

Marco Rossi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

815

citations

17

h-index

28

g-index

65

ext. papers

980

ext. citations

2

avg, IF

4.58

L-index

#	Paper	IF	Citations
63	On the use of simulated experiments in designing tests for material characterization from full-field measurements. <i>International Journal of Solids and Structures</i> , 2012 , 49, 420-435	3.1	80
62	Effect of DIC Spatial Resolution, Noise and Interpolation Error on Identification Results with the VFM. <i>Strain</i> , 2015 , 51, 206-222	1.7	74
61	Identification of plastic constitutive parameters at large deformations from three dimensional displacement fields. <i>Computational Mechanics</i> , 2012 , 49, 53-71	4	73
60	A nonlinear model for ductile damage accumulation under multiaxial non-proportional loading conditions. <i>International Journal of Plasticity</i> , 2016 , 85, 77-92	7.6	53
59	Application of the virtual fields method to large strain anisotropic plasticity. <i>International Journal of Solids and Structures</i> , 2016 , 97-98, 322-335	3.1	45
58	Environmental ageing on GFRP pultruded joints: Comparison between different adhesives. <i>Composite Structures</i> , 2015 , 133, 404-414	5.3	42
57	A 360-deg Digital Image Correlation system for materials testing. <i>Optics and Lasers in Engineering</i> , 2016 , 82, 127-134	4.6	37
56	Design of an Innovative System for Wave Generation in Direct Tension-Compression Split Hopkinson Bar. <i>Journal of Dynamic Behavior of Materials</i> , 2015 , 1, 201-213	1.8	36
55	Application of digital image correlation to the study of planar anisotropy of sheet metals at large strains. <i>Meccanica</i> , 2008 , 43, 185-199	2.1	35
54	Optimised Experimental Characterisation of Polymeric Foam Material Using DIC and the Virtual Fields Method. <i>Strain</i> , 2016 , 52, 59-79	1.7	30
53	Visco-Hyper-Pseudo-Elastic Characterization of a Fluoro-Silicone Rubber. <i>Experimental Mechanics</i> , 2014 , 54, 315-328	2.6	28
52	Impact of Experimental Uncertainties on the Identification of Mechanical Material Properties using DIC. <i>Experimental Mechanics</i> , 2015 , 55, 1411-1426	2.6	26
51	Extension of the sensitivity-based virtual fields to large deformation anisotropic plasticity. <i>International Journal of Material Forming</i> , 2019 , 12, 457-476	2	25
50	Assessment of the metrological performance of an in situ storage image sensor ultra-high speed camera for full-field deformation measurements. <i>Measurement Science and Technology</i> , 2014 , 25, 025402		24
49	A general linear method to evaluate the hardening behaviour of metals at large strain with full-field measurements. <i>Strain</i> , 2018 , 54, e12265	1.7	23
48	Mechanical performances of GFRP-steel specimens bonded with different epoxy adhesives, before and after the aging treatments. <i>Composite Structures</i> , 2017 , 171, 145-157	5.3	22
47	Performances and Limitations of Three Ultra High-Speed Imaging Cameras for Full-Field Deformation Measurements. <i>Applied Mechanics and Materials</i> , 2011 , 70, 81-86	0.3	20

46	Inverse identification strategies for the characterization of transformation-based anisotropic plasticity models with the non-linear VFM. <i>International Journal of Mechanical Sciences</i> , 2020 , 173, 105422 ⁵⁵	5.5	16
45	Virtual Fields Method, The301-330		16
44	Evaluation of Volume Deformation from Surface DIC Measurement. <i>Experimental Mechanics</i> , 2018 , 58, 1181-1194	2.6	13
43	Effect of different aging conditions on the shear performance of joints made between GFRP and glass with a UV absorbance coating. <i>International Journal of Adhesion and Adhesives</i> , 2019 , 94, 76-83	3.4	11
42	High speed imaging for material parameters calibration at high strain rate. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 295-309	2.3	11
41	Perforation of sheets by pyramidal weapons such as arrowheads. <i>International Journal of Impact Engineering</i> , 2008 , 35, 457-470	4	6
40	Mechanical performance reduction of GFRP specimens with polyester matrix exposed to continuous condensation. <i>Composites Part B: Engineering</i> , 2016 , 99, 330-339	10	6
39	Temperature effects on failure mode of double lap glass-aluminum and glass-GFRP joints with epoxy and acrylic adhesive. <i>International Journal of Adhesion and Adhesives</i> , 2021 , 105, 102788	3.4	6
38	Structural analysis of an elastomeric bellow seal in unsteady conditions: simulations and experiments. <i>International Journal of Mechanics and Materials in Design</i> , 2017 , 13, 347-362	2.5	5
37	Identification of the Plastic Behaviour in the Post-Necking Regime Using a Three Dimensional Reconstruction Technique. <i>Key Engineering Materials</i> , 2012 , 504-506, 703-708	0.4	5
36	Thermal and mechanical optimization of nano-foams for sprayed insulation. <i>Construction and Building Materials</i> , 2019 , 201, 828-841	6.7	4
35	A procedure for specimen optimization applied to material testing in plasticity with the virtual fields method 2016 ,		4
34	Advanced Test Simulator to Reproduce Experiments at Small and Large Deformations. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014 , 27-33	0.3	4
33	A fast methodology for the accurate characterization and simulation of laser heat treated blanks. <i>International Journal of Mechanical Sciences</i> , 2021 , 192, 106134	5.5	4
32	An approximated computational method for fast stress reconstruction in large strain plasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 3048-3065	2.4	3
31	Out-of-Plane Motion Evaluation and Correction in 2D DIC. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 181-187	0.3	3
30	Inverse Material Characterization from 360-Deg DIC Measurements on Steel Samples. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 225-231	0.3	2
29	Integrating Advanced CAE Tools and Testing Environments for the Design of Complex Mechanical Systems 2019 , 247-258		2

