

Tom Seifert

List of Publications by Year in descending order

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29
papers

2,116
citations

430874

18
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526287

27
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29
all docs

29
docs citations

29
times ranked

2453
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient metallic spintronic emitters of ultrabroadband terahertz radiation. <i>Nature Photonics</i> , 2016, 10, 483-488.	31.4	605
2	Terahertz electrical writing speed in an antiferromagnetic memory. <i>Science Advances</i> , 2018, 4, eaar3566.	10.3	221
3	Origin of surface trap states in CdS quantum dots: relationship between size dependent photoluminescence and sulfur vacancy trap states. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2850-2858.	2.8	204
4	Ultrabroadband single-cycle terahertz pulses with peak fields of 300 kV cm^{-1} from a metallic spintronic emitter. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	158
5	Tuning whispering gallery modes using internal aerostatic pressure. <i>Optics Letters</i> , 2011, 36, 4536.	3.3	138
6	Femtosecond formation dynamics of the spin Seebeck effect revealed by terahertz spectroscopy. <i>Nature Communications</i> , 2018, 9, 2899.	12.8	131
7	Terahertz spectroscopy for all-optical spintronic characterization of the spin-Hall-effect metals Pt, W and $\text{Cu}_{80}\text{Ir}_{20}$. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 364003.	2.8	78
8	Terahertz Spin Currents and Inverse Spin Hall Effect in Thin-Film Heterostructures Containing Complex Magnetic Compounds. <i>Spin</i> , 2017, 07, 1740010.	1.3	65
9	Ultrafast terahertz magnetometry. <i>Nature Communications</i> , 2020, 11, 4247.	12.8	61
10	Impact of pump wavelength on terahertz emission of a cavity-enhanced spintronic trilayer. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	54
11	Antenna-coupled spintronic terahertz emitters driven by a 1550 nm femtosecond laser oscillator. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	48
12	Complex Terahertz and Direct Current Inverse Spin Hall Effect in $\text{YIG/Cu}_{1-x}\text{Ir}_x$ Bilayers Across a Wide Concentration Range. <i>Nano Letters</i> , 2018, 18, 1064-1069.	9.1	44
13	Terahertz Spin-Induced Charge Conversion by Interfacial Skew Scattering in Metallic Bilayers. <i>Advanced Materials</i> , 2021, 33, e2006281.	21.0	44
14	Spintronic sources of ultrashort terahertz electromagnetic pulses. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	44
15	Longitudinal and transverse electron paramagnetic resonance in a scanning tunneling microscope. <i>Science Advances</i> , 2020, 6, .	10.3	33
16	Modulating the polarization of broadband terahertz pulses from a spintronic emitter at rates up to 10 kHz. <i>Optica</i> , 2021, 8, 1013.	9.3	33
17	Single-atom electron paramagnetic resonance in a scanning tunneling microscope driven by a radio-frequency antenna at 4 K. <i>Physical Review Research</i> , 2020, 2, .	3.6	32
18	Frequency-independent Terahertz Anomalous Hall Effect in DyCo_5 , $\text{Co}_{32}\text{Fe}_{68}$, and $\text{Gd}_{27}\text{Fe}_{73}$ Thin Films from DC to 40 THz. <i>Advanced Materials</i> , 2021, 33, e2007398.	21.0	20

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19	Transition of laser-induced terahertz spin currents from torque- to conduction-electron-mediated transport. <i>Physical Review B</i> , 2022, 105, .	3.2	17
20	High-Throughput Techniques for Measuring the Spin Hall Effect. <i>Physical Review Applied</i> , 2020, 14, .	3.8	16
21	Ultrafast carrier dynamics in terahertz photoconductors and photomixers: beyond short-carrier-lifetime semiconductors. <i>Nanophotonics</i> , 2022, 11, 2661-2691.	6.0	16
22	Electron Paramagnetic Resonance of Alkali Metal Atoms and Dimers on Ultrathin MgO. <i>Nano Letters</i> , 2022, 22, 4176-4181.	9.1	12
23	Accurate measurement of atomic magnetic moments by minimizing the tip magnetic field in STM-based electron paramagnetic resonance. <i>Physical Review Research</i> , 2021, 3, .	3.6	11
24	Spin-voltage-driven efficient terahertz spin currents from the magnetic Weyl semimetals Co ₂ MnGa and Co ₂ MnAl. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	11
25	Average power scaling of THz spintronic emitters efficiently cooled in reflection geometry. <i>Optics Express</i> , 2022, 30, 20451.	3.4	10
26	Impact of gigahertz and terahertz transport regimes on spin propagation and conversion in the antiferromagnet IrMn. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	8
27	Terahertz-wave decoding of femtosecond extreme-ultraviolet light pulses. <i>Optica</i> , 2022, 9, 545.	9.3	2
28	Impact of Pump Wavelength on Terahertz Emission of a Cavity-Enhanced Spintronic Trilayer. , 2019, , .		0
29	Ultrafast Magnetization Dynamics Revealed by Terahertz Magnetometry. , 2020, , .		0