

Francois Hild

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

425
papers

11,351
citations

54
h-index

93
g-index

446
ext. papers

12,691
ext. citations

2.9
avg, IF

6.64
L-index

#	Paper	IF	Citations
4 ²⁵	Multiscalar DIC analyses of granular string under stretch reveal non-standard deformation mechanisms. <i>International Journal of Solids and Structures</i> , 2022 , 239-240, 111402	3.1	0
4 ²⁴	An algorithm for structural health monitoring by digital image correlation: Proof of concept and case study. <i>Optics and Lasers in Engineering</i> , 2022 , 151, 106842	4.6	0
4 ²³	On accounting for speckle extinction via DIC and PCA. <i>Optics and Lasers in Engineering</i> , 2022 , 149, 106813	4.6	1
4 ²²	Digital Volume Correlation analyses to study deformation and damage mechanisms of teak in torsion. <i>Comptes Rendus - Mecanique</i> , 2022 , 350, 85-98	0.3	
4 ²¹	Parametric Experimentation to Evaluate Chiral Bars Representative of Granular Motif. <i>International Journal of Mechanical Sciences</i> , 2022 , 221, 107184	5.5	0
4 ²⁰	Local-global DVC analyses confirm theoretical predictions for deformation and damage onset in torsion of pantographic metamaterial. <i>Mechanics of Materials</i> , 2022 , 104379	3.3	2
4 ¹⁹	Insights into a dual-phase steel microstructure using EBSD and image-processing-based workflow. <i>Journal of Applied Crystallography</i> , 2022 , 55, 601-610	3.8	0
4 ¹⁸	Poynting effects in pantographic metamaterial captured via multiscale DVC. <i>Journal of Strain Analysis for Engineering Design</i> , 2021 , 56, 462-477	1.3	11
4 ¹⁷	Effects of Mechanical Post-Treatments on Additive Manufactured 17-4PH Stainless Steel Produced by Bound Powder Extrusion. <i>Procedia CIRP</i> , 2021 , 104, 957-961	1.8	2
4 ¹⁶	Heat treatment effect on 17-4PH stainless steel manufactured by Atomic Diffusion Additive Manufacturing (ADAM). <i>Procedia CIRP</i> , 2021 , 104, 935-938	1.8	2
4 ¹⁵	On the validation of a priori estimates of standard displacement uncertainties in T3-stereocorrelation. <i>Measurement Science and Technology</i> , 2021 , 32, 024004	2	1
4 ¹⁴	Optimized gauging for tireâ€”m loading identification. <i>European Journal of Mechanics, A/Solids</i> , 2021 , 87, 104192	3.7	1
4 ¹³	Effective Toughness of Heterogeneous Materials with Rate-Dependent Fracture Energy. <i>Physical Review Letters</i> , 2021 , 127, 035501	7.4	4
4 ¹²	Digital image correlation applied to in situ evaluation of surface cracks upon curing of MgO-containing refractory castables. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 1003-1014	6	1
4 ¹¹	Toward virtual design and optimization of a structural test monitored by a multi-view system. <i>Journal of Strain Analysis for Engineering Design</i> , 2021 , 56, 112-128	1.3	3
4 ¹⁰	Multiscale DIC Applied to Pantographic Structures. <i>Experimental Mechanics</i> , 2021 , 61, 431-443	2.6	19
4 ⁰⁹	On the benefits of correcting brightness and contrast in global digital image correlation: Monitoring cracks during curing and drying of a refractory castable. <i>Optics and Lasers in Engineering</i> , 2021 , 136, 106316	4.6	6

