Paulo J. Tavares

List of Publications by Year
in descending order

73	1,159	361413	434195
papers	citations	20 h-index	31 g-index

77	77	77	917
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crack tip monitoring by multiscale optical experimental techniques. International Journal of Fatigue, 2022, 155, 106610.	5.7	12
2	Electronic Speckle Pattern Interferometry for fatigue crack monitoring. Procedia Structural Integrity, 2022, 37, 873-879.	0.8	3
3	Displacement monitoring of a pedestrian bridge using 3D digital image correlation. Procedia Structural Integrity, 2022, 37, 880-887.	0.8	4
4	Displacement monitoring of crossbeams in an airport runway extension using digital image correlation. Procedia Structural Integrity, 2022, 37, 159-166.	0.8	1
5	Advancement on optical methods in stress dead-zone characterisation and SIF evaluation. Engineering Failure Analysis, 2022, 140, 106493.	4.0	3
6	Material characterization and damage assessment of an AA5352 aluminium alloy using digital image correlation. Journal of Strain Analysis for Engineering Design, 2020, 55, 3-19.	1.8	12
7	Experimental and Numerical Analysis of Deformation in a Rotating RC Helicopter Blade. International Journal of Turbomachinery, Propulsion and Power, 2020, 5, 13.	1.1	1
8	Damage detection in rotating objects using position-triggered thermography. Engineering Failure Analysis, 2020, 115, 104642.	4.0	2
9	A railway tunnel structural monitoring methodology proposal for predictive maintenance. Structural Control and Health Monitoring, 2020, 27, e2587.	4.0	24
10	Development of a mini-tensile approach for sheet metal testing using Digital Image Correlation. Procedia Structural Integrity, 2020, 25, 316-323.	0.8	9
11	Strain-rate sensitivity of electrically modified carbon/epoxy composites under dynamic compressive loading. Procedia Structural Integrity, 2020, 28, 1664-1672.	0.8	1
12	A Novel Analytical Solution on the Mode I SIF for Finite Plates with Slanted Cracks. Procedia Structural Integrity, 2020, 28, 218-225.	0.8	1
13	New Approaches on the Stress Intensity Factor Characterization - Review. Procedia Structural Integrity, 2020, 28, 226-233.	0.8	4
14	Thermomechanical characterization of Alclad AA2024-T3 aluminum alloy using split Hopkinson tension bar. Mechanics of Materials, 2019, 139, 103198.	3.2	18
15	Experimental measurement of bridge deflection using Digital Image Correlation. Procedia Structural Integrity, 2019, 17, 806-811.	0.8	11
16	Displacement analysis of rotating RC helicopter blade using coupled CFD-FEA simulation and digital image correlation. Procedia Structural Integrity, 2019, 17, 812-821.	0.8	8
17	Development of LED-based illumination system for high-speed digital image correlation. Procedia Structural Integrity, 2019, 17, 828-834.	0.8	3
18	Oxidative Treatment of Multi-Walled Carbon Nanotubes and its Effect on the Mechanical and Electrical Properties of Green Epoxy based Nano-Composites. Procedia Structural Integrity, 2019, 17, 857-864.	0.8	2

