

Fabrice Pierron

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.

263
papers

5,796
citations

43
h-index

68
g-index

281
ext. papers

6,538
ext. citations

2.6
avg, IF

6.14
L-index

#	Paper	IF	Citations
263	A Simple Data-Rich IBII Test for Identifying All Orthotropic Stiffness Components at High Strain Rates. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 53-56	0.3	
262	Shear Damage Model Identification for Off-axis IBII Composites Specimen Loaded and Unloaded at High Strain Rates. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 105-111	0.3	
261	Comparison of the High Strain Rate Response of Boron/Silicon Carbide and MAX Phase Ceramics Using the Image-Based Inertial Impact Test. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 57-61	0.3	
260	Modelling of stress transfer in root-reinforced soils informed by four-dimensional X-ray computed tomography and digital volume correlation data.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022 , 478, 20210210	2.4	0
259	Characterization of dynamic hardening behavior at intermediate strain rates using the virtual fields method. <i>Mechanics of Materials</i> , 2021 , 162, 104101	3.3	0
258	Towards Material Testing 2.0. A review of test design for identification of constitutive parameters from full-field measurements. <i>Strain</i> , 2021 , 57, e12370	1.7	14
257	Investigation of the 2D assumption in the image-based inertial impact test. <i>Strain</i> , 2021 , 57, e12369	1.7	1
256	The Off-Axis IBII Test for Composites. <i>Journal of Dynamic Behavior of Materials</i> , 2021 , 7, 127-155	1.8	4
255	Quantifying Ultrasonic Deformation of Cell Membranes with Ultra-High-Speed Imaging. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2021 , 21-27	0.3	
254	High strain rate elasto-plasticity identification using the image-based inertial impact (IBII) test part 1: Error quantification. <i>Strain</i> , 2021 , 57, e12375	1.7	0
253	Data rich imaging approaches assessing fatigue crack initiation and early propagation in a DS superalloy at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 805, 140592	5.3	2
252	High strain rate elasto-plasticity identification using the image-based inertial impact (IBII) test part 2: Experimental validation. <i>Strain</i> , 2021 , 57, e12374	1.7	0
251	Mechanisms of root reinforcement in soils: an experimental methodology using four-dimensional X-ray computed tomography and digital volume correlation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20190838	2.4	5
250	Experimental Validation of the Sensitivity-Based Virtual Fields for Identification of Anisotropic Plasticity Models. <i>Experimental Mechanics</i> , 2020 , 60, 639-664	2.6	6
249	Reconstruction of surface-pressure fluctuations using deflectometry and the virtual fields method. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	4
248	Evaluation of Sensitivity-Based Virtual Fields for Non-Linear Parameter Identification Including DIC Filtering Effects. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 153-156	0.3	1
247	Dynamic VFM to Identify Viscoplastic Parameters. Analysis of Impact Tests on Titanium Alloy. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 101-103	0.3	

