

Olivier Klein

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

5,254

citations

35

h-index

72

g-index

93

ext. papers

5,814

ext. citations

5.7

avg, IF

5.01

L-index

#	Paper	IF	Citations
86	Alkali-Fulleride Superconductors: Synthesis, Composition, and Diamagnetic Shielding. <i>Science</i> , 1991 , 252, 1154-1157	33.3	680
85	Room-temperature chiral magnetic skyrmions in ultrathin magnetic nanostructures. <i>Nature Nanotechnology</i> , 2016 , 11, 449-54	28.7	617
84	Comparative measurements of inverse spin Hall effects and magnetoresistance in YIG/Pt and YIG/Ta. <i>Physical Review B</i> , 2013 , 87,	3.3	370
83	Microwave cavity perturbation technique: Part I: Principles. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1993 , 14, 2423-2457		197
82	Generation of coherent spin-wave modes in yttrium iron garnet microdiscs by spin-orbit torque. <i>Nature Communications</i> , 2016 , 7, 10377	17.4	173
81	Critical magnetic fields in the superconducting state of K3C60. <i>Physical Review Letters</i> , 1991 , 67, 271-274	7.4	168
80	Inverse spin Hall effect in nanometer-thick yttrium iron garnet/Pt system. <i>Applied Physics Letters</i> , 2013 , 103, 082408	3.4	163
79	Full control of the spin-wave damping in a magnetic insulator using spin-orbit torque. <i>Physical Review Letters</i> , 2014 , 113, 197203	7.4	124
78	A frequency-controlled magnetic vortex memory. <i>Applied Physics Letters</i> , 2010 , 96, 132506	3.4	120
77	Conduction of spin currents through insulating antiferromagnetic oxides. <i>Europhysics Letters</i> , 2014 , 108, 57005	1.6	118
76	Exchange Effects in an Artificial Atom at High Magnetic Fields. <i>Physical Review Letters</i> , 1995 , 74, 785-788	7.4	100
75	Electrodynamics of the organic superconductors κ -(BEDT-TTF) ₂ Cu(NCS) ₂ and κ -(BEDT-TTF) ₂ Cu. <i>Physical Review B</i> , 1994 , 50, 13603-13615	3.3	97
74	Bistability of vortex core dynamics in a single perpendicularly magnetized nanodisk. <i>Physical Review Letters</i> , 2009 , 102, 177602	7.4	96
73	Dynamics of two coupled vortices in a spin valve nanopillar excited by spin transfer torque. <i>Applied Physics Letters</i> , 2011 , 98, 062501	3.4	95
72	Microwave cavity perturbation technique: Part II: Experimental scheme. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1993 , 14, 2459-2487		94
71	Ultra-Fast Perpendicular Spin-Orbit Torque MRAM. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	90
70	Individual domain wall resistance in submicron ferromagnetic structures. <i>Physical Review Letters</i> , 2002 , 88, 157201	7.4	81

69	Microwave cavity perturbation technique: Part III: Applications. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1993 , 14, 2489-2517		81
68	Optical properties of the alkali-metal-doped superconducting fullerenes: K3C60 and Rb3C60. <i>Physical Review B</i> , 1994 , 49, 7012-7025	3.3	79
67	Magnetization oscillations and waves driven by pure spin currents. <i>Physics Reports</i> , 2017 , 673, 1-31	27.7	78
66	Efficient Synchronization of Dipolarly Coupled Vortex-Based Spin Transfer Nano-Oscillators. <i>Scientific Reports</i> , 2015 , 5, 17039	4.9	76
65	Ferromagnetic resonance force spectroscopy of individual submicron-size samples. <i>Physical Review B</i> , 2008 , 78,	3.3	76
64	Conductivity coherence factors in the conventional superconductors Nb and Pb. <i>Physical Review B</i> , 1994 , 50, 6307-6316	3.3	71
63	Anisotropy of domain wall resistance. <i>Physical Review Letters</i> , 2000 , 85, 3962-5	7.4	67
62	Detection of microwave spin pumping using the inverse spin Hall effect. <i>Physical Review Letters</i> , 2013 , 111, 217204	7.4	66
61	Identification and selection rules of the spin-wave eigenmodes in a normally magnetized nanopillar. <i>Physical Review B</i> , 2011 , 84,	3.3	66
60	High-efficiency control of spin-wave propagation in ultra-thin yttrium iron garnet by the spin-orbit torque. <i>Applied Physics Letters</i> , 2016 , 108, 172406	3.4	63
59	Measurement of the intrinsic damping constant in individual nanodisks of Y3Fe5O12 and Y3Fe5O12 Pt. <i>Applied Physics Letters</i> , 2014 , 104, 152410	3.4	56
58	Optimal control of vortex-core polarity by resonant microwave pulses. <i>Nature Physics</i> , 2011 , 7, 26-31	16.2	54
57	Crossover from single-level to multilevel transport in artificial atoms. <i>Physical Review B</i> , 1994 , 50, 14193-14199	3.4	49
56	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. <i>Nature Nanotechnology</i> , 2016 , 11, 360-4	28.7	48
55	Electrodynamics of the superconducting state of kappa (BEDT-TTF)2Cu(NCS)2. <i>Physical Review Letters</i> , 1991 , 66, 655-658	7.4	44
54	Coherent long-range transfer of angular momentum between magnon Kittel modes by phonons. <i>Physical Review B</i> , 2020 , 101,	3.3	40
53	Magnetic resonance studies of the fundamental spin-wave modes in individual submicron Cu/NiFe/Cu perpendicularly magnetized disks. <i>Physical Review Letters</i> , 2007 , 98, 127601	7.4	38
52	Non-Korringa 13 C Nuclear Relaxation in the Normal State of the K 3 C 60 Superconductor. <i>Europhysics Letters</i> , 1993 , 23, 63-69	1.6	35

