

David H Hurley

List of Publications by Year in descending order

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42
all docs

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docs citations

42
times ranked

432
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Conductivity in Nanocrystalline Ceria Thin Films. <i>Journal of the American Ceramic Society</i> , 2014, 97, 562-569.	3.8	58
2	Impact of irradiation induced dislocation loops on thermal conductivity in ceramics. <i>Journal of the American Ceramic Society</i> , 2019, 102, 7533-7542.	3.8	56
3	Microstructure changes and thermal conductivity reduction in UO ₂ following 3.9 MeV He ²⁺ ion irradiation. <i>Journal of Nuclear Materials</i> , 2014, 454, 283-289.	2.7	38
4	Thermal Energy Transport in Oxide Nuclear Fuel. <i>Chemical Reviews</i> , 2022, 122, 3711-3762.	47.7	37
5	Local measurement of thermal conductivity and diffusivity. <i>Review of Scientific Instruments</i> , 2015, 86, 123901.	1.3	33
6	The influence of lattice defects, recombination, and clustering on thermal transport in single crystal thorium dioxide. <i>APL Materials</i> , 2020, 8, .	5.1	32
7	Measurement of thermal conductivity in proton irradiated silicon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 325, 11-14.	1.4	30
8	Spatially localized measurement of thermal conductivity using a hybrid photothermal technique. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	27
9	An integrated experimental and computational investigation of defect and microstructural effects on thermal transport in thorium dioxide. <i>Acta Materialia</i> , 2021, 213, 116934.	7.9	26
10	Combining mesoscale thermal transport and x-ray diffraction measurements to characterize early-stage evolution of irradiation-induced defects in ceramics. <i>Acta Materialia</i> , 2020, 193, 61-70.	7.9	25
11	Epicentral and near epicenter surface displacements on pulsed laser irradiated metallic surfaces. <i>Applied Physics Letters</i> , 1996, 68, 3561-3563.	3.3	24
12	Characterization of ultralow thermal conductivity in anisotropic pyrolytic carbon coating for thermal management applications. <i>Carbon</i> , 2018, 129, 476-485.	10.3	24
13	Imaging grain microstructure in a model ceramic energy material with optically generated coherent acoustic phonons. <i>Nature Communications</i> , 2020, 11, 1597.	12.8	24
14	Measurement of thermal transport using time-resolved thermal wave microscopy. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	21
15	Point-source representation for laser-generated ultrasound in an elastic, transversely isotropic half-space. <i>Journal of Applied Physics</i> , 1999, 86, 3423-3427.	2.5	16
16	The study of frequency-scan photothermal reflectance technique for thermal diffusivity measurement. <i>Review of Scientific Instruments</i> , 2015, 86, 054901.	1.3	16
17	Nondestructive characterization of polycrystalline 3D microstructure with time-domain Brillouin scattering. <i>Scripta Materialia</i> , 2019, 166, 34-38.	5.2	16
18	Indirect characterization of point defects in proton irradiated ceria. <i>Materialia</i> , 2021, 15, 101019.	2.7	16

#	ARTICLE	IF	CITATIONS
19	TEM characterization of dislocation loops in proton irradiated single crystal ThO ₂ . Journal of Nuclear Materials, 2021, 552, 152998.	2.7	16
20	Photoacoustic 3-D imaging of polycrystalline microstructure improved with transverse acoustic waves. Photoacoustics, 2021, 23, 100286.	7.8	13
21	Systematic analysis on the primary radiation damage in Th _{1-x} U _x O ₂ fluorite systems. Journal of Nuclear Materials, 2020, 536, 152144.	2.7	11
22	Thermal conductivity of ThO ₂ : Effect of point defect disorder. Journal of Applied Physics, 2021, 129, .	2.5	11
23	Dislocation loop evolution in Kr ⁸¹ irradiated ThO ₂ . Journal of the American Ceramic Society, 2022, 105, 5419-5435.	3.8	11
24	Assessment of empirical interatomic potential to predict thermal conductivity in ThO ₂ and UO ₂ . Journal of Physics Condensed Matter, 2021, 33, 275402.	1.8	9
25	Intragranular thermal transport in U ²³⁵ Zr. Journal of Nuclear Materials, 2020, 534, 152145.	2.7	9
26	Pump-Probe Laser Ultrasonics: Characterization of Material Microstructure. IEEE Nanotechnology Magazine, 2019, 13, 29-38.	1.3	8
27	Determining local thermal transport in a composite uranium-nitride/silicide nuclear fuel using square-pulse transient thermoreflectance technique. Journal of Nuclear Materials, 2020, 528, 151842.	2.7	8
28	Inferring relative dose-dependent color center populations in proton irradiated thoria single crystals using optical spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 6133-6145.	2.8	6
29	Towards actinide heterostructure synthesis and science. Nature Communications, 2022, 13, 2221.	12.8	6
30	Thermal properties measurement of TRISO particle coatings from room temperature to 900 Å°C using laser-based thermoreflectance methods. Journal of Nuclear Materials, 2022, 565, 153721.	2.7	5
31	Local measurement of bulk thermal diffusivity using photothermal radiometry. Review of Scientific Instruments, 2022, 93, 044903.	1.3	5
32	Impact of small defects and dislocation loops on phonon scattering and thermal transport in ThO_2 . Journal of Nuclear Materials, 2022, 566, 153758.	2.7	5
33	Unraveling small-scale defects in irradiated ThO ₂ using kinetic Monte Carlo simulations. Scripta Materialia, 2022, 214, 114684.	5.2	4
34	A Square Pulse Thermoreflectance Technique for the Measurement of Thermal Properties. International Journal of Thermophysics, 2022, 43, 1.	2.1	3
35	Detection of Terahertz Pulses Using a Modified Sagnac Interferometer. Sensing and Imaging, 2009, 10, 55-62.	1.5	1