28	Strain Assessment in Cracked Sheet Metals by Optical Grid Method. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015 , 39-46	0.3	2
27	Uncertainty Quantification in VFM Identification. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015 , 137-142	0.3	2
26	Identification of the Anisotropic Plastic Behaviour of Sheet Metals at Large Strains. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 229-235	0.3	2
25	Study of Tailor Heat Treated Blanks Using the Fourier-series-based VFM. <i>Procedia Manufacturing</i> , 2020 , 47, 904-909	1.5	1
24	Identification of the YLD2000-2D Model with the Virtual Fields Method. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 51-57	0.3	1
23	Development of new experimental test for sheet metals through-thickness behaviour characterization. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012040	0.3	1
22	Identification of Plastic Behaviour of Sheet Metals in High Strain Rate Tests. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 203-209	0.3	1
21	Identification of the plastic zone using digital image correlation. <i>Frattura Ed Integrita Strutturale</i> , 2014 , 8, 552-557	0.9	1
20	Assessment of inverse procedures for the identification of hyperelastic material parameters. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 131-139	0.3	1
19	Design of a Tensegrity Servo-Actuated Structure for Civil Applications. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2022 , 144,	3	1
18	Performance Assessment of Inverse Methods in Large Strain Plasticity. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014 , 259-265	0.3	1
17	2D DIC-Based Inverse Procedures for the Plastic Identification of Sheet Metals in High Strain Rate Tests. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 85-88	0.3	1
16	Comparison of Contouring Techniques Applied to Sheet Metal Testing. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 173-182	0.3	1
15	Characterization of aluminum alloys using a 3D full field measurement. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 17-23	0.3	1
14	Performance Assessment of Strain Measurement with an Ultra High Speed Camera. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 299-306	0.3	1
13	Inverse identification of large strain plasticity using the hydraulic bulge-test and full-field measurements. <i>International Journal of Solids and Structures</i> , 2022 , 242, 111532	3.1	1
12	Experimental assessment of the static mechanical behaviour of the steel-glass adhesive joint on a 1:2 scale tensegrity floor prototype. <i>Journal of Building Engineering</i> , 2022 , 53, 104572	5.2	1
11	Identification of Constitutive Model Parameters in Hopkinson Bar Tests. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 189-198	0.3	

- 10 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
- 9 On the Evaluation of Volume Deformation from Surface DIC Measurements. *Conference Proceedings of the Society for Experimental Mechanics*, **2017**, 157-158 0.3
- 8 Development of a Test Simulator to Perform Optimized Experiment Design. *Conference Proceedings of the Society for Experimental Mechanics*, **2013**, 345-347 0.3
- 7 Study of Elastomeric Membranes for Vibration Dampers in Non-stationary Conditions. *Conference Proceedings of the Society for Experimental Mechanics*, **2014**, 355-364 0.3
- 6 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
- 5 Experimental Validation and Noise Assessment of the Thermal-VFM. *Conference Proceedings of the Society for Experimental Mechanics*, **2021**, 93-98 0.3
- 4 Enhancing the hydraulic bulge-test using full-field DIC data. *Journal of Physics: Conference Series*, **2018**, 1063, 012042 0.3
- 3 Inverse Identification of the Post-Necking Behavior of Metal Samples Produced with Additive Manufacturing. *Conference Proceedings of the Society for Experimental Mechanics*, **2022**, 85-89 0.3
- 2 Analysis of the Thermomechanical Behaviour of SMP in Equi-Biaxial Condition by Means of Hydraulic Bulge Test. *Conference Proceedings of the Society for Experimental Mechanics*, **2022**, 77-83 0.3
- 1 On the use of elliptical bulge tests in material characterization through inverse methodologies. *IOP Conference Series: Materials Science and Engineering*, **2022**, 1238, 012053 0.4