Fabrice Pierron

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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	Overview of Identification Methods of Mechanical Parameters Based on Full-field Measurements. *Experimental Mechanics*, **2008**, 48, 381-402	2.6	485
262	The Virtual Fields Method for Extracting Constitutive Parameters From Full-Field Measurements: a Review. *Strain*, **2006**, 42, 233-253	1.7	162
261	The Virtual Fields Method **2012**,		159
260	Applying the Virtual Fields Method to the identification of elasto-plastic constitutive parameters. *International Journal of Plasticity*, **2006**, 22, 602-627	7.6	150
259	Coronary artery spasm in patients with normal or near normal coronary arteries. Long-term follow-up of 277 patients. *European Heart Journal*, **1996**, 17, 1015-21	9.5	136
258	Characterization of the post-necking strain hardening behavior using the virtual fields method. *International Journal of Solids and Structures*, **2013**, 50, 3829-3842	3.1	135
257	Sensitivity of the virtual fields method to noisy data. *Computational Mechanics*, **2004**, 34, 439-452	4	130
256	Special virtual fields for the direct determination of material parameters with the virtual fields method. 1Principle and definition. *International Journal of Solids and Structures*, **2002**, 39, 2691-2705	3.1	123
255	General framework for the identification of constitutive parameters from full-field measurements in linear elasticity. *International Journal of Solids and Structures*, **2007**, 44, 4978-5002	3.1	108
254	Identification of elasto-visco-plastic parameters and characterization of Lüders behavior using digital image correlation and the virtual fields method. *Mechanics of Materials*, **2008**, 40, 729-742	3.3	102
253	The application of digital volume correlation (DVC) to study the microstructural behaviour of trabecular bone during compression. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 29, 480-99	4.1	96
252	Ultra High Speed DIC and Virtual Fields Method Analysis of a Three Point Bending Impact Test on an Aluminium Bar. *Experimental Mechanics*, **2011**, 51, 537-563	2.6	90
251	A comparison between the Iosipescu and off-axis shear test methods for the characterization of Pinus Pinaster Ait. *Composites Part A: Applied Science and Manufacturing*, **2004**, 35, 827-840	8.4	90
250	A Numerical and Experimental Study of Woven Composite Pin-Joints. *Journal of Composite Materials*, **2000**, 34, 1028-1054	2.7	82
249	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	3.1	80
248	Full-Field Strain Measurement and Identification of Composites Moduli at High Strain Rate with the Virtual Fields Method. *Experimental Mechanics*, **2011**, 51, 509-536	2.6	78
247	Heat dissipation measurements in low stress cyclic loading of metallic materials: From internal friction to micro-plasticity. *Mechanics of Materials*, **2009**, 41, 928-942	3.3	77

246	Special virtual fields for the direct determination of material parameters with the virtual fields method. 2Application to in-plane properties. *International Journal of Solids and Structures*, **2002**, 39, 2707-2730	3.1	77
245	Beyond Hopkinson's bar. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2014**, 372, 20130195	3	76
244	Effect of DIC Spatial Resolution, Noise and Interpolation Error on Identification Results with the VFM. *Strain*, **2015**, 51, 206-222	1.7	74
243	Ultra-High-Speed Full-Field Deformation Measurements on Concrete Spalling Specimens and Stiffness Identification with the Virtual Fields Method. *Strain*, **2012**, 48, 388-405	1.7	74
242	Identification of plastic constitutive parameters at large deformations from three dimensional displacement fields. *Computational Mechanics*, **2012**, 49, 53-71	4	73
241	Identification of the Orthotropic Elastic Stiffnesses of Composites with the Virtual Fields Method: Sensitivity Study and Experimental Validation. *Strain*, **2007**, 43, 250-259	1.7	68
240	Stress Reconstruction and Constitutive Parameter Identification in Plane-Stress Elasto-plastic Problems Using Surface Measurements of Deformation Fields. *Experimental Mechanics*, **2008**, 48, 403-419	2.6	65
239	Novel procedure for complete in-plane composite characterization using a single T-shaped specimen. *Experimental Mechanics*, **1999**, 39, 142-149	2.6	65
238	Extension of the virtual fields method to elasto-plastic material identification with cyclic loads and kinematic hardening. *International Journal of Solids and Structures*, **2010**, 47, 2993-3010	3.1	61
