

Nicolas Peter Avdelidis

List of Publications by Year in descending order

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34
papers

825
citations

566801

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h-index

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all docs

34
docs citations

34
times ranked

743
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Study of Active Thermography Techniques for the Nondestructive Evaluation of Honeycomb Structures. <i>Research in Nondestructive Evaluation</i> , 2009, 20, 1-31.	0.5	226
2	Optical and Mechanical Excitation Thermography for Impact Response in Basalt-Carbon Hybrid Fiber-Reinforced Composite Laminates. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 514-522.	7.2	81
3	Digital Twin Analysis to Promote Safety and Security in Autonomous Vehicles. <i>IEEE Communications Standards Magazine</i> , 2021, 5, 40-46.	3.6	61
4	Application of NDT thermographic imaging of aerospace structures. <i>Infrared Physics and Technology</i> , 2019, 97, 456-466.	1.3	52
5	Delamination detection and impact damage assessment of GLARE by active thermography. <i>International Journal of Materials and Product Technology</i> , 2011, 41, 5.	0.1	43
6	Quantitative analysis of plastered mosaics by means of active infrared thermography. <i>Construction and Building Materials</i> , 2014, 73, 417-425.	3.2	38
7	Drone-Based Non-Destructive Inspection of Industrial Sites: A Review and Case Studies. <i>Drones</i> , 2021, 5, 106.	2.7	38
8	Thermography data fusion and nonnegative matrix factorization for the evaluation of cultural heritage objects and buildings. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 943-955.	2.0	35
9	Multispectral Applications of Infrared Thermography in the Diagnosis and Protection of Built Cultural Heritage. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 284.	1.3	34
10	Comparison of Cooled and Uncooled IR Sensors by Means of Signal-to-Noise Ratio for NDT Diagnostics of Aerospace Grade Composites. <i>Sensors</i> , 2020, 20, 3381.	2.1	34
11	Thermographic Non-Destructive Evaluation for Natural Fiber-Reinforced Composite Laminates. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 240.	1.3	20
12	How to Retrieve Information Inherent to Old Restorations Made on Frescoes of Particular Artistic Value Using Infrared Vision?. <i>International Journal of Thermophysics</i> , 2015, 36, 3051-3070.	1.0	18
13	Evaluation of the state of conservation of mosaics: Simulations and thermographic signal processing. <i>International Journal of Thermal Sciences</i> , 2017, 117, 287-315.	2.6	18
14	Quantitative inspection of non-planar composite specimens by pulsed phase thermography. <i>Quantitative InfraRed Thermography Journal</i> , 2006, 3, 25-40.	2.1	15
15	Enhanced Infrared Image Processing for Impacted Carbon/Glass Fiber-Reinforced Composite Evaluation. <i>Sensors</i> , 2018, 18, 45.	2.1	15
16	Impact Modelling and A Posteriori Non-destructive Evaluation of Homogeneous Particleboards of Sugarcane Bagasse. <i>Journal of Nondestructive Evaluation</i> , 2018, 37, 1.	1.1	13
17	Development of a thermal excitation source used in an active thermographic UAV platform. <i>Quantitative InfraRed Thermography Journal</i> , 2023, 20, 198-229.	2.1	13
18	Inspection of Aircraft Wing Panels Using Unmanned Aerial Vehicles. <i>Sensors</i> , 2019, 19, 1824.	2.1	11

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19	On the Use of Infrared Thermography and Acousto-Ultrasonics NDT Techniques for Ceramic-Coated Sandwich Structures. <i>Energies</i> , 2019, 12, 2537.	1.6	9
20	Nondestructive Assessment of Glass Fibre Composites by Mid-Wave and Near Infrared Vision. <i>Materials Transactions</i> , 2012, 53, 601-603.	0.4	7
21	A Comparative Study of Enhanced Infrared Image Processing for Foreign Object Detection in Lightweight Composite Honeycomb Structures. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	6
22	Evaluation and Selection of Video Stabilization Techniques for UAV-Based Active Infrared Thermography Application. <i>Sensors</i> , 2021, 21, 1604.	2.1	6
23	Defects Recognition Algorithm Development from Visual UAV Inspections. <i>Sensors</i> , 2022, 22, 4682.	2.1	6
24	Non-destructive imaging of marqueteries based on a new infrared-terahertz fusion technique. <i>Infrared Physics and Technology</i> , 2022, 125, 104277.	1.3	6
25	Assessment of Cleaning Conservation Interventions on Architectural Surfaces Using an Integrated Methodology. <i>Materials Research Society Symposia Proceedings</i> , 2002, 712, 251.	0.1	4
26	A novel optical air-coupled ultrasound NDE sensing technique compared with infrared thermographic NDT on impacted composite materials. , 2018, , .		4
27	Diagnosis of composite materials in aircraft applications: towards a UAV active thermography inspection approach. , 2021, , .		3
28	Automated Aircraft Dent Inspection via a Modified Fourier Transform Profilometry Algorithm. <i>Sensors</i> , 2022, 22, 433.	2.1	3
29	Non-Destructive Techniques for the Characterization of Structural Materials: Materials Science & Engineering Curriculum for the Education of an Innovative Model. <i>Materials Research Society Symposia Proceedings</i> , 2002, 760, 1.	0.1	2
30	Damage Detectability on Aluminum Alloy Panels Under Composite Patching by Various NDT Techniques. <i>Materials Research Society Symposia Proceedings</i> , 2001, 699, 231.	0.1	1
31	IR Thermography as a Non-destructive Tool for Materials Characterisation and Structural Assessment of Buildings and Historic Structures. , 2018, , 71-78.		1
32	Nondestructive evaluation using eddy current pulsed thermographic imaging of basalt-carbon hybrid fiber-reinforced composite laminates subjected to low-velocity impact loadings. , 2018, , .		1
33	Automatic Segmentation of Aircraft Dents in Point Clouds (SAE Paper 2022-01-0022). , 0, , .		1
34	Autonomous systems thermographic NDT of composite structures. , 2019, , .		0