

Carosena Meola

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/735475/publications.pdf>

Version: 2024-02-01

115
papers

2,990
citations

201674

27
h-index

182427

51
g-index

119
all docs

119
docs citations

119
times ranked

2332
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in the use of infrared thermography. <i>Measurement Science and Technology</i> , 2004, 15, R27-R58.	2.6	426
2	Nondestructive evaluation of carbon fibre reinforced composites with infrared thermography and ultrasonics. <i>Composite Structures</i> , 2015, 134, 845-853.	5.8	147
3	Impact damage in GFRP: New insights with infrared thermography. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1839-1847.	7.6	145
4	Non-destructive evaluation of aerospace materials with lock-in thermography. <i>Engineering Failure Analysis</i> , 2006, 13, 380-388.	4.0	113
5	Infrared thermography to evaluate impact damage in glass/epoxy with manufacturing defects. <i>International Journal of Impact Engineering</i> , 2014, 67, 1-11.	5.0	102
6	A survey on infrared thermography for convective heat transfer measurements. <i>Optics and Laser Technology</i> , 2000, 32, 593-610.	4.6	92
7	Non-destructive control of industrial materials by means of lock-in thermography. <i>Measurement Science and Technology</i> , 2002, 13, 1583-1590.	2.6	85
8	Comparison between pulsed and modulated thermography in glass-epoxy laminates. <i>NDT and E International</i> , 2002, 35, 287-292.	3.7	79
9	The use of infrared thermography for materials characterization. <i>Journal of Materials Processing Technology</i> , 2004, 155-156, 1132-1137.	6.3	79
10	Comparison between thermographic techniques for frescoes NDT. <i>NDT and E International</i> , 2002, 35, 559-565.	3.7	72
11	The role of interface strength on the low velocity impact behaviour of PP/glass fibre laminates. <i>Composites Part B: Engineering</i> , 2014, 62, 88-96.	12.0	72
12	Impact damaging of composites through online monitoring and non-destructive evaluation with infrared thermography. <i>NDT and E International</i> , 2017, 85, 34-42.	3.7	70
13	Application of infrared thermography and geophysical methods for defect detection in architectural structures. <i>Engineering Failure Analysis</i> , 2005, 12, 875-892.	4.0	69
14	Infrared thermography of masonry structures. <i>Infrared Physics and Technology</i> , 2007, 49, 228-233.	2.9	67
15	Geometrical Limitations to Detection of Defects in Composites by Means of Infrared Thermography. <i>Journal of Nondestructive Evaluation</i> , 2004, 23, 125-132.	2.4	62
16	The use of infrared thermography for nondestructive evaluation of joints. <i>Infrared Physics and Technology</i> , 2004, 46, 93-99.	2.9	54
17	A new approach for estimation of defects detection with infrared thermography. <i>Materials Letters</i> , 2007, 61, 747-750.	2.6	53
18	Application of infrared thermography to adhesion science. <i>Journal of Adhesion Science and Technology</i> , 2006, 20, 589-632.	2.6	49

#	ARTICLE	IF	CITATIONS
19	Influence of shear layer dynamics on impingement heat transfer. <i>Experimental Thermal and Fluid Science</i> , 1996, 13, 29-37.	2.7	47
20	Infrared thermography of impact-driven thermal effects. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 759-762.	2.3	46
21	Convective heat transfer by a row of jets impinging on a concave surface. <i>International Journal of Thermal Sciences</i> , 2014, 75, 153-163.	4.9	46
22	A New Correlation of Nusselt Number for Impinging Jets. <i>Heat Transfer Engineering</i> , 2009, 30, 221-228.	1.9	42
23	Integration of infrared thermography and high-frequency electromagnetic methods in archaeological surveys. <i>Journal of Geophysics and Engineering</i> , 2011, 8, S93-S105.	1.4	33
24	Azimuthal instability in an impinging jet: adiabatic wall temperature distribution. <i>Experiments in Fluids</i> , 1995, 18, 303-310.	2.4	32
25	New perspectives on impact damaging of thermoset- and thermoplastic-matrix composites from thermographic images. <i>Composite Structures</i> , 2016, 152, 746-754.	5.8	32
26	Effects of interface strength gradation on impact damage mechanisms in polypropylene/woven glass fabric composites. <i>Composites Part B: Engineering</i> , 2016, 90, 179-187.	12.0	29
27	Infrared Thermography Basics. , 2017, , 57-83.		27
28	Surfactant effects on the dynamics of a thin liquid sheet. <i>Journal of Fluid Mechanics</i> , 1995, 300, 71-85.	3.4	26
29	Infrared thermography and geophysical techniques in cultural heritage conservation. <i>Quantitative InfraRed Thermography Journal</i> , 2005, 2, 5-24.	4.2	25
30	Flash Thermography to Evaluate Porosity in Carbon Fiber Reinforced Polymer (CFRPs). <i>Materials</i> , 2014, 7, 1483-1501.	2.9	25
31	Analysis of stainless steel welded joints: a comparison between destructive and non-destructive techniques. <i>Journal of Materials Processing Technology</i> , 2004, 155-156, 1893-1899.	6.3	24
32	Infrared Thermography in the Architectural Field. <i>Scientific World Journal</i> , The, 2013, 2013, 1-8.	2.1	24
33	Measurements of very small temperature variations with LWIR QWIP infrared camera. <i>Infrared Physics and Technology</i> , 2015, 72, 195-203.	2.9	23
34	Characterization of piezoresistive properties of graphene-supported polymer coating for strain sensor applications. <i>Sensors and Actuators A: Physical</i> , 2016, 252, 26-34.	4.1	23
35	Ultrasonic and IR Thermographic Detection of a Defect in a Multilayered Composite Plate. <i>Procedia Engineering</i> , 2016, 167, 71-79.	1.2	22
36	Composite Materials in the Aeronautical Industry. , 2017, , 1-24.		22

