

Jun'ichi Ieda

List of Publications by Year in descending order

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77
papers

6,442
citations

218677

26
h-index

82547

72
g-index

79
all docs

79
docs citations

79
times ranked

4576
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of the spin Seebeck effect. Nature, 2008, 455, 778-781.	27.8	1,858
2	Spin Seebeck insulator. Nature Materials, 2010, 9, 894-897.	27.5	1,088
3	Electric Manipulation of Spin Relaxation Using the Spin Hall Effect. Physical Review Letters, 2008, 101, 036601.	7.8	547
4	Inverse spin-Hall effect induced by spin pumping in metallic system. Journal of Applied Physics, 2011, 109, .	2.5	438
5	Electrically tunable spin injector free from the impedance mismatch problem. Nature Materials, 2011, 10, 655-659.	27.5	324
6	Exact Analysis of Soliton Dynamics in Spinor Bose-Einstein Condensates. Physical Review Letters, 2004, 93, 194102.	7.8	212
7	Rashba Spin-Orbit Anisotropy and the Electric Field Control of Magnetism. Scientific Reports, 2014, 4, 4105.	3.3	159
8	Universality Classes for Domain Wall Motion in the Ferromagnetic Semiconductor (Ga,Mn)As. Science, 2007, 317, 1726-1729.	12.6	130
9	Spin hydrodynamic generation. Nature Physics, 2016, 12, 52-56.	16.7	120
10	Mechanical generation of spin current by spin-rotation coupling. Physical Review B, 2013, 87, .	3.2	114
11	Effects of Mechanical Rotation on Spin Currents. Physical Review Letters, 2011, 106, 076601.	7.8	110
12	Dark Solitons in F=1 Spinor Bose-Einstein Condensate. Journal of the Physical Society of Japan, 2006, 75, 064002.	1.6	93
13	Spin Current: Experimental and Theoretical Aspects. Journal of the Physical Society of Japan, 2013, 82, 102002.	1.6	93
14	Matter-Wave Solitons in an F=1 Spinor Bose-Einstein Condensate. Journal of the Physical Society of Japan, 2004, 73, 2996-3007.	1.6	90
15	Chiral-spin rotation of non-collinear antiferromagnet by spin-orbit torque. Nature Materials, 2021, 20, 1364-1370.	27.5	87
16	Electric detection of spin wave resonance using inverse spin-Hall effect. Applied Physics Letters, 2009, 94, .	3.3	76
17	Spin-dependent inertial force and spin current in accelerating systems. Physical Review B, 2011, 84, .	3.2	64
18	Magnetic memory and current amplification devices using moving domain walls. Applied Physics Letters, 2006, 89, 122507.	3.3	60

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19	Continuous Generation of Spinmotive Force in a Patterned Ferromagnetic Film. <i>Physical Review Letters</i> , 2011, 107, 236602.	7.8	49
20	Electric field control of magnetic domain wall motion via modulation of the Dzyaloshinskii-Moriya interaction. <i>Science Advances</i> , 2018, 4, eaav0265.	10.3	49
21	Observation of Barnett fields in solids by nuclear magnetic resonance. <i>Applied Physics Express</i> , 2014, 7, 063004.	2.4	45
22	Time-Domain Observation of the Spinmotive Force in Permalloy Nanowires. <i>Physical Review Letters</i> , 2012, 108, 147202.	7.8	43
23	Inverse scattering method for square matrix nonlinear Schrödinger equation under nonvanishing boundary conditions. <i>Journal of Mathematical Physics</i> , 2007, 48, 013507.	1.1	38
24	Phenomenological analysis for spin-Seebeck effect in metallic magnets. <i>Journal of Applied Physics</i> , 2009, 105, 07C908.	2.5	36
25	Barnett effect in paramagnetic states. <i>Physical Review B</i> , 2015, 92, .	3.2	31
26	Spin-transfer torques in antiferromagnetic textures: Efficiency and quantification method. <i>Physical Review B</i> , 2016, 94, .	3.2	31
27	Renormalization of spin-rotation coupling. <i>Physical Review B</i> , 2013, 87, .	3.2	25
28	Multicomponent Bright Solitons in F=2 Spinor Bose-Einstein Condensates. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 074005.	1.6	23
29	Thermal stability of a magnetic domain wall in nanowires. <i>Physical Review B</i> , 2015, 91, .	3.2	21
30	Intrinsic and extrinsic tunability of Rashba spin-orbit coupled emergent inductors. <i>Physical Review B</i> , 2021, 103, .	3.2	20
31	Equation-of-motion approach of spin-motive force. <i>Journal of Applied Physics</i> , 2011, 109, 07C735.	2.5	19
32	Spin current generation due to mechanical rotation in the presence of impurity scattering. <i>Applied Physics Letters</i> , 2011, 98, 242501.	3.3	19
33	Theory of mechanical spin current generation via spin-rotation coupling. <i>Solid State Communications</i> , 2014, 198, 52-56.	1.9	19
34	Spinmotive force with static and uniform magnetization induced by a time-varying electric field. <i>Physical Review B</i> , 2013, 88, .	3.2	18
35	Rotational Doppler Effect and Barnett Field in Spinning NMR. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 043601.	1.6	17
36	Thermal engineering of non-local resistance in lateral spin valves. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	15

