damping constant using spin Hall effect. Applied Physics Letters, 2014, 104, 092408.	1.5	37
44	Effect of Current on Domain Wall Depinning Field in Co/Ni Nanowire. Japanese Journal of Applied Physics, 2012, 51, 028005.	0.8	1
45	Experimental detection of domain wall propagation above the Walker field. Journal of Physics Condensed Matter, 2012, 24, 024217.	0.7	2
46	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
47	Spin-transfer switching in full-Heusler Co2FeAl-based magnetic tunnel junctions. Applied Physics Letters, 2012, 100, .	1.5	45
48	Subtractively Prepared Permalloy Nanowires for Spin-Torque Experiments. Journal of Physics: Conference Series, 2011, 303, 012092.	0.3	0
49	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
50	Current-Driven Domain Wall Motion in CoCrPt Wires with Perpendicular Magnetic Anisotropy. Applied Physics Express, 2008, 1, 011301.	1.1	55
51	Single Shot Detection of the Magnetic Domain Wall Motion by Using Tunnel Magnetoresistance Effect. Applied Physics Express, 0, 1, 061302.	1.1	25
52	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