408	On the validation of homogenized modeling for bi-pantographic metamaterials via digital image correlation. <i>International Journal of Solids and Structures</i> , 2021 , 208-209, 49-62	3.1	14
407	Interlaboratory Study of Digital Volume Correlation Error Due to X-Ray Computed Tomography Equipment and Scan Parameters: an Update from the DVC Challenge. <i>Experimental Mechanics</i> , 2021 , 61, 395-410	2.6	3
406	In-situ X-CT Test on Mortar Micro-specimen Coupled with Mesoscale Numerical Simulations of Fracture. <i>RILEM Bookseries</i> , 2021 , 239-251	0.5	1
405	Crack growth measurement and J-integral evaluation of additively manufactured polymer using digital image correlation and FE modeling. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 1318-1335	3	0
404	Displacement Uncertainty Quantifications in T3-Stereocorrelation. <i>Experimental Mechanics</i> , 2021 , 61, 771-790	2.6	0
403	On the effect of sintering temperature on the fracture energy of an Alumina-Mullite-Zirconia castable at 600 °C. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 4406-4418	6	5
402	Fracture energy evaluation of refractories in wedge splitting tests from notch opening displacements. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 5367-5379	6	1
401	Mesoscale modeling and experimental analyses for pantographic cells: Effect of hinge deformation. <i>Mechanics of Materials</i> , 2021 , 160, 103924	3.3	5
400	Sub-pixel detection of laser-induced damage and its growth on fused silica optics using registration residuals. <i>Optics Express</i> , 2021 , 29, 35820-35836	3.3	2
399	On crystallographic aspects of heterogeneous plastic flow during ductile tearing: 3D measurements and crystal plasticity simulations for AA7075-T651. <i>International Journal of Plasticity</i> , 2021 , 144, 103028	7.6	7
398	Pyramidal adaptive meshing for Digital Image Correlation dealing with cracks. <i>Engineering Fracture Mechanics</i> , 2021 , 256, 107931	4.2	0
397	Detection and tracking of laser damage sites on fused silica components by digital image correlation. <i>Optics and Lasers in Engineering</i> , 2021 , 146, 106674	4.6	5
396	On the calibration of cohesive parameters for refractories from notch opening displacements in wedge splitting tests. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 7348-7361	6	0
395	Application of different imaging techniques for the characterization of damage in fiber reinforced polymer. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 150, 106576	8.4	1
394	J-integral evaluation of additively manufactured polymer using local kinematic field measurements and finite element simulations. <i>Procedia Structural Integrity</i> , 2020 , 28, 393-402	1	0
393	Modal analysis of a wind turbine tower by digital image correlation. <i>Journal of Physics: Conference Series</i> , 2020 , 1618, 022002	0.3	0
392	Creep behavior identification of an environmental barrier coating using full-field measurements. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 5704-5718	6	2
391	Displacement uncertainties with multiview correlation schemes. <i>Journal of Strain Analysis for Engineering Design</i> , 2020 , 55, 199-211	1.3	3