#	ARTICLE	IF	CITATIONS
37	MULTIDIMENSIONAL SINGLE-STEP VECTOR UPWIND SCHEMES FOR HIGHLY CONVECTIVE TRANSPORT PROBLEMS. Numerical Heat Transfer, Part B: Fundamentals, 1993, 23, 425-460.	0.9	21
38	Location and Geometry of Defects in Composite Laminates from Infrared Images. Journal of Materials Engineering and Performance, 1998, 7, 367-374.	2.5	19
39	Evaluation of impact-affected areas of glass fibre thermoplastic composites from thermographic images. Measurement Science and Technology, 2016, 27, 075602.	2.6	19
40	Infrared thermography in the quality assurance of manufacturing systems. Nondestructive Testing and Evaluation, 2002, 18, 83-90.	2.1	18
41	Experimental Evaluation of Properties of Cross-Linked Polyethylene. Materials and Manufacturing Processes, 2003, 18, 135-144.	4.7	18
42	Nondestructive Evaluation of Materials With Rear Heating Lock-In Thermography. IEEE Sensors Journal, 2007, 7, 1388-1389.	4.7	18
43	Infrared thermography to detect residual ceramic in gas turbine blades. Applied Physics A: Materials Science and Processing, 2008, 91, 685-691.	2.3	18
44	Analysis of Defective Carbon-Epoxy by Means of Lock-in Thermography. Research in Nondestructive Evaluation, 2000, 12, 241-250.	1.1	16
45	Infrared thermography to evaluate thermoplastic composites under bending load. Composite Structures, 2015, 134, 900-904.	5.8	16
46	Infrared thermography for monitoring heat generation in a linear friction welding process of Ti6Al4V alloy. Infrared Physics and Technology, 2017, 81, 325-338.	2.9	16
47	Non-destructive evaluation of bonded structures with lock-in thermography. Journal of Adhesion Science and Technology, 2003, 17, 1207-1222.	2.6	15
48	Infrared thermography and ultrasonics to evaluate composite materials for aeronautical applications. Journal of Physics: Conference Series, 2015, 658, 012007.	0.4	15
49	Monitoring Composites under Bending Tests with Infrared Thermography. Advances in Optical Technologies, 2012, 2012, 1-7.	0.8	14
50	Lock-In Thermography and Ultrasonic Testing of Impacted Basalt Fibers Reinforced Thermoplastic Matrix Composites. Applied Sciences (Switzerland), 2019, 9, 3025.	2.5	13
51	Infrared thermography as a tool for thermal surface flow visualization. Journal of Visualization, 1998, 1, 37-50.	1.8	12
52	New Insights for Conservation of Villa Imperiale (Pompeii, Italy) Through Nondestructive Exploration. International Journal of Architectural Heritage, 2012, 6, 562-578.	3.1	12
53	Comparison between tungsten and steel polypectomy snares: evaluation of depth of colonic thermal wall injury in a pig model. Endoscopy, 2013, 45, 121-126.	1.8	12
54	Porosity Distribution in Composite Structures with Infrared Thermography. Journal of Composites, 2013, 2013, 1-8.	0.8	12

