Marco Rossi

List of Publications by Year
in descending order

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Version: 2024-02-01

53	1,113	430754	434063
papers	citations	18	31
		h-index	g-index

65	65	65	617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the use of simulated experiments in designing tests for material characterization from full-field measurements. International Journal of Solids and Structures, 2012, 49, 420-435.	1.3	97
2	Effect of DIC Spatial Resolution, Noise and Interpolation Error on Identification Results with the VFM. Strain, 2015, 51, 206-222.	1.4	97
3	Identification of plastic constitutive parameters at large deformations from three dimensional displacement fields. Computational Mechanics, 2012, 49, 53-71.	2.2	86
4	A nonlinear model for ductile damage accumulation under multiaxial non-proportional loading conditions. International Journal of Plasticity, 2016, 85, 77-92.	4.1	71
5	Application of the virtual fields method to large strain anisotropic plasticity. International Journal of Solids and Structures, 2016, 97-98, 322-335.	1.3	63
6	Environmental ageing on GFRP pultruded joints: Comparison between different adhesives. Composite Structures, 2015, 133, 404-414.	3.1	55
7	A 360-deg Digital Image Correlation system for materials testing. Optics and Lasers in Engineering, 2016, 82, 127-134.	2.0	51
8	Design of an Innovative System for Wave Generation in Direct Tensionâ€“Compression Split Hopkinson Bar. Journal of Dynamic Behavior of Materials, 2015, 1, 201-213.	1.1	48
9	Optimised Experimental Characterisation of Polymeric Foam Material Using DIC and the Virtual Fields Method. Strain, 2016, 52, 59-79.	1.4	42
10	Extension of the sensitivity-based virtual fields to large deformation anisotropic plasticity. International Journal of Material Forming, 2019, 12, 457-476.	0.9	41
11	Application of digital image correlation to the study ofÂplanar anisotropy of sheet metals at large strains. Meccanica, 2008, 43, 185-199.	1.2	39
12	Impact of Experimental Uncertainties on the Identification of Mechanical Material Properties using DIC. Experimental Mechanics, 2015, 55, 1411-1426.	1.1	37
13	Visco-Hyper-Pseudo-Elastic Characterization of a Fluoro-Silicone Rubber. Experimental Mechanics, 2014, 54, 315-328.	1.1	35
14	A general linear method to evaluate the hardening behaviour of metals at large strain with fullâ€field measurements. Strain, 2018, 54, e12265.	1.4	33
15	Inverse identification strategies for the characterization of transformation-based anisotropic plasticity models with the non-linear VFM. International Journal of Mechanical Sciences, 2020, 173, 105422.	3.6	33
16	Mechanical performances of GFRP-steel specimens bonded with different epoxy adhesives, before and after the aging treatments. Composite Structures, 2017, 171, 145-157.	3.1	27
17	Assessment of the metrological performance of anin situstorage image sensor ultra-high speed camera for full-field deformation measurements. Measurement Science and Technology, 2014, 25, 025401.	1.4	26
18	Performances and Limitations of Three Ultra High-Speed Imaging Cameras for Full-Field Deformation Measurements. Applied Mechanics and Materials, 0, 70, 81-86.	0.2	22

