

Francois Hild

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ext. papers

12,691
ext. citations

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avg, IF

6.64
L-index

#	Paper	IF	Citations
425	Digital Image Correlation: from Displacement Measurement to Identification of Elastic Properties â a Review. <i>Strain</i> , 2006 , 42, 69-80	1.7	606
424	Overview of Identification Methods of Mechanical Parameters Based on Full-field Measurements. <i>Experimental Mechanics</i> , 2008 , 48, 381-402	2.6	485
423	âFinite-ElementâDisplacement Fields Analysis from Digital Images: Application to PortevinâLe Châlier Bands. <i>Experimental Mechanics</i> , 2006 , 46, 789-803	2.6	467
422	Assessment of Digital Image Correlation Measurement Errors: Methodology and Results. <i>Experimental Mechanics</i> , 2009 , 49, 353-370	2.6	432
421	Comparison of Local and Global Approaches to Digital Image Correlation. <i>Experimental Mechanics</i> , 2012 , 52, 1503-1519	2.6	239
420	Stress intensity factor measurements from digital image correlation: post-processing and integrated approaches. <i>International Journal of Fracture</i> , 2006 , 140, 141-157	2.3	233
419	Three-dimensional image correlation from X-ray computed tomography of solid foam. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 1253-1265	8.4	214
418	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
417	Extended digital image correlation with crack shape optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 73, 248-272	2.4	164
416	Digital image correlation and fracture: an advanced technique for estimating stress intensity factors of 2D and 3D cracks. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 214004	3	159
415	Advances in pantographic structures: design, manufacturing, models, experiments and image analyses. <i>Continuum Mechanics and Thermodynamics</i> , 2019 , 31, 1231-1282	3.5	153
414	Shock enhancement of cellular structures under impact loading: Part I Experiments. <i>Journal of the Mechanics and Physics of Solids</i> , 2007 , 55, 2652-2671	5	151
413	A finite element formulation to identify damage fields: the equilibrium gap method. <i>International Journal for Numerical Methods in Engineering</i> , 2004 , 61, 189-208	2.4	136
412	Multiscale displacement field measurements of compressed mineral-wool samples by digital image correlation. <i>Applied Optics</i> , 2002 , 41, 6815-28	1.7	133
411	Digital image correlation used to analyze the multiaxial behavior of rubber-like materials. <i>European Journal of Mechanics, A/Solids</i> , 2001 , 20, 169-187	3.7	130
410	A damage model for the dynamic fragmentation of brittle solids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 183, 247-258	5.7	123
409	Three dimensional experimental and numerical multiscale analysis of a fatigue crack. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010 , 199, 1307-1325	5.7	114

