

Jerzy Bodzenta

List of Publications by Year in descending order

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70
papers

824
citations

516681

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docs citations

75
times ranked

774
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermophysical properties of refractory W-50.4%Re and Mo-39.5%Re thin alloy layers deposited on silicon and silica substrates. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 87, 105147.	3.8	4
2	Microscopic investigations of morphology and thermal properties of ZnO thin films grown by atomic layer deposition method. <i>Ultramicroscopy</i> , 2020, 210, 112923.	1.9	17
3	Quantitative thermal measurement by the use of scanning thermal microscope and resistive thermal probes. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	13
4	Scanning thermal microscopy – a tool for thermal measurement in the nanoscale. <i>Frontiers of Nanoscience</i> , 2019, 14, 181-213.	0.6	3
5	Measuring thermal conductivity of thin films by Scanning Thermal Microscopy combined with thermal spreading resistance analysis. <i>Ultramicroscopy</i> , 2017, 175, 81-86.	1.9	23
6	Influence of probe-sample temperature difference on thermal mapping contrast in scanning thermal microscopy imaging. <i>Journal of Applied Physics</i> , 2017, 121, 114502.	2.5	7
7	Thermal characterization of metal phthalocyanine layers using photothermal radiometry and scanning thermal microscopy methods. <i>Synthetic Metals</i> , 2017, 232, 72-78.	3.9	25
8	Numerical Modeling of Photothermal Experiments on Layered Samples with Mirage-Effect Signal Detection. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	2.1	4
9	Quantitative Thermal Microscopy Measurement with Thermal Probe Driven by dc+ac Current. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	2.1	18
10	Investigations of Thermal, Optical, and Electric Properties as a Function of Composition for $\text{ZnS}_x\text{Se}_{1-x}$ Crystals. <i>International Journal of Thermophysics</i> , 2015, 36, 2486-2495.	2.1	2
11	Investigation of thermal diffusivity dependence on temperature in a group of optical single crystals doped with rare earth ions. <i>Optical Materials</i> , 2015, 45, 47-54.	3.6	15
12	Fabrication of SbSI Photonic Crystals. <i>Acta Physica Polonica A</i> , 2014, 126, 1118-1120.	0.5	5
13	Reduced thermal quadrupole heat transport modeling in harmonic and transient regime scanning thermal microscopy using nanofabricated thermal probes. <i>Journal of Applied Physics</i> , 2014, 116, 054501.	2.5	13
14	Correlation between morphology and local thermal properties of iron (II) phthalocyanine thin layers. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 335304.	2.8	14
15	Investigation of Thermal Properties of SiC Ceramics Containing Carbon Nanostructures by Photothermal Measurements. <i>International Journal of Thermophysics</i> , 2014, 35, 2328-2340.	2.1	7
16	Photothermal Measurement by the Use of Scanning Thermal Microscopy. <i>International Journal of Thermophysics</i> , 2014, 35, 2316-2327.	2.1	2
17	Thermal-Diffusivity Dependence on Temperature of Gadolinium Calcium Oxoborate Single Crystals. <i>International Journal of Thermophysics</i> , 2013, 34, 813-819.	2.1	7
18	Application of scanning microscopy to study correlation between thermal properties and morphology of BaTiO ₃ thin films. <i>Thin Solid Films</i> , 2013, 545, 217-221.	1.8	21

