

Jiri Martan

List of Publications by Year in descending order

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45
papers

590
citations

623188

14
h-index

676716

22
g-index

45
all docs

45
docs citations

45
times ranked

539
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of the wettability of graphite-based lithium-ion battery anodes by selective laser surface modification using low energy nanosecond pulses. International Journal of Advanced Manufacturing Technology, 2022, 118, 1987-1997.	1.5	8
2	Heat accumulation temperature measurement in ultrashort pulse laser micromachining. International Journal of Heat and Mass Transfer, 2021, 168, 120866.	2.5	17
3	Porous micro/nano structured oxidic titanium surface decorated with silicon monoxide. Surfaces and Interfaces, 2021, 26, 101304.	1.5	6
4	Radiation damage evolution in pure W and W-Cr-Hf alloy caused by 5ÂMeV Au ions in a broad range of dpa. Nuclear Materials and Energy, 2021, 29, 101085.	0.6	3
5	LIPSS-based functional surfaces produced by multi-beam nanostructuring with 2601 beams and real-time thermal processes measurement. Scientific Reports, 2021, 11, 22944.	1.6	19
6	Coating thickness inspection with a flash lamp and an infrared detector. , 2021, , .		0
7	Measurement of core temperature through semi-transparent polyamide 6 using scanner-integrated pyrometer in laser welding. International Journal of Heat and Mass Transfer, 2020, 146, 118814.	2.5	9
8	Performance and Accuracy of the Shifted Laser Surface Texturing Method. Micromachines, 2020, 11, 520.	1.4	12
9	Hydrophobic and antibacterial properties of laser micromachined steel surfaces. , 2020, , .		0
10	Infrared camera comparative measurement methods for thermally optical properties of materials. AIP Conference Proceedings, 2019, , .	0.3	0
11	The Role of Laser Texturing in Improving the Adhesion of Plasma Sprayed Tungsten Coatings. Journal of Thermal Spray Technology, 2019, 28, 1346-1362.	1.6	12
12	Laser surface texturing with shifted methodâ€”Functional surfaces at high speed. Journal of Laser Applications, 2019, 31, 022507.	0.8	11
13	Time-resolved temperature measurement during laser marking of stainless steel. International Journal of Heat and Mass Transfer, 2018, 125, 1061-1068.	2.5	12
14	Analysis of short wavelength infrared radiation during laser welding of plastics. Applied Optics, 2018, 57, D145.	0.9	4
15	Method for emissivity measurement of semitransparent coatings at ambient temperature. Scientific Reports, 2017, 7, 1386.	1.6	21
16	The Stamp method for processing of high noise data from infrared sensor in harsh environment. Sensors and Actuators A: Physical, 2017, 263, 480-487.	2.0	0
17	Uncertainty determination in high-temperature spectral emissivity measurement method of coatings. Applied Thermal Engineering, 2017, 124, 261-270.	3.0	16
18	Shifted laser surface texturing for bearings applications. Journal of Physics: Conference Series, 2017, 843, 012076.	0.3	13

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19	Theory and verification of a method for parameter-free laser-flash diffusivity measurement of a single-side object. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 574-584.	2.5	12
20	Picosecond Laser Surface Cleaning of AM1 Superalloy. <i>Physics Procedia</i> , 2016, 83, 249-257.	1.2	9
21	Experimental mathematical model as a generalization of sensitivity analysis of high temperature spectral emissivity measurement method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 90, 475-482.	2.5	7
22	Thermal, mechanical and electrical properties of hard B4C, BCN, ZrBC and ZrBCN ceramics. <i>Ceramics International</i> , 2016, 42, 4361-4369.	2.3	20
23	Laser scanning heating method for high-temperature spectral emissivity analyses. <i>Applied Thermal Engineering</i> , 2016, 94, 76-81.	3.0	11
24	Optical layer development for thin films thermal conductivity measurement by pulsed photothermal radiometry. <i>Review of Scientific Instruments</i> , 2015, 86, 014902.	0.6	4
25	Sensitivity analysis of high temperature spectral emissivity measurement method. <i>Infrared Physics and Technology</i> , 2015, 71, 217-222.	1.3	5
26	New experimental device for high-temperature normal spectral emissivity measurements of coatings. <i>Measurement Science and Technology</i> , 2014, 25, 095501.	1.4	40
27	Using pulsed and modulated photothermal radiometry to measure the thermal conductivity of thin films. <i>Thermochimica Acta</i> , 2013, 556, 1-5.	1.2	28
28	Non-contact charge temperature measurement on industrial continuous furnaces and steel charge emissivity analysis. <i>Infrared Physics and Technology</i> , 2013, 61, 20-26.	1.3	24
29	Composite Fillers and their Influence on Emissivity. <i>Physics Procedia</i> , 2013, 44, 262-269.	1.2	8
30	Composite fillers and their influence on emissivity. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1550-1555.	1.9	13
31	Thermal properties of cutting tool coatings at high temperatures. <i>Thermochimica Acta</i> , 2012, 539, 51-55.	1.2	57
32	On surface temperatures during high power pulsed magnetron sputtering using a hot target. <i>Surface and Coatings Technology</i> , 2011, 206, 1155-1159.	2.2	44
33	Time resolved optical methods for investigation of phase transformations in materials exposed to nanosecond laser pulses. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
34	Measurement of thermal properties of thin films up to high temperatures – Pulsed photothermal radiometry system and SiN films. <i>Review of Scientific Instruments</i> , 2010, 81, 124902.	0.6	9
35	Modeling of Thermal Spraying Heat Transfer Processes by Exodus Stochastic Method. <i>Journal of Thermal Spray Technology</i> , 2009, 18, 1014-1021.	1.6	8
36	Precise nanosecond time resolved infrared radiometry measurements of laser induced silicon phase change and melting front propagation. <i>Journal of Applied Physics</i> , 2008, 103, 084909.	1.1	11

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37	Two-detector measurement system of pulse photothermal radiometry for the investigation of the thermal properties of thin films. Journal of Applied Physics, 2007, 102, 064903.	1.1	14
38	IR Radiometry Optical System View Factor and Its Application to Emissivity Investigations of Solid and Liquid Phases. International Journal of Thermophysics, 2007, 28, 1342-1352.	1.0	8
39	Experimental mathematical model of nanosecond laser interaction with material. Applied Surface Science, 2007, 253, 3525-3532.	3.1	6
40	Coupled photo-thermal and time resolved reflectivity methods to original investigation of laser/material nanosecond interaction. , 2006, 6261, 528.		2
41	Nanosecond pulse laser melting investigation by IR radiometry and reflection-based methods. Applied Surface Science, 2006, 253, 1170-1177.	3.1	40
42	Thermal Characterization of Tungsten Thin Films by Pulsed Photothermal Radiometry. Nanoscale and Microscale Thermophysical Engineering, 2006, 10, 333-344.	1.4	18
43	Thermal properties characterization of conductive thin films and surfaces by pulsed lasers. Applied Surface Science, 2005, 247, 57-63.	3.1	27
44	The influence of emissivity on measured temperature in dependence on spectral range of IR camera detector and its approximate calculation. , 0, , .		1
45	Shifted Laser Surface Texturing (sLST) in Burst Regime. Journal of Laser Micro Nanoengineering, 0, , .	0.4	1