

Jun'ichi Ieda

List of Publications by Year in descending order

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77
papers

6,442
citations

218677

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82547

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times ranked

4576
citing authors

#	ARTICLE	IF	CITATIONS
1	The Damage Analysis for Irradiation Tolerant Spin-Driven Thermoelectric Device Based on Single-Crystalline Yâ,fFeâ,...Oâ,â,,/Pt Heterostructures. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	1
2	Magnetic Bragg peak enhancement under ultrasound injection. Physical Review Research, 2022, 4, .	3.6	2
3	Theory of Emergent Inductance with Spin-Orbit Coupling Effects. Physical Review Letters, 2022, 128, 147201.	7.8	6
4	Observation of topological Hall torque exerted on a domain wall in the ferromagnetic oxide SrRuO ₃ . Science Advances, 2022, 8, eabl6192.	10.3	6
5	Observation of domain structure in non-collinear antiferromagnetic Mn ₃ Sn thin films by magneto-optical Kerr effect. Applied Physics Letters, 2022, 120, .	3.3	12
6	Large Antisymmetric Interlayer Exchange Coupling Enabling Perpendicular Magnetization Switching by an In-Plane Magnetic Field. Physical Review Applied, 2022, 17, .	3.8	9
7	Local bifurcation with spin-transfer torque in superparamagnetic tunnel junctions. Nature Communications, 2022, 13, .	12.8	3
8	Spinâ€œOrbit-Induced Ising Ferromagnetism at a van der Waals Interface. Nano Letters, 2021, 21, 1807-1814.	9.1	14
9	Broken C_4 symmetry in the tetragonal state of uniaxial strained $BaCo_2S_2$. Physical Review Research, 2021, 3, .	3.6	1
10	Intrinsic and extrinsic tunability of Rashba spin-orbit coupled emergent inductors. Physical Review B, 2021, 103, .	3.2	20
11	Chiral-spin rotation of non-collinear antiferromagnet by spinâ€œorbit torque. Nature Materials, 2021, 20, 1364-1370.	27.5	87
12	Correlation of anomalous Hall effect with structural parameters and magnetic ordering in Mn ₃ Sn thin films. AIP Advances, 2021, 11, .	1.3	14
13	Intrinsic Torques Emerging from Anomalous Velocity in Magnetic Textures. Physical Review Letters, 2021, 127, 277205.	7.8	4
14	Tolerance of spin-Seebeck thermoelectricity against irradiation by swift heavy ions. Journal of Applied Physics, 2020, 128, .	2.5	3
15	Hard X-ray Photoelectron Spectroscopy Study of Pt/Y ₃ Fe ₅ O ₁₂ . , 2020, .		2
16	Electric field effect on the magnetic domain wall creep velocity in Pt/Co/Pd structures with different Co thicknesses. Applied Physics Letters, 2020, 116, .	3.3	6
17	Ultralow-energy magnon anomaly in yttrium iron garnet. Physical Review Research, 2020, 2, .	3.6	8
18	Skyrmion-generated spinmotive forces in inversion broken ferromagnets. Journal of Magnetism and Magnetic Materials, 2019, 491, 165550.	2.3	7

