

Richard B Wilson

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6329030/richard-b-wilson-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
18	Thermoreflectance of metal transducers for optical pump-probe studies of thermal properties. <i>Optics Express</i> , 2012 , 20, 28829-38	3.3	81
17	Ultrafast magnetization reversal by picosecond electrical pulses. <i>Science Advances</i> , 2017 , 3, e1603117	14.3	77
16	Experimental validation of the interfacial form of the Wiedemann-Franz law. <i>Physical Review Letters</i> , 2012 , 108, 255901	7.4	72
15	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
14	Single shot ultrafast all optical magnetization switching of ferromagnetic Co/Pt multilayers. <i>Applied Physics Letters</i> , 2017 , 111, 042401	3.4	43
13	Tuning thermal conductivity in homoepitaxial SrTiO ₃ films via defects. <i>Applied Physics Letters</i> , 2015 , 107, 051902	3.4	31
12	Limits to Fourier theory in high thermal conductivity single crystals. <i>Applied Physics Letters</i> , 2015 , 107, 203112	3.4	29
11	Progress towards ultrafast spintronics applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 502, 166478	2.8	24
10	Phonon and Thermal Properties of Quasi-Two-Dimensional FePS and MnPS Antiferromagnetic Semiconductors. <i>ACS Nano</i> , 2020 , 14, 2424-2435	16.7	24
9	Spin-orbit torque switching of a ferromagnet with picosecond electrical pulses. <i>Nature Electronics</i> , 2020 , 3, 680-686	28.4	20
8	Thermal conductivity of mechanically joined semiconducting/metal nanomembrane superlattices. <i>Nano Letters</i> , 2014 , 14, 2387-93	11.5	19
7	Electric current induced ultrafast demagnetization. <i>Physical Review B</i> , 2017 , 96,	3.3	19
6	Parametric dependence of hot electron relaxation timescales on electron-electron and electron-phonon interaction strengths. <i>Communications Physics</i> , 2020 , 3,	5.4	9
5	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
4	Differentiating contributions of electrons and phonons to the thermoreflectance spectra of gold. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
3	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

2	Thermal model for time-domain thermorefectance experiments in a laser-flash geometry. <i>Journal of Applied Physics</i> , 2022 , 131, 134301	2.5	1
1	Nanoscale laser flash measurements of diffusion transport in amorphous Ge and Si. <i>APL Materials</i> , 2022 , 10, 041111	5.7	1