408	Shock enhancement of cellular structures under impact loading: Part II analysis. <i>Journal of the Mechanics and Physics of Solids</i> , 2007 , 55, 2672-2686	5	108
407	Analysis of a multiaxial test on a C/C composite by using digital image correlation and a damage model. <i>Experimental Mechanics</i> , 2002 , 42, 318-328	2.6	103
406	Crack closure and stress intensity factor measurements in nodular graphite cast iron using three-dimensional correlation of laboratory X-ray microtomography images. <i>Acta Materialia</i> , 2009 , 57, 4090-4101	8.4	96
405	A study of localisation in dual-phase high-strength steels under dynamic loading using digital image correlation and FE analysis. <i>International Journal of Solids and Structures</i> , 2008 , 45, 601-619	3.1	94
404	Shear-band capturing using a multiscale extended digital image correlation technique. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 5016-5030	5.7	93
403	An extended and integrated digital image correlation technique applied to the analysis of fractured samples. <i>European Journal of Computational Mechanics</i> , 2009 , 18, 285-306	0.5	91
402	Digital Volume Correlation: Review of Progress and Challenges. <i>Experimental Mechanics</i> , 2018 , 58, 661-708	7.8	89
401	Stress Intensity Factor Gauging by Digital Image Correlation: Application in Cyclic Fatigue. <i>Strain</i> , 2007 , 43, 181-192	1.7	88
400	Mechanics-aided digital image correlation. <i>Journal of Strain Analysis for Engineering Design</i> , 2013 , 48, 330-343	1.3	87
399	Voxel-Scale Digital Volume Correlation. <i>Experimental Mechanics</i> , 2011 , 51, 479-490	2.6	87
398	A probabilistic two-scale model for high-cycle fatigue life predictions. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2005 , 28, 279-288	3	87
397	In situ 3-D observation of early strain localization during failure of thin Al alloy (2198) sheet. <i>Acta Materialia</i> , 2014 , 69, 78-91	8.4	84
396	Identification of a crack propagation law by digital image correlation. <i>International Journal of Fatigue</i> , 2012 , 36, 146-154	5	84
395	Estimation of Elastoplastic Parameters via Weighted FEMU and Integrated-DIC. <i>Experimental Mechanics</i> , 2015 , 55, 105-119	2.6	83
394	A Study of Large Plastic Deformations in Dual Phase Steel Using Digital Image Correlation and FE Analysis. <i>Experimental Mechanics</i> , 2008 , 48, 181-196	2.6	79
393	Enhanced Piola-Kirchhoff 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
392	A Probabilistic Damage Model of the Dynamic Fragmentation Process in Brittle Materials. <i>Advances in Applied Mechanics</i> , 2010 , 44, 1-72	10	76
391	On the probabilistic-deterministic transition involved in a fragmentation process of brittle materials. <i>Computers and Structures</i> , 2003 , 81, 1241-1253	4.5	75

390	Computation of full-field displacements in a scaffold implant using digital volume correlation and finite element analysis. <i>Medical Engineering and Physics</i> , 2013 , 35, 1298-312	2.4	73
389	Identification of elastic parameters by displacement field measurement. <i>Comptes Rendus - Mecanique</i> , 2002 , 330, 403-408	2.1	70
388	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
387	Recent Advances and Perspectives in Digital Image Correlation. <i>Experimental Mechanics</i> , 2015 , 55, 1-8	2.6	65
386	Digital Image Mechanical Identification (DIMI). <i>Experimental Mechanics</i> , 2008 , 48, 495-508	2.6	65
385	Parameter choice for optimized digital image correlation. <i>Optics and Lasers in Engineering</i> , 2009 , 47, 728-737	2.7	64
384	Influence of closure on the 3D propagation of fatigue cracks in a nodular cast iron investigated by X-ray tomography and 3D volume correlation. <i>Acta Materialia</i> , 2010 , 58, 2957-2967	8.4	64
383	Dynamic fragmentation of brittle solids: a multi-scale model. <i>European Journal of Mechanics, A/Solids</i> , 2002 , 21, 105-120	3.7	64
382	Digital image correlation analysis of crack behavior in a reinforced concrete beam during a load test. <i>Canadian Journal of Civil Engineering</i> , 2006 , 33, 1418-1425	1.3	62
381	Effective toughness of heterogeneous brittle materials. <i>European Journal of Mechanics, A/Solids</i> , 2003 , 22, 743-749	3.7	62
380	3D Digital Volume Correlation of Synchrotron Radiation Laminography Images of Ductile Crack Initiation: An Initial Feasibility Study. <i>Experimental Mechanics</i> , 2013 , 53, 543-556	2.6	61
379	Application of the virtual fields method to mechanical characterization of elastomeric materials. <i>International Journal of Solids and Structures</i> , 2009 , 46, 698-715	3.1	61
378	Analysis and Artifact Correction for Volume Correlation Measurements Using Tomographic Images from a Laboratory X-ray Source. <i>Experimental Mechanics</i> , 2011 , 51, 959-970	2.6	59
377	Digital volume correlation: what are the limits to the spatial resolution?. <i>Mechanics and Industry</i> , 2012 , 13, 361-371	0.8	57
376	Digital image correlation and biaxial test on composite material for anisotropic damage law identification. <i>International Journal of Solids and Structures</i> , 2009 , 46, 2388-2396	3.1	56
375	A critical local energy release rate criterion for fatigue fracture of elastomers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 1518-1524	2.6	55
374	Identification of adhesive properties in GLARE assemblies using digital image correlation. <i>Journal of the Mechanics and Physics of Solids</i> , 2009 , 57, 1003-1016	5	55
373	Integrated Digital Image Correlation for the Identification of Mechanical Properties. <i>Lecture Notes in Computer Science</i> , 2009 , 161-171	0.9	55

