

# Bogusław Wiącek

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

612  
citations

623734

14  
h-index

752698

20  
g-index

79  
all docs

79  
docs citations

79  
times ranked

603  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements and simulations of transient characteristics of heat pipes. <i>Microelectronics Reliability</i> , 2006, 46, 109-115.	1.7	66
2	Dynamic thermal analysis of underground medium power cables using thermal impedance, time constant distribution and structure function. <i>Applied Thermal Engineering</i> , 2013, 60, 256-260.	6.0	29
3	New approach to thermal drift correction in microbolometer thermal cameras. <i>Quantitative InfraRed Thermography Journal</i> , 2015, 12, 184-195.	4.2	27
4	Influence of soil humidity on the thermal impedance, time constant and structure function of underground cables: A laboratory experiment. <i>Applied Thermal Engineering</i> , 2017, 113, 1444-1451.	6.0	27
5	Review on thermal image processing for passive and active thermography. , 2005, 2006, 686-9.		26
6	Thermal drift compensation method for microbolometer thermal cameras. <i>Applied Optics</i> , 2012, 51, 1788.	1.8	25
7	Steady state analysis of cooling electronic circuits using heat pipes. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2001, 24, 549-553.	1.3	23
8	Behaviour of the thermal impedance of buried power cables. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 44, 383-387.	5.5	23
9	Harmonic analysis of dynamic thermal problems in high voltage overhead transmission lines and buried cables. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 58, 199-205.	5.5	19
10	Electrothermal analysis and temperature fluctuationsâ€™ prediction of overhead power lines. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 87, 198-210.	5.5	18
11	Comparison of Fourier and wavelet analyses for defect detection in lock-in and pulse phase thermography. <i>Quantitative InfraRed Thermography Journal</i> , 2007, 4, 219-232.	4.2	16
12	A method of local magnetic loss determination in punched ferromagnetic strips. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 355, 282-288.	2.3	16
13	Thermal modelling and screening method for skin pathologies using active thermography. <i>Biocybernetics and Biomedical Engineering</i> , 2018, 38, 602-610.	5.9	16
14	Application of computer-based thermography to thermal measurements of integrated circuits and power devices. <i>Microelectronics Journal</i> , 1997, 28, 337-347.	2.0	15
15	Thermal impedances of thin plates. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 4457-4460.	4.8	15
16	Thermal signatures for breast cancer screening comparative study. , 0, , .		14
17	A THREE LAYER MODEL FOR THE THERMAL IMPEDANCE OF THE HUMAN SKIN: MODELING AND EXPERIMENTAL MEASUREMENTS. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1550044.	0.7	13
18	Optimal placement of electronic devices in forced convective cooling conditions. <i>Microelectronics Reliability</i> , 2009, 49, 1537-1545.	1.7	12

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19	Estimation of FeO content in the steel slag using infrared imaging and artificial neural network. Measurement: Journal of the International Measurement Confederation, 2018, 117, 380-389.	5.0	11
20	Investigations of Single and Multilayer Structures Using Lock-In Thermography – Possible Applications. International Journal of Occupational Safety and Ergonomics, 2005, 11, 211-215.	1.9	10
21	Raynaud’s Phenomenon and Endothelial Dysfunction in End-Stage Renal Disease Patients Treated with Hemodialysis. Kidney and Blood Pressure Research, 2005, 28, 27-31.	2.0	10
22	Active Thermography in Qualitative Evaluation of Protective Materials. International Journal of Occupational Safety and Ergonomics, 2009, 15, 363-371.	1.9	10
23	Thermal analysis of integrated spiral inductors. Infrared Physics and Technology, 2013, 56, 80-84.	2.9	10
24	Thermal impedance measurement of integrated inductors on bulk silicon substrate. Microelectronics Reliability, 2017, 73, 54-59.	1.7	10
25	Processing of EMG Signals with High Impact of Power Line and Cardiac Interferences. Applied Sciences (Switzerland), 2021, 11, 4625.	2.5	10
26	Ascertainment of fringing-effect losses in ferrite inductors with an air gap by thermal compact modelling and thermographic measurements. Applied Thermal Engineering, 2017, 124, 1447-1456.	6.0	9
27	Evaluation of the Heat Transfer Coefficient in Microcircuits From the Frequency Analysis of the Thermal Transient Response. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 260-266.	1.3	8
28	Defect detection in wire welded joints using thermography investigations. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1239-1242.	3.5	8
29	Radiative parameters of steel slag for FeO content estimation using multispectral thermography system. Quantitative InfraRed Thermography Journal, 2014, 11, 222-232.	4.2	8
30	Application of genetic algorithms for electronic devices placement in structures with heat conduction through the substrate. Microelectronics Reliability, 2011, 51, 453-459.	1.7	7
31	Evaluation of Perfusion and Thermal Parameters of Skin Tissue Using Cold Provocation and Thermographic Measurements. Metrology and Measurement Systems, 2016, 23, 373-381.	1.4	7
32	Active thermography application for solder thickness measurement in surface mounted device technology. Microelectronics Journal, 1998, 29, 223-228.	2.0	6
33	The physical properties of the surface of apparel made from flax and polyester fibres. International Journal of Clothing Science and Technology, 2003, 15, 284-294.	1.1	6
34	Thermography in psoriasis vulgaris evaluation. , 2005, 2006, 627-30.		6
35	Multilayer thermal object identification in frequency domain using IR thermography and vector fitting. International Journal of Circuit Theory and Applications, 2020, 48, 1523-1533.	2.0	6
36	Evaluation of a buried power cable's thermal behavior using phase diagrams and calculation of the phase difference between temperature and power. Applied Thermal Engineering, 2014, 70, 770-775.	6.0	5

