

# Stephan GeprÄgs

## List of Publications by Year in descending order

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64  
papers

4,122  
citations

147566

31  
h-index

110170

64  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3860  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of low-energy magnons on magnon Hanle experiments in easy-plane antiferromagnets. Physical Review B, 2022, 105, .	1.1	6
2	Quantifying the spin mixing conductance of EuO/W heterostructures by spin Hall magnetoresistance experiments. Applied Physics Letters, 2021, 118, .	1.5	13
3	Growth of aluminum nitride on a silicon nitride substrate for hybrid photonic circuits. Materials for Quantum Technology, 2021, 1, 021002.	1.2	3
4	Robust formation of nanoscale magnetic skyrmions in easy-plane anisotropy thin film multilayers with low damping. Physical Review B, 2021, 104, .	1.1	8
5	Low-temperature suppression of the spin Nernst angle in Pt. Physical Review B, 2021, 104, .	1.1	2
6	Growth optimization of TaN for superconducting spintronics. Materials for Quantum Technology, 2021, 1, 045001.	1.2	1
7	Magnon transport in $\text{O}_{12}\text{Pt}_3$ nanostructures with reduced effective magnetization. Physical Review B, 2021, 104, .		
8	Resonant nanodiffraction x-ray imaging reveals role of magnetic domains in complex oxide spin caloritronics. Science Advances, 2020, 6, .	4.7	3
9	Effect of interfacial oxidation layer in spin pumping experiments on Ni <sub>80</sub> Fe <sub>20</sub> /SrIrO <sub>3</sub> heterostructures. Journal of Applied Physics, 2020, 128, .	1.1	9
10	Quantitative comparison of magnon transport experiments in three-terminal YIG/Pt nanostructures acquired via dc and ac detection techniques. Applied Physics Letters, 2020, 117, 182401.	1.5	6
11	Observation of Antiferromagnetic Magnon Pseudospin Dynamics and the Hanle Effect. Physical Review Letters, 2020, 125, 247204.	2.9	46
12	Spin Hall magnetoresistance in antiferromagnetic insulators. Journal of Applied Physics, 2020, 127, .	1.1	27
13	Large Spin Hall Magnetoresistance in Antiferromagnetic $\text{O}_{12}\text{Pt}_3$ Heterostructures. Physical Review Applied, 2020, 13, .	1.1	17
14	Precise control of $J_{\text{eff}}=12$ magnetic properties in Sr <sub>2</sub> IrO <sub>4</sub> epitaxial thin films by variation of strain and thin film thickness. Physical Review B, 2020, 102, .	1.1	4
15	Static magnetic proximity effects and spin Hall magnetoresistance in Pt/Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> and inverted Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> /Pt bilayers. Physical Review B, 2020, 102, .	1.1	8
16	Anomalous spin Hall angle of a metallic ferromagnet determined by a multiterminal spin injection/detection device. Applied Physics Letters, 2019, 115, .	1.5	9
17	High spin-wave propagation length consistent with low damping in a metallic ferromagnet. Applied Physics Letters, 2019, 115, .	1.5	26
18	Exchange-Enhanced Ultrastrong Magnon-Magnon Coupling in a Compensated Ferrimagnet. Physical Review Letters, 2019, 123, 117204.	2.9	77

