

Richard B Wilson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

19
papers

601
citations

13
h-index

24
g-index

25
ext. papers

752
ext. citations

6.3
avg, IF

4.02
L-index

#	Paper	IF	Citations
19	Thermal model for time-domain thermoreflectance experiments in a laser-flash geometry. <i>Journal of Applied Physics</i> , 2022 , 131, 134301	2.5	1
18	Nanoscale laser flash measurements of diffusion transport in amorphous Ge and Si. <i>APL Materials</i> , 2022 , 10, 041111	5.7	1
17	Differentiating contributions of electrons and phonons to the thermoreflectance spectra of gold. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
16	Ultrafast measurements of the interfacial spin Seebeck effect in Au and rare-earth iron-garnet bilayers. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
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	1.7	6
14	Progress towards ultrafast spintronics applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 502, 166478	2.8	24
13	Phonon and Thermal Properties of Quasi-Two-Dimensional FePS and MnPS Antiferromagnetic Semiconductors. <i>ACS Nano</i> , 2020 , 14, 2424-2435	16.7	24
12	Spin-orbit torque switching of a ferromagnet with picosecond electrical pulses. <i>Nature Electronics</i> , 2020 , 3, 680-686	28.4	20
11	Parametric dependence of hot electron relaxation timescales on electron-electron and electron-phonon interaction strengths. <i>Communications Physics</i> , 2020 , 3,	5.4	9
10	Single shot ultrafast all optical magnetization switching of ferromagnetic Co/Pt multilayers. <i>Applied Physics Letters</i> , 2017 , 111, 042401	3.4	43
9	Ultrafast magnetization reversal by picosecond electrical pulses. <i>Science Advances</i> , 2017 , 3, e1603117	14.3	77
8	Electric current induced ultrafast demagnetization. <i>Physical Review B</i> , 2017 , 96,	3.3	19
7	Tuning thermal conductivity in homoepitaxial SrTiO ₃ films via defects. <i>Applied Physics Letters</i> , 2015 , 107, 051902	3.4	31
6	Limits to Fourier theory in high thermal conductivity single crystals. <i>Applied Physics Letters</i> , 2015 , 107, 203112	3.4	29
5	Thermal conductivity of mechanically joined semiconducting/metal nanomembrane superlattices. <i>Nano Letters</i> , 2014 , 14, 2387-93	11.5	19
4	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	43
3	Effect of Growth Induced (Non)Stoichiometry on the Structure, Dielectric Response, and Thermal Conductivity of SrTiO ₃ Thin Films. <i>Chemistry of Materials</i> , 2012 , 24, 331-337	9.6	95

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| 2 | Experimental validation of the interfacial form of the Wiedemann-Franz law. <i>Physical Review Letters</i> , 2012 , 108, 255901 | 7.4 | 72 |
| 1 | Thermoreflectance of metal transducers for optical pump-probe studies of thermal properties. <i>Optics Express</i> , 2012 , 20, 28829-38 | 3.3 | 81 |