390	A modal approach for shape defect measurement based on global stereocorrelation. <i>Optics and Lasers in Engineering</i> , 2020 , 128, 106030	4.6	3
389	Stereocorrelation Formalism Considering Brightness and Contrast Effects: Application to Torsional Loadings. <i>Experimental Mechanics</i> , 2020 , 60, 727-732	2.6	3
388	Measuring acceleration fields via regularized digital image correlation. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2020 , 7,	2.7	2
387	Projection-Based Measurement and Identification. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 125-129	0.3	
386	Digital Volume Correlation of Laminographic and Tomographic Images: Results and Challenges. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2020 , 3-20	0.3	0
385	Digital Volume Correlation: Progress and Challenges. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 113-115	0.3	4
384	Microscale mechanical characterization of 17-4PH stainless steel fabricated by Atomic Diffusion Additive Manufacturing (ADAM). <i>Procedia Structural Integrity</i> , 2020 , 28, 1039-1046	1	2
383	Optimal digital color image correlation. <i>Optics and Lasers in Engineering</i> , 2020 , 127, 105896	4.6	4
382	Two-dimensional continua capable of large elastic extension in two independent directions: Asymptotic homogenization, numerical simulations and experimental evidence. <i>Mechanics Research Communications</i> , 2020 , 103, 103466	2.2	24
381	Large in-plane elastic deformations of bi-pantographic fabrics: asymptotic homogenization and experimental validation. <i>Mathematics and Mechanics of Solids</i> , 2020 , 25, 739-767	2.3	51
380	Uniaxial compression test on ceramic green compact with bending consideration using digital image correlation. <i>Powder Technology</i> , 2020 , 376, 136-148	5.2	3
379	On the identification of cohesive zone model for curved crack in mortar. <i>Strain</i> , 2020 , 56, e12364	1.7	5
378	Study of Frictional Effects of Granite Subjected to Quasi-Static Contact Loading. <i>Lubricants</i> , 2020 , 8, 1063.1		0
377	Optimal procedure for the identification of constitutive parameters from experimentally measured displacement fields. <i>International Journal of Solids and Structures</i> , 2020 , 184, 14-23	3.1	9
376	Hybrid Multiview Correlation for Measuring and Monitoring Thermomechanical Fatigue Test. <i>Experimental Mechanics</i> , 2020 , 60, 13-33	2.6	2
375	Global digital image correlation up to very high temperatures with grey level corrections. <i>Measurement Science and Technology</i> , 2020 , 31, 024003	2	13
374	Experimental database of mixed-mode crack propagation tests performed on mortar specimens with a hexapod and full-field measurements. Part II: interactive loading. <i>Cement and Concrete Research</i> , 2019 , 125, 105867	10.3	1
373	Complete mechanical regularization applied to digital image and volume correlation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 355, 27-43	5.7	11

372	Advances in pantographic structures: design, manufacturing, models, experiments and image analyses. <i>Continuum Mechanics and Thermodynamics</i> , 2019 , 31, 1231-1282	3.5	153
371	Analysis of a castable refractory using the wedge splitting test and cohesive zone model. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 3903-3914	6	9
370	Simultaneous full-field multi-experiment identification. <i>Mechanics of Materials</i> , 2019 , 133, 71-84	3.3	2
369	Crack initiation and propagation under thermal fatigue of austenitic stainless steel. <i>International Journal of Fatigue</i> , 2019 , 124, 149-166	5	8
368	Measurement of kinematic fields via DIC for impact engineering applications. <i>International Journal of Impact Engineering</i> , 2019 , 130, 163-171	4	8
367	Estimation of elastic strain by integrated image correlation on electron diffraction patterns. <i>Ultramicroscopy</i> , 2019 , 199, 16-33	3.1	16
366	Pantographic metamaterials: an example of mathematically driven design and of its technological challenges. <i>Continuum Mechanics and Thermodynamics</i> , 2019 , 31, 851-884	3.5	200
365	Sub-minute In Situ Fracture Test in a Laboratory CT Scanner. <i>Integrating Materials and Manufacturing Innovation</i> , 2019 , 8, 413-422	2.9	3
364	Mechanically Regularized FE DIC for Heterogeneous Materials. <i>Experimental Mechanics</i> , 2019 , 59, 1159-1170	1.7	2
363	Damage observation in glass fiber reinforced composites via Tomography. <i>Materials Today: Proceedings</i> , 2019 , 12, 185-191	1.4	0
362	Calibrating thermoelastic stress analysis with integrated digital image correlation: Application to fatigue cracks. <i>Journal of Strain Analysis for Engineering Design</i> , 2019 , 54, 320-330	1.3	3
361	Optimal Parameterization of Tire-Rim Interaction for Aircraft Wheels. <i>Journal of Aircraft</i> , 2019 , 56, 2032-2046	1.2	2
360	Uncertainty Quantifications for Multiviewcorrelation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 59-61	0.3	
359	On Performing Spatiotemporal Stereocorrelation at Very High Temperatures. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 181-183	0.3	
358	A Multi-disciplinary Approach for Mechanical Metamaterial Synthesis: A Hierarchical Modular Multiscale Cellular Structure Paradigm. <i>Advanced Structured Materials</i> , 2019 , 485-505	0.6	25
357	Inverse Identification of the Loading Applied by a Tire on a Landing Gear Wheel. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 13-16	0.3	1
356	A comparative study of image segmentation methods for micromechanical simulations of ductile damage. <i>Computational Materials Science</i> , 2019 , 159, 43-65	3.2	9
355	On the Inelastic Mechanical Behavior of Granite: Study Based on Quasi-oedometric and Indentation Tests. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 645-657	5.7	10