372	Identification of damage fields using kinematic measurements. <i>Comptes Rendus - Mecanique</i> , 2002 , 330, 729-734	2.1	54
371	Effect of aluminum reinforcement on the dynamic fragmentation of SiC ceramics. <i>International Journal of Impact Engineering</i> , 2003 , 28, 1061-1076	4	54
370	Extended three-dimensional digital image correlation (X3D-DIC). <i>Comptes Rendus - Mecanique</i> , 2008 , 336, 643-649	2.1	53
369	Direct Stress-Strain Measurements from Bulged Membranes Using Topography Image Correlation. <i>Experimental Mechanics</i> , 2014 , 54, 717-727	2.6	52
368	From pictures to extended finite elements: extended digital image correlation (X-DIC). <i>Comptes Rendus - Mecanique</i> , 2007 , 335, 131-137	2.1	51
367	Digital image correlation used for mechanical tests on crimped glass wool samples. <i>Journal of Strain Analysis for Engineering Design</i> , 2005 , 40, 185-197	1.3	51
366	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
365	Measuring stress intensity factors with a camera: Integrated digital image correlation (I-DIC). <i>Comptes Rendus - Mecanique</i> , 2006 , 334, 8-12	2.1	50
364	Identification of heat source fields from infrared thermography: Determination of self-heating in a dual-phase steel by using a dog bone sample. <i>Mechanics of Materials</i> , 2010 , 42, 55-62	3.3	49
363	Correlation image velocimetry: a spectral approach. <i>Applied Optics</i> , 2002 , 41, 108-115	1.7	49
362	On the dynamic fragmentation of two limestones using edge-on impact tests. <i>International Journal of Impact Engineering</i> , 2008 , 35, 977-991	4	48
361	A method to determine the macroscopic toughness scatter of brittle materials. <i>International Journal of Fracture</i> , 2004 , 125, 171-187	2.3	46
360	Tensile and flexural ultimate strength of fiber-reinforced ceramic-matrix composites. <i>International Journal of Solids and Structures</i> , 1994 , 31, 1035-1045	3.1	46
359	A probabilistic approach to predict the very high-cycle fatigue behaviour of spheroidal graphite cast iron structures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2000 , 23, 173-180	3	45
358	Probabilistic multiscale models and measurements of self-heating under multiaxial high cycle fatigue. <i>Journal of the Mechanics and Physics of Solids</i> , 2010 , 58, 578-593	5	44
357	Identification of the scatter in high cycle fatigue from temperature measurements. <i>Comptes Rendus - Mecanique</i> , 2004 , 332, 795-801	2.1	44
356	Digital Volume Correlation Applied to X-ray Tomography Images from Spherical Indentation Tests on Lightweight Gypsum. <i>Strain</i> , 2014 , 50, 444-453	1.7	43
355	Development of a synchrotron biaxial tensile device for in situ characterization of thin films mechanical response. <i>Review of Scientific Instruments</i> , 2010 , 81, 103903	1.7	43

