Olivier Klein

List of Publications by Year in Descending Order

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	Enhancement of YIG |Pt spin conductance by local Joule annealing. *Applied Physics Letters*, **2021**, 118, 032404	3.4	3
85	Frequency Filtering with a Magnonic Crystal Based on Nanometer-Thick Yttrium Iron Garnet Films. *ACS Applied Nano Materials*, **2021**, 4, 121-128	5.6	8
84	Coherent long-range transfer of angular momentum between magnon Kittel modes by phonons. *Physical Review B*, **2020**, 101,	3.3	40
83	Sub-micrometer near-field focusing of spin waves in ultrathin YIG films. *Applied Physics Letters*, **2020**, 116, 062401	3.4	7
82	Spin insulatronics. *Physics Reports*, **2020**, 885, 1-27	27.7	24
81	Nutation Spectroscopy of a Nanomagnet Driven into Deeply Nonlinear Ferromagnetic Resonance. *Physical Review X*, **2019**, 9,	9.1	11
80	Nonlinear spin conductance of yttrium iron garnet thin films driven by large spin-orbit torque. *Physical Review B*, **2018**, 97,	3.3	23
79	Electrical properties of epitaxial yttrium iron garnet ultrathin films at high temperatures. *Physical Review B*, **2018**, 97,	3.3	20
78	Ultra-Fast Perpendicular Spin□Orbit Torque MRAM. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	90
77	Selective control of vortex polarities by microwave field in two robustly synchronized spin-torque nano-oscillators. *Applied Physics Letters*, **2018**, 112, 022405	3.4	2
76	Emission of Coherent Propagating Magnons by Insulator-Based Spin-Orbit-Torque Oscillators. *Physical Review Applied*, **2018**, 10,	4.3	27
75	Temperature Dependence of Magnetic Properties of a Ultrathin Yttrium-Iron Garnet Film Grown by Liquid Phase Epitaxy: Effect of a Pt Overlayer. *IEEE Magnetics Letters*, **2018**, 9, 1-5	1.6	10
74	Magnetization oscillations and waves driven by pure spin currents. *Physics Reports*, **2017**, 673, 1-31	27.7	78
73	Probing Phase Coupling Between Two Spin-Torque Nano-Oscillators with an External Source. *Physical Review Letters*, **2017**, 118, 247202	7.4	8
72	Complete mapping of the spin-wave spectrum in a vortex-state nanodisk. *Physical Review B*, **2016**, 93,	3.3	18
71	Room-temperature chiral magnetic skyrmions in ultrathin magnetic nanostructures. *Nature Nanotechnology*, **2016**, 11, 449-54	28.7	617
70	Generation of coherent spin-wave modes in yttrium iron garnet microdiscs by spin-orbit torque. *Nature Communications*, **2016**, 7, 10377	17.4	173

69	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. *Nature Nanotechnology*, **2016**, 11, 360-4	28.7	48
68	Direct observation of dynamic modes excited in a magnetic insulator by pure spin current. *Scientific Reports*, **2016**, 6, 32781	4.9	26
67	High-efficiency control of spin-wave propagation in ultra-thin yttrium iron garnet by the spin-orbit torque. *Applied Physics Letters*, **2016**, 108, 172406	3.4	63
66	Optimizing magnetodipolar interactions for synchronizing vortex based spin-torque nano-oscillators. *Physical Review B*, **2015**, 92,	3.3	16
65	Efficient Synchronization of Dipolarly Coupled Vortex-Based Spin Transfer Nano-Oscillators. *Scientific Reports*, **2015**, 5, 17039	4.9	76
64	Improved Spectral Stability in Spin-Transfer Nano-Oscillators: Single Vortex Versus Coupled Vortices Dynamics. *IEEE Transactions on Magnetics*, **2015**, 51, 1-6	2	9
63	Measurement of the intrinsic damping constant in individual nanodisks of Y3Fe5O12 and Y3Fe5O12|Pt. *Applied Physics Letters*, **2014**, 104, 152410	3.4	56
62	Perfect and robust phase-locking of a spin transfer vortex nano-oscillator to an external microwave source. *Applied Physics Letters*, **2014**, 104, 022408	3.4	30
61	Full control of the spin-wave damping in a magnetic insulator using spin-orbit torque. *Physical Review Letters*, **2014**, 113, 197203	7.4	124
60	Origin of spectral purity and tuning sensitivity in a spin transfer vortex nano-oscillator. *Physical Review Letters*, **2014**, 112, 257201	7.4	30
59	Mechanical magnetometry of Cobalt nanospheres deposited by focused electron beam at the tip of ultra-soft cantilevers. *Nanofabrication*, **2014**, 1,	4	21
58	Controlling the chirality and polarity of vortices in magnetic tunnel junctions. *Applied Physics Letters* , **2014**, 105, 172403	3.4	23
57	Conduction of spin currents through insulating antiferromagnetic oxides. *Europhysics Letters*, **2014**, 108, 57005	1.6	118
56	Inverse spin Hall effect in nanometer-thick yttrium iron garnet/Pt system. *Applied Physics Letters*, **2013**, 103, 082408	3.4	163
55	Detection of microwave spin pumping using the inverse spin Hall effect. *Physical Review Letters*, **2013**, 111, 217204	7.4	66
54	Probing the anharmonicity of the potential well for a magnetic vortex core in a nanodot. *Physical Review Letters*, **2013**, 111, 247601	7.4	24
53	Spin-Wave Eigen-modes in a Normally Magnetized Nano-pillar. *Topics in Applied Physics*, **2013**, 3-15	0.5	1
52	Comparative measurements of inverse spin Hall effects and magnetoresistance in YIG/Pt and YIG/Ta. *Physical Review B*, **2013**, 87,	3.3	370