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37	Modelling and IR measurement of the electronic substrate thermal conductivity. <i>Microelectronics Reliability</i> , 2015, 55, 138-142.	1.7	5
38	Estimation of the Inter-Yarn Channel Inlet Diameter in Textile Materials Using Structured Light 3D Micro-Scanning. <i>Fibres and Textiles in Eastern Europe</i> , 2016, 24, 88-93.	0.5	5
39	Technical challenges for the construction of a medical image database. , 2005, , .		4
40	Cooling and shielding systems for infrared detectors - requirements and limits. , 2005, 2006, 619-22.		4
41	Gas identification and estimation of its concentration in a tube using thermographic camera with diffraction grating. <i>Quantitative InfraRed Thermography Journal</i> , 2018, 15, 106-120.	4.2	4
42	Analysis of the Effect of Channel Parameters between Filaments and Single Fabric Parameters on Air Permeability, Water Vapour Resistance and Thermal Resistance. <i>Fibres and Textiles in Eastern Europe</i> , 2017, 25, 79-86.	0.5	4
43	Exact solution for optimal placement of electronic components on linear array using analytical thermal wake function. <i>Electronics Letters</i> , 2008, 44, 1216.	1.0	3
44	Numerical Analysis of Thermal Stresses in Carbon Films Obtained by the Rf Pecvd Method on the Surface of a Cannulated Screw / Analiza Numeryczna Naprezen Ciepłnych W Warstwie Węglowej Otrzymanej W Procesie Rf Pecvd Na Powierzchni Włkreta Kostnego. <i>Archives of Metallurgy and Materials</i> , 2013, 58, 77-81.	0.6	3
45	System and software for thermal images screening in medicine " application to psoriasis. <i>Quantitative InfraRed Thermography Journal</i> , 2015, 12, 127-136.	4.2	3
46	Temperature drift compensation in metrological microbolometer camera using multi sensor approach. , 0, , .		3
47	Theory and measurement of single and multilayer structures using lock-in and pulse thermography. , 2003, 5073, 505.		2
48	Fringing-Effect Losses in Inductors by Thermal Modeling and Thermographic Measurements. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 9772-9786.	7.9	2
49	Thermographic measurement and thermal modelling of air gap inductors in H-F power forward converters. , 0, , .		2
50	Determination of the heat transfer coefficient distribution. , 0, , .		2
51	Multilayer structure investigations using lock-in and pulse thermography possible applications in medicine. , 0, , .		1
52	Infrared systems for fast thermal process investigation. , 2003, 5073, 495.		1
53	Convective Cooling Evaluation of Electronic Devices using Lock-in Thermography. , 2007, , .		1
54	Electrothermal analysis of overhead power lines. , 2012, , .		1

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55	INFLUENCE OF INFRARED RADIATION ON THE HUMAN SKIN TEMPERATURE – EXPERIMENTAL DATA AND MODELING. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350025.	0.7	1
56	Macroscale heat transfer in human tissues. , 2016, , .		1
57	Application of IR thermography and thermal inverse modelling to evaluate power losses in ferromagnetic strips. Quantitative InfraRed Thermography Journal, 2018, 15, 54-67.	4.2	1
58	Dynamic thermal heat pipes analysis: Thermal impedance in start-up condition. Microelectronics Journal, 2019, 93, 104639.	2.0	1
59	Second-Harmonic Contactless Method for Measurement of RMS Current Using a Standard Infrared Camera. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	1
60	Identification of the Thermal Constants of the DPL Heat Transfer Model of a Single Layer Porous Material. , 2021, 25, 41-46.	0.1	1
61	Development of Low-Resolution, Low-Power and Low-Cost Infrared System. , 2021, 25, 47-52.	0.1	1
62	Thermal parameter extraction for screening procedure of skin pathologies based on the cold provocation. , 0, , .		1
63	Optimal Position of Buried Power Cables. Elektronika Ir Elektrotechnika, 2014, 20, .	0.8	1
64	Gas identification and estimation of its concentration in a tube using hyperspectral thermography approach. , 0, , .		1
65	The Application of NIR Spectrometer for Average Temperature Measurement in Optical Fibers Based on Spontaneous Raman Scattering for DTS Applications. , 2020, , .		1
66	Vector Analysis of Electrical Networks for Temperature Measurement of MOS Power Transistors. , 2021, 25, 83-87.	0.1	1
67	Thermal management in high-power electronics cooled down using capillary pump. , 2003, , .		0
68	Optimal Placement of Eletronic Devices in Forced Convective Cooling Conditions. , 2007, , .		0
69	Piezoelectric Transformer Efficiency Tests in a Digitally Controlled Converter Circuit. , 2007, , .		0
70	Application of genetic algorithms for electronic devices placement. Quantitative InfraRed Thermography Journal, 2008, 5, 195-209.	4.2	0
71	Cyclosporine A – treated nephrotic children show impaired vasodilatation but no autonomic neuropathy. Archives of Medical Science, 2010, 4, 573-577.	0.9	0
72	Oscillatory behaviour of transient thermal problems in microelectronics. , 2017, , .		0

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73	Separation of Natural Convection and Radiation by Changing Rotational Acceleration. , 2004, , .		0
74	The use of fractional calculus for the optimal placement of electronic components on a linear array. Facta Universitatis - Series Electronics and Energetics, 2015, 28, 77-84.	0.9	0
75	Thermographic detection of abraded pipeline walls in the industrial installations. , 0, , .		0
76	Last 25 years of IR thermography in Poland. , 0, , .		0
77	Application of IR thermography for thermal inverse modelling to evaluate the local power loss in punched ferromagnetic strips. , 0, , .		0
78	Thermal Characterization of Electronic Components Using Single-detector IR Measurement and 3D Heat Transfer Modelling. , 2020, , .		0