

Paolo Bison

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

1,615
citations

279798
23
h-index

302126
39
g-index

75
all docs

75
docs citations

75
times ranked

1277
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring of ancient buildings by the thermal method. Journal of Cultural Heritage, 2002, 3, 21-29.	3.3	176
2	Statistical analysis of IR thermographic sequences by PCA. Infrared Physics and Technology, 2004, 46, 85-91.	2.9	163
3	Thermophysical, mechanical and microstructural characterization of aged free-standing plasma-sprayed zirconia coatings. Acta Materialia, 2008, 56, 4477-4488.	7.9	84
4	Thermal Diffusivity Measurements by Photothermal and Thermographic Techniques. International Journal of Thermophysics, 2004, 25, 439-457.	2.1	78
5	Monitoring of the Scrovegni Chapel by IR thermography: Giotto at infrared. Infrared Physics and Technology, 2002, 43, 165-169.	2.9	71
6	Thermal conductivity measurements on wood materials with transient plane source technique. Thermochimica Acta, 2015, 600, 45-51.	2.7	63
7	Surface transient temperature inversion for hidden corrosion characterisation: theory and applications. International Journal of Heat and Mass Transfer, 1996, 39, 355-371.	4.8	57
8	Moisture map by IR thermography. Journal of Modern Optics, 2010, 57, 1770-1778.	1.3	56
9	Microstructural characterization of porous thermal barrier coatings by laser flash technique. Acta Materialia, 2009, 57, 3460-3471.	7.9	48
10	Thermographic inspection of TBC coated gas turbine blades: Discrimination between coating over-thicknesses and adhesion defects. Infrared Physics and Technology, 2007, 49, 281-285.	2.9	46
11	Real-Time Monitoring of Occupants's Thermal Comfort through Infrared Imaging: A Preliminary Study. Buildings, 2017, 7, 10.	3.1	46
12	Microstructural characterization of porous thermal barrier coatings by IR gas porosimetry and sintering forecasts. Acta Materialia, 2013, 61, 248-262.	7.9	45
13	Comparison of ultrasonic velocity and IR thermography for the characterisation of stones. Infrared Physics and Technology, 2004, 46, 63-68.	2.9	43
14	Delamination detection and impact damage assessment of GLARE by active thermography. International Journal of Materials and Product Technology, 2011, 41, 5.	0.2	43
15	Hidden corrosion detection in thick metallic components by transient IR thermography. Infrared Physics and Technology, 2007, 49, 234-238.	2.9	39
16	A thermographic technique for the simultaneous estimation of in-plane and in-depth thermal diffusivities of TBCs. Surface and Coatings Technology, 2011, 205, 3128-3133.	4.8	39
17	Ageing evaluation of thermal barrier coatings by thermal diffusivity. Infrared Physics and Technology, 2007, 49, 286-291.	2.9	38
18	In-depth and In-plane Thermal Diffusivity Measurements of Thermal Barrier Coatings by IR Camera: Evaluation of Ageing. International Journal of Thermophysics, 2008, 29, 2149-2161.	2.1	37

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19	Porosity detection in composite aeronautical structures. Infrared Physics and Technology, 2002, 43, 139-143.	2.9	35
20	Thermal diffusivity measurement in slabs using harmonic and one-dimensional propagation of thermal waves. International Journal of Thermal Sciences, 2004, 43, 453-463.	4.9	33
21	Monitoring of historical frescoes by timed infrared imaging analysis. Opto-electronics Review, 2015, 23, .	2.4	33
22	Corrosion Detection in Pipelines Using Infrared Thermography: Experiments and Data Processing Methods. Journal of Nondestructive Evaluation, 2016, 35, 1.	2.4	30
23	Thermal diffusivity measurement by thermographic technique for the non-destructive integrity assessment of TBCs coupons. Surface and Coatings Technology, 2010, 205, 498-505.	4.8	29
24	Thermo-physical properties of as deposited and aged thermal barrier coatings (TBC) for gas turbines: State-of-the art and advanced TBCs. Journal of the European Ceramic Society, 2018, 38, 3945-3961.	5.7	25
25	Thermal response measurement of building insulating materials by infrared thermography. Energy and Buildings, 2016, 133, 559-564.	6.7	23
26	Non-destructive thermographic monitoring of crack evolution of thermal barrier coating coupons during cyclic oxidation aging. Acta Materialia, 2011, 59, 6351-6361.	7.9	20
27	Effect of Spectral Reshaping on Frequency Modulated Thermal Wave Imaging for Non-destructive Testing and Evaluation of Steel Material. Journal of Nondestructive Evaluation, 2016, 35, 1.	2.4	20
28	Thermographic Signal Reconstruction with periodic temperature variation applied to moisture classification. Quantitative InfraRed Thermography Journal, 2011, 8, 221-238.	4.2	17
29	Thermography is cool: Defect detection using liquid nitrogen as a stimulus. NDT and E International, 2019, 102, 137-143.	3.7	15
30	Numerical Model and Experimental Analysis of the Thermal Behavior of Electric Radiant Heating Panels. Applied Sciences (Switzerland), 2018, 8, 206.	2.5	11
31	Fast estimate of solid materials thermal conductivity by IR thermography. Quantitative InfraRed Thermography Journal, 2010, 7, 17-34.	4.2	10
32	Nondestructive evaluation of delaminations in fresco plaster using transient infrared thermography. Research in Nondestructive Evaluation, 1994, 5, 257-274.	1.1	10
33	Thermal diffusivity of TBC: Results of a small round robin test and considerations about the effect of the surface preparation and the measuring approach. Surface and Coatings Technology, 2014, 258, 284-292.	4.8	9
34	High-resolution survey of buildings by lock-in IR thermography. Proceedings of SPIE, 2013, , .	0.8	8
35	Analysis of a new method of measurement and visualization of indoor conditions by infrared thermography. Review of Scientific Instruments, 2013, 84, 084906.	1.3	8
36	Thirty Years of Thermal Barrier Coatings (TBC), Photothermal and Thermographic Techniques: Best Practices and Lessons Learned. Journal of Thermal Spray Technology, 2022, 31, 716-744.	3.1	8