51	Nonlinear Ferromagnetic Resonance in Nanostructures Having Discrete Spectrum of Spin-Wave Modes. *IEEE Magnetics Letters*, **2013**, 4, 4000504-4000504	1.6	16
50	Measurement of the dynamical dipolar coupling in a pair of magnetic nanodisks using a ferromagnetic resonance force microscope. *Physical Review Letters*, **2012**, 109, 247602	7.4	32
49	Autonomous and forced dynamics in a spin-transfer nano-oscillator: Quantitative magnetic-resonance force microscopy. *Physical Review B*, **2012**, 85,	3.3	16
48	Perpendicular ferromagnetic resonance in soft cylindrical elements: Vortex and saturated states. *Physical Review B*, **2012**, 85,	3.3	30
47	Dynamics of two coupled vortices in a spin valve nanopillar excited by spin transfer torque. *Applied Physics Letters*, **2011**, 98, 062501	3.4	95
46	Optimal control of vortex-core polarity by resonant microwave pulses. *Nature Physics*, **2011**, 7, 26-31	16.2	54
45	Identification and selection rules of the spin-wave eigenmodes in a normally magnetized nanopillar. *Physical Review B*, **2011**, 84,	3.3	66
44	A frequency-controlled magnetic vortex memory. *Applied Physics Letters*, **2010**, 96, 132506	3.4	120
43	Bistability of vortex core dynamics in a single perpendicularly magnetized nanodisk. *Physical Review Letters*, **2009**, 102, 177602	7.4	96
42	Nonlocal properties of a multidomain magnetic configuration. *Physical Review B*, **2009**, 80,	3.3	1
41	Ferromagnetic resonance force spectroscopy of individual submicron-size samples. *Physical Review B*, **2008**, 78,	3.3	76
40	Ferromagnetic resonance spectroscopy of parametric magnons excited by a four-wave process. *Physical Review B*, **2007**, 75,	3.3	12
39	Magnetic resonance studies of the fundamental spin-wave modes in individual submicron Cu/NiFe/Cu perpendicularly magnetized disks. *Physical Review Letters*, **2007**, 98, 127601	7.4	38
38	Magnetic resonance spectroscopy of perpendicularly magnetized Permalloy multilayer disks. *Journal of Applied Physics*, **2007**, 101, 09F514	2.5	4
37	Reduction of the spin-wave damping induced by nonlinear effects. *Physical Review B*, **2005**, 71,	3.3	28
36	Direct measurement of the spin□attice relaxation in a ferromagnet. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, E1027-E1028	2.8	2
35	Relaxation measurements by magnetic resonance force microscopy. *Comptes Rendus Physique*, **2004**, 5, 325-335	1.4	3
34	Measurement of the ferromagnetic relaxation in a micron-size sample. *Physical Review B*, **2003**, 67,	3.3	25