354	Fast four-dimensional tensile test monitored via X-ray computed tomography: Elastoplastic identification from radiographs. <i>Journal of Strain Analysis for Engineering Design</i> , 2019 , 54, 44-53	1.3	5
353	Characterizing Fracturing of Clay-Rich Lower Watrous Rock: From Laboratory Experiments to Nonlocal Damage-Based Simulations. <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 1777-1787	5.7	9
352	Effect of void arrangement on ductile damage mechanisms in nodular graphite cast iron: In situ 3D measurements. <i>Engineering Fracture Mechanics</i> , 2018 , 192, 242-261	4.2	19
351	Spatiotemporal regularization for digital image correlation: Application to infrared camera frames. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 114, 1331-1349	2.4	6
350	Analysis of compaction in brittle foam with multiscale indentation tests. <i>Mechanics of Materials</i> , 2018 , 118, 22-30	3.3	6
349	Evaluation of measurement uncertainties of digital volume correlation applied to laminography data. <i>Journal of Strain Analysis for Engineering Design</i> , 2018 , 53, 49-65	1.3	11
348	Self-calibration for lab-CT using space-time regularized projection-based DVC and model reduction. <i>Measurement Science and Technology</i> , 2018 , 29, 024003	2	11
347	Regularised digital-level corrections for infrared image correlation. <i>Quantitative InfraRed Thermography Journal</i> , 2018 , 1-22	1.1	3
346	Measuring topographies from conventional SEM acquisitions. <i>Ultramicroscopy</i> , 2018 , 191, 18-33	3.1	7
345	On deformation and damage micromechanisms in strong work hardening 2198 T3 aluminium alloy. <i>Acta Materialia</i> , 2018 , 149, 29-45	8.4	15
344	On the analysis of canvas wrinkling via isogeometric stereocorrelation. <i>International Journal of Solids and Structures</i> , 2018 , 154, 114-123	3.1	2
343	Big Data in Experimental Mechanics and Model Order Reduction: Today's Challenges and Tomorrow's Opportunities. <i>Archives of Computational Methods in Engineering</i> , 2018 , 25, 143-164	7.8	25
342	On the use of SEM correlative tools for in situ mechanical tests. <i>Ultramicroscopy</i> , 2018 , 184, 71-87	3.1	11
341	Crystal Plasticity Parameter Identification by Integrated DIC on Microscopic Topographies. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2018 , 47-49	0.3	
340	Comparison of two full-field identification methods for the wedge splitting test on a refractory. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 5569-5579	6	13
339	On the calibration of elastoplastic parameters at the microscale via X-ray microtomography and digital volume correlation for the simulation of ductile damage. <i>European Journal of Mechanics, A/Solids</i> , 2018 , 72, 287-297	3.7	14
338	On the analysis of heat haze effects with spacetime DIC. <i>Optics and Lasers in Engineering</i> , 2018 , 111, 135-153	4.63	13
337	Digital Volume Correlation: Review of Progress and Challenges. <i>Experimental Mechanics</i> , 2018 , 58, 661-708	7.8	89

