

David H Hurley

List of Publications by Year in descending order

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42
all docs

42
docs citations

42
times ranked

432
citing authors

#	ARTICLE	IF	CITATIONS
1	A Square Pulse Thermoreflectance Technique for the Measurement of Thermal Properties. International Journal of Thermophysics, 2022, 43, 1.	2.1	3
2	Thermal Energy Transport in Oxide Nuclear Fuel. Chemical Reviews, 2022, 122, 3711-3762.	47.7	37
3	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
4	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
5	Dislocation loop evolution in Krâ€r irradiated ThO₂. Journal of the American Ceramic Society, 2022, 105, 5419-5435.	3.8	11
6	Unraveling small-scale defects in irradiated ThO2 using kinetic Monte Carlo simulations. Scripta Materialia, 2022, 214, 114684.	5.2	4
7	Towards actinide heterostructure synthesis and science. Nature Communications, 2022, 13, 2221.	12.8	6
8	Local measurement of bulk thermal diffusivity using photothermal radiometry. Review of Scientific Instruments, 2022, 93, 044903.	1.3	5
9	Impact of small defects and dislocation loops on phonon scattering and thermal transport in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si29.svg"><mml:mrow><mml:mtext>Th</mml:mtext><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Journal of Nuclear Materials, 2022, 566, 153758.	2.7	5
10	Thermal conductivity of ThO2: Effect of point defect disorder. Journal of Applied Physics, 2021, 129, .	2.5	11
11	Indirect characterization of point defects in proton irradiated ceria. Materialia, 2021, 15, 101019.	2.7	16
12	Assessment of empirical interatomic potential to predict thermal conductivity in ThO₂ and UO₂. Journal of Physics Condensed Matter, 2021, 33, 275402.	1.8	9
13	An integrated experimental and computational investigation of defect and microstructural effects on thermal transport in thorium dioxide. Acta Materialia, 2021, 213, 116934.	7.9	26
14	TEM characterization of dislocation loops in proton irradiated single crystal ThO2. Journal of Nuclear Materials, 2021, 552, 152998.	2.7	16
15	Photoacoustic 3-D imaging of polycrystalline microstructure improved with transverse acoustic waves. Photoacoustics, 2021, 23, 100286.	7.8	13
16	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
17	The influence of lattice defects, recombination, and clustering on thermal transport in single crystal thorium dioxide. APL Materials, 2020, 8, .	5.1	32
18	Combining mesoscale thermal transport and x-ray diffraction measurements to characterize early-stage evolution of irradiation-induced defects in ceramics. Acta Materialia, 2020, 193, 61-70.	7.9	25

#	ARTICLE	IF	CITATIONS
19	Systematic analysis on the primary radiation damage in Th ¹⁴⁷ UO ₂ fluorite systems. Journal of Nuclear Materials, 2020, 536, 152144.	2.7	11
20	Imaging grain microstructure in a model ceramic energy material with optically generated coherent acoustic phonons. Nature Communications, 2020, 11, 1597.	12.8	24
21	Intragranular thermal transport in U ²³⁵ Zr. Journal of Nuclear Materials, 2020, 534, 152145.	2.7	9
22	Impact of irradiation induced dislocation loops on thermal conductivity in ceramics. Journal of the American Ceramic Society, 2019, 102, 7533-7542.	3.8	56
23	Pump-Probe Laser Ultrasonics: Characterization of Material Microstructure. IEEE Nanotechnology Magazine, 2019, 13, 29-38.	1.3	8
24	Nondestructive characterization of polycrystalline 3D microstructure with time-domain Brillouin scattering. Scripta Materialia, 2019, 166, 34-38.	5.2	16
25	Characterization of ultralow thermal conductivity in anisotropic pyrolytic carbon coating for thermal management applications. Carbon, 2018, 129, 476-485.	10.3	24
26	Local measurement of thermal conductivity and diffusivity. Review of Scientific Instruments, 2015, 86, 123901.	1.3	33
27	The study of frequency-scan photothermal reflectance technique for thermal diffusivity measurement. Review of Scientific Instruments, 2015, 86, 054901.	1.3	16
28	Measurement of thermal conductivity in proton irradiated silicon. Nuclear Instruments & Methods in Physics Research B, 2014, 325, 11-14.	1.4	30
29	Thermal Conductivity in Nanocrystalline Ceria Thin Films. Journal of the American Ceramic Society, 2014, 97, 562-569.	3.8	58
30	Microstructure changes and thermal conductivity reduction in UO ₂ following 3.9 MeV He ²⁺ ion irradiation. Journal of Nuclear Materials, 2014, 454, 283-289.	2.7	38
31	Spatially localized measurement of thermal conductivity using a hybrid photothermal technique. Journal of Applied Physics, 2012, 111, .	2.5	27
32	Measurement of thermal transport using time-resolved thermal wave microscopy. Journal of Applied Physics, 2011, 110, .	2.5	21
33	Detection of Terahertz Pulses Using a Modified Sagnac Interferometer. Sensing and Imaging, 2009, 10, 55-62.	1.5	1
34	Point-source representation for laser-generated ultrasound in an elastic, transversely isotropic half-space. Journal of Applied Physics, 1999, 86, 3423-3427.	2.5	16
35	Epicentral and near epicenter surface displacements on pulsed laser irradiated metallic surfaces. Applied Physics Letters, 1996, 68, 3561-3563.	3.3	24