#	ARTICLE	IF	CITATIONS
55	A quantitative approach to retrieve delamination extension from thermal images recorded during impact tests. <i>NDT and E International</i> , 2018, 100, 142-152.	3.7	12
56	Modelling of the homogeneous turbulence dynamics of stably stratified media. <i>International Journal of Heat and Mass Transfer</i> , 1993, 36, 1953-1968.	4.8	11
57	Using infrared thermography to analyze substrate and adhesive effects in bonded structures. <i>Journal of Adhesion Science and Technology</i> , 2004, 18, 617-634.	2.6	11
58	Application of lock-in thermography in nondestructive evaluation of adhesively-bonded aluminum joints. <i>Journal of Adhesion Science and Technology</i> , 2004, 18, 635-654.	2.6	10
59	Porosity and Inclusion Detection in CFRP by Infrared Thermography. <i>Advances in Optical Technologies</i> , 2012, 2012, 1-6.	0.8	10
60	Evaluation of polypropylene based composites from thermal effects developing under cyclic bending tests. <i>Composite Structures</i> , 2017, 182, 628-635.	5.8	10
61	The contribution of infrared thermography in the characterization of jute based composites. <i>Composite Structures</i> , 2018, 190, 119-126.	5.8	10
62	Chemical and Irradiation Cross-Linking of Polyethylene. Technological Performance over Costs. <i>Polymer-Plastics Technology and Engineering</i> , 2004, 43, 631-648.	1.9	9
63	Detection of Delamination in Carbon-Fibre-Reinforced Polymers with Lock-In Thermography. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2010, 224, 1219-1227.	1.3	9
64	On the use of lock-in thermography to monitor delamination growth in composite panels under compression. <i>Science and Engineering of Composite Materials</i> , 2014, 21, 485-492.	1.4	9
65	Nondestructive Testing With Infrared Thermography. , 2017, , 85-125.		9
66	Basic temperature correction of QWIP cameras in thermoelastic/plastic tests of composite materials. <i>Applied Optics</i> , 2016, 55, D87.	2.1	8
67	Graphene-polymer coating for the realization of strain sensors. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 21-27.	2.8	8
68	Infrared Thermography for Inline Monitoring of Glass/Epoxy under Impact and Quasi-Static Bending. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 301.	2.5	8
69	Inline monitoring of basalt-based composites under impact tests. <i>Composite Structures</i> , 2019, 210, 152-158.	5.8	8
70	Technological characterisation of thermoshirking cross-linked polyethylene by destructive and non-destructive techniques. <i>Journal of Materials Processing Technology</i> , 2003, 133, 353-358.	6.3	7
71	NONDESTRUCTIVE CONTROL OF POLYETHYLENE BLANKET INSULATION BY MEANS OF LOCK-IN THERMOGRAPHY. <i>Research in Nondestructive Evaluation</i> , 2004, 15, 55-63.	1.1	7
72	Non-destructive testing of a carbon-nanotube-reinforced composite using HTS-SQUID and electromagnetic techniques. <i>Superconductor Science and Technology</i> , 2009, 22, 095001.	3.5	7

#	ARTICLE	IF	CITATIONS
73	Infrared thermography to locate impact damage in thin and thicker carbon/epoxy panels. <i>Polymer Engineering and Science</i> , 2017, 57, 657-664.	3.1	7
74	Composite material overview and its testing for aerospace components. , 2018, , 69-108.		7
75	NonDestructive Evaluation of Carbon Fiber Reinforced Polymers with Ultrasonics and Infrared Thermography: An Overview on Historical Steps and Patents. <i>Recent Patents on Materials Science</i> , 2012, 5, 48-67.	0.5	7
76	A statistical turbulent reacting flow model. <i>International Journal of Heat and Mass Transfer</i> , 1987, 30, 517-526.	4.8	6
77	Analysis of Composites with Infrared Thermography. <i>Macromolecular Symposia</i> , 2005, 228, 273-286.	0.7	6
78	Infrared thermography for non-destructive evaluation of thermoplastic composites. , 2014, , .		6
79	NDT of polymer nanocomposite for structural applications using electromagnetic techniques. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2012, 39, 363-368.	0.6	5
80	Non-destructive evaluation (NDE) of aerospace composites: detecting impact damage. , 2013, , 367-396.		5
81	Monitoring impact damaging of thermoplastic composites. <i>Journal of Physics: Conference Series</i> , 2015, 658, 012005.	0.4	5
82	In-line monitoring of jute fiber reinforced poly(lactic acid) composite subjected to impact loading using infrared thermography. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45579.	2.6	5
83	Nondestructive Testing in Composite Materials. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5123.	2.5	5
84	Non-smooth evolutive laws in multisurface elastoplasticity with experimental evidence by infrared thermography. <i>Composite Structures</i> , 2021, 265, 113156.	5.8	5
85	Infrared thermography to monitor composites under bending tests. , 2014, , .		5
86	Visualization of Thermal Effects in Polypropylene-based Composites under Cyclic Bending Tests. <i>Procedia Engineering</i> , 2016, 167, 270-275.	1.2	4
87	Infrared thermography to impact damaging of composite materials. , 2017, , .		4
88	Experimental technologies comparison for strain measurement of a composite main landing gear bay specimen. , 2018, , .		4
89	Monitoring of impact damage in Carbon Fibre Reinforced Polymers. , 2012, , .		4
90	Post-processing of time-sequences acquired during impact tests with the aid of a reference area. , 0, , .		4

