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List of Publications by Citations

71	929	16	28
papers	citations	h-index	g-index

79	1,111	3.5	4.72
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
71	Measuring stress intensity factors during fatigue crack growth using thermoelasticity. *Fatigue and Fracture of Engineering Materials and Structures*, **2004**, 27, 571-583	3	99
70	Some improvements in the analysis of fatigue cracks using thermoelasticity. *International Journal of Fatigue*, **2004**, 26, 365-376	5	74
69	Assessment of crack tip plastic zone size and shape and its influence on crack tip shielding. *Fatigue and Fracture of Engineering Materials and Structures*, **2016**, 39, 969-981	3	52
68	Crack paths under mixed mode loading. *Engineering Fracture Mechanics*, **2008**, 75, 319-330	4.2	50
67	High frequency mode shapes characterisation using Digital Image Correlation and phase-based motion magnification. *Mechanical Systems and Signal Processing*, **2018**, 102, 245-261	7.8	44
66	Simultaneous in-and-out-of-plane displacement measurements using fringe projection and digital image correlation. *Optics and Lasers in Engineering*, **2014**, 52, 66-74	4.6	40
65	An approach to evaluate the energy advantage of two axes solar tracking systems in Spain. *Applied Energy*, **2011**, 88, 5131-5142	10.7	39
64	Characterisation of fatigue crack growth using digital image correlation measurements of plastic CTOD. *Theoretical and Applied Fracture Mechanics*, **2019**, 101, 332-341	3.7	35
63	A simultaneous in- and out-of-plane displacement measurement method. *Optics Letters*, **2011**, 36, 10-2	3	32
62	3D mode shapes characterisation using phase-based motion magnification in large structures using stereoscopic DIC. *Mechanical Systems and Signal Processing*, **2018**, 108, 140-155	7.8	31
61	Experimental evaluation of crack shielding during fatigue crack growth using digital image correlation. *Fatigue and Fracture of Engineering Materials and Structures*, **2015**, 38, 223-237	3	26
60	Damage methodology approach on a composite panel based on a combination of Fringe Projection and 2D Digital Image Correlation. *Mechanical Systems and Signal Processing*, **2018**, 101, 467-479	7.8	26
59	Experimental evaluation of shielding effect on growing fatigue cracks under overloads using ESPI. *International Journal of Fatigue*, **2016**, 83, 117-126	5	25
58	Full-field modal analysis during base motion excitation using high-speed 3D digital image correlation. *Measurement Science and Technology*, **2017**, 28, 105402	2	22
57	Integrating fringe projection and digital image correlation for high-quality measurements of shape changes. *Optical Engineering*, **2014**, 53, 044106	1.1	20
56	Evaluation Using Digital Image Correlation of Stress Intensity Factors in an Aerospace Panel. *Experimental Mechanics*, **2011**, 51, 45-57	2.6	20
55	Numerical analysis of plasticity induced crack closure based on an irreversible cohesive zone model. *Theoretical and Applied Fracture Mechanics*, **2017**, 89, 52-62	3.7	15