354	Three-dimensional analysis of a compression test on stone wool. <i>Acta Materialia</i> , 2009 , 57, 3310-3320	8.4	43
353	Noise-robust stress intensity factor determination from kinematic field measurements. <i>Engineering Fracture Mechanics</i> , 2008 , 75, 3763-3781	4.2	43
352	CAD-based calibration and shape measurement with stereoDIC. <i>Experimental Mechanics</i> , 2014 , 54, 329-346	4.6	42
351	Granite rock fragmentation at percussive drilling – experimental and numerical investigation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014 , 38, 828-843	4	42
350	Fatigue microcrack detection with digital image correlation. <i>Journal of Strain Analysis for Engineering Design</i> , 2011 , 46, 492-509	1.3	42
349	Dynamic Fragmentation of an Ultrahigh-Strength Concrete during Edge-On Impact Tests. <i>Journal of Engineering Mechanics - ASCE</i> , 2008 , 134, 302-315	2.4	42
348	Determination of an HCF criterion by thermal measurements under biaxial cyclic loading. <i>International Journal of Fatigue</i> , 2007 , 29, 748-757	5	42
347	Spectral approach to displacement evaluation from image analysis. <i>EPJ Applied Physics</i> , 2002 , 17, 247-252	2.1	42
346	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
345	Digital volume correlation analyses of synchrotron tomographic images. <i>Journal of Strain Analysis for Engineering Design</i> , 2011 , 46, 683-695	1.3	41
344	Analysis of image series through global digital image correlation. <i>Journal of Strain Analysis for Engineering Design</i> , 2012 , 47, 214-228	1.3	41
343	HIGH-CYCLE FATIGUE BEHAVIOUR OF SPHEROIDAL GRAPHITE CAST IRON. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1998 , 21, 287-296	3	41
342	Time-resolved integrated digital image correlation. <i>International Journal for Numerical Methods in Engineering</i> , 2015 , 103, 157-182	2.4	40
341	CAD-based Displacement Measurements with Stereo-DIC. <i>Experimental Mechanics</i> , 2015 , 55, 1657-1668	2.6	39
340	Displacement measurement technique for beam kinematics. <i>Optics and Lasers in Engineering</i> , 2009 , 47, 495-503	4.6	39
339	2013 ,		39
338	Damage measurements via DIC. <i>International Journal of Fracture</i> , 2015 , 191, 77-105	2.3	38
337	The role of surface and volume defects in the fracture of glass under quasi-static and dynamic loadings. <i>Journal of Non-Crystalline Solids</i> , 2003 , 316, 42-53	3.9	38

336	Crystal plasticity parameter identification with 3D measurements and Integrated Digital Image Correlation. <i>Acta Materialia</i> , 2016 , 116, 321-331	8.4	38
335	Identification of crystal plasticity parameters using DIC measurements and weighted FEMU. <i>Mechanics of Materials</i> , 2016 , 100, 55-71	3.3	37
334	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
333	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
332	Projection Savings in CT-based Digital Volume Correlation. <i>Experimental Mechanics</i> , 2015 , 55, 275-287	2.6	36
331	Localized strain field measurement on laminography data with mechanical regularization. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 324, 70-79	1.2	36
330	3D analysis from micro-MRI during in situ compression on cancellous bone. <i>Journal of Biomechanics</i> , 2009 , 42, 2381-6	2.9	36
329	Matrix cracking and debonding of ceramic-matrix composites. <i>International Journal of Solids and Structures</i> , 1996 , 33, 1209-1220	3.1	35
328	Analysis of necking in high speed experiments by stereocorrelation. <i>International Journal of Impact Engineering</i> , 2012 , 49, 179-191	4	34
327	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
326	On the analysis of notched concrete beams: From measurement with digital image correlation to identification with boundary element method of a cohesive model. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 71-84	4.2	33
325	Identification of a Damage Law by Using Full-field Displacement Measurements. <i>International Journal of Damage Mechanics</i> , 2007 , 16, 179-197	3	33
324	Toward 4D mechanical correlation. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2016 , 3,	2.7	33
323	Combined synchrotron X-ray and image-correlation analyses of biaxially deformed W/Cu nanocomposite thin films on Kapton. <i>Journal of Applied Crystallography</i> , 2011 , 44, 1071-1079	3.8	32
322	Effect of Slag Impregnation on Thermal Degradations in Refractories. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 154-162	3.8	31
321	Numerical validation framework for micromechanical simulations based on synchrotron 3D imaging. <i>Computational Mechanics</i> , 2017 , 59, 419-441	4	30
320	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
319	Characterization of SEM speckle pattern marking and imaging distortion by digital image correlation. <i>Measurement Science and Technology</i> , 2014 , 25, 015401	2	30

