

# Paolo Bison

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6694638/publications.pdf>

Version: 2024-02-01

75  
papers

1,615  
citations

279778

23  
h-index

302107

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

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

#	ARTICLE	IF	CITATIONS
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

#	ARTICLE	IF	CITATIONS
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€460 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