

# Richard B Wilson

## List of Publications by Year in descending order

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23  
papers

907  
citations

567247

15  
h-index

677123

22  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1558  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast magnetization reversal by picosecond electrical pulses. <i>Science Advances</i> , 2017, 3, e1603117.	10.3	127
2	Effect of Growth Induced (Non)Stoichiometry on the Structure, Dielectric Response, and Thermal Conductivity of SrTiO <sub>3</sub> Thin Films. <i>Chemistry of Materials</i> , 2012, 24, 331-337.	6.7	111
3	Thermoreflectance of metal transducers for optical pump-probe studies of thermal properties. <i>Optics Express</i> , 2012, 20, 28829.	3.4	109
4	Experimental Validation of the Interfacial Form of the Wiedemann-Franz Law. <i>Physical Review Letters</i> , 2012, 108, 255901.	7.8	89
5	Spin-orbit torque switching of a ferromagnet with picosecond electrical pulses. <i>Nature Electronics</i> , 2020, 3, 680-686.	26.0	63
6	Single shot ultrafast all optical magnetization switching of ferromagnetic Co/Pt multilayers. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	60
7	Phonon and Thermal Properties of Quasi-Two-Dimensional FePS <sub>3</sub> and MnPS <sub>3</sub> Antiferromagnetic Semiconductors. <i>ACS Nano</i> , 2020, 14, 2424-2435.	14.6	58
8	Progress towards ultrafast spintronics applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166478.	2.3	51
9	Elastic constants, Poisson ratios, and the elastic anisotropy of VN(001), (011), and (111) epitaxial layers grown by reactive magnetron sputter deposition. <i>Journal of Applied Physics</i> , 2014, 115, 214908.	2.5	49
10	Tuning thermal conductivity in homoepitaxial SrTiO <sub>3</sub> films via defects. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	37
11	Limits to Fourier theory in high thermal conductivity single crystals. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	36
12	Electric current induced ultrafast demagnetization. <i>Physical Review B</i> , 2017, 96, .	3.2	28
13	Parametric dependence of hot electron relaxation timescales on electron-electron and electron-phonon interaction strengths. <i>Communications Physics</i> , 2020, 3, .	5.3	21
14	Thermal Conductivity of Mechanically Joined Semiconducting/Metal Nanomembrane Superlattices. <i>Nano Letters</i> , 2014, 14, 2387-2393.	9.1	20
15	High sensitivity pump-probe measurements of magnetic, thermal, and acoustic phenomena with a spectrally tunable oscillator. <i>Review of Scientific Instruments</i> , 2020, 91, 023905.	1.3	20
16	Ultrafast measurements of the interfacial spin Seebeck effect in Au and rare-earth iron-garnet bilayers. <i>Physical Review Materials</i> , 2021, 5, .	2.4	7
17	Magneto-optical Kerr spectra of gold induced by spin accumulation. <i>Physical Review B</i> , 2022, 106, .	3.2	7
18	Differentiating contributions of electrons and phonons to the thermoreflectance spectra of gold. <i>Physical Review Materials</i> , 2021, 5, .	2.4	6

#	ARTICLE	IF	CITATIONS
19	Interfacial thermal transport in spin caloritronic material systems. Physical Review Materials, 2021, 5, .	2.4	4
20	<i>In situ</i> and <i>ex situ</i> processes for synthesizing metal multilayers with electronically conductive interfaces. Journal of Applied Physics, 2022, 131, 225302.	2.5	2
21	Thermal model for time-domain thermoreflectance experiments in a laser-flash geometry. Journal of Applied Physics, 2022, 131, 134301.	2.5	1
22	Nanoscale laser flash measurements of diffusion transport in amorphous Ge and Si. APL Materials, 2022, 10, 041111.	5.1	1
23	Single shot ultrafast all optical magnetization switching of ferromagnetic Co/Pt multilayers. , 2017, , .		0