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19	Spin Transport in a Magnetic Insulator with Zero Effective Damping. Physical Review Letters, 2019, 123, 257201.	2.9	54
20	Lock-in thermography measurements of the spin Peltier effect in a compensated ferrimagnet and its comparison to the spin Seebeck effect. Journal Physics D: Applied Physics, 2018, 51, 194002.	1.3	21
21	Spin Hall magnetoresistance in antiferromagnet/heavy-metal heterostructures. Physical Review B, 2018, 97, .	1.1	140
22	Spin-Torque Excitation of Perpendicular Standing Spin Waves in Coupled $\text{YIG}/\text{Pt}$ Heterostructures. Physical Review Letters, 2018, 120, 127201.	2.9	180
23	Pure spin current transport in gallium doped zinc oxide. Applied Physics Letters, 2017, 110, 052403.	1.5	2
24	Magnon Mode Selective Spin Transport in Compensated Ferrimagnets. Nano Letters, 2017, 17, 3334-3340.	4.5	42
25	Tunable magnon-photon coupling in a compensating ferrimagnet from weak to strong coupling. Applied Physics Letters, 2017, 110, .	1.5	27
26	Impact of the interface quality of Pt/YIG(111) hybrids on their spin Hall magnetoresistance. Applied Physics Letters, 2017, 110, .	1.5	30
27	Observation of the spin Nernst effect. Nature Materials, 2017, 16, 977-981.	13.3	137
28	Temperature dependence of the non-local spin Seebeck effect in YIG/Pt nanostructures. AIP Advances, 2017, 7, .	0.6	27
29	Helimagnon Resonances in an Intrinsic Chiral Magnonic Crystal. Physical Review Letters, 2017, 119, 237204.	2.9	25
30	Untangling the contributions of cerium and iron to the magnetism of Ce-doped yttrium iron garnet. Applied Physics Letters, 2016, 108, .	1.5	8
31	Magnon-based logic in a multi-terminal YIG/Pt nanostructure. Applied Physics Letters, 2016, 109, .	1.5	74
32	Spin Hall magnetoresistance in a canted ferrimagnet. Physical Review B, 2016, 94, .	1.1	73
33	Spin Seebeck effect at microwave frequencies. Physical Review B, 2016, 93, .	1.1	28
34	Origin of the spin Seebeck effect in compensated ferrimagnets. Nature Communications, 2016, 7, 10452.	5.8	154
35	Current-induced spin torque resonance of a magnetic insulator. Physical Review B, 2015, 92, .	1.1	55
36	Spin pumping in YIG/Pt bilayers as a function of layer thickness. Physical Review B, 2015, 92, .	1.1	73



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55	Voltage controlled inversion of magnetic anisotropy in a ferromagnetic thin film at room temperature. <i>New Journal of Physics</i> , 2009, 11, 013021.	1.2	145
56	Piezo-voltage control of magnetization orientation in a ferromagnetic semiconductor. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008, 2, 96-98.	1.2	38
57	<i>In situ</i> manipulation of magnetic anisotropy in magnetite thin films. <i>Physical Review B</i> , 2008, 77, .	1.1	96
58	$\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle mml:mrow \langle mml:msub \langle mml:mrow \langle mml:mrow \langle mml:mn \rangle 1 \langle mml:m$ actuator hybrids: A model system for magnetoelastic magnetization manipulation. <i>Physical Review B</i> , 2008, 78, .	1.1	72
59	Multiferroic materials based on artificial thin film heterostructures. <i>Philosophical Magazine Letters</i> , 2007, 87, 141-154.	0.5	24
60	Electron doping in the double perovskite $\text{La}_{1-x}\text{A}_x\text{CrWO}_6$ with A=Sr and Ca. <i>Journal of Applied Physics</i> , 2006, 99, 08J102.	1.1	23
61	Epitaxial growth of electron doped double perovskites with and Ca. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 1154-1157.	1.0	10
62	X-ray magnetic circular dichroism study of Re 5d magnetism in $\text{Sr}_2\text{CrReO}_6$ . <i>Applied Physics Letters</i> , 2005, 87, 202503.	1.5	71
63	Magnetic moments of $\text{W}_5\text{d}$ in $\text{Ca}_2\text{CrWO}_6$ and $\text{Sr}_2\text{CrWO}_6$ double perovskites. <i>Physical Review B</i> , 2005, 72, .	1.1	35
64	Magnetoresistance and Magnetic Properties of the Double Perovskites. <i>Acta Physica Polonica A</i> , 2004, 105, 7-26.	0.2	15