Timo Kuschel

List of Publications by Year in Descending Order

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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.

62 1,712 40 21 h-index g-index citations papers 66 1,989 4.2 4.52 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
62	Role of NiO in the nonlocal spin transport through thin NiO films on Y3Fe5O12. <i>Physical Review B</i> , 2021 , 103,	3.3	2
61	Magnetic order of Dy3+ and Fe3+ moments in antiferromagnetic DyFeO3 probed by spin Hall magnetoresistance and spin Seebeck effect. <i>Physical Review B</i> , 2021 , 103,	3.3	6
60	Quantitative comparison of the magnetic proximity effect in Pt detected by XRMR and XMCD. <i>Applied Physics Letters</i> , 2021 , 118, 012407	3.4	4
59	Scaling of quadratic and linear magneto-optic Kerr effect spectra with L21 ordering of Co2MnSi Heusler compound. <i>Applied Physics Letters</i> , 2020 , 116, 262401	3.4	1
58	Enhancement in Thermally Generated Spin Voltage at the Interfaces between Pd and NiFe2O4 Films Grown on Lattice-Matched Substrates. <i>Physical Review Applied</i> , 2020 , 14,	4.3	6
57	Impact of the magnetic proximity effect in Pt on the total magnetic moment of Pt/Co/Ta trilayers studied by x-ray resonant magnetic reflectivity. <i>AIP Advances</i> , 2020 , 10, 015154	1.5	10
56	Thermal Conductivity of Oxide Tunnel Barriers in Magnetic Tunnel Junctions Measured by Ultrafast Thermoreflectance and Magneto-Optic Kerr Effect Thermometry. <i>Physical Review Applied</i> , 2020 , 13,	4.3	5
55	Static magnetic proximity effects and spin Hall magnetoresistance in Pt/Y3Fe5O12 and inverted Y3Fe5O12/Pt bilayers. <i>Physical Review B</i> , 2020 , 102,	3.3	5
54	Cation- and lattice-site-selective magnetic depth profiles of ultrathin Fe3O4(001) films. <i>Physical Review B</i> , 2020 , 102,	3.3	4
53	Advanced data analysis procedure for hard x-ray resonant magnetic reflectivity discussed for Pt thin film samples of various complexity. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 375004	3	6
52	Asymmetric modification of the magnetic proximity effect in Pt/Co/Pt trilayers by the insertion of a Ta buffer layer. <i>Physical Review B</i> , 2020 , 102,	3.3	6
51	Vectorial observation of the spin Seebeck effect in epitaxial NiFe2O4 thin films with various magnetic anisotropy contributions. <i>Applied Physics Letters</i> , 2019 , 114, 232404	3.4	8
50	Quadratic magneto-optic Kerr effect spectroscopy of Fe epitaxial films on MgO(001) substrates. <i>Physical Review B</i> , 2019 , 100,	3.3	6
49	Tunnel magneto-Seebeck effect. Journal Physics D: Applied Physics, 2019, 52, 133001	3	14
48	. IEEE Transactions on Instrumentation and Measurement, 2019 , 68, 1765-1773	5.2	14
47	Nonlocal magnon spin transport in yttrium iron garnet with tantalum and platinum spin injection/detection electrodes. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 224005	3	8
46	Preferential weakening of rotational magnetic anisotropy by keV-He ion bombardment in polycrystalline exchange bias layer systems. <i>New Journal of Physics</i> , 2018 , 20, 053018	2.9	7

(2016-2018)