237	The virtual fields method with piecewise virtual fields. *International Journal of Mechanical Sciences*, **2006**, 48, 256-264	5.5	59
236	Identification of Heterogeneous Constitutive Parameters in a Welded Specimen: Uniform Stress and Virtual Fields Methods for Material Property Estimation. *Experimental Mechanics*, **2008**, 48, 451-464	2.6	56
235	Identification of Elasto-Plastic Constitutive Parameters from Statically Undetermined Tests Using the Virtual Fields Method. *Experimental Mechanics*, **2006**, 46, 735-755	2.6	56
234	Experimental identification of a nonlinear model for composites using the grid technique coupled to the virtual fields method. *Composites Part A: Applied Science and Manufacturing*, **2006**, 37, 315-325	8.4	56
233	The 10 ° off-axis tensile test: A critical approach. *Composites Science and Technology*, **1996**, 56, 483-488	8.6	56
232	Full-field assessment of the damage process of laminated composite open-hole tensile specimens. Part II: Experimental results. *Composites Part A: Applied Science and Manufacturing*, **2007**, 38, 2321-2332	8.4	55
231	Edge machining effects on the failure of polymer matrix composite coupons. *Composites Part A: Applied Science and Manufacturing*, **2004**, 35, 989-999	8.4	55
230	Determination of Anisotropic Plastic Constitutive Parameters Using the Virtual Fields Method. *Experimental Mechanics*, **2014**, 54, 1189-1204	2.6	53
229	Identification of the through-thickness moduli of thick composites from whole-field measurements using the Iosipescu fixture: theory and simulations. *Composites Part A: Applied Science and Manufacturing*, **2000**, 31, 309-318	8.4	51

228	Novel experimental approach for longitudinal-radial stiffness characterisation of clear wood by a single test. *Holzforschung*, **2007**, 61, 573-581	2	49
227	Measurement of the in-plane shear strengths of unidirectional composites with the Iosipescu test. *Composites Science and Technology*, **1998**, 57, 1653-1660	8.6	47
226	Full-field assessment of the damage process of laminated composite open-hole tensile specimens. Part I: Methodology. *Composites Part A: Applied Science and Manufacturing*, **2007**, 38, 2307-2320	8.4	47
225	Sensitivity-based virtual fields for the non-linear virtual fields method. *Computational Mechanics*, **2017**, 60, 409-431	4	46
224	Application of the virtual fields method to large strain anisotropic plasticity. *International Journal of Solids and Structures*, **2016**, 97-98, 322-335	3.1	45
223	Special virtual fields for the direct determination of material parameters with the virtual fields method. 3. Application to the bending rigidities of anisotropic plates. *International Journal of Solids and Structures*, **2003**, 40, 2401-2419	3.1	45
222	A T-shaped specimen for the direct characterization of orthotropic materials. *International Journal for Numerical Methods in Engineering*, **1998**, 41, 293-309	2.4	44
221	Identification of the through-thickness properties of thick laminated tubes using the virtual fields method. *International Journal of Solids and Structures*, **2000**, 37, 4437-4453	3.1	44
220	Identification of dynamic loading on a bending plate using the Virtual Fields Method. *Journal of Sound and Vibration*, **2014**, 333, 7151-7164	3.9	42
219	Estimation of the strain field from full-field displacement noisy data. *European Journal of Computational Mechanics*, **2008**, 17, 857-868	0.5	42
218	Identification of Material Parameters of PVC Foams using Digital Image Correlation and the Virtual Fields Method. *Experimental Mechanics*, **2013**, 53, 1001-1015	2.6	41
217	Influence of the microstructural changes and induced residual stresses on tensile properties of wrought magnesium alloy friction stir welds. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 551, 288-292	5.3	41
216	Comparison of two approaches for differentiating full-field data in solid mechanics. *Measurement Science and Technology*, **2010**, 21, 015703	2	41
215	Dissipated energy measurements as a marker of microstructural evolution: 316L and DP600. *Acta Materialia*, **2011**, 59, 4100-4115	8.4	41
214	Influence of specimen preparation by machining on the failure of polymer matrix off-axis tensile coupons. *Composites Science and Technology*, **2006**, 66, 1857-1872	8.6	41
213	Characterisation of strain localisation processes during fatigue crack initiation and early crack propagation by SEM-DIC in an advanced disc alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 699, 128-144	5.3	40
212	A Novel Procedure for Identification of 3D Moisture Diffusion Parameters on Thick Composites: Theory, Validation and Experimental Results. *Journal of Composite Materials*, **2002**, 36, 2219-2243	2.7	40