246	Test Design for Identification from Full-Field Measurements: A Concise Review. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 105-110	0.3	
245	Infrared Deflectometry. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 97-100	0.3	1
244	The Image-Based Inertial Release (IBIR) Test: A New High Strain Rate Test for Stiffness Strain-Rate Sensitivity Identification. <i>Experimental Mechanics</i> , 2020 , 60, 493-508	2.6	3
243	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	5.5	16
242	Surface Pressure Reconstruction from Phase Averaged Deflectometry Measurements Using the Virtual Fields Method. <i>Experimental Mechanics</i> , 2020 , 60, 379-392	2.6	1
241	Image-Based Inertial Impact Test for Characterisation of Strain Rate Dependency of Ti6Al4V Titanium Alloy. <i>Experimental Mechanics</i> , 2020 , 60, 235-248	2.6	6
240	Measurement of Internal Implantation Strains in Analogue Bone Using DVC. <i>Materials</i> , 2020 , 13,	3.5	1
239	Microstructural Assessment of 316L Stainless Steel Using Infrared Thermography Based Measurement of Energy Dissipation Arising from Cyclic Loading. <i>Mechanics of Materials</i> , 2020 , 148, 103433	2.3	2
238	Image-Based Inertial Impact (IBII) Tests for Measuring the Interlaminar Shear Moduli of Composites. <i>Journal of Dynamic Behavior of Materials</i> , 2020 , 6, 373-398	1.8	2
237	Validation of finite-element models using full-field experimental data: Levelling finite-element analysis data through a digital image correlation engine. <i>Strain</i> , 2020 , 56, e12350	1.7	10
236	Full-Field Surface Pressure Reconstruction Using the Virtual Fields Method. <i>Experimental Mechanics</i> , 2019 , 59, 1203-1221	2.6	5
235	Understanding the mechanisms of root-reinforcement in soils: soil shear tests using X-ray computed tomography and digital volume correlation. <i>E3S Web of Conferences</i> , 2019 , 92, 12009	0.5	1
234	A Novel Image-Based Inertial Impact Test (IBII) for the Transverse Properties of Composites at High Strain Rates. <i>Journal of Dynamic Behavior of Materials</i> , 2019 , 5, 65-92	1.8	17
233	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
232	Infrared Deflectometry for Slope Deformation Measurements. <i>Experimental Mechanics</i> , 2019 , 59, 1187-1202	0.2	8
231	A benchmark testing technique to characterize the stress-strain relationship in materials based on the spalling test and a photomechanical method. <i>Measurement Science and Technology</i> , 2019 , 30, 125006	2	6
230	Generalized Stress-Strain Curves for IBII Tests on Isotropic and Orthotropic Materials. <i>Journal of Dynamic Behavior of Materials</i> , 2019 , 5, 180-193	1.8	5
229	Characterising the compressive anisotropic properties of analogue bone using optical strain measurement. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019 , 233, 954-960	1.7	5

228	A computational approach to design new tests for viscoplasticity characterization at high strain-rates. <i>Computational Mechanics</i> , 2019 , 64, 1639-1654	4	11
227	High-Strain Rate Interlaminar Shear Testing of Fibre-Reinforced Composites Using an Image-Based Inertial Impact Test. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 279-281	0.3	
226	Optimization of an Image-Based Experimental Setup for the Dynamic Behaviour Characterization of Materials. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 153-155	0.3	
225	IBII Test for High Strain Rate Tensile Testing of Adhesives. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 301-305	0.3	
224	Image-Based Stress Field Reconstruction in Complex Media. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 101-104	0.3	4
223	Deflectometry on Curved Surfaces. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 217-221	0.3	5
222	An Image-Based Approach for Measuring Dynamic Fracture Toughness. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 247-250	0.3	
221	Characterisation of 3D printed sand moulds using micro-focus X-ray computed tomography. <i>Rapid Prototyping Journal</i> , 2019 , 25, 404-416	3.8	6
220	An Image-Based Inertial Impact Test for the High Strain Rate Properties of Brittle Materials. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 243-246	0.3	
219	A Novel Image-based Ultrasonic Test to Map Material Mechanical Properties at High Strain-rates. <i>Experimental Mechanics</i> , 2018 , 58, 183-206	2.6	21
218	Measuring orthotropic bending stiffness components of Pinus pinaster by the virtual fields method. <i>Journal of Strain Analysis for Engineering Design</i> , 2018 , 53, 556-565	1.3	8
217	Strain accumulation and fatigue crack initiation at pores and carbides in a SX superalloy at room temperature. <i>International Journal of Fatigue</i> , 2018 , 114, 22-33	5	27
216	An Image-Based Inertial Impact (IBII) Test for Tungsten Carbide Cermets. <i>Journal of Dynamic Behavior of Materials</i> , 2018 , 4, 481-504	1.8	20
215	Application of the Virtual Fields Method to determine dynamic properties at intermediate strain rates. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012041	0.3	
214	A Practical Procedure for Measuring the Stiffness of Foam like Materials. <i>Experimental Techniques</i> , 2018 , 42, 439-452	1.4	8
213	Sheet metals characterization using the virtual fields method 2018 ,		1
212	Evaluation of Volume Deformation from Surface DIC Measurement. <i>Experimental Mechanics</i> , 2018 , 58, 1181-1194	2.6	13
211	Latest Results for Elasto-Plastic Identification at High Rates Using Inertial Impact. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2018 , 93-95	0.3	