45	junctions. <i>Communications Physics</i> , 2018 , 1,	5.4	7
44	Impact of Strain and Morphology on Magnetic Properties of FeDINIO Bilayers Grown on Nb:SrTiO[D01) and MgO(001). <i>Materials</i> , 2018 , 11,	3.5	2
43	Enhanced magnon spin transport in NiFe2O4 thin films on a lattice-matched substrate. <i>Applied Physics Letters</i> , 2018 , 113, 162403	3.4	22
42	Quadratic magnetooptic spectroscopy setup based on photoelastic light modulation. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2018 , 31, 60-65	2.6	2
41	Thermal conductivity of thin insulating films determined by tunnel magneto-Seebeck effect measurements and finite-element modeling. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 224006	3	10
40	Picosecond Spin Seebeck Effect. <i>Physical Review Letters</i> , 2017 , 118, 057201	7.4	53
39	Longitudinal spin Seebeck coefficient: heat flux vs. temperature difference method. <i>Scientific Reports</i> , 2017 , 7, 46752	4.9	58
38	Nonlocal magnon spin transport in NiFe2O4 thin films. <i>Applied Physics Letters</i> , 2017 , 110, 132406	3.4	34
37	Nonlocal magnon-polaron transport in yttrium iron garnet. <i>Physical Review B</i> , 2017 , 96,	3.3	50
36	Co-sputtered PtMnSb thin films and PtMnSb/Pt bilayers for spinBrbit torque investigations. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1600439	2.5	2
35	Quantitative separation of the anisotropic magnetothermopower and planar Nernst effect by the rotation of an in-plane thermal gradient. <i>Scientific Reports</i> , 2017 , 7, 40586	4.9	17
34	Negative spin Hall magnetoresistance of Pt on the bulk easy-plane antiferromagnet NiO. <i>Applied Physics Letters</i> , 2017 , 111, 052409	3.4	91
33	Electrical transport and optical band gap of NiFe2Ox thin films. <i>Journal of Applied Physics</i> , 2017 , 122, 225101	2.5	16
32	Quantitative Disentanglement of the Spin Seebeck, Proximity-Induced, and Ferromagnetic-Induced Anomalous Nernst Effect in Normal-Metal-Ferromagnet Bilayers. <i>Physical Review Letters</i> , 2017 , 119, 22	72 0 5	32
31	Large magneto-Seebeck effect in magnetic tunnel junctions with half-metallic Heusler electrodes. <i>Nature Communications</i> , 2017 , 8, 1626	17.4	31
30	Magnon planar Hall effect and anisotropic magnetoresistance in a magnetic insulator. <i>Physical Review B</i> , 2017 , 95,	3.3	15
29	Enhancement of thermovoltage and tunnel magneto-Seebeck effect in CoFeB-based magnetic tunnel junctions by variation of the MgAl2O4 and MgO barrier thickness. <i>Physical Review B</i> , 2017 , 96,	3.3	14
28	Influence of yttrium iron garnet thickness and heater opacity on the nonlocal transport of electrically and thermally excited magnons. <i>Physical Review B</i> , 2016 , 94,	3.3	49