54	Modal Parameters Evaluation in a Full-Scale Aircraft Demonstrator under Different Environmental Conditions Using HS 3D-DIC. *Materials*, **2018**, 11,	3.5	15
53	Analytic construction and analysis of spiral pocketing via linear morphing. *CAD Computer Aided Design*, **2015**, 69, 1-10	2.9	14
52	FP+DIC for low-cost 3D full-field experimental modal analysis in industrial components. *Mechanical Systems and Signal Processing*, **2019**, 128, 329-339	7.8	13
51	Energy Absorption Capacity in Natural Fiber Reinforcement Composites Structures. *Materials*, **2018**, 11,	3.5	13
50	Influence of Pocket Geometry and Tool Path Strategy in Pocket Milling of UNS A96063 Alloy. *Procedia Engineering*, **2013**, 63, 523-531		13
49	Experimental evaluation of the effect of overloads on fatigue crack growth by analysing crack tip displacement fields. *Engineering Fracture Mechanics*, **2016**, 166, 82-96	4.2	12
48	Crack tip plastic zone evolution during an overload cycle and the contribution of plasticity-induced shielding to crack growth rate changes. *Fatigue and Fracture of Engineering Materials and Structures*, **2018**, 41, 2172	3	12
47	Robust approach to regularize an isochromatic fringe map. *Applied Optics*, **2009**, 48, E24-34	0.2	12
46	A more effective rationalisation of fatigue crack growth rate data for various specimen geometries and stress ratios using the CJP model. *International Journal of Fatigue*, **2018**, 114, 189-197	5	11
45	Investigation of effective stress intensity factors during overload fatigue cycles using photoelastic and DIC techniques. *Theoretical and Applied Fracture Mechanics*, **2018**, 97, 73-86	3.7	10
44	Improved 3D displacement measurements method and calibration of a combined fringe projection and 2D-DIC system. *Optics and Lasers in Engineering*, **2017**, 88, 255-264	4.6	10
43	Experimental evaluation of CTOD in constant amplitude fatigue crack growth from crack tip displacement fields. *Frattura Ed Integrita Strutturale*, **2017**, 11, 157-165	0.9	10
42	Optical low-cost and portable arrangement for full field 3D displacement measurement using a single camera. *Measurement Science and Technology*, **2016**, 27, 115901	2	10
41	Assessment of effective stress intensity factors using thermoelastic stress analysis. *Journal of Strain Analysis for Engineering Design*, **2009**, 44, 621-632	1.3	9
40	Exploiting measurement-based validation for a high-fidelity model of dynamic indentation of a hyperelastic material. *International Journal of Solids and Structures*, **2016**, 97-98, 520-529	3.1	9
39	Comparative of conventional and alternative Digital Image Correlation techniques for 3D modal characterisation. *Measurement: Journal of the International Measurement Confederation*, **2020**, 151, 107101	4.6	9
38	Modal Identification in an Automotive Multi-Component System Using HS 3D-DIC. *Materials*, **2018**, 11,	3.5	8
37	Comparing Planar Pocketing Tool Paths Via Acceleration Measurement. *Procedia Engineering*, **2013**, 63, 270-277		7

36	Operational Deflection Shape Extraction from Broadband Events of an Aircraft Component Using 3D-DIC in Magnified Images. *Shock and Vibration*, **2019**, 2019, 1-9	1.1	6
35	Numerical tool for the analysis of CTOD curves obtained by DIC or FEM. *Fatigue and Fracture of Engineering Materials and Structures*, **2020**, 43, 2984-2997	3	6
34	Experimental evaluation of effective stress intensity factor using thermoelastic stress analysis and digital image correlation. *International Journal of Fatigue*, **2020**, 135, 105567	5	6
33	RGB Colour Encoding Improvement for Three-Dimensional Shapes and Displacement Measurement Using the Integration of Fringe Projection and Digital Image Correlation. *Sensors*, **2018**, 18,	3.8	6
32	Experimental evaluation of plasticity-induced crack shielding from isochromatic data. *Optical Engineering*, **2015**, 54, 081203	1.1	5
31	Damage identification in frame structures using high-speed digital image correlation and local modal filtration. *Structural Control and Health Monitoring*, **2020**, 27, e2586	4.5	5
30	A Validation Approach for Quasistatic Numerical/Experimental Indentation Analysis in Soft Materials Using 3D Digital Image Correlation. *Materials*, **2017**, 10,	3.5	4
29	Integration of fringe projection and two-dimensional digital image correlation for three-dimensional displacements measurements. *Optical Engineering*, **2016**, 55, 121711	1.1	4
28	Fast on-line identification of instantaneous mechanical losses in internal combustion engines. *Mechanical Systems and Signal Processing*, **2010**, 24, 267-280	7.8	4
27	Full-field 3D displacement and strain analysis during low energy impact tests employing a single-camera system. *Thin-Walled Structures*, **2020**, 148, 106584	4.7	3
26	Full-Field Indentation Damage Measurement Using Digital Image Correlation. *Materials*, **2017**, 10,	3.5	3
25	Practical identification of non-linear characteristics of elastomeric couplings in engine assemblies. *Mechanical Systems and Signal Processing*, **2009**, 23, 922-930	7.8	3
24	A Novel Experimental Approach for Calculating Stress Intensity Factors from Isochromatic Data. *Experimental Mechanics*, **2010**, 50, 273-281	2.6	3
23	Limitations of small-scale yielding for fatigue crack growth. *Engineering Fracture Mechanics*, **2021**, 252, 107806	4.2	3
22	Improving Composite Tensile Properties during Resin Infusion Based on a Computer Vision Flow-Control Approach. *Materials*, **2018**, 11,	3.5	3
21	Noncontact Measurements for Vibration-Based SHM and NDE. *Shock and Vibration*, **2019**, 2019, 1-2	1.1	2
20	An alternative approach for improving DIC by using out-of-plane displacement information. *Optics and Lasers in Engineering*, **2020**, 128, 105996	4.6	2
19	Experimental evaluation of plasticity-induced crack shielding from crack tip displacements fields. *Frattura Ed Integrita Strutturale*, **2015**, 9, 191-198	0.9	2