#	Article	IF	Citations
19	Evaluation of Volume Deformation from Surface DIC Measurement. Experimental Mechanics, 2018, 58, 1181-1194.	1.1	19
20	High speed imaging for material parameters calibration at high strain rate. European Physical Journal: Special Topics, 2016, 225, 295-309.	1.2	17
21	Effect of different aging conditions on the shear performance of joints made between GFRP and glass with a UV absorbance coating. International Journal of Adhesion and Adhesives, 2019, 94, 76-83.	1.4	14
22	An approximated computational method for fast stress reconstruction in large strain plasticity. International Journal for Numerical Methods in Engineering, 2020, 121, 3048-3065.	1.5	14
23	Temperature effects on failure mode of double lap glass-aluminum and glass-GFRP joints with epoxy and acrylic adhesive. International Journal of Adhesion and Adhesives, 2021, 105, 102788.	1.4	12
24	A fast methodology for the accurate characterization and simulation of laser heat treated blanks. International Journal of Mechanical Sciences, 2021, 192, 106134.	3.6	10
25	Inverse identification of large strain plasticity using the hydraulic bulge-test and full-field measurements. International Journal of Solids and Structures, 2022, 242, 111532.	1.3	10
26	Identification of the Plastic Behaviour in the Post-Necking Regime Using a Three Dimensional Reconstruction Technique. Key Engineering Materials, 2012, 504-506, 703-708.	0.4	9
27	A procedure for specimen optimization applied to material testing in plasticity with the virtual fields method. AIP Conference Proceedings, 2016, , .	0.3	9
28	Perforation of sheets by pyramidal weapons such as arrowheads. International Journal of Impact Engineering, 2008, 35, 457-470.	2.4	7
29	Structural analysis of an elastomeric bellow seal in unsteady conditions: simulations and experiments. International Journal of Mechanics and Materials in Design, 2017, 13, 347-362.	1.7	7
30	Mechanical performance reduction of GFRP specimens with polyester matrix exposed to continuous condensation. Composites Part B: Engineering, 2016, 99, 330-339.	5.9	6
31	Study of Tailor Heat Treated Blanks Using the Fourier-series-based VFM. Procedia Manufacturing, 2020, 47, 904-909.	1.9	5
32	Thermal and mechanical optimization of nano-foams for sprayed insulation. Construction and Building Materials, 2019, 201, 828-841.	3.2	4
33	Advanced Test Simulator to Reproduce Experiments at Small and Large Deformations. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 27-33.	0.3	4
34	Design of a Tensegrity Servo-Actuated Structure for Civil Applications. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, .	1.7	4
35	Identification of the plastic zone using digital image correlation. Frattura Ed Integrita Strutturale, 2014, 8, 552-557.	0.5	3
36	Optical Measurements, Modeling, and Metrology, Volume 5. Conference Proceedings of the Society for Experimental Mechanics, 2011, , .	0.3	3

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37	Out-of-Plane Motion Evaluation and Correction in 2D DIC. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 181-187.	0.3	3
38	Identification of Plastic Behaviour of Sheet Metals in High Strain Rate Tests. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 203-209.	0.3	2
39	Inverse Material Characterization from 360-Deg DIC Measurements on Steel Samples. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 225-231.	0.3	2
40	Uncertainty Quantification in VFM Identification. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 137-142.	0.3	2
41	Integrating Advanced CAE Tools and Testing Environments for the Design of Complex Mechanical Systems. , 2019, , 247-258.		2
42	Experimental assessment of the static mechanical behaviour of the steel-glass adhesive joint on a 1:2 scale tensegrity floor prototype. Journal of Building Engineering, 2022, 53, 104572.	1.6	2
43	Identification of the YLD2000-2D Model with the Virtual Fields Method. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 51-57.	0.3	1
44	Development of new experimental test for sheet metals through-thickness behaviour characterization. Journal of Physics: Conference Series, 2018, 1063, 012040.	0.3	1
45	2D DIC-Based Inverse Procedures for the Plastic Identification of Sheet Metals in High Strain Rate Tests. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 85-88.	0.3	1
46	Study of the local and global deformation process of an aluminium alloy using full-field measurements. AIP Conference Proceedings, 2017, , .	0.3	0
47	Enhancing the hydraulic bulge-test using full-field DIC data. Journal of Physics: Conference Series, 2018, 1063, 012042.	0.3	0
48	Study of Elastomeric Membranes for Vibration Dampers in Non-stationary Conditions. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 355-364.	0.3	0
49	Application of VFM for the Simultaneous Identification of Visco-pseudo-hyper Elastic Constants of Rubbers. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 153-161.	0.3	0
50	Identification of Constitutive Model Parameters in Hopkinson Bar Tests. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 189-198.	0.3	0
51	A Simulator to Optimize the Experimental Set-Up for Elasto-Plastic Material Characterization. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 97-103.	0.3	0
52	On the Evaluation of Volume Deformation from Surface DIC Measurements. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 157-158.	0.3	0
53	On the use of elliptical bulge tests in material characterization through inverse methodologies. IOP Conference Series: Materials Science and Engineering, 2022, 1238, 012053.	0.3	0