336	On the Mechanical Behavior of Granite Material With Particular Emphasis on the Influence From Pre-Existing Cracks and Defects. <i>Journal of Testing and Evaluation</i> , 2018 , 46, 20160072	1	8
335	On the Use of Digital Image Correlation for the Analysis of the Dynamic Behavior of Materials 2018 , 185-206		2
334	On the validation of integrated DIC with tapered double cantilever beam tests. <i>Engineering Fracture Mechanics</i> , 2018 , 191, 311-323	4.2	7
333	Experimental-Numerical Validation Framework for Micromechanical Simulations. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2018 , 147-161	0.3	
332	Early Strain Localization in Strong Work Hardening Aluminum Alloy (2198 T3): 3D Laminography and DVC Measurement. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2018 , 15-17	0.3	
331	Recent advances in finite element modelling of ductile fracture at mesoscale. <i>Procedia Manufacturing</i> , 2018 , 15, 39-45	1.5	2
330	Validation of Registration Techniques Applied to XRD Signals for Stress Evaluations in Titanium Alloys. <i>Experimental Mechanics</i> , 2018 , 58, 1265-1280	2.6	0
329	Mode-enhanced space-time DIC: applications to ultra-high-speed imaging. <i>Measurement Science and Technology</i> , 2018 , 29, 125008	2	7
328	Fast four-dimensional tensile test monitored via X-ray computed tomography: Single projection-based digital volume correlation dedicated to slender samples. <i>Journal of Strain Analysis for Engineering Design</i> , 2018 , 53, 473-484	1.3	7
327	Enhanced Piola-Biencky discrete models for pantographic sheets with pivots without deformation energy: Numerics and experiments. <i>International Journal of Solids and Structures</i> , 2018 , 147, 94-109	3.1	79
326	A complex mixed-mode crack propagation test performed with a 6-axis testing machine and full-field measurements. <i>Engineering Fracture Mechanics</i> , 2017 , 176, 1-22	4.2	14
325	Mesoscale analysis of damage growth in woven composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 96, 77-88	8.4	21
324	On the choice of boundary conditions for micromechanical simulations based on 3D imaging. <i>International Journal of Solids and Structures</i> , 2017 , 112, 83-96	3.1	25
323	Virtual hybrid test control of sinuous crack. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 102, 239-256	5	4
322	On the use of flat-fields for tomographic reconstruction. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 220-231	2.1	11
321	On the identifiability of the Hill-1948 model with one uniaxial tensile test. <i>Comptes Rendus - Mecanique</i> , 2017 , 345, 363-369	2.1	3
320	Numerical validation framework for micromechanical simulations based on synchrotron 3D imaging. <i>Computational Mechanics</i> , 2017 , 59, 419-441	4	30
319	On the Evaluation of Stress Triaxiality Fields via Integrated DIC: Influence of Mesh Discretization and Mesh Type. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 273-276	0.3	

318	Improving full-field identification using progressive model enrichments. <i>International Journal of Solids and Structures</i> , 2017 , 118-119, 213-223	3.1	10
317	Backtracking Depth-Resolved Microstructures for Crystal Plasticity IdentificationâPart 1: Backtracking Microstructures. <i>Jom</i> , 2017 , 69, 2810-2818	2.1	3
316	In Situ Observation of Strained Bands and Ductile Damage in Thin AA2139-T3 Alloy Sheets. <i>Procedia IUTAM</i> , 2017 , 20, 66-72		1
315	On the identifiability of Hill-1948 plasticity model with a single biaxial test on very thin sheet. <i>Strain</i> , 2017 , 53, e12233	1.7	11
314	Comparison between experimental and numerical results of mixed-mode crack propagation in concrete: Influence of boundary conditions choice. <i>Cement and Concrete Research</i> , 2017 , 100, 329-340	10.3	14
313	Coincidence of strain-induced TRIP and propagative PLC bands in Medium Mn steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 391-400	5.3	37
312	Backtracking Depth-Resolved Microstructures for Crystal Plasticity IdentificationâPart 2: Identification. <i>Jom</i> , 2017 , 69, 2803-2809	2.1	5
311	An extension of digital volume correlation for multimodality image registration. <i>Measurement Science and Technology</i> , 2017 , 28, 095401	2	13
310	Identification of the crushing behavior of brittle foam: From indentation to oedometric tests. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 98, 181-200	5	23
309	Experimental and numerical analysis of thermal striping in automotive brake discs. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017 , 40, 267-276	3	3
308	Addendum to: Assessment of Digital Image Correlation Measurement Errors: Methodology and Results [Experimental Mechanics 49(3)]. <i>Experimental Mechanics</i> , 2017 , 57, 1515-1515	2.6	1
307	Hybrid Stereocorrelation for 3D Thermomechanical Field Measurements. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 83-88	0.3	1
306	Reducing Full-Field Identification Cost by Using Quasi-Newton Methods. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 135-140	0.3	0
305	Evaluation of fatigue crack network growth in cast iron for different biaxial loading paths via full-field measurements. <i>International Journal of Fatigue</i> , 2016 , 92, 281-303	5	7
304	Analysis of wedge splitting test on refractory castable via integrated DIC. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 4309-4317	6	16
303	On strain and damage interactions during tearing: 3D in situ measurements and simulations for a ductile alloy (AA2139-T3). <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 96, 550-571	5	30
302	Soft Route to 4D Tomography. <i>Physical Review Letters</i> , 2016 , 117, 025501	7.4	24
301	I-DIC-based identification strategy of failure criteria: application to titanium and nickel-based alloys. <i>Meccanica</i> , 2016 , 51, 3149-3165	2.1	3