210	Image-based high strain-rate testing for the characterization of viscoplasticity. <i>EPJ Web of Conferences</i> , 2018 , 183, 02032	0.3	
209	Inertial Impact Tests to Identify the Plastic Properties of Metals. <i>EPJ Web of Conferences</i> , 2018 , 183, 02051	0.3	1
208	Image-Based Inertial Impact Test for Composite Interlaminar Tensile Properties. <i>Journal of Dynamic Behavior of Materials</i> , 2018 , 4, 543-572	1.8	13
207	An Image-Based Impact Test for the High Strain Rate Tensile Properties of Brittle Materials. <i>EPJ Web of Conferences</i> , 2018 , 183, 02042	0.3	0
206	Image-based high strain rate testing of orthopaedic bone cement. <i>EPJ Web of Conferences</i> , 2018 , 183, 04014	0.3	
205	Combined shear/tension testing of fibre composites at high strain rates using an image-based inertial impact test. <i>EPJ Web of Conferences</i> , 2018 , 183, 02041	0.3	5
204	Deformation mechanisms of idealised cermets under multi-axial loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 102, 80-100	5	5
203	Viscoelastic Properties Identification Through Innovative Image-Based DMTA Strategy. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 207-209	0.3	
202	A Fourier-series-based virtual fields method for the identification of three-dimensional stiffness distributions and its application to incompressible materials. <i>Strain</i> , 2017 , 53, e12229	1.7	6
201	Characterisation of strain localisation processes during fatigue crack initiation and early crack propagation by SEM-DIC in an advanced disc alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 699, 128-144	5.3	40
200	Inertial Impact Method for the Through-Thickness Strength of Composites. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 105-108	0.3	1
199	Smoothly varying in-plane stiffness heterogeneity evaluated under uniaxial tensile stress. <i>Strain</i> , 2017 , 53, e12237	1.7	4
198	Sensitivity-based virtual fields for the non-linear virtual fields method. <i>Computational Mechanics</i> , 2017 , 60, 409-431	4	46
197	Image-Based Inertial Impact Tests on an Aluminum Alloy. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 219-223	0.3	1
196	Application of the virtual fields method to the identification of the homogeneous anisotropic hardening parameters for advanced high strength steels. <i>International Journal of Plasticity</i> , 2017 , 93, 229-250	7.6	23
195	Ultrasonic Test for High Rate Material Property Imaging. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 173-176	0.3	
194	Inertial Impact Tests on Polymers for Inverse Parameter Identification. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 187-190	0.3	
193	Characterization of dynamic hardening behavior using acceleration information. <i>Procedia Engineering</i> , 2017 , 207, 245-250		1

