

# Marco Rossi

## List of Publications by Year in Descending Order

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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	Design of a Tensegrity Servo-Actuated Structure for Civil Applications. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2022</b> , 144,	3	1
62	Inverse Identification of the Post-Necking Behavior of Metal Samples Produced with Additive Manufacturing. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2022</b> , 85-89	0.3	
61	Analysis of the Thermomechanical Behaviour of SMP in Equi-Biaxial Condition by Means of Hydraulic Bulge Test. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2022</b> , 77-83	0.3	
60	Inverse identification of large strain plasticity using the hydraulic bulge-test and full-field measurements. <i>International Journal of Solids and Structures</i> , <b>2022</b> , 242, 111532	3.1	1
59	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> , <b>2022</b> , 53, 104572	5.2	1
58	On the use of elliptical bulge tests in material characterization through inverse methodologies. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2022</b> , 1238, 012053	0.4	
57	A fast methodology for the accurate characterization and simulation of laser heat treated blanks. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 192, 106134	5.5	4
56	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> , <b>2021</b> , 105, 102788	3.4	6
55	Experimental Validation and Noise Assessment of the Thermal-VFM. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2021</b> , 93-98	0.3	
54	An approximated computational method for fast stress reconstruction in large strain plasticity. <i>International Journal for Numerical Methods in Engineering</i> , <b>2020</b> , 121, 3048-3065	2.4	3
53	Study of Tailor Heat Treated Blanks Using the Fourier-series-based VFM. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 904-909	1.5	1
52	Inverse identification strategies for the characterization of transformation-based anisotropic plasticity models with the non-linear VFM. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 173, 105422	5.5	16
51	Thermal and mechanical optimization of nano-foams for sprayed insulation. <i>Construction and Building Materials</i> , <b>2019</b> , 201, 828-841	6.7	4
50	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> , <b>2019</b> , 94, 76-83	3.4	11
49	Extension of the sensitivity-based virtual fields to large deformation anisotropic plasticity. <i>International Journal of Material Forming</i> , <b>2019</b> , 12, 457-476	2	25
48	Integrating Advanced CAE Tools and Testing Environments for the Design of Complex Mechanical Systems <b>2019</b> , 247-258		2
47	A general linear method to evaluate the hardening behaviour of metals at large strain with full-field measurements. <i>Strain</i> , <b>2018</b> , 54, e12265	1.7	23

46	Development of new experimental test for sheet metals through-thickness behaviour characterization. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1063, 012040	0.3	1
45	Evaluation of Volume Deformation from Surface DIC Measurement. <i>Experimental Mechanics</i> , <b>2018</b> , 58, 1181-1194	2.6	13
44	Enhancing the hydraulic bulge-test using full-field DIC data. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1063, 012042	0.3	
43	Structural analysis of an elastomeric bellow seal in unsteady conditions: simulations and experiments. <i>International Journal of Mechanics and Materials in Design</i> , <b>2017</b> , 13, 347-362	2.5	5
42	Mechanical performances of GFRP-steel specimens bonded with different epoxy adhesives, before and after the aging treatments. <i>Composite Structures</i> , <b>2017</b> , 171, 145-157	5.3	22
41	Identification of Plastic Behaviour of Sheet Metals in High Strain Rate Tests. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 203-209	0.3	1
40	Inverse Material Characterization from 360-Deg DIC Measurements on Steel Samples. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 225-231	0.3	2
39	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> , <b>2017</b> , 85-88	0.3	1
38	Identification of Constitutive Model Parameters in Hopkinson Bar Tests. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 189-198	0.3	
37	A Simulator to Optimize the Experimental Set-Up for Elasto-Plastic Material Characterization. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 97-103	0.3	
36	On the Evaluation of Volume Deformation from Surface DIC Measurements. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 157-158	0.3	
35	A nonlinear model for ductile damage accumulation under multiaxial non-proportional loading conditions. <i>International Journal of Plasticity</i> , <b>2016</b> , 85, 77-92	7.6	53
34	Application of the virtual fields method to large strain anisotropic plasticity. <i>International Journal of Solids and Structures</i> , <b>2016</b> , 97-98, 322-335	3.1	45
33	A procedure for specimen optimization applied to material testing in plasticity with the virtual fields method <b>2016</b> ,		4
32	High speed imaging for material parameters calibration at high strain rate. <i>European Physical Journal: Special Topics</i> , <b>2016</b> , 225, 295-309	2.3	11
31	A 360-deg Digital Image Correlation system for materials testing. <i>Optics and Lasers in Engineering</i> , <b>2016</b> , 82, 127-134	4.6	37
30	Identification of the YLD2000-2D Model with the Virtual Fields Method. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 51-57	0.3	1
29	Out-of-Plane Motion Evaluation and Correction in 2D DIC. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 181-187	0.3	3