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19	Current-Induced Modulation of Coercive Field in the Ferromagnetic Oxide SrRuO ₃ . IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	4
20	A Quantum Mechanical Theory of Pumping \leftrightarrow Magnetic Swings \leftrightarrow . JPSJ News and Comments, 2019, 16, 12.	0.1	0
21	Spinmotive force in the out-of-plane direction generated by spin wave excitations in an exchange-coupled bilayer element. Physical Review B, 2019, 100, .	3.2	7
22	Magnetic Anisotropy by Rashba Spin-Orbit Coupling in Antiferromagnetic Thin Films. Journal of the Physical Society of Japan, 2018, 87, 053703.	1.6	5
23	Electric field control of magnetic domain wall motion via modulation of the Dzyaloshinskii-Moriya interaction. Science Advances, 2018, 4, eaav0265.	10.3	49
24	Horizontal rectal transection using an endolinear stapler for laparoscopic low anterior resection. Techniques in Coloproctology, 2017, 21, 311-313.	1.8	1
25	Spin-transfer torques in antiferromagnetic textures: Efficiency and quantification method. Physical Review B, 2016, 94, .	3.2	31
26	Electric voltage generation by antiferromagnetic dynamics. Physical Review B, 2016, 93, .	3.2	15
27	Spin hydrodynamic generation. Nature Physics, 2016, 12, 52-56.	16.7	120
28	Barnett effect in paramagnetic states. Physical Review B, 2015, 92, .	3.2	31
29	Mechanical generation of spin current. Frontiers in Physics, 2015, 3, .	2.1	15
30	Thermal stability of a magnetic domain wall in nanowires. Physical Review B, 2015, 91, .	3.2	21
31	Rotational Doppler Effect and Barnett Field in Spinning NMR. Journal of the Physical Society of Japan, 2015, 84, 043601.	1.6	17
32	Spin pumping blocked by single-layer graphene. Applied Physics Express, 2015, 8, 073009.	2.4	2
33	Line splitting by mechanical rotation in nuclear magnetic resonance. Japanese Journal of Applied Physics, 2015, 54, 050302.	1.5	12
34	Spinmotive Force as a New Energy Conversion Mechanism. Journal of the Magnetics Society of Japan, 2014, 38, 75-77.	0.9	0
35	Thermal engineering of non-local resistance in lateral spin valves. Applied Physics Letters, 2014, 104, .	3.3	15
36	Observation of Barnett fields in solids by nuclear magnetic resonance. Applied Physics Express, 2014, 7, 063004.	2.4	45

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37	Theory of mechanical spin current generation via spin-rotation coupling. Solid State Communications, 2014, 198, 52-56.	1.9	19
38	Spinmotive force due to motion of magnetic bubble arrays driven by magnetic field gradient. Scientific Reports, 2014, 4, 6901.	3.3	13
39	Rashba Spin-Orbit Anisotropy and the Electric Field Control of Magnetism. Scientific Reports, 2014, 4, 4105.	3.3	159
40	Spinmotive force with static and uniform magnetization induced by a time-varying electric field. Physical Review B, 2013, 88, .	3.2	18
41	Real-time analysis of the spinmotive force due to domain wall motion. Journal of the Korean Physical Society, 2013, 62, 1802-1806.	0.7	1
42	Spin Current: Experimental and Theoretical Aspects. Journal of the Physical Society of Japan, 2013, 82, 102002.	1.6	93
43	Mechanical generation of spin current by spin-rotation coupling. Physical Review B, 2013, 87, .	3.2	114
44	Effects of mechanical rotation and vibration on spin currents. Journal of the Korean Physical Society, 2013, 62, 1404-1409.	0.7	3
45	Renormalization of spin-rotation coupling. Physical Review B, 2013, 87, .	3.2	25
46	SPINMOTIVE FORCE IN MAGNETIC NANOSTRUCTURES. Spin, 2013, 03, 1330004.	1.3	9
47	Time-Domain Observation of the Spinmotive Force in Permalloy Nanowires. Physical Review Letters, 2012, 108, 147202.	7.8	43
48	Stability of spinmotive force in perpendicularly magnetized nanowires under high magnetic fields. Applied Physics Letters, 2012, 100, 162401.	3.3	7
49	Magnetic power inverter: AC voltage generation from DC magnetic fields. Applied Physics Letters, 2012, 101, .	3.3	7
50	Effects of Mechanical Rotation on Spin Currents. Physical Review Letters, 2011, 106, 076601.	7.8	110
51	Equation-of-motion approach of spin-motive force. Journal of Applied Physics, 2011, 109, 07C735.	2.5	19
52	Inverse spin-Hall effect induced by spin pumping in metallic system. Journal of Applied Physics, 2011, 109, .	2.5	438
53	Spinmotive Force Due to Intrinsic Energy of Ferromagnetic Nanowires. Applied Physics Express, 2011, 4, 093003.	2.4	9
54	Electrically tunable spin injector free from the impedance mismatch problem. Nature Materials, 2011, 10, 655-659.	27.5	324