192	The Effect of Microstructure on Energy Dissipation in 316L Stainless Steel. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 15-19	0.3	1
191	Quantification of the Compressibility of Elastomers Using DIC. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 199-201	0.3	2
190	Determination of the Dynamic Strain Hardening Parameters from Acceleration Fields. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 213-218	0.3	
189	Inverse Identification of the Elasto-Plastic Response of Metals at High Strain Rates. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 203-205	0.3	
188	Inverse Identification of the High Strain Rate Properties of PMMA. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 195-197	0.3	1
187	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
186	Identification of nonlinear kinematic hardening constitutive model parameters using the virtual fields method for advanced high strength steels. <i>International Journal of Solids and Structures</i> , 2016 , 102-103, 30-43	3.1	13
185	A procedure for specimen optimization applied to material testing in plasticity with the virtual fields method 2016 ,		4
184	Addendum to "Characterising the Strain and Temperature Fields in a Surrogate Bone Material Subject to Power Ultrasonic Excitation" <i>Strain</i> , 2016 , 52, 186-190	1.7	5
183	Towards the design of a new standard for composite stiffness identification. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 91, 448-460	8.4	23
182	Exploration of Saint-Venant's Principle in Inertial High Strain Rate Testing of Materials. <i>Experimental Mechanics</i> , 2016 , 56, 3-23	2.6	15
181	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
180	Extension of the Non-linear Virtual Fields Method to Inertial Heterogeneous High Strain Rate Tests. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 83-87	0.3	1
179	Optimized Test Design for Identification of the Variation of Elastic Stiffness Properties of Loblolly Pine (<i>Pinus taeda</i>) Pith to Bark. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 67-76	0.3	2
178	Characterization of the Dynamic Strain Hardening Behavior from Full-field Measurements. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 23-28	0.3	
177	Full-Field Strain Imaging of Ultrasonic Waves in Solids. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 81-85	0.3	
176	Use of VFM for Heterogeneity Evaluation of Materials Under Uniaxial Tensile Stress. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 61-66	0.3	0
175	Optimised Experimental Characterisation of Polymeric Foam Material Using DIC and the Virtual Fields Method. <i>Strain</i> , 2016 , 52, 59-79	1.7	30

174	Depth-Resolved Full-Field Measurement of Corneal Deformation by Optical Coherence Tomography and Digital Volume Correlation. <i>Experimental Mechanics</i> , 2016 , 56, 1203-1217	2.6	21
173	Time-resolved full-field imaging of ultrasonic Lamb waves using deflectometry. <i>Experimental Mechanics</i> , 2016 , 56, 345-357	2.6	14
172	Identification of the Dynamic Properties of Al 5456 FSW Welds Using the Virtual Fields Method. <i>Journal of Dynamic Behavior of Materials</i> , 2015 , 1, 176-190	1.8	24
171	Extension of the Optimized Virtual Fields Method to estimate viscoelastic material parameters from 3D dynamic displacement fields. <i>Strain</i> , 2015 , 51, 110-134	1.7	13
170	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
169	On the identifiability of Anand visco-plastic model parameters using the Virtual Fields Method. <i>Acta Materialia</i> , 2015 , 86, 118-136	8.4	19
168	Uncertainty Quantification in VFM Identification. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015 , 137-142	0.3	2
167	Latest Results in Novel Inertial High Strain Rate Tests. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015 , 21-26	0.3	2
166	The application of digital volume correlation (DVC) to study the microstructural behaviour of trabecular bone during compression. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 29, 480-99	4.1	96
165	General Anisotropy Identification of Paperboard with Virtual Fields Method. <i>Experimental Mechanics</i> , 2014 , 54, 1395-1410	2.6	14
164	Determination of Anisotropic Plastic Constitutive Parameters Using the Virtual Fields Method. <i>Experimental Mechanics</i> , 2014 , 54, 1189-1204	2.6	53
163	Identification of dynamic loading on a bending plate using the Virtual Fields Method. <i>Journal of Sound and Vibration</i> , 2014 , 333, 7151-7164	3.9	42
162	A Fourier-series-based virtual fields method for the identification of 2-D stiffness distributions. <i>International Journal for Numerical Methods in Engineering</i> , 2014 , 98, 917-936	2.4	12
161	Beyond Hopkinson's bar. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 20130195	3	76
160	A Fourier-series-based Virtual Fields Method for the Identification of 2-D Stiffness and Traction Distributions. <i>Strain</i> , 2014 , 50, 454-468	1.7	7
159	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, 025401		24
158	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
157	Fast Fourier Virtual Fields Method for Determination of Modulus Distributions from Full-Field Optical Strain Data 2014 , 161-166		1