300	Optimization of a Cruciform Specimen Geometry for the Identification of Constitutive Parameters Based Upon Full-Field Measurements. <i>Strain</i> , 2016 , 52, 307-323	1.7	15
299	Constitutive model for flake graphite cast iron automotive brake discs: induced anisotropic damage model under complex loadings. <i>Continuum Mechanics and Thermodynamics</i> , 2016 , 28, 1445-1460	3.5	3
298	Slant strained band development during flat to slant crack transition in AA 2198 T8 sheet: in situ 3D measurements. <i>International Journal of Fracture</i> , 2016 , 200, 49-62	2.3	16
297	Failure Mechanisms of Plasterboard in Nail Pull Test Determined by X-ray Microtomography and Digital Volume Correlation. <i>Experimental Mechanics</i> , 2016 , 56, 1427-1437	2.6	14
296	Characterization of the nonlinear behavior of nodular graphite cast iron via inverse identification: Analysis of biaxial tests. <i>European Journal of Mechanics, A/Solids</i> , 2016 , 59, 195-209	3.7	8
295	Measurement of 3D displacement fields from few tomographic projections 2016 ,		4
294	Integrated digital image correlation applied to elastoplastic identification in a biaxial experiment. <i>Journal of Strain Analysis for Engineering Design</i> , 2016 , 51, 118-131	1.3	22
293	Identification of crystal plasticity parameters using DIC measurements and weighted FEMU. <i>Mechanics of Materials</i> , 2016 , 100, 55-71	3.3	37
292	Constitutive model for flake graphite cast iron automotive brake discs: from macroscopic multiscale models to a 1D rheological description. <i>Continuum Mechanics and Thermodynamics</i> , 2016 , 28, 1009-1025	3.5	5
291	3D surface measurements with isogeometric stereocorrelation Application to complex shapes. <i>Optics and Lasers in Engineering</i> , 2016 , 87, 146-155	4.6	13
290	Characterization of temperature and strain fields during cyclic laser shocks. <i>Quantitative InfraRed Thermography Journal</i> , 2016 , 13, 1-18	1.1	9
289	Hybrid Stereocorrelation Using Infrared and Visible Light Cameras. <i>Experimental Mechanics</i> , 2016 , 56, 845-860	2.6	14
288	Characterization of the nonlinear behavior of nodular graphite cast iron via inverse identification Analysis of uniaxial tests. <i>European Journal of Mechanics, A/Solids</i> , 2016 , 59, 140-154	3.7	21
287	Integrated Digital Image Correlation considering gray level and blur variations: Application to distortion measurements of IR camera. <i>Optics and Lasers in Engineering</i> , 2016 , 78, 75-85	4.6	21
286	IGMU: A Geometrically Consistent Framework for Identification from Full Field Measurement. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 17-21	0.3	
285	Bridging Kinematic Measurements and Crystal Plasticity Models in Austenitic Stainless Steels. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 29-35	0.3	
284	Evaluation Via XRD of Residual Stresses Due to Mechanical Treatment of Ti5553 Alloy 2016 , 1599-1603		
283	Quaternion correlation for tracking crystal motions. <i>Measurement Science and Technology</i> , 2016 , 27, 095006		8