211	Identification of the local stiffness reduction of a damaged composite plate using the virtual fields method. *Composites Part A: Applied Science and Manufacturing*, **2007**, 38, 2065-2075	8.4	39

210	Identification of the through-thickness rigidities of a thick laminated composite tube. *Composites Part A: Applied Science and Manufacturing*, **2006**, 37, 326-336	8.4	38
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208	Accurate comparative determination of the in-plane shear modulus of T300/914 by the iosipescu and 45° off-axis tests. *Composites Science and Technology*, **1994**, 52, 61-72	8.6	38
207	3D Heterogeneous Stiffness Reconstruction Using MRI and the Virtual Fields Method. *Experimental Mechanics*, **2008**, 48, 479-494	2.6	37
206	Saint-Venant Effects in the Iosipescu Specimen. *Journal of Composite Materials*, **1998**, 32, 1986-2015	2.7	37
205	Variation of transverse and shear stiffness properties of wood in a tree. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 1953-1960	8.4	36
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201	Elastic stiffness characterization using three-dimensional full-field deformation obtained with optical coherence tomography and digital volume correlation. *Journal of Biomedical Optics*, **2013**, 18, 121512	3.5	34
200	Comparison of the Mechanical Behaviour of Standard and Auxetic Foams by X-ray Computed Tomography and Digital Volume Correlation. *Strain*, **2013**, 49, 467-482	1.7	34
199	The Iosipescu in-plane shear test applied to composites: A new approach based on displacement field processing. *Composites Science and Technology*, **1994**, 51, 409-417	8.6	33
198	Identification of the Local Elasto-Plastic Behavior of FSW Welds Using the Virtual Fields Method. *Experimental Mechanics*, **2013**, 53, 849-859	2.6	30
197	On the realization of microscopic grids for local strain measurement by direct interferometric photolithography. *Optics and Lasers in Engineering*, **2007**, 45, 1131-1147	4.6	30
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195	An alternative to modal analysis for material stiffness and damping identification from vibrating plates. *Journal of Sound and Vibration*, **2010**, 329, 1653-1672	3.9	29
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193	Identification of Poisson's ratios of standard and auxetic low-density polymeric foams from full-field measurements. *Journal of Strain Analysis for Engineering Design*, **2010**, 45, 233-253	1.3	28

192	Strain accumulation and fatigue crack initiation at pores and carbides in a SX superalloy at room temperature. *International Journal of Fatigue*, **2018**, 114, 22-33	5	27
191	Stiffness and Damping Identification from Full Field Measurements on Vibrating Plates. *Experimental Mechanics*, **2006**, 46, 777-787	2.6	27
190	Impact damage detection in composite plates using deflectometry and the Virtual Fields Method. *Composites Part A: Applied Science and Manufacturing*, **2013**, 48, 201-218	8.4	26
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186	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	2	24
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184	Towards the design of a new standard for composite stiffness identification. *Composites Part A: Applied Science and Manufacturing*, **2016**, 91, 448-460	8.4	23
183	Application of the virtual fields method to the identification of the homogeneous anisotropic hardening parameters for advanced high strength steels. *International Journal of Plasticity*, **2017**, 93, 229-250	7.6	23
182	A Novel Image-based Ultrasonic Test to Map Material Mechanical Properties at High Strain-rates. *Experimental Mechanics*, **2018**, 58, 183-206	2.6	21
181	New Ideas on the Measurement of the In-Plane Shear Strength of Unidirectional Composites. *Journal of Composite Materials*, **1997**, 31, 889-895	2.7	21
180	Depth-Resolved Full-Field Measurement of Corneal Deformation by Optical Coherence Tomography and Digital Volume Correlation. *Experimental Mechanics*, **2016**, 56, 1203-1217	2.6	21
179	An Image-Based Inertial Impact (IBII) Test for Tungsten Carbide Cermets. *Journal of Dynamic Behavior of Materials*, **2018**, 4, 481-504	1.8	20
178	Performances and Limitations of Three Ultra High-Speed Imaging Cameras for Full-Field Deformation Measurements. *Applied Mechanics and Materials*, **2011**, 70, 81-86	0.3	20
177	Numerical issues in the virtual fields method. *International Journal for Numerical Methods in Engineering*, **2004**, 59, 1287-1312	2.4	20