156	Anisotropy Evaluation of Paperboard With Virtual Fields Method. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014 , 163-170	0.3	
155	Parameter Determination of Anisotropic Yield Criterion. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014 , 253-257	0.3	
154	Characterisation of the bending stiffness components of MDF panels from full-field slope measurements. <i>Wood Science and Technology</i> , 2013 , 47, 423-441	2.5	25
153	Identification of Material Parameters of PVC Foams using Digital Image Correlation and the Virtual Fields Method. <i>Experimental Mechanics</i> , 2013 , 53, 1001-1015	2.6	41
152	Identification of the Local Elasto-Plastic Behavior of FSW Welds Using the Virtual Fields Method. <i>Experimental Mechanics</i> , 2013 , 53, 849-859	2.6	30
151	Characterization of the post-necking strain hardening behavior using the virtual fields method. <i>International Journal of Solids and Structures</i> , 2013 , 50, 3829-3842	3.1	135
150	Impact damage detection in composite plates using deflectometry and the Virtual Fields Method. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 48, 201-218	8.4	26
149	Identification of the Heterogeneous Elasto-plastic Behaviour of FSW Welds at High Strain Rates. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 41-44	0.3	
148	The Effects of Noise and Spatial Sampling on Identification of Material Parameters by Magnetic Resonance Elastography. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 161-168	0.3	
147	Elastic stiffness characterization using three-dimensional full-field deformation obtained with optical coherence tomography and digital volume correlation. <i>Journal of Biomedical Optics</i> , 2013 , 18, 121512	3.5	34
146	Assessment of Corneal Deformation Using Optical Coherence Tomography and Digital Volume Correlation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 155-160	0.3	1
145	Comparison of the Mechanical Behaviour of Standard and Auxetic Foams by X-ray Computed Tomography and Digital Volume Correlation. <i>Strain</i> , 2013 , 49, 467-482	1.7	34
144	Ultra high speed DIC on a three point bending test mounted on a Hopkinson bar. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 451-460	0.3	
143	Application of the Virtual Fields Method to Magnetic Resonance Elastography data. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 135-142	0.3	1
142	Development of a Test Simulator to Perform Optimized Experiment Design. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 345-347	0.3	
141	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
140	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
139	Identification of plastic constitutive parameters at large deformations from three dimensional displacement fields. <i>Computational Mechanics</i> , 2012 , 49, 53-71	4	73

138	Ultra-High-Speed Full-Field Deformation Measurements on Concrete Spalling Specimens and Stiffness Identification with the Virtual Fields Method. <i>Strain</i> , 2012 , 48, 388-405	1.7	74
137	Influence of the microstructural changes and induced residual stresses on tensile properties of wrought magnesium alloy friction stir welds. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 551, 288-292	5.3	41
136	Damage detection in composite materials using deflectometry, a full-field slope measurement technique. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 1650-1666	8.4	35
135	Composites Part A: Applied Science and Manufacturing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 1629	8.4	3
134	Identifying Constitutive Parameters from Heterogeneous Strain Fields using the Virtual Fields Method. <i>Procedia IUTAM</i> , 2012 , 4, 48-53		7
133	Soft and Biological Materials 2012 , 293-327		
132	The Virtual Fields Method 2012 ,		159
131	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
130	The virtual fields method applied to spalling tests on concrete. <i>EPJ Web of Conferences</i> , 2012 , 26, 01054-0.3		6
129	The Non-linear Virtual Fields Method 2012 , 107-120		
128	The VFM for Force Reconstruction 2012 , 375-393		
127	Design of New Tests for the VFM 2012 , 353-374		
126	Case Study I: Standard and Funny Isotropic Discs 2012 , 397-415		
125	The Camfit Program 2012 , 491-494		
124	Fiber Composites 2012 , 161-252		
123	Complements 2012 , 121-157		
122	The Principle of Virtual Work 2012 , 21-56		
121	Other Materials 2012 , 329-352		