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37	Experimental evaluation of the optical absorption coefficient of a sandwich panel for insulated vehicles. Quantitative InfraRed Thermography Journal, 2009, 6, 207-223.	4.2	7
38	Domain derivative approach to active infrared thermography. Inverse Problems in Science and Engineering, 2010, 18, 873-889.	1.2	7
39	The Influence of the Laser Energy on the Thermal Diffusivity Evaluation of TBC by Laser Flash. Journal of Thermal Spray Technology, 2008, 17, 465-472.	3.1	6
40	Influence of Rare Earths Addition on the Properties of Al-Li Alloys. Physics of Metals and Metallography, 2019, 120, 402-409.	1.0	6
41	Seismic risk evaluation aided by IR thermography. , 2009, , .		5
42	R-value estimation by local thermographic analysis. Proceedings of SPIE, 2010, , .	0.8	5
43	IR thermography applied to the assessment of thermal conductivity of building materials. , 2010, , .		5
44	Corrosion detection on pipelines by IR thermography. Proceedings of SPIE, 2011, , .	0.8	5
45	Comparison of image processing techniques for the on-site evaluation of damaged frescoes. , 2014, , .		5
46	Pulsed Thermography for Depth Profiling in Marble Sulfation. International Journal of Thermophysics, 2015, 36, 1123-1130.	2.1	5
47	Evaluation of the Effect of Anti-Corrosion Coatings on the Thermal Resistance of Ground Heat Exchangers for Shallow Geothermal Applications. Energies, 2021, 14, 2586.	3.1	5
48	Detection of insulation flaws and thermal bridges in insulated truck box panels. Quantitative InfraRed Thermography Journal, 2017, 14, 275-284.	4.2	4
49	Multiple shots averaging in laser flash measurement. Applied Optics, 2020, 59, E72.	1.8	4
50	Comparison of some thermographic techniques applied to thermal properties characterization of porous materials. , 2012, , .		4
51	Building material characterization by using IR thermography for efficient heating systems. Proceedings of SPIE, 2008, , .	0.8	3
52	Measurement of thermophysical properties coupled with LCA assessment for the optimization of a historical building retrofit. Journal of Physics: Conference Series, 2015, 655, 012011.	0.4	3
53	Panoramic view of the heat flux inside an insulated vehicle by infrared thermography. Quantitative InfraRed Thermography Journal, 2018, 15, 68-80.	4.2	3
54	Thermographic Monitoring of Laser Cutting Machine. Proceedings (mdpi), 2019, 27, .	0.2	3

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55	Thermal properties of wood: measurements by transient plane source method in dry and wet conditions. Journal of Physics: Conference Series, 2020, 1599, 012050.	0.4	3
56	Comparing Laplace and Helmholtz approaches to identify the rear-surface profile of a plate by means of periodic thermal data. Journal of Modern Optics, 2010, 57, 1752-1758.	1.3	2
57	Emissivity Measurement of Semitransparent Textiles. Advances in Optical Technologies, 2012, 2012, 1-5.	0.8	2
58	K-value estimation on refrigerated vehicles by thermographic analysis. , 2009, , .		1
59	Mapping corrosion of metallic slab by thermography. Journal of Physics: Conference Series, 2010, 214, 012073.	0.4	1
60	Thermographic analysis of the thermal properties of wood for wooden windows. , 2013, , .		1
61	Design of a Remote Infrared Images and Other Data Acquisition Station for outdoor applications. Proceedings of SPIE, 2013, , .	0.8	1
62	Comparison of the insulation property of an innovative material and a traditional one by infrared thermography. Proceedings of SPIE, 2015, , .	0.8	1
63	Thermal conductivity characterization of polyaniline doped material for thermoelectric applications. Proceedings of SPIE, 2017, , .	0.8	1
64	Evaluation of Moisture Diffusion by IR Thermography. Engineering Proceedings, 2021, 8, 23.	0.4	1
65	A hybrid, infrared thermography: heat diffusion equation, method for the 3D air-temperature measurement. Proceedings of SPIE, 2011, , .	0.8	0
66	Sportswear textiles emissivity measurement: comparison of IR thermography and emissometry techniques. , 2012, , .		0
67	Thermographic measurement of thermal bridges in buildings under dynamic behavior. Proceedings of SPIE, 2016, , .	0.8	0
68	IR thermography for the assessment of the thermal conductivity of aluminum alloys. , 2017, , .		0
69	Multiple Shots Averaging in Laser Flash Measurement. Proceedings (mdpi), 2019, 27, 21.	0.2	0
70	15th International Workshop on Advanced Infrared Technology and Applications (AITA). Proceedings (mdpi), 2019, 27, .	0.2	0
71	Study of behaviour of S235â€”S460 structural steel elements cut using laser processes. Ce/Papers, 2021, 4, 1113-1117.	0.3	0
72	Calibration of thermal nondestructive testing methods on mock-up historic masonry. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	Thermal conductivity of refractory coatings for foundry applications. , 2019, , .		0
74	Statement of Peer Review. Engineering Proceedings, 2021, 8, 35.	0.4	0
75	16th International Workshop on Advanced Infrared Technology and Applications (AITA 2021). Engineering Proceedings, 2022, 8, .	0.4	0