#	ARTICLE	IF	CITATIONS
19	Application of 3D electronic speckle pattern interferometry for the analysis of thermal response in printed circuit boards. Procedia Structural Integrity, 2019, 17, 835-842.	0.8	3
20	Digital image correlation with a moving camera using structure from motion calibration. Procedia Structural Integrity, 2019, 17, 986-991.	0.8	4
21	Geometry Acquisition and 3D Modelling of a Wind Tower using a 3D Laser Scanning Technology. Procedia Structural Integrity, 2019, 17, 712-717.	0.8	3
22	A coupled 3D laser scanning and digital image correlation system for geometry acquisition and deformation monitoring of a railway tunnel. Tunnelling and Underground Space Technology, 2019, 91, 102995.	6.2	65
23	Concept of stress dead zone in cracked plates: Theoretical, experimental, and computational studies. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2457-2467.	3.4	10
24	Elastoplastic response and failure assessment of steel alloys: Empirical and computational analyses. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1247-1261.	3.4	11
25	Extending radial point interpolating meshless methods to the elasto-plastic analysis of aluminium alloys. Engineering Analysis With Boundary Elements, 2019, 100, 101-117.	3.7	33
26	Fatigue behaviour evaluation of dissimilar polymer joints: Friction stir welded, single and double-rivets. International Journal of Fatigue, 2018, 113, 351-358.	5.7	20
27	Advanced image based methods for structural integrity monitoring: Review and prospects. AIP Conference Proceedings, 2018, , .	0.4	2
28	Digital image correlation displacement measurement of a rotating RC helicopter blade. Engineering Failure Analysis, 2018, 90, 371-379.	4.0	22
29	Multi-axis force measurements of polymer friction stir welding. Journal of Materials Processing Technology, 2018, 256, 51-56.	6.3	21
30	Compact tension fracture specimen: Experimental and computational implementations on stress intensity factor. Journal of Strain Analysis for Engineering Design, 2018, 53, 630-647.	1.8	20
31	A digital image correlation analysis on a sheet AA6061-T6 bi-failure specimen to predict static failure. Engineering Failure Analysis, 2018, 90, 179-196.	4.0	18
32	Parameter optimisation of friction stir welded dissimilar polymers joints. International Journal of Advanced Manufacturing Technology, 2018, 94, 1759-1770.	3.0	21
33	Robust reference system for Digital Image Correlation camera recalibration in fieldwork. Procedia Structural Integrity, 2018, 13, 1993-1998.	0.8	2
34	Digital image correlation through image registration in the frequency domain. Journal of Strain Analysis for Engineering Design, 2018, 53, 575-583.	1.8	8
35	Polyethylene friction stir welding parameter optimization and temperature characterization. International Journal of Advanced Manufacturing Technology, 2018, 99, 127-136.	3.0	20
36	Correction of rigid body motion in deformation measurement of rotating objects. Measurement: Journal of the International Measurement Confederation, 2018, 129, 436-444.	5.0	7

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37	A nonlinear simulation of a bi-failure specimen through improved discretisation methods: A validation study. Journal of Strain Analysis for Engineering Design, 2018, 53, 616-629.	1.8	6
38	Stress intensity factor calculation through thermoelastic stress analysis, finite element and RPIM meshless method. Engineering Fracture Mechanics, 2017, 183, 66-78.	4.3	41
39	An Elasto-plastic Analysis of a DP600 Bi-Failure Specimen: Digital Image Correlation, Finite Element and Meshless Methods. Procedia Structural Integrity, 2017, 5, 1237-1244.	0.8	7
40	Fatigue Life Assessment of Friction Stir welded Dissimilar Polymers. Procedia Structural Integrity, 2017, 5, 1433-1438.	0.8	8
41	On the optimal shape parameters of distinct versions of RBF meshless methods for the bending analysis of plates. Engineering Analysis With Boundary Elements, 2017, 84, 77-86.	3.7	14
42	An Optimized RBF Analysis of an Isotropic Mindlin Plate in Bending. Procedia Structural Integrity, 2017, 5, 584-591.	0.8	3
43	Displacement measurement and shape acquisition of an RC helicopter blade using Digital Image Correlation. Procedia Structural Integrity, 2017, 5, 1253-1259.	0.8	19
44	A DFT-based method for 3D digital image correlation. Procedia Structural Integrity, 2017, 5, 1260-1266.	0.8	2
45	A Fracture Mechanics Study of a Compact Tension Specimen: Digital Image Correlation, Finite Element and Meshless Methods. Procedia Structural Integrity, 2017, 5, 920-927.	0.8	24
46	On the Non-linear Elasto-Plastic Behavior of AA6061-T6: Experimental and Numerical Implementations. Procedia Structural Integrity, 2017, 5, 468-475.	0.8	8
47	A GTN Failure Analysis of an AA6061-T6 Bi-Failure Specimen. Procedia Structural Integrity, 2017, 5, 981-988.	0.8	11
48	Material properties of 2024-T3 ALCLAD and 2124-T851 aluminum alloys using 2D and 3D Digital Image Correlation techniques. Procedia Structural Integrity, 2017, 5, 1355-1362.	0.8	6
49	Friction stir welding tooling for polymers: review and prospects. International Journal of Advanced Manufacturing Technology, 2017, 89, 1677-1690.	3.0	67
50	Dispersion and failure analysis of PLA, PLA/GNP and PLA/CNT-COOH biodegradable nanocomposites by SEM and DIC inspection. Engineering Failure Analysis, 2017, 71, 63-71.	4.0	25
51	Crack Closure Effects on Fatigue Crack Propagation Rates: Application of a Proposed Theoretical Model. Advances in Materials Science and Engineering, 2016, 2016, 1-11.	1.8	49
52	Train passenger car floor panel testing using digital image correlation and strain gauges and comparison with finite element modelling. Engineering Failure Analysis, 2016, 69, 108-121.	4.0	6
53	Fatigue life prediction based on an equivalent initial flaw size approach and a new normalized fatigue crack growth model. Engineering Failure Analysis, 2016, 69, 15-28.	4.0	74
54	SIF Determination with Thermoelastic Stress Analysis. Procedia Structural Integrity, 2016, 2, 2148-2155.	0.8	11