120	Case Study II: Unnotched Iosipescu Test 2012 , 417-476		
119	Introduction, Main Equations and Notations 2012 , 3-19		1
118	Assessment of the Deformation of Low Density Polymeric Auxetic Foams by X-Ray Tomography and Digital Volume Correlation. <i>Applied Mechanics and Materials</i> , 2011 , 70, 93-98	0.3	8
117	Dissipative energy: monitoring microstructural evolutions during mechanical tests. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 59-65	0.3	
116	Off-Axis Ratcheting Behavior of a Unidirectional Carbon/Epoxy Laminate at High Temperature. <i>Polymers and Polymer Composites</i> , 2011 , 19, 383-390	0.8	1
115	Texture evolution in Nd:YAG-laser welds of AZ31 magnesium alloy hot rolled sheets and its influence on mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2049-2055	5.3	11
114	Experimental Energy Balance During the First Cycles of Cyclically Loaded Specimens Under the Conventional Yield Stress. <i>Experimental Mechanics</i> , 2011 , 51, 23-44	2.6	28
113	Ultra High Speed DIC and Virtual Fields Method Analysis of a Three Point Bending Impact Test on an Aluminium Bar. <i>Experimental Mechanics</i> , 2011 , 51, 537-563	2.6	90
112	Full-Field Strain Measurement and Identification of Composites Moduli at High Strain Rate with the Virtual Fields Method. <i>Experimental Mechanics</i> , 2011 , 51, 509-536	2.6	78
111	Dissipated energy measurements as a marker of microstructural evolution: 316L and DP600. <i>Acta Materialia</i> , 2011 , 59, 4100-4115	8.4	41
110	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
109	Local Elasto-Plastic Identification of the Behaviour of Friction Stir Welds with the Virtual Fields Method. <i>Applied Mechanics and Materials</i> , 2011 , 70, 135-140	0.3	2
108	Characterizing elastic properties of superconducting windings by simulations and experiments. <i>Superconductor Science and Technology</i> , 2011 , 24, 125001	3.1	2
107	Full-Field Strain Measurement On Titanium Welds And Local Elasto-Plastic Identification With The Virtual Fields Method 2011 ,		3
106	Dissipative energy as an indicator of material microstructural evolution. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 71-72	0.3	
105	Identification of material damping in vibrating plates using full-field measurements. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 1187-1192	0.3	
104	Ultra high speed full-field strain measurements on spalling tests on concrete materials. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 221-228	0.3	3
103	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

102	Identification of the Mechanical Properties of Superconducting Windings Using the Virtual Fields Method. <i>Applied Mechanics and Materials</i> , 2010 , 24-25, 379-384	0.3	
101	Dissipative energy as an indicator of material microstructural evolution. <i>EPJ Web of Conferences</i> , 2010 , 6, 38013	0.3	2
100	Identification of Poisson's ratios of standard and auxetic low-density polymeric foams from full-field measurements. <i>Journal of Strain Analysis for Engineering Design</i> , 2010 , 45, 233-253	1.3	28
99	Comparison of two approaches for differentiating full-field data in solid mechanics. <i>Measurement Science and Technology</i> , 2010 , 21, 015703	2	41
98	Correlation between Full-Field Measurements and Numerical Simulation Results for Multiple Delamination Composite Specimens in Bending. <i>Applied Mechanics and Materials</i> , 2010 , 24-25, 109-114	0.3	3
97	Identification of the Mechanical Properties of Superconducting Windings Using the Virtual Fields Method. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 1993-1997	1.8	4
96	Measurement of Vibrating Plate Spatial Responses Using Deflectometry and High Speed Camera 2010 ,		2
95	Mechanical properties of low density polymeric foams obtained from full-field measurements. <i>EPJ Web of Conferences</i> , 2010 , 6, 37006	0.3	4
94	An alternative to modal analysis for material stiffness and damping identification from vibrating plates. <i>Journal of Sound and Vibration</i> , 2010 , 329, 1653-1672	3.9	29
93	Extension of the virtual fields method to elasto-plastic material identification with cyclic loads and kinematic hardening. <i>International Journal of Solids and Structures</i> , 2010 , 47, 2993-3010	3.1	61
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