#	ARTICLE	IF	CITATIONS
91	An Excursus on Infrared Thermography Imaging. Journal of Imaging, 2016, 2, 36.	3.0	3
92	Visualization of impact damaging of carbon/epoxy panels. AIP Conference Proceedings, 2016, , .	0.4	3
93	Lock-in Thermography for Non-destructive Testing of 3D Printed PLA Items. Lecture Notes in Electrical Engineering, 2020, , 149-155.	0.4	3
94	On the critical problem of F. D. pressure treatment for laminar flows confined by permeable walls. International Journal for Numerical Methods in Fluids, 1984, 4, 1027-1041.	1.6	2
95	Stream-function based multiple Bluff Bodies 2D flow analysis. Journal of Wind Engineering and Industrial Aerodynamics, 1993, 50, 49-60.	3.9	2
96	NonDestructive Evaluation of Carbon Fiber Reinforced Polymers with Ultrasonics and Infrared Thermography: An Overview on Historical Steps and Patents. Recent Patents on Materials Science, 2012, 5, 48-67.	0.5	2
97	Nondestructive Testing and Evaluation: Overview. , 2016, , .		2
98	Lock-in thermography for investigation of impact damage in hybrid polypropylene/glass composites. IEEE Aerospace and Electronic Systems Magazine, 2016, 31, 26-30.	1.3	2
99	Nondestructive Evaluation. , 2017, , 25-56.		2
100	Remote inline monitoring of thermal effects coupled with bending stresses of glass fibres composites. Composites Part B: Engineering, 2019, 174, 107042.	12.0	2
101	Analysis of Defective Carbon-Epoxy by Means of Lock-in Thermography. Research in Nondestructive Evaluation, 2000, 12, 241-250.	1.1	2
102	On the relation between the entropy balance and the numerical solutions of systems of conservation laws. International Journal for Numerical Methods in Fluids, 1997, 25, 825-845.	1.6	1
103	Infrared Thermography to an Aluminium Foam Sandwich Structure Subjected to Low Velocity Impact Tests. Procedia Engineering, 2016, 167, 23-29.	1.2	1
104	The role of polypropylene matrix in cyclic bending coupled thermal effects. Polymer Engineering and Science, 2017, 57, 680-684.	3.1	1
105	Nondestructive Evaluation of Fiber Reinforced Polymers with Lockin Thermography. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 207-213.	0.5	1
106	Monitoring Materials Under Impact with Infrared Thermography. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 177-185.	0.5	1
107	On numerical flux evaluation using coupled reconstruction based on entropic redundant variables. International Journal for Numerical Methods in Fluids, 2005, 47, 947-953.	1.6	0
108	Lock-in termography for investigation of impact damage in hybrid polypropylene/glass composites: LT to hybrid thermoplastic composites. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
109	Monitoring thermoplastic composites under cyclic bending tests. AIP Conference Proceedings, 2016, , .	0.4	0
110	Monitoring Load Events. , 2017, , 127-160.		0
111	The Added Value of Infrared Thermography to Assess the Impact Performance of Composites. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2018, 1, .	0.9	0
112	The Contribution of Infrared Thermography in the Characterization of Glass/Epoxy Laminates through Remote Sensing of Thermal-Stress Coupled Effects. Proceedings (mdpi), 2019, 15, .	0.2	0
113	Getting Information on Impact Damage of Carbon Fibre-Reinforced Composites from Thermal Signature Evolution. Aerotecnica Missili & Spazio, 2019, 98, 247-256.	0.9	0
114	Health Monitoring of Brushless Motors for Unmanned Aircraft Systems Through Infrared Thermography. Lecture Notes in Electrical Engineering, 2021, , 69-75.	0.4	0
115	The Added Value of Infrared Thermography to Impact Damaging Assessment of Carbon Fibre Reinforced Composites. NDT World, 2016, 19, 49-53.	0.1	0