

Andrzej Kusiak

List of Publications by Year in descending order

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34
papers

536
citations

623188

14
h-index

676716

22
g-index

34
all docs

34
docs citations

34
times ranked

633
citing authors

#	ARTICLE	IF	CITATIONS
1	Tribological and thermal functions of cutting tool coatings. Surface and Coatings Technology, 2004, 186, 364-371.	2.2	82
2	High Temperature Thermal Conductivity of Amorphous Al ₂ O ₃ Thin Films Grown by Low Temperature ALD. Advanced Engineering Materials, 2013, 15, 1046-1050.	1.6	48
3	Tool coatings influence on the heat transfer in the tool during machining. Surface and Coatings Technology, 2005, 195, 29-40.	2.2	40
4	Microstructure and materials properties of understoichiometric TiB _x thin films grown by HiPIMS. Surface and Coatings Technology, 2020, 404, 126537.	2.2	33
5	Thermal conductivity of SiC after heavy ions irradiation. Journal of Nuclear Materials, 2010, 396, 202-207.	1.3	32
6	Using pulsed and modulated photothermal radiometry to measure the thermal conductivity of thin films. Thermochimica Acta, 2013, 556, 1-5.	1.2	28
7	Measuring the thermal properties of green wood by the transient plane source (TPS) technique. Holzforschung, 2013, 67, 437-445.	0.9	24
8	Influence of CrN coating in wood machining from heat flux estimation in the tool. International Journal of Thermal Sciences, 2005, 44, 289-301.	2.6	20
9	Thermal conductivity of carbon doped GeTe thin films in amorphous and crystalline state measured by modulated photo thermal radiometry. Journal of Physics: Conference Series, 2016, 745, 032104.	0.3	20
10	Photothermal radiometric characterization of a thin deposit using a linear swept-frequency heat flux waveform. International Journal of Thermal Sciences, 2006, 45, 1035-1044.	2.6	19
11	Thermal conductivity of amorphous and crystalline GeTe thin film at high temperature: Experimental and theoretical study. Physical Review B, 2020, 101, .	1.1	19
12	Thermal resistance at Al-Ge ₂ Sb ₂ Te ₅ interface. Applied Physics Letters, 2013, 102, .	1.5	17
13	Thermal conductivity measurement of a Sb ₂ Te ₃ phase change nanowire. Applied Physics Letters, 2014, 104, 263103.	1.5	17
14	Carbon epoxy composites thermal conductivity at 77 K and 300 K. Journal of Applied Physics, 2014, 115, 11		15
15	Thermal diffusivity and effusivity of thin layers using time-domain thermoreflectance. Physical Review B, 2007, 76, .	1.1	13
16	Effect of a thin Ti interfacial layer on the thermal resistance of Ge ₂ Sb ₂ Te ₅ -TiN stack. Applied Physics Letters, 2014, 105, .	1.5	13
17	The periodic pulse photothermal radiometry technique within the front face configuration. Measurement: Journal of the International Measurement Confederation, 2020, 158, 107691.	2.5	12
18	Thermal properties of InSbTe films and interfaces for phase change memory devices. Microelectronic Engineering, 2014, 120, 3-8.	1.1	11

#	ARTICLE	IF	CITATIONS
19	Signal noise ratio improvement technique for bulk thermal diffusivity measurement. International Journal of Thermal Sciences, 2018, 129, 385-395.	2.6	8
20	Phonon hydrodynamics in crystalline GeTe at low temperature. Physical Review B, 2020, 102, .	1.1	8
21	The use of photothermal techniques for thermal conductivity and thermal boundary resistance measurements of phase-change chalcogenides alloys. Journal of Applied Physics, 2021, 129, .	1.1	8
22	Phonon hydrodynamics in crystalline materials. Journal of Physics Condensed Matter, 2022, 34, 323001.	0.7	8
23	Thermophysical Characterization of a CuO Thin Deposit. International Journal of Thermophysics, 2007, 28, 1563-1577.	1.0	7
24	Heat Capacity and Anisotropic Thermal Conductivity in Cr ₂ AlC Single Crystals at High Temperature. Journal of Physical Chemistry C, 2020, 124, 24017-24028.	1.5	7
25	Thermal Characterization of Diamond Films through Modulated Photothermal Radiometry. ACS Applied Materials & Interfaces, 2014, 6, 2095-2102.	4.0	6
26	Temperature-Dependent Thermal Conductivity and Interfacial Resistance of Ge ₂ Sb ₂ Te ₅ Films and Multilayers. Physica Status Solidi - Rapid Research Letters, 2022, 16, 2100507.	1.2	6
27	Thermal Diffusivity Estimation in a Picosecond Photoreflectance Experiment. Journal of Heat Transfer, 2007, 129, 756-758.	1.2	4
28	Thermal Properties of In-Sb-Te Thin Films for Phase Change Memory Application. Advances in Science and Technology, 0, , .	0.2	4
29	Effect of characteristic size on the collective phonon transport in crystalline GeTe. Physical Review Materials, 2021, 5, .	0.9	3
30	Temperature-dependent thermal characterization of Ge ₂ Sb ₂ Te ₅ and related interfaces by the photothermal radiometry technique. Journal of Physics: Conference Series, 2010, 214, 012102.	0.3	2
31	Identification of the temperature-dependent thermal boundary resistance at a metal-phase change material. Inverse Problems in Science and Engineering, 2012, 20, 941-950.	1.2	1
32	Thermal investigation of a phase change memory device at the nanoscale. Journal of Physics: Conference Series, 2016, 745, 032098.	0.3	1
33	Experimental validation of green wood peeling assisted by IR heating – some considerations of the analytical system design. Holzforschung, 2014, 68, 957-964.	0.9	0
34	Evaluation of thermal resistance at the silicon/diamond interface through infrared photothermal radiometry. , 2012, , .		0