28	Optimised Experimental Characterisation of Polymeric Foam Material Using DIC and the Virtual Fields Method. <i>Strain</i> , <b>2016</b> , 52, 59-79	1.7	30
27	Mechanical performance reduction of GFRP specimens with polyester matrix exposed to continuous condensation. <i>Composites Part B: Engineering</i> , <b>2016</b> , 99, 330-339	10	6
26	Design of an Innovative System for Wave Generation in Direct Tension-Compression Split Hopkinson Bar. <i>Journal of Dynamic Behavior of Materials</i> , <b>2015</b> , 1, 201-213	1.8	36
25	Environmental ageing on GFRP pultruded joints: Comparison between different adhesives. <i>Composite Structures</i> , <b>2015</b> , 133, 404-414	5.3	42
24	Impact of Experimental Uncertainties on the Identification of Mechanical Material Properties using DIC. <i>Experimental Mechanics</i> , <b>2015</b> , 55, 1411-1426	2.6	26
23	Effect of DIC Spatial Resolution, Noise and Interpolation Error on Identification Results with the VFM. <i>Strain</i> , <b>2015</b> , 51, 206-222	1.7	74
22	Strain Assessment in Cracked Sheet Metals by Optical Grid Method. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2015</b> , 39-46	0.3	2
21	Uncertainty Quantification in VFM Identification. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2015</b> , 137-142	0.3	2
20	Visco-Hyper-Pseudo-Elastic Characterization of a Fluoro-Silicone Rubber. <i>Experimental Mechanics</i> , <b>2014</b> , 54, 315-328	2.6	28
19	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> , <b>2014</b> , 25, 025401		24
18	Identification of the plastic zone using digital image correlation. <i>Frattura Ed Integrita Strutturale</i> , <b>2014</b> , 8, 552-557	0.9	1
17	Advanced Test Simulator to Reproduce Experiments at Small and Large Deformations. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2014</b> , 27-33	0.3	4
16	Performance Assessment of Inverse Methods in Large Strain Plasticity. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2014</b> , 259-265	0.3	1
15	Study of Elastomeric Membranes for Vibration Dampers in Non-stationary Conditions. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2014</b> , 355-364	0.3	
14	Application of VFM for the Simultaneous Identification of Visco-pseudo-hyper Elastic Constants of Rubbers. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2014</b> , 153-161	0.3	
13	Development of a Test Simulator to Perform Optimized Experiment Design. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2013</b> , 345-347	0.3	
12	Comparison of Contouring Techniques Applied to Sheet Metal Testing. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2013</b> , 173-182	0.3	1
11	Characterization of aluminum alloys using a 3D full field measurement. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2013</b> , 17-23	0.3	1

10	Identification of the Anisotropic Plastic Behaviour of Sheet Metals at Large Strains. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2013</b> , 229-235	0.3	2
9	On the use of simulated experiments in designing tests for material characterization from full-field measurements. <i>International Journal of Solids and Structures</i> , <b>2012</b> , 49, 420-435	3.1	80
8	Identification of plastic constitutive parameters at large deformations from three dimensional displacement fields. <i>Computational Mechanics</i> , <b>2012</b> , 49, 53-71	4	73
7	Identification of the Plastic Behaviour in the Post-Necking Regime Using a Three Dimensional Reconstruction Technique. <i>Key Engineering Materials</i> , <b>2012</b> , 504-506, 703-708	0.4	5
6	Assessment of inverse procedures for the identification of hyperelastic material parameters. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2011</b> , 131-139	0.3	1
5	Performances and Limitations of Three Ultra High-Speed Imaging Cameras for Full-Field Deformation Measurements. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 70, 81-86	0.3	20
4	Performance Assessment of Strain Measurement with an Ultra High Speed Camera. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2011</b> , 299-306	0.3	1
3	Application of digital image correlation to the study of planar anisotropy of sheet metals at large strains. <i>Meccanica</i> , <b>2008</b> , 43, 185-199	2.1	35
2	Perforation of sheets by pyramidal weapons such as arrowheads. <i>International Journal of Impact Engineering</i> , <b>2008</b> , 35, 457-470	4	6
1	Virtual Fields Method, The301-330		16