18	Thermoelastic effect in modal shapes at high frequencies using infrared thermography. *Measurement: Journal of the International Measurement Confederation*, **2021**, 176, 109180	4.6	2
17	Full-Field Operational Modal Analysis of an Aircraft Composite Panel from the Dynamic Response in Multi-Impact Test. *Sensors*, **2021**, 21,	3.8	2
16	An automated calibration system that combines fringe projection and 2D digital image correlation **2015**,		1
15	DIC-CAM recipe for reverse engineering **2012**,		1
14	Applied computer vision for composite material manufacturing by optimizing the impregnation velocity: An experimental approach. *Journal of Manufacturing Processes*, **2022**, 74, 52-62	5	1
13	Enhanced Low-Velocity Impact Properties for Resin Film Infusion-Manufactured Composites by Flow-Control Approach. *Polymers*, **2021**, 13,	4.5	1
12	Validity of small-scale yielding regime in notched-cracked geometries. *International Journal of Fatigue*, **2021**, 154, 106563	5	1
11	Comparison of lock-in correlation and a novel periodogram method for experimental multi-harmonic thermoelastic analysis. *Mechanical Systems and Signal Processing*, **2022**, 164, 108235	7.8	1
10	Evaluation of small-scale yielding boundary using digital image correlation results. *Fatigue and Fracture of Engineering Materials and Structures*, **2022**, 45, 1276-1291	3	0
9	Experimental evaluation of plastic wake on growing fatigue cracks from the analysis of residual displacement fields. *Fatigue and Fracture of Engineering Materials and Structures*, **2022**, 45, 1494-1504	3	0
8	Characterization of non-planar crack tip displacement fields using a differential geometry approach in combination with 3D digital image correlation. *Fatigue and Fracture of Engineering Materials and Structures*, **2022**, 45, 1521-1536	3	0
7	Exploiting phase-based motion magnification for the measurement of subtle 3D deformation maps with FP□+□2D-DIC. *Measurement: Journal of the International Measurement Confederation*, **2022**, 195, 111122	4.6	0
6	Towards a new methodology for the characterisation of crack tip fields based on a hybrid computational approach. *International Journal of Fatigue*, **2022**, 106942	5	0
5	Numerical determination of plastic CTOD. *Fatigue and Fracture of Engineering Materials and Structures*, **2018**, 41, 2197	3	
4	Relationship of Pocket Geometry and Tool Path Strategy with 2 1/2-D Milling Parameters: Machining Time, Cutting Forces and Surface Roughness. *Materials Science Forum*, **2014**, 797, 78-83	0.4	
3	Machining a Free-Surface via Reverse Engineering. *Key Engineering Materials*, **2012**, 502, 91-96	0.4	
2	Combined approach for fatigue crack characterisation in metals. *Procedia Structural Integrity*, **2022**, 37, 865-872	1	
1	Experimental Approach for the Detection of Defects Employing High-Resolution Digital Image Correlation. *Lecture Notes in Civil Engineering*, **2023**, 454-462	0.3	