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19	Application of scanning thermal microscopy for investigation of thermal boundaries in multilayered photonic structures. <i>Ultramicroscopy</i> , 2013, 135, 95-98.	1.9	11
20	DC Experiments in Quantitative Scanning Thermal Microscopy. <i>International Journal of Thermophysics</i> , 2013, 34, 620-628.	2.1	17
21	Quantitative scanning thermal microscopy based on determination of thermal probe dynamic resistance. <i>Review of Scientific Instruments</i> , 2013, 84, 093702.	1.3	25
22	Determination of Thermal-Diffusivity Dependence on Temperature of YAG Single Crystals with Different Concentrations of Yb ³⁺ and V ³⁺ Doping Ions. <i>International Journal of Thermophysics</i> , 2012, 33, 707-715.	2.1	11
23	Comparative study of surface morphology of copper phthalocyanine ultra thin films deposited on Si (111) native and RCA-cleaned substrates. <i>Thin Solid Films</i> , 2012, 520, 3965-3970.	1.8	20
24	Thermal properties of compressed expanded graphite: photothermal measurements. <i>Applied Physics B: Lasers and Optics</i> , 2011, 105, 623-630.	2.2	18
25	Diamond electrophoretic microchips – Joule heating effects. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 326-330.	3.5	6
26	Photothermal methods for determination of thermal properties of bulk materials and thin films. <i>Open Physics</i> , 2010, 8, .	1.7	5
27	Analysis of Possibilities of Application of Nanofabricated Thermal Probes to Quantitative Thermal Measurements. <i>International Journal of Thermophysics</i> , 2010, 31, 150-162.	2.1	28
28	Determination of Thermal-Diffusivity Dependence on Temperature of Transparent Samples by Thermal Wave Method. <i>International Journal of Thermophysics</i> , 2010, 31, 180-186.	2.1	16
29	Analysis of influence of Yb concentration on thermal, elastic, optical and lattice parameters in YAG single crystal. <i>Journal of Alloys and Compounds</i> , 2009, 473, 245-249.	5.5	11
30	Determination of thermal, elastic, optical and lattice parameters of GdCOB single crystals doped with Nd ³⁺ and Yb ³⁺ ions. <i>Journal of Alloys and Compounds</i> , 2009, 481, 622-627.	5.5	12
31	Influence of doping on thermal diffusivity of single crystals used in photonics: measurements based on thermal wave methods. <i>Applied Optics</i> , 2009, 48, C46.	2.1	5
32	Determination of thermal conductivity of thin layers used as transparent contacts and antireflection coatings with a photothermal method. <i>Applied Optics</i> , 2009, 48, C74.	2.1	7
33	Influence of Nd dopants on lattice parameters and thermal and elastic properties in YVO ₄ single crystals. <i>Thin Solid Films</i> , 2008, 516, 8125-8129.	1.8	4
34	Photothermal measurements in determination of the thermal diffusivity of SiC. <i>European Physical Journal: Special Topics</i> , 2008, 153, 79-82.	2.6	2
35	Determination of the thermal diffusivity of pure and doped yttrium orthovanadate by Ångström's method. <i>European Physical Journal: Special Topics</i> , 2008, 153, 135-138.	2.6	1
36	Thermal diffusivity of Zn _{1-x} BexSe crystals and it's correlation with electrical conductivity and optical absorption spectra. <i>European Physical Journal: Special Topics</i> , 2008, 153, 139-142.	2.6	1

