

# Joseph Sklenar

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

1,167  
citations

361413

20  
h-index

377865

34  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1502  
citing authors

#	ARTICLE	IF	CITATIONS
1	All-electrical manipulation of magnetization dynamics in a ferromagnet by antiferromagnets with anisotropic spin Hall effects. <i>Physical Review B</i> , 2015, 92, .	3.2	95
2	Research Update: Spin transfer torques in permalloy on monolayer MoS <sub>2</sub> . <i>APL Materials</i> , 2016, 4, .	5.1	75
3	Coherent Spin Pumping in a Strongly Coupled Magnon-Magnon Hybrid System. <i>Physical Review Letters</i> , 2020, 124, 117202.	7.8	75
4	Controlled Magnetic Reversal in Permalloy Films Patterned into Artificial Quasicrystals. <i>Physical Review Letters</i> , 2013, 111, 077201.	7.8	73
5	Dynamic response of an artificial square spin ice. <i>Physical Review B</i> , 2016, 93, .	3.2	71
6	Quantum Engineering With Hybrid Magnonic Systems and Materials <i>(Invited Paper)</i>. <i>IEEE Transactions on Quantum Engineering</i> , 2021, 2, 1-36.	4.9	69
7	Large Spin-Wave Bullet in a Ferrimagnetic Insulator Driven by the Spin Hall Effect. <i>Physical Review Letters</i> , 2016, 116, 057601.	7.8	66
8	Interface-driven spin-torque ferromagnetic resonance by Rashba coupling at the interface between nonmagnetic materials. <i>Physical Review B</i> , 2016, 93, .	3.2	65
9	Classical topological order in the kinetics of artificial spin ice. <i>Nature Physics</i> , 2018, 14, 723-727.	16.7	57
10	Metallic antiferromagnets. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	57
11	Field-induced phase coexistence in an artificial spin ice. <i>Nature Physics</i> , 2019, 15, 191-195.	16.7	49
12	Driving and detecting ferromagnetic resonance in insulators with the spin Hall effect. <i>Physical Review B</i> , 2015, 92, .	3.2	48
13	Perspective: Interface generation of spin-orbit torques. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	42
14	Spin transport through the metallic antiferromagnet FeMn. <i>Physical Review B</i> , 2016, 94, .	3.2	38
15	Ferromagnetic resonance of a YIG film in the low frequency regime. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	32
16	Understanding magnetotransport signatures in networks of connected permalloy nanowires. <i>Physical Review B</i> , 2017, 95, .	3.2	32
17	High-Frequency Dynamics Modulated by Collective Magnetization Reversal in Artificial Spin Ice. <i>Physical Review Applied</i> , 2017, 8, .	3.8	29
18	Understanding thermal annealing of artificial spin ice. <i>APL Materials</i> , 2019, 7, .	5.1	28

#	ARTICLE	IF	CITATIONS
19	Unidirectional spin-torque driven magnetization dynamics. Physical Review B, 2017, 95, .	3.2	24
20	Probing magnonâ€magnon coupling in exchange coupled $Y_3Fe_5O_{12}$ /Permalloy bilayers with magneto-optical effects. Scientific Reports, 2020, 10, 12548.	3.3	23
21	Spin Hall effects in metallic antiferromagnets â€ perspectives for future spin-orbitronics. AIP Advances, 2016, 6, .	1.3	21
22	Magnetic response of brickwork artificial spin ice. Physical Review B, 2017, 96, .	3.2	17
23	Self-Hybridization and Tunable Magnon-Magnon Coupling in van der Waals Synthetic Magnets. Physical Review Applied, 2021, 15, .	3.8	17
24	Effect of dipolar interaction on exceptional points in synthetic layered magnets. Applied Physics Letters, 2021, 118, .	3.3	10
25	String Phase in an Artificial Spin Ice. Nature Communications, 2021, 12, 6514.	12.8	9
26	Proximity-induced anisotropic magnetoresistance in magnetized topological insulators. Applied Physics Letters, 2021, 118, .	3.3	7
27	Experimental parameters, combined dynamics, and nonlinearity of a magnonic-opto-electronic oscillator (MOEO). Review of Scientific Instruments, 2020, 91, 125105.	1.3	6
28	Hybrid Magnonics for Short-Wavelength Spin Waves Facilitated by a Magnetic Heterostructure. Physical Review Applied, 2022, 17, .	3.8	6
29	Entropy-driven order in an array of nanomagnets. Nature Physics, 2022, 18, 706-712.	16.7	5
30	Dynamics in artificial spin ice and magnetic metamaterials. Solid State Physics, 2019, 70, 171-235.	0.5	4
31	Optical Detection of Phase-Resolved Ferromagnetic Resonance in Epitaxial FeCo Thin Films. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	4
32	Tunable Magnetically Induced Transparency Spectra in Magnon-Magnon Coupled $Y_3Fe_5O_{12}$ /Permalloy Bilayers. Physical Review Applied, 2022, 17, .	3.8	4
33	Angular evolution of thickness-related unidirectional magnetoresistance in Co/Pt multilayers. AIP Advances, 2019, 9, .	1.3	3
34	Detecting Phase-Resolved Magnetization Dynamics by Magneto-Optic Effects at 1550 nm Wavelength. IEEE Transactions on Magnetics, 2021, 57, 1-7.	2.1	3
35	Phase-resolved electrical detection of coherently coupled magnonic devices. Applied Physics Letters, 2021, 118, 202403.	3.3	3