282	Toward 4D mechanical correlation. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2016 , 3,	2.7	33
281	Slip activities in polycrystals determined by coupling DIC measurements with crystal plasticity calculations. <i>International Journal of Plasticity</i> , 2016 , 81, 249-266	7.6	69
280	Mesh-Based Shape Measurements with Stereocorrelation. <i>Experimental Mechanics</i> , 2016 , 56, 1231-1242	2.6	9
279	Identification method for the mixed mode interlaminar behavior of a thermoset composite using displacement field measurements and load data. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 91, 238-249	8.4	7
278	Crystal plasticity parameter identification with 3D measurements and Integrated Digital Image Correlation. <i>Acta Materialia</i> , 2016 , 116, 321-331	8.4	38
277	Cutting force sensor based on digital image correlation for segmented chip formation analysis. <i>Journal of Materials Processing Technology</i> , 2016 , 238, 466-473	5.3	18
276	Damage measurements via DIC. <i>International Journal of Fracture</i> , 2015 , 191, 77-105	2.3	38
275	A Generic, Time-Resolved, Integrated Digital Image Correlation, Identification Approach. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015 , 257-263	0.3	
274	Time-resolved integrated digital image correlation. <i>International Journal for Numerical Methods in Engineering</i> , 2015 , 103, 157-182	2.4	40
273	Shape, displacement and mechanical properties from isogeometric multiview stereocorrelation. <i>Journal of Strain Analysis for Engineering Design</i> , 2015 , 50, 470-487	1.3	36
272	DIC identification and X-FEM simulation of fatigue crack growth based on the Williams series. <i>International Journal of Solids and Structures</i> , 2015 , 53, 38-47	3.1	33
271	A numerical study of the influence from pre-existing cracks on granite rock fragmentation at percussive drilling. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2015 , 39, 558-570	4	24
270	On characteristic parameters involved in dynamic fragmentation processes. <i>Mechanics of Materials</i> , 2015 , 80, 340-350	3.3	2
269	Estimation of Elastoplastic Parameters via Weighted FEMU and Integrated-DIC. <i>Experimental Mechanics</i> , 2015 , 55, 105-119	2.6	83
268	Identification of a set of macroscopic elastic parameters in a 3D woven composite: Uncertainty analysis and regularization. <i>International Journal of Solids and Structures</i> , 2015 , 55, 2-16	3.1	41
267	Damage law identification from full field displacement measurement: Application to four-point bending test for plasterboard. <i>European Journal of Mechanics, A/Solids</i> , 2015 , 49, 60-66	3.7	12
266	Projection Savings in CT-based Digital Volume Correlation. <i>Experimental Mechanics</i> , 2015 , 55, 275-287	2.6	36
265	CAD-based Displacement Measurements with Stereo-DIC. <i>Experimental Mechanics</i> , 2015 , 55, 1657-1668	2.6	39

264	Analysis of Asymmetrical Creep of a Ceramic at 1350°C by Digital Image Correlation. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2240-2247	3.8	28
263	On the Evaluation of Stress Triaxiality Fields in a Notched Titanium Alloy Sample Via Integrated Digital Image Correlation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015 , 82,	2.7	19
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10	Description of the Dynamic Fragmentation of Glass with a Meso-Damage Model	291-309	
9	Determination of Elastic Moduli and Poisson Coefficient of Thin Silicon-Based Joint Using Digital Image Correlation	143-148	3
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