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174	Reduction of tool wear in metal cutting using external electromotive sources. *Surface and Coatings Technology*, **2003**, 163-164, 472-477	4.4	19
173	A Procedure for Producing Reflective Coatings on Plates to be Used for Full-Field Slope Measurements by a Deflectometry Technique. *Strain*, **2007**, 43, 138-144	1.7	18
172	A Novel Image-Based Inertial Impact Test (IBII) for the Transverse Properties of Composites at High Strain Rates. *Journal of Dynamic Behavior of Materials*, **2019**, 5, 65-92	1.8	17
171	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	5.5	16
170	Virtual Fields Method, The301-330		16
169	Exploration of Saint-Venant Principle in Inertial High Strain Rate Testing of Materials. *Experimental Mechanics*, **2016**, 56, 3-23	2.6	15
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164	Extension of the Optimized Virtual Fields Method to estimate viscoelastic material parameters from 3D dynamic displacement fields. *Strain*, **2015**, 51, 110-134	1.7	13
163	Identification of nonlinear kinematic hardening constitutive model parameters using the virtual fields method for advanced high strength steels. *International Journal of Solids and Structures*, **2016**, 102-103, 30-43	3.1	13
162	Evaluation of Volume Deformation from Surface DIC Measurement. *Experimental Mechanics*, **2018**, 58, 1181-1194	2.6	13
161	Image-Based Inertial Impact Test for Composite Interlaminar Tensile Properties. *Journal of Dynamic Behavior of Materials*, **2018**, 4, 543-572	1.8	13
160	A Fourier-series-based virtual fields method for the identification of 2-D stiffness distributions. *International Journal for Numerical Methods in Engineering*, **2014**, 98, 917-936	2.4	12
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158	A computational approach to design new tests for viscoplasticity characterization at high strain-rates. *Computational Mechanics*, **2019**, 64, 1639-1654	4	11
157	Texture evolution in Nd:YAG-laser welds of AZ31 magnesium alloy hot rolled sheets and its influence on mechanical properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 2049-2055	5.3	11

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155	L'identification des propriétés mécaniques de matériaux avec la méthode des champs virtuels, une alternative au recalage par éléments finis. *Comptes Rendus - Mecanique*, **2002**, 330, 107-112	2.1	10
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153	Simultaneous identification of stiffness and damping properties of isotropic materials from forced vibrating plates. *Comptes Rendus - Mecanique*, **2003**, 331, 259-264	2.1	9
152	Measuring orthotropic bending stiffness components of Pinus pinaster by the virtual fields method. *Journal of Strain Analysis for Engineering Design*, **2018**, 53, 556-565	1.3	8
151	A Practical Procedure for Measuring the Stiffness of Foam like Materials. *Experimental Techniques*, **2018**, 42, 439-452	1.4	8
150	Infrared Deflectometry for Slope Deformation Measurements. *Experimental Mechanics*, **2019**, 59, 1187-1202	2.2	8
149	Assessment of the Deformation of Low Density Polymeric Auxetic Foams by X-Ray Tomography and Digital Volume Correlation. *Applied Mechanics and Materials*, **2011**, 70, 93-98	0.3	8
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147	Identification of shear bands in wrought magnesium alloy friction stir welds and laser beam welds. *Materials Science and Technology*, **2009**, 25, 1215-1221	1.5	8
146	The Virtual Fields Method for Extracting Constitutive Parameters From Full-Field Measurements: a Review. *Strain*, **2008**, 42, 233-253	1.7	8
145	A Numerical and Experimental Study of Woven Composite Pin-Joints		8
144	A Fourier-series-based Virtual Fields Method for the Identification of 2-D Stiffness and Traction Distributions. *Strain*, **2014**, 50, 454-468	1.7	7
143	Identifying Constitutive Parameters from Heterogeneous Strain Fields using the Virtual Fields Method. *Procedia IUTAM*, **2012**, 4, 48-53		7
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140	Experimental Validation of the Sensitivity-Based Virtual Fields for Identification of Anisotropic Plasticity Models. *Experimental Mechanics*, **2020**, 60, 639-664	2.6	6
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138	The virtual fields method applied to spalling tests on concrete. *EPJ Web of Conferences*, **2012**, 26, 01054	0.3	6
137	Image-Based Inertial Impact Test for Characterisation of Strain Rate Dependency of Ti6Al4V Titanium Alloy. *Experimental Mechanics*, **2020**, 60, 235-248	2.6	6
