

# Carl Davies

## List of Publications by Year in descending order

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28  
papers

952  
citations

430874

18  
h-index

552781

26  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1022  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon-substrate-induced enhancement of infrared light absorption for all-optical magnetic switching. Applied Physics Letters, 2022, 120, .	3.3	2
2	Cavity-dumping a single infrared pulse from a free-electron laser for two-color pump-probe experiments. Review of Scientific Instruments, 2022, 93, 043007.	1.3	2
3	Ultrafast phononic switching of magnetization. Nature Physics, 2021, 17, 489-492.	16.7	85
4	Domain Wall Deceleration in a Ferrite Garnet Film by Femtosecond Laser Pulses. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2021, 76, 447-454.	0.4	0
5	Pathways for Single-Shot All-Optical Switching of Magnetization in Ferrimagnets. Physical Review Applied, 2020, 13, .	3.8	59
6	Single-shot all-optical switching of magnetization in Tb/Co multilayer-based electrodes. Scientific Reports, 2020, 10, 5211.	3.3	68
7	Magnetic and all-optical switching properties of amorphous $\text{Tb}_{24}\text{Fe}_{76}$ . Physical Review Materials, 2020, 4, .	2.4	28
8	Exchange-driven all-optical magnetic switching in compensated $\text{d}_{3d}$ ferrimagnets. Physical Review Research, 2020, 2, .	3.6	24
9	Controlling magnetic domain wall velocity by femtosecond laser pulses. Journal of Physics Condensed Matter, 2020, 33, 075802.	1.8	5
10	Plasmonic layer-selective all-optical switching of magnetization with nanometer resolution. Nature Communications, 2019, 10, 4786.	12.8	59
11	Supervised learning of an opto-magnetic neural network with ultrashort laser pulses. Applied Physics Letters, 2019, 114, 192407.	3.3	15
12	Influence of nonmagnetic dielectric spacers on the spin-wave response of one-dimensional planar magnonic crystals. Physical Review B, 2019, 100, .	3.2	10
13	Integration of Tb/Co multilayers within optically switchable perpendicular magnetic tunnel junctions. AIP Advances, 2019, 9, .	1.3	36
14	Anomalously Damped Heat-Assisted Route for Precessional Magnetization Reversal in an Iron Garnet. Physical Review Letters, 2019, 122, 027202.	7.8	43
15	Towards massively parallelized all-optical magnetic recording. Journal of Applied Physics, 2018, 123, .	2.5	19
16	Formation of the band spectrum of spin waves in 1D magnonic crystals with different types of interfacial boundary conditions. Journal Physics D: Applied Physics, 2017, 50, 094003.	2.8	18
17	Mapping the magnonic landscape in patterned magnetic structures. Physical Review B, 2017, 96, .	3.2	32
18	Spin wave propagation in a uniformly biased curved magnonic waveguide. Physical Review B, 2017, 96, .	3.2	70

#	ARTICLE	IF	CITATIONS
19	Broadband conversion of microwaves into propagating spin waves in patterned magnetic structures. Applied Physics Letters, 2017, 111, .	3.3	33
20	Graded Magnonic Index and Spin Wave Fano Resonances in Magnetic Structures: Excite, Direct, Capture. , 2017, , 11-46.		4
21	Generation of Propagating Spin Waves From Edges of Magnetic Nanostructures Pumped by Uniform Microwave Magnetic Field. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	26
22	Generation of propagating spin waves from regions of increased dynamic demagnetising field near magnetic antidots. Applied Physics Letters, 2015, 107, 162401.	3.3	39
23	Graded-index magnonics. Low Temperature Physics, 2015, 41, 760-766.	0.6	40
24	Magnonic beam splitter: The building block of parallel magnonic circuitry. Applied Physics Letters, 2015, 106, .	3.3	81
25	Towards graded-index magnonics: Steering spin waves in magnonic networks. Physical Review B, 2015, 92, .	3.2	110
26	Field-Controlled Phase-Rectified Magnonic Multiplexer. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	43
27	Field-controlled phase-rectified magnonic multiplexor. , 2015, , .		1
28	Modelling ferromagnetic resonance in magnetic multilayers: Exchange coupling and demagnetisation-driven effects. Journal of Applied Physics, 2014, 115, 17D140.	2.5	3