51	Measurement of the dynamical dipolar coupling in a pair of magnetic nanodisks using a ferromagnetic resonance force microscope. <i>Physical Review Letters</i> , 2012 , 109, 247602	7.4	32
50	Perfect and robust phase-locking of a spin transfer vortex nano-oscillator to an external microwave source. <i>Applied Physics Letters</i> , 2014 , 104, 022408	3.4	30
49	Origin of spectral purity and tuning sensitivity in a spin transfer vortex nano-oscillator. <i>Physical Review Letters</i> , 2014 , 112, 257201	7.4	30
48	Perpendicular ferromagnetic resonance in soft cylindrical elements: Vortex and saturated states. <i>Physical Review B</i> , 2012 , 85,	3.3	30
47	Observation of the conductivity coherence peak in superconducting Pb. <i>Solid State Communications</i> , 1991 , 78, 875-877	1.6	30
46	Electrical resistivity of K3C60. <i>Physical Review B</i> , 1992 , 46, 11247-11249	3.3	30
45	Magnetic-field dependence of the level spacing of a small electron droplet. <i>Physical Review B</i> , 1996 , 53, R4221-R4224	3.3	29
44	Reduction of the spin-wave damping induced by nonlinear effects. <i>Physical Review B</i> , 2005 , 71,	3.3	28
43	Emission of Coherent Propagating Magnons by Insulator-Based Spin-Orbit-Torque Oscillators. <i>Physical Review Applied</i> , 2018 , 10,	4.3	27
42	Direct observation of dynamic modes excited in a magnetic insulator by pure spin current. <i>Scientific Reports</i> , 2016 , 6, 32781	4.9	26
41	Measurement of the ferromagnetic relaxation in a micron-size sample. <i>Physical Review B</i> , 2003 , 67,	3.3	25
40	Probing the anharmonicity of the potential well for a magnetic vortex core in a nanodot. <i>Physical Review Letters</i> , 2013 , 111, 247601	7.4	24
39	Spin insulatronics. <i>Physics Reports</i> , 2020 , 885, 1-27	27.7	24
38	Nonlinear spin conductance of yttrium iron garnet thin films driven by large spin-orbit torque. <i>Physical Review B</i> , 2018 , 97,	3.3	23
37	Controlling the chirality and polarity of vortices in magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2014 , 105, 172403	3.4	23
36	39K NMR study of phase transitions and electronic properties in K3C60. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 2509-2510	1.3	22
35	Mechanical magnetometry of Cobalt nanospheres deposited by focused electron beam at the tip of ultra-soft cantilevers. <i>Nanofabrication</i> , 2014 , 1,	4	21
34	Influence of the magnetic tip in ferromagnetic resonance force microscopy. <i>Applied Physics Letters</i> , 2002 , 80, 4795-4797	3.4	21