136	Characterisation of 3D printed sand moulds using micro-focus X-ray computed tomography. *Rapid Prototyping Journal*, **2019**, 25, 404-416	3.8	6
135	Deformation mechanisms of idealised cermets under multi-axial loading. *Journal of the Mechanics and Physics of Solids*, **2017**, 102, 80-100	5	5
134	Full-Field Surface Pressure Reconstruction Using the Virtual Fields Method. *Experimental Mechanics* , **2019**, 59, 1203-1221	2.6	5
133	Mechanisms of root reinforcement in soils: an experimental methodology using four-dimensional X-ray computed tomography and digital volume correlation. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2020**, 476, 20190838	2.4	5
132	Addendum to Characterising the Strain and Temperature Fields in a Surrogate Bone Material Subject to Power Ultrasonic Excitation *Strain*, **2016**, 52, 186-190	1.7	5
131	Generalized Stress Strain Curves for IBII Tests on Isotropic and Orthotropic Materials. *Journal of Dynamic Behavior of Materials*, **2019**, 5, 180-193	1.8	5
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127	Deflectometry on Curved Surfaces. *Conference Proceedings of the Society for Experimental Mechanics*, **2019**, 217-221	0.3	5
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125	Smoothly varying in-plane stiffness heterogeneity evaluated under uniaxial tensile stress. *Strain*, **2017**, 53, e12237	1.7	4
124	Reconstruction of surface-pressure fluctuations using deflectometry and the virtual fields method. *Experiments in Fluids*, **2020**, 61, 1	2.5	4
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122	Identification of the Mechanical Properties of Superconducting Windings Using the Virtual Fields Method. *IEEE Transactions on Applied Superconductivity*, **2010**, 20, 1993-1997	1.8	4
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118	Image-Based Stress Field Reconstruction in Complex Media. *Conference Proceedings of the Society for Experimental Mechanics*, **2019**, 101-104	0.3	4
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116	The Off-Axis IBII Test for Composites. *Journal of Dynamic Behavior of Materials*, **2021**, 7, 127-155	1.8	4
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114	Correlation between Full-Field Measurements and Numerical Simulation Results for Multiple Delamination Composite Specimens in Bending. *Applied Mechanics and Materials*, **2010**, 24-25, 109-114	0.3	3
113	Full-Field Strain Measurement On Titanium Welds And Local Elasto-Plastic Identification With The Virtual Fields Method **2011**,		3
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111	The Image-Based Inertial Release (IBIR) Test: A New High Strain Rate Test for Stiffness Strain-Rate Sensitivity Identification. *Experimental Mechanics*, **2020**, 60, 493-508	2.6	3
110	Ultra high speed full-field strain measurements on spalling tests on concrete materials. *Conference Proceedings of the Society for Experimental Mechanics*, **2011**, 221-228	0.3	3
109	Dissipative energy as an indicator of material microstructural evolution. *EPJ Web of Conferences*, **2010**, 6, 38013	0.3	2
108	Measurement of Vibrating Plate Spatial Responses Using Deflectometry and High Speed Camera **2010**,		2
107	Local Elasto-Plastic Identification of the Behaviour of Friction Stir Welds with the Virtual Fields Method. *Applied Mechanics and Materials*, **2011**, 70, 135-140	0.3	2
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103	Optimization of the Unnotched Iosipescu Test on Composites for Identification from Full-Field Measurements. *Applied Mechanics and Materials*, **2006**, 5-6, 125-134	0.3	2

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101	Uncertainty Quantification in VFM Identification. *Conference Proceedings of the Society for Experimental Mechanics*, **2015**, 137-142	0.3	2
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95	Data rich imaging approaches assessing fatigue crack initiation and early propagation in a DS superalloy at room temperature. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 805, 140592	5.3	2
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92	Identification of the Anisotropic Plastic Behaviour of Sheet Metals at Large Strains. *Conference Proceedings of the Society for Experimental Mechanics*, **2013**, 229-235	0.3	2
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90	Understanding the mechanisms of root-reinforcement in soils: soil shear tests using X-ray computed tomography and digital volume correlation. *E3S Web of Conferences*, **2019**, 92, 12009	0.5	1
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