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55	Fatigue crack growth behaviour of the 6082-T6 aluminium using CT specimens with distinct notches. Procedia Structural Integrity, 2016, 2, 3272-3279.	0.8	7
56	A dedicated illumination system for fatigue crack-growth measurement. Measurement: Journal of the International Measurement Confederation, 2016, 90, 85-93.	5.0	7
57	In-plane Response of Masonry Infill Walls: Experimental Study using Digital Image Correlation. Procedia Engineering, 2015, 114, 870-876.	1.2	8
58	2D and 3D Digital Image Correlation in Civil Engineering â€“ Measurements in a Masonry Wall. Procedia Engineering, 2015, 114, 215-222.	1.2	41
59	Comparison Between Finite Element Method Simulation, Digital Image Correlation and Strain Gauges Measurements in a 3-Point Bending Flexural Test. Procedia Engineering, 2015, 114, 232-239.	1.2	12
60	SIF determination with digital image correlation. International Journal of Structural Integrity, 2015, 6, 668-676.	3.3	11
61	Fatigue Life Prediction Based on Crack Growth Analysis Using an Equivalent Initial Flaw Size Model: Application to a Notched Geometry. Procedia Engineering, 2015, 114, 730-737.	1.2	23
62	Comparative Failure Analysis of PLA, PLA/GNP and PLA/CNT-COOH Biodegradable Nanocomposites thin Films. Procedia Engineering, 2015, 114, 635-642.	1.2	40
63	Shoulder design developments for FSW lap joints of dissimilar polymers. Journal of Manufacturing Processes, 2015, 20, 15-23.	5.9	66
64	Effect of Friction Stir Welding Parameters with Newly Developed Tool for Lap Joint of Dissimilar Polymers. Procedia Engineering, 2015, 114, 199-207.	1.2	47
65	A Hybrid Experimental-numerical Sif Determination Technique. , 2014, 3, 190-197.		2
66	Single image orthogonal fringe technique for resolution enhancement of the Fourier transform fringe analysis method. Optics Communications, 2013, 290, 33-36.	2.1	9
67	Single frame method for resolution enhancement of the Fourier fringe analysis method. Proceedings of SPIE, 2013, , .	0.8	0
68	Three dimensional geometry characterization using structured light. Optica Pura Y Aplicada, 2012, 45, 423-436.	0.1	0
69	Accurate subpixel corner detection on planar camera calibration targets. Optical Engineering, 2007, 46, 107205.	1.0	7
70	Coherent fringe projector for 3D surface profilometry. , 2007, , .		0
71	Linear calibration procedure for the phase-to-height relationship in phase measurement profilometry. Optics Communications, 2007, 274, 307-314.	2.1	67
72	Orthogonal projection technique for resolution enhancement of the Fourier transform fringe analysis method. Optics Communications, 2006, 266, 465-468.	2.1	21

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73	An Automated Method for the Measurement of Fatigue Crack Progression. Key Engineering Materials, 0, 577-578, 445-448.	0.4	0