

Eric R Hoglund

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Interface controlled thermal resistances of ultra-thin chalcogenide-based phase change memory devices. <i>Nature Communications</i> , 2021, 12, 774.	12.8	59
2	High In-Plane Thermal Conductivity of Aluminum Nitride Thin Films. <i>ACS Nano</i> , 2021, 15, 9588-9599.	14.6	58
3	Emergent interface vibrational structure of oxide superlattices. <i>Nature</i> , 2022, 601, 556-561.	27.8	40
4	Observation of solid-state bidirectional thermal conductivity switching in antiferroelectric lead zirconate (PbZrO ₃). <i>Nature Communications</i> , 2022, 13, 1573.	12.8	25
5	Thermal Conductivity and Phonon Scattering Processes of ALD Grown PbTe/PbSe Thermoelectric Thin Films. <i>Advanced Functional Materials</i> , 2019, 29, 1904073.	14.9	23
6	Suppressed electronic contribution in thermal conductivity of Ge ₂ Sb ₂ Se ₄ Te. <i>Nature Communications</i> , 2021, 12, 7187.	12.8	23
7	Thermal conductivity measurements of sub-surface buried substrates by steady-state thermoreflectance. <i>Review of Scientific Instruments</i> , 2021, 92, 064906.	1.3	17
8	Determining the Electron Density and Volume Expansion at Grain Boundaries Using Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 414-415.	0.4	15
9	High thermal conductivity and thermal boundary conductance of homoepitaxially grown gallium nitride (GaN) thin films. <i>Physical Review Materials</i> , 2021, 5, .	2.4	10
10	Hydrogen effects on the thermal conductivity of delocalized vibrational modes in amorphous silicon nitride $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle a \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \rangle \langle \text{mml:mt} \rangle \langle \text{mml:mt} \rangle$	2.4	10
11	Atomic structures of ordered monolayer GP zones in Mg-Zn-X (X= Ca, Nd) systems. <i>Scripta Materialia</i> , 2022, 216, 114744.	5.2	8
12	Photoelectrochemistry of Self-Limiting Electrodeposition of Ni Film onto GaAs. <i>Small</i> , 2020, 16, e2003112.	10.0	6
13	Polymersome Poration and Rupture Mediated by Plasmonic Nanoparticles in Response to Single-Pulse Irradiation. <i>Polymers</i> , 2020, 12, 2381.	4.5	5
14	Nanoscale mapping of the electron density at Al grain boundaries and correlation with grain-boundary energy. <i>Physical Review Materials</i> , 2019, 3, .	2.4	4
15	Interfacial reactions between B ₂ O ₃ and spark plasma sintered Yb ₂ Si ₂ O ₇ . <i>Journal of the American Ceramic Society</i> , 2021, 104, 5392-5401.	3.8	2
16	Observation of grain boundary plasmon and associated deconvolution techniques for low-loss electron energy-loss (EEL) spectra acquired from grain boundaries. <i>Ultramicroscopy</i> , 2022, 234, 113478.	1.9	1
17	Momentum Resolved EELS of Plasmons at Al Grain Boundaries without a q-Slit Aperture. <i>Microscopy and Microanalysis</i> , 2018, 24, 466-467.	0.4	0
18	Localization of Plasmon Resonance Using Momentum-Resolved EELS. <i>Microscopy and Microanalysis</i> , 2019, 25, 642-643.	0.4	0