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37	Thermal wave methods in investigation of thermal properties of solids. European Physical Journal: Special Topics, 2008, 154, 305-311.	2.6	11
38	Correlation between the thermal diffusivity and the velocity of ultrasound in YVO ₄ single crystals. European Physical Journal: Special Topics, 2008, 154, 313-317.	2.6	0
39	Detector effects in photothermal deflection experiments. Applied Optics, 2008, 47, 1559.	2.1	5
40	Photodeflection signal formation in photothermal measurements: comparison of the complex ray theory, the ray theory, the wave theory, and experimental results. Applied Optics, 2007, 46, 5216.	2.1	10
41	Thermal properties of thin films and problems with their determination. Annales De Chimie: Science Des Materiaux, 2007, 32, 401-420.	0.4	4
42	Photothermal measurement with mirage effect for investigation of LiNbO ₃ single crystals. European Physical Journal Special Topics, 2006, 137, 259-263.	0.2	7
43	Experimental verification of theory of photodeflection detection based on complex geometrical optics. European Physical Journal Special Topics, 2006, 137, 305-308.	0.2	0
44	Investigation of thermal properties of SiC using photothermal method. European Physical Journal Special Topics, 2006, 137, 245-250.	0.2	2
45	Measurement of the thermal diffusivity of dental filling materials using modified Ångström's method. Dental Materials, 2006, 22, 617-621.	3.5	28
46	Investigation of Drugs Diffusion into Collodion Membranes using FTIR-ATR and Step-Scan FTIR-PAS Techniques. Instrumentation Science and Technology, 2006, 34, 107-117.	1.8	7
47	The complex ray theory of photodeflection signal formation: Comparison with the ray theory and the experimental results. Journal of Applied Physics, 2006, 100, 063501.	2.5	16
48	New approach to data analysis in modified Ångström's method. European Physical Journal Special Topics, 2006, 137, 251-257.	0.2	3
49	Photoacoustic spectroscopy application in diffusion examinations. , 2005, , .		0
50	Investigations on the resistance of the metal-free phthalocyanine and palladium bilayer sensor structure influenced by hydrogen. Sensors and Actuators B: Chemical, 2005, 105, 340-345.	7.8	3
51	Anisotropy of thermal properties of pure and doped LiNbO ₃ single crystals. European Physical Journal Special Topics, 2005, 129, 195-199.	0.2	1
52	Analysis of thermograms based on FFT algorithm. European Physical Journal Special Topics, 2005, 129, 201-205.	0.2	8
53	Thermal conductivity of AlN and AlN/GaN thin films deposited on Si and GaAs substrates. Diamond and Related Materials, 2005, 14, 1169-1174.	3.9	8
54	Influence of metallic and lanthanide dopants on the thermal diffusivity of lithium niobate crystals. European Physical Journal Special Topics, 2004, 117, 7-12.	0.2	5

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55	A new FTIR-ATR cell for drug diffusion studies. <i>Analyst, The</i> , 2004, 129, 902.	3.5	18
56	Investigation of ketoconazole diffusion into collodion membranes using step-scan FTIR-PAS technique. <i>European Physical Journal Special Topics</i> , 2004, 117, 13-16.	0.2	1
57	Palladium and phthalocyanine bilayer films for hydrogen detection in a surface acoustic wave sensor system. <i>Sensors and Actuators B: Chemical</i> , 2003, 96, 321-328.	7.8	67
58	Thermal conductivity of laser mirror coatings measured by photothermal method. <i>European Physical Journal Special Topics</i> , 2003, 109, 1-8.	0.2	4
59	Bilayer structure for hydrogen detection in a surface acoustic wave sensor system. <i>Sensors and Actuators B: Chemical</i> , 2002, 82, 265-271.	7.8	116
60	Thin palladium film as a sensor of hydrogen gas dissolved in transformer oil. <i>Sensors and Actuators B: Chemical</i> , 2002, 87, 82-87.	7.8	46
61	Photoacoustic detection of drug diffusion into a membrane: theory and numerical analysis. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 4515-4523.	4.8	7
62	Influence of Orderâ€“Disorder Transition on Thermal Conductivity of Solids. <i>Chaos, Solitons and Fractals</i> , 1999, 10, 2087-2098.	5.1	23
63	<title>Photothermal cell for measurement of thermal parameters</title>. , 1998, 3581, 278.		1
64	Parameters Estimation in Photothermal Measurements with Photodeflectional Detection. <i>Materials Science Forum</i> , 1996, 210-213, 295-302.	0.3	0
65	Photothermal Investigation of Silicon Wafers with Diamond-Like Coating. <i>Materials Science Forum</i> , 1996, 210-213, 439-446.	0.3	0
66	<title>Photothermal measurements for plates</title>. , 1995, , .		3
67	Photoacoustic imaging of ion-implanted semiconductor samples. <i>Ultrasonics</i> , 1993, 31, 315-319.	3.9	3
68	<title>Photoacoustic imaging of semiconductor structures</title>. , 1992, , .		0
69	Theoretical Description of Light Diffraction on Acoustic Pulses in Bragg's Region. <i>Physica Status Solidi (B): Basic Research</i> , 1989, 153, 573-578.	1.5	3
70	Phononâ€“Phonon Interaction in Gadoliniumâ€“Gallium Garnet Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1988, 146, 467-474.	1.5	12