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37	Mechanical generation of spin current. <i>Frontiers in Physics</i> , 2015, 3, .	2.1	15
38	Electric voltage generation by antiferromagnetic dynamics. <i>Physical Review B</i> , 2016, 93, .	3.2	15
39	Exact soliton solutions of spinor Bose-Einstein condensates. <i>Laser Physics</i> , 2006, 16, 678-682.	1.2	14
40	Spin-Orbit-Induced Ising Ferromagnetism at a van der Waals Interface. <i>Nano Letters</i> , 2021, 21, 1807-1814.	9.1	14
41	Correlation of anomalous Hall effect with structural parameters and magnetic ordering in $Mn_{3-x}Sn_1+x$ thin films. <i>AIP Advances</i> , 2021, 11, .	1.3	14
42	Soliton Dynamics of F=1 Spinor Bose-Einstein Condensate with Nonvanishing Boundaries. <i>Journal of Low Temperature Physics</i> , 2007, 148, 399-404.	1.4	13
43	Spinmotive force due to motion of magnetic bubble arrays driven by magnetic field gradient. <i>Scientific Reports</i> , 2014, 4, 6901.	3.3	13
44	Line splitting by mechanical rotation in nuclear magnetic resonance. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 050302.	1.5	12
45	Observation of domain structure in non-collinear antiferromagnetic Mn_3Sn thin films by magneto-optical Kerr effect. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	12
46	Current-induced domain wall motion in magnetic nanowires with spatial variation. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1363-1367.	2.3	9
47	Spinmotive Force Due to Intrinsic Energy of Ferromagnetic Nanowires. <i>Applied Physics Express</i> , 2011, 4, 093003.	2.4	9
48	SPINMOTIVE FORCE IN MAGNETIC NANOSTRUCTURES. <i>Spin</i> , 2013, 03, 1330004.	1.3	9
49	Large Antisymmetric Interlayer Exchange Coupling Enabling Perpendicular Magnetization Switching by an In-Plane Magnetic Field. <i>Physical Review Applied</i> , 2022, 17, .	3.8	9
50	Ultralow-energy magnon anomaly in yttrium iron garnet. <i>Physical Review Research</i> , 2020, 2, .	3.6	8
51	Stability of spinmotive force in perpendicularly magnetized nanowires under high magnetic fields. <i>Applied Physics Letters</i> , 2012, 100, 162401.	3.3	7
52	Magnetic power inverter: AC voltage generation from DC magnetic fields. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	7
53	Skyrmion-generated spinmotive forces in inversion broken ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 491, 165550.	2.3	7
54	Spinmotive force in the out-of-plane direction generated by spin wave excitations in an exchange-coupled bilayer element. <i>Physical Review B</i> , 2019, 100, .	3.2	7

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55	Spin accumulation and resistance due to a domain wall. Journal of Magnetism and Magnetic Materials, 2007, 310, 2058-2060.	2.3	6
56	Nonlinear Dynamics of Spin Structure in Confined Bose-Einstein Condensates. Journal of Low Temperature Physics, 2007, 148, 405-410.	1.4	6
57	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
58	Theory of Emergent Inductance with Spin-Orbit Coupling Effects. Physical Review Letters, 2022, 128, 147201.	7.8	6
59	Observation of topological Hall torque exerted on a domain wall in the ferromagnetic oxide SrRuO ₃ . Science Advances, 2022, 8, eabl6192.	10.3	6
60	Magnetic Anisotropy by Rashba Spin-Orbit Coupling in Antiferromagnetic Thin Films. Journal of the Physical Society of Japan, 2018, 87, 053703.	1.6	5
61	Numerical analysis of spin accumulation due to a domain wall. Journal of Magnetism and Magnetic Materials, 2007, 310, 2055-2057.	2.3	4
62	Current-Induced Modulation of Coercive Field in the Ferromagnetic Oxide SrRuO ₃ . IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	4
63	Intrinsic Torques Emerging from Anomalous Velocity in Magnetic Textures. Physical Review Letters, 2021, 127, 277205.	7.8	4
64	Effects of mechanical rotation and vibration on spin currents. Journal of the Korean Physical Society, 2013, 62, 1404-1409.	0.7	3
65	Tolerance of spin-Seebeck thermoelectricity against irradiation by swift heavy ions. Journal of Applied Physics, 2020, 128, .	2.5	3
66	Local bifurcation with spin-transfer torque in superparamagnetic tunnel junctions. Nature Communications, 2022, 13, .	12.8	3
67	Spin pumping blocked by single-layer graphene. Applied Physics Express, 2015, 8, 073009.	2.4	2
68	Hard X-ray Photoelectron Spectroscopy Study of Pt/Y ₃ Fe ₅ O ₁₂ . , 2020, , .		2
69	Magnetic Bragg peak enhancement under ultrasound injection. Physical Review Research, 2022, 4, .	3.6	2
70	Bose-Einstein Condensation of Ideal Bose Gases. Journal of the Physical Society of Japan, 2001, 70, 1256-1259.	1.6	1
71	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
72	Horizontal rectal transection using an endolinear stapler for laparoscopic low anterior resection. Techniques in Coloproctology, 2017, 21, 311-313.	1.8	1

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73	Broken C_4 symmetry in the tetragonal state of uniaxial strained $BaCoO_4$. Physical Review Research, 2021, 3, .	3.6	1
74	The Damage Analysis for Irradiation Tolerant Spin-Driven Thermoelectric Device Based on Single-Crystalline $YFeO_3/Pt$ Heterostructures. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-6.	2.1	1
75	Spinmotive Force as a New Energy Conversion Mechanism. <i>Journal of the Magnetics Society of Japan</i> , 2014, 38, 75-77.	0.9	0
76	A Quantum Mechanical Theory of Pumping $\hbar\omega$ Magnetic Swings. <i>JPSJ News and Comments</i> , 2019, 16, 12.	0.1	0
77	CURRENT-INDUCED DOMAIN WALL CREEP IN MAGNETIC WIRES. , 2009, , .		0