33	Electrical properties of epitaxial yttrium iron garnet ultrathin films at high temperatures. <i>Physical Review B</i> , 2018 , 97,	3-3	20
32	Complete mapping of the spin-wave spectrum in a vortex-state nanodisk. <i>Physical Review B</i> , 2016 , 93,	3-3	18
31	Optimizing magnetodipolar interactions for synchronizing vortex based spin-torque nano-oscillators. <i>Physical Review B</i> , 2015 , 92,	3-3	16
30	Autonomous and forced dynamics in a spin-transfer nano-oscillator: Quantitative magnetic-resonance force microscopy. <i>Physical Review B</i> , 2012 , 85,	3-3	16
29	Nonlinear Ferromagnetic Resonance in Nanostructures Having Discrete Spectrum of Spin-Wave Modes. <i>IEEE Magnetism Letters</i> , 2013 , 4, 4000504-4000504	1.6	16
28	Quantitative measurement of the ferromagnetic resonance signal by force detection. <i>Applied Physics Letters</i> , 2003 , 83, 3132-3134	3-4	16
27	Mechanical detection of ferromagnetic resonance spectrum in a normally magnetized yttrium iron garnet disk. <i>Journal of Applied Physics</i> , 2002 , 91, 7337	2-5	16
26	Klein, Holczer, and Gruber reply. <i>Physical Review Letters</i> , 1992 , 68, 2407	7-4	15
25	Magnetization process in FePd thin films. <i>Journal of Applied Physics</i> , 2001 , 89, 6781-6783	2-5	14
24	Mechanical detection of nuclear spin relaxation in a micron-size crystal. <i>European Physical Journal B</i> , 2000 , 17, 57-68	1-2	14
23	Ferromagnetic resonance spectroscopy of parametric magnons excited by a four-wave process. <i>Physical Review B</i> , 2007 , 75,	3-3	12
22	Comment on "Evidence for rapid suppression of quasiparticle scattering below T_c in YBa ₂ Cu ₃ O ₇ ". <i>Physical Review Letters</i> , 1994 , 72, 1390	7-4	11
21	Temperature dependence and anisotropy of the penetration depth in κ (BEDT-TTF) ₂ Cu(NCS) ₂ . <i>Solid State Communications</i> , 1990 , 76, 499-501	1-6	11
20	Nutation Spectroscopy of a Nanomagnet Driven into Deeply Nonlinear Ferromagnetic Resonance. <i>Physical Review X</i> , 2019 , 9,	9-1	11
19	Temperature Dependence of Magnetic Properties of a Ultrathin Yttrium-Iron Garnet Film Grown by Liquid Phase Epitaxy: Effect of a Pt Overlayer. <i>IEEE Magnetism Letters</i> , 2018 , 9, 1-5	1-6	10
18	Improved Spectral Stability in Spin-Transfer Nano-Oscillators: Single Vortex Versus Coupled Vortices Dynamics. <i>IEEE Transactions on Magnetism</i> , 2015 , 51, 1-6	2	9
17	High frequency resonant techniques for studying the complex electrodynamic response in solids. <i>Ferroelectrics</i> , 1996 , 176, 285-308	0-6	9
16	Conductivity coherence peak in YBa ₂ Cu ₃ O ₇ . <i>Journal De Physique, I</i> , 1992 , 2, 517-522		9

15	Probing Phase Coupling Between Two Spin-Torque Nano-Oscillators with an External Source. <i>Physical Review Letters</i> , 2017 , 118, 247202	7.4	8
14	Frequency Filtering with a Magnonic Crystal Based on Nanometer-Thick Yttrium Iron Garnet Films. <i>ACS Applied Nano Materials</i> , 2021 , 4, 121-128	5.6	8
13	Sub-micrometer near-field focusing of spin waves in ultrathin YIG films. <i>Applied Physics Letters</i> , 2020 , 116, 062401	3.4	7
12	Magnetic resonance spectroscopy of perpendicularly magnetized Permalloy multilayer disks. <i>Journal of Applied Physics</i> , 2007 , 101, 09F514	2.5	4
11	New aspects in the interpretation of the T ₂ and T ₁ NMR lines in Rb3C60. <i>Physica B: Condensed Matter</i> , 1999 , 271, 7-14	2.8	4
10	Exchange Effects in Artificial Atoms. <i>Japanese Journal of Applied Physics</i> , 1995 , 34, 4369-4372	1.4	4
9	Relaxation measurements by magnetic resonance force microscopy. <i>Comptes Rendus Physique</i> , 2004 , 5, 325-335	1.4	3
8	The electrodynamics of organic superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 1993 , 54, 1411-1426	3.9	3
7	Enhancement of YIG Pt spin conductance by local Joule annealing. <i>Applied Physics Letters</i> , 2021 , 118, 032404	3.4	3
6	Selective control of vortex polarities by microwave field in two robustly synchronized spin-torque nano-oscillators. <i>Applied Physics Letters</i> , 2018 , 112, 022405	3.4	2
5	Direct measurement of the spin-lattice relaxation in a ferromagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E1027-E1028	2.8	2
4	Phase Transitions in Artificial Atoms 1996 , 239-249		2
3	Spin-Wave Eigen-modes in a Normally Magnetized Nano-pillar. <i>Topics in Applied Physics</i> , 2013 , 3-15	0.5	1
2	Nonlocal properties of a multidomain magnetic configuration. <i>Physical Review B</i> , 2009 , 80,	3.3	1
1	Surface impedance studies on the electro-dynamical response of organic superconductors. <i>Synthetic Metals</i> , 1995 , 70, 895-898	3.6	1