27	From Fe3O4/NiO bilayers to NiFe2O4-like thin films through Ni interdiffusion. <i>Physical Review B</i> , 2016 , 94,	3.3	14
26	Static magnetic proximity effect in Pt/Ni1\(\mathbb{I}\)Fex bilayers investigated by x-ray resonant magnetic reflectivity. <i>Physical Review B</i> , 2016 , 93,	3.3	32
25	Comparison of laser-induced and intrinsic tunnel magneto-Seebeck effect in CoFeB/MgAl2O4 and CoFeB/MgO magnetic tunnel junctions. <i>Physical Review B</i> , 2016 , 93,	3.3	22
24	Time-dependent rotatable magnetic anisotropy in polycrystalline exchange-bias systems: Dependence on grain-size distribution. <i>Physical Review B</i> , 2016 , 94,	3.3	12
23	Static Magnetic Proximity Effect in Pt Layers on Sputter-Deposited NiFe2O4 and on Fe of Various Thicknesses Investigated by XRMR. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	15
22	Structural, magnetic and Magneto optical properties of Fe3O4/NiO bilayers on MgO(001) 2016 ,		1
21	Detection of DC currents and resistance measurements in longitudinal spin Seebeck effect experiments on Pt/YIG and Pt/NFO. <i>AIP Advances</i> , 2016 , 6, 056302	1.5	5
20	Enhanced Magneto-optic Kerr Effect and Magnetic Properties of CeY2Fe5O12 Epitaxial Thin Films. <i>Physical Review Applied</i> , 2015 , 4,	4.3	61
19	Longitudinal spin Seebeck effect contribution in transverse spin Seebeck effect experiments in Pt/YIG and Pt/NFO. <i>Nature Communications</i> , 2015 , 6, 8211	17.4	71
18	Spin orbitronics: Charges ride the spin wave. <i>Nature Nanotechnology</i> , 2015 , 10, 22-4	28.7	43
17	Dependence of transverse magnetothermoelectric effects on inhomogeneous magnetic fields. <i>Physical Review B</i> , 2015 , 92,	3.3	11
17 16		3·3 2·5	13
	Physical Review B, 2015, 92, Modifying magnetic properties of ultra-thin magnetite films by growth on Fe pre-covered		
16	Physical Review B, 2015, 92, Modifying magnetic properties of ultra-thin magnetite films by growth on Fe pre-covered MgO(001). Journal of Applied Physics, 2015, 118, 113904 Sign change in the tunnel magnetoresistance of Fe3O4/MgO/Co-Fe-B magnetic tunnel junctions	2.5	13
16 15	Physical Review B, 2015, 92, Modifying magnetic properties of ultra-thin magnetite films by growth on Fe pre-covered MgO(001). Journal of Applied Physics, 2015, 118, 113904 Sign change in the tunnel magnetoresistance of Fe3O4/MgO/Co-Fe-B magnetic tunnel junctions depending on the annealing temperature and the interface treatment. AIP Advances, 2015, 5, 047103 Static Magnetic Proximity Effect in Pt/NiFe2O4 and Pt/Fe Bilayers Investigated by X-Ray Resonant	2.5	13
16 15	Physical Review B, 2015, 92, Modifying magnetic properties of ultra-thin magnetite films by growth on Fe pre-covered MgO(001). Journal of Applied Physics, 2015, 118, 113904 Sign change in the tunnel magnetoresistance of Fe3O4/MgO/Co-Fe-B magnetic tunnel junctions depending on the annealing temperature and the interface treatment. AIP Advances, 2015, 5, 047103 Static Magnetic Proximity Effect in Pt/NiFe2O4 and Pt/Fe Bilayers Investigated by X-Ray Resonant Magnetic Reflectivity. Physical Review Letters, 2015, 115, 097401 Magnetic anisotropy related to strain and thickness of ultrathin iron oxide films on MgO(001).	2.5 1.5 7.4	13 14 54
16 15 14	Modifying magnetic properties of ultra-thin magnetite films by growth on Fe pre-covered MgO(001). Journal of Applied Physics, 2015, 118, 113904 Sign change in the tunnel magnetoresistance of Fe3O4/MgO/Co-Fe-B magnetic tunnel junctions depending on the annealing temperature and the interface treatment. AIP Advances, 2015, 5, 047103 Static Magnetic Proximity Effect in Pt/NiFe2O4 and Pt/Fe Bilayers Investigated by X-Ray Resonant Magnetic Reflectivity. Physical Review Letters, 2015, 115, 097401 Magnetic anisotropy related to strain and thickness of ultrathin iron oxide films on MgO(001). Materials Research Express, 2015, 2, 016101	2.5 1.5 7.4	13 14 54 11

LIST OF PUBLICATIONS

9	Physical characteristics and cation distribution of NiFe2O4 thin films with high resistivity prepared by reactive co-sputtering. <i>Journal of Applied Physics</i> , 2014 , 115, 123903	2.5	47	
8	Transverse spin Seebeck effect versus anomalous and planar Nernst effects in Permalloy thin films. <i>Physical Review Letters</i> , 2013 , 111, 187201	7.4	109	
7	Influence of heat flow directions on Nernst effects in Py/Pt bilayers. <i>Physical Review B</i> , 2013 , 88,	3.3	48	
6	Thermally driven spin and charge currents in thin NiFe2O4/Pt films. <i>Physical Review B</i> , 2013 , 87,	3.3	99	
5	Quantitative study of the spin Hall magnetoresistance in ferromagnetic insulator/normal metal hybrids. <i>Physical Review B</i> , 2013 , 87,	3.3	346	
4	Magnetic characterization of thin Co50Fe50films by magnetooptic Kerr effect. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 495002	3	10	
3	Magnetization reversal analysis of a thin B2-type ordered Co50Fe50film by magnetooptic Kerr effect. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 205001	3	4	
2	Uniaxial magnetic anisotropy for thin Co films on glass studied by magnetooptic Kerr effect. <i>Journal of Applied Physics</i> , 2011 , 109, 093907	2.5	11	
1	Vectorial magnetometry using magnetooptic Kerr effect including first- and second-order contributions for thin ferromagnetic films. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 265003	3	25	