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55	Spin-dependent inertial force and spin current in accelerating systems. Physical Review B, 2011, 84, .	3.2	64
56	Spin current generation due to mechanical rotation in the presence of impurity scattering. Applied Physics Letters, 2011, 98, 242501.	3.3	19
57	Continuous Generation of Spinmotive Force in a Patterned Ferromagnetic Film. Physical Review Letters, 2011, 107, 236602.	7.8	49
58	Current-induced domain wall motion in magnetic nanowires with spatial variation. Journal of Magnetism and Magnetic Materials, 2010, 322, 1363-1367.	2.3	9
59	Spin Seebeck insulator. Nature Materials, 2010, 9, 894-897.	27.5	1,088
60	Phenomenological analysis for spin-Seebeck effect in metallic magnets. Journal of Applied Physics, 2009, 105, 07C908.	2.5	36
61	Electric detection of spin wave resonance using inverse spin-Hall effect. Applied Physics Letters, 2009, 94, .	3.3	76
62	CURRENT-INDUCED DOMAIN WALL CREEP IN MAGNETIC WIRES. , 2009, , .		0
63	Observation of the spin Seebeck effect. Nature, 2008, 455, 778-781.	27.8	1,858
64	Electric Manipulation of Spin Relaxation Using the Spin Hall Effect. Physical Review Letters, 2008, 101, 036601.	7.8	547
65	Multicomponent Bright Solitons in F=2 Spinor Bose-Einstein Condensates. Journal of the Physical Society of Japan, 2007, 76, 074005.	1.6	23
66	Universality Classes for Domain Wall Motion in the Ferromagnetic Semiconductor (Ga,Mn)As. Science, 2007, 317, 1726-1729.	12.6	130
67	Inverse scattering method for square matrix nonlinear Schrödinger equation under nonvanishing boundary conditions. Journal of Mathematical Physics, 2007, 48, 013507.	1.1	38
68	Numerical analysis of spin accumulation due to a domain wall. Journal of Magnetism and Magnetic Materials, 2007, 310, 2055-2057.	2.3	4
69	Spin accumulation and resistance due to a domain wall. Journal of Magnetism and Magnetic Materials, 2007, 310, 2058-2060.	2.3	6
70	Soliton Dynamics of F=1 Spinor Bose-Einstein Condensate with Nonvanishing Boundaries. Journal of Low Temperature Physics, 2007, 148, 399-404.	1.4	13
71	Nonlinear Dynamics of Spin Structure in Confined Bose-Einstein Condensates. Journal of Low Temperature Physics, 2007, 148, 405-410.	1.4	6
72	Dark Solitons in F=1 Spinor Bose-Einstein Condensate. Journal of the Physical Society of Japan, 2006, 75, 064002.	1.6	93

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73	Exact soliton solutions of spinor Bose-Einstein condensates. <i>Laser Physics</i> , 2006, 16, 678-682.	1.2	14
74	Magnetic memory and current amplification devices using moving domain walls. <i>Applied Physics Letters</i> , 2006, 89, 122507.	3.3	60
75	Matter-Wave Solitons in an F=1 Spinor Bose-Einstein Condensate. <i>Journal of the Physical Society of Japan</i> , 2004, 73, 2996-3007.	1.6	90
76	Exact Analysis of Soliton Dynamics in Spinor Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2004, 93, 194102.	7.8	212
77	Bose-Einstein Condensation of Ideal Bose Gases. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 1256-1259.	1.6	1