33	Quantitative measurement of the ferromagnetic resonance signal by force detection. *Applied Physics Letters*, **2003**, 83, 3132-3134	3.4	16
32	Mechanical detection of ferromagnetic resonance spectrum in a normally magnetized yttrium iron garnet disk. *Journal of Applied Physics*, **2002**, 91, 7337	2.5	16
31	Influence of the magnetic tip in ferromagnetic resonance force microscopy. *Applied Physics Letters*, **2002**, 80, 4795-4797	3.4	21
30	Individual domain wall resistance in submicron ferromagnetic structures. *Physical Review Letters*, **2002**, 88, 157201	7.4	81
29	Magnetization process in FePd thin films. *Journal of Applied Physics*, **2001**, 89, 6781-6783	2.5	14
28	Anisotropy of domain wall resistance. *Physical Review Letters*, **2000**, 85, 3962-5	7.4	67
27	Mechanical detection of nuclear spin relaxation in a micron-size crystal. *European Physical Journal B*, **2000**, 17, 57-68	1.2	14
26	New aspects in the interpretation of the T? and T NMR lines in Rb3C60. *Physica B: Condensed Matter* , **1999**, 271, 7-14	2.8	4
25	High frequency resonant techniques for studying the complex electrodynamic response in solids. *Ferroelectrics*, **1996**, 176, 285-308	0.6	9
24	Magnetic-field dependence of the level spacing of a small electron droplet. *Physical Review B*, **1996**, 53, R4221-R4224	3.3	29
23	Phase Transitions in Artificial Atoms **1996**, 239-249		2
22	Exchange Effects in an Artificial Atom at High Magnetic Fields. *Physical Review Letters*, **1995**, 74, 785-788	7.4	100
21	Exchange Effects in Artificial Atoms. *Japanese Journal of Applied Physics*, **1995**, 34, 4369-4372	1.4	4
20	Surface impedance studies on the electrodynamical response of organic superconductors. *Synthetic Metals*, **1995**, 70, 895-898	3.6	1
19	Comment on "Evidence for rapid suppression of quasiparticle scattering below Tcin YBa2Cu3O7". *Physical Review Letters*, **1994**, 72, 1390	7.4	11
18	Crossover from single-level to multilevel transport in artificial atoms. *Physical Review B*, **1994**, 50, 14193-14199	3.3	49
17	Conductivity coherence factors in the conventional superconductors Nb and Pb. *Physical Review B*, **1994**, 50, 6307-6316	3.3	71
16	Electrodynamics of the organic superconductorsinebreak kappa -(BEDT-TTF)2Cu(NCS)2 and kappa -(BEDT-TTF)2Cu. *Physical Review B*, **1994**, 50, 13603-13615	3.3	97

15	39K NMR study of phase transitions and electronic properties in K3C60. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 2509-2510	1.3	22
14	Optical properties of the alkali-metal-doped superconducting fullerenes: K3C60 and Rb3C60. *Physical Review B*, **1994**, 49, 7012-7025	3.3	79
13	Non-Korringa 13 C Nuclear Relaxation in the Normal State of the K 3 C 60 Superconductor. *Europhysics Letters*, **1993**, 23, 63-69	1.6	35
12	Microwave cavity perturbation technique: Part I: Principles. *Journal of Infrared, Millimeter and Terahertz Waves*, **1993**, 14, 2423-2457		197
11	Microwave cavity perturbation technique: Part II: Experimental scheme. *Journal of Infrared, Millimeter and Terahertz Waves*, **1993**, 14, 2459-2487		94
10	Microwave cavity perturbation technique: Part III: Applications. *Journal of Infrared, Millimeter and Terahertz Waves*, **1993**, 14, 2489-2517		81
9	The electrodynamics of organic superconductors. *Journal of Physics and Chemistry of Solids*, **1993**, 54, 1411-1426	3.9	3
8	Klein, Holczer, and Gr□er reply. *Physical Review Letters*, **1992**, 68, 2407	7.4	15
7	Electrical resistivity of K3C60. *Physical Review B*, **1992**, 46, 11247-11249	3.3	30
6	Conductivity coherence peak in YBa2Cu3O7. *Journal De Physique, I*, **1992**, 2, 517-522		9
5	Observation of the conductivity coherence peak in superconducting Pb. *Solid State Communications* , **1991**, 78, 875-877	1.6	30
4	Electrodynamics of the superconducting state of kappa (BEDT-TTF)2Cu(NCS)2. *Physical Review Letters*, **1991**, 66, 655-658	7.4	44
3	Critical magnetic fields in the superconducting state of K3C60. *Physical Review Letters*, **1991**, 67, 271-274	7.4	168
2	Alkali-Fulleride Superconductors: Synthesis, Composition, and Diamagnetic Shielding. *Science*, **1991**, 252, 1154-1157	33.3	680
1	Temperature dependence and anisotropy of the penetration depth in □(BEDT-TTF) 2 Cu(NCS) 2. *Solid State Communications*, **1990**, 76, 499-501	1.6	11