318	Hybrid analytical and extended finite element method (HAX-FEM): A new enrichment procedure for cracked solids. <i>International Journal for Numerical Methods in Engineering</i> , 2010 , 81, 269-285	2.4	30
317	Experimental investigation of localized phenomena using digital image correlation. <i>Philosophical Magazine</i> , 2008 , 88, 3339-3355	1.6	29
316	Micro-mechanics and continuum damage mechanics. <i>Archive of Applied Mechanics</i> , 1995 , 65, 437-456	2.2	29
315	Integrated digital image correlation for the evaluation and correction of optical distortions. <i>Optics and Lasers in Engineering</i> , 2014 , 56, 121-133	4.6	28
314	Volume changes in a filled elastomer studied via digital image correlation. <i>Polymer Testing</i> , 2012 , 31, 663-670	4.5	28
313	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
312	Optimal and noise-robust extraction of Fracture Mechanics parameters from kinematic measurements. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 1827-1845	4.2	28
311	A space-time approach in digital image correlation: Movie-DIC. <i>Optics and Lasers in Engineering</i> , 2011 , 49, 71-81	4.6	28
310	A probabilistic model to predict the formation and propagation of crack networks in thermal fatigue. <i>International Journal of Fatigue</i> , 2009 , 31, 565-574	5	27
309	Experiments and modelling of the compressive behaviour of two SiC ceramics. <i>Mechanics of Materials</i> , 2003 , 35, 987-1002	3.3	27
308	Modelling of high temperature asymmetric creep behavior of ceramics. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 1819-1827	6	27
307	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
306	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
305	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
304	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
303	Soft Route to 4D Tomography. <i>Physical Review Letters</i> , 2016 , 117, 025501	7.4	24
302	Strain heterogeneities and local anisotropy in crimped glass wool. <i>Journal of Materials Science</i> , 2005 , 40, 5949-5954	4.3	24
301	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

300	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
299	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
298	Image-based identification procedure of a crack propagation law. <i>Engineering Fracture Mechanics</i> , 2013 , 103, 48-59	4.2	22
297	Three-dimensional Analysis of Fatigue Crack Propagation using X-Ray Tomography, Digital Volume Correlation and Extended Finite Element Simulations. <i>Procedia IUTAM</i> , 2012 , 4, 151-158		22
296	Complexity of shear localization in a Zr-based bulk metallic glass. <i>Scripta Materialia</i> , 2009 , 61, 1145-1148	5.6	22
295	CONTROLLING TESTING MACHINES WITH DIGITAL IMAGE CORRELATION. <i>Experimental Techniques</i> , 2007 , 31, 57-63	1.4	22
294	Material-independent crack arrest statistics. <i>Journal of the Mechanics and Physics of Solids</i> , 2004 , 52, 1653-1669	2.2	
293	Response of saturated porous media to cyclic thermal loading. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2003 , 27, 883-904	4	22
292	Mesoscale analysis of damage growth in woven composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 96, 77-88	8.4	21
291	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
290	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
289	On the Identification and Validation of an Anisotropic Damage Model Using Full-field Measurements. <i>International Journal of Damage Mechanics</i> , 2011 , 20, 1130-1150	3	21
288	Enriched kinematic fields of cracked structures. <i>International Journal of Solids and Structures</i> , 2010 , 47, 3305-3316	3.1	21
287	Identification of interlaminar fracture properties of a composite laminate using local full-field kinematic measurements and finite element simulations. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 49, 203-213	8.4	20
286	Identification of elastic property and loading fields from full-field displacement measurements. <i>International Journal of Solids and Structures</i> , 2007 , 44, 2863-2887	3.1	20
285	A probabilistic model for multiaxial high cycle fatigue. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2007 , 30, 107-114	3	20
284	Identification of the scatter in high cycle fatigue from temperature measurements. <i>Comptes Rendus - Mecanique</i> , 2004 , 332, 795-801	2.1	20
283	Continuum damage mechanics of materials and structures 2002 , 1-15		20

282	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
281	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
280	On probabilistic aspects in the dynamic degradation of ductile materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2009 , 57, 1980-1998	5	19
279	Calibration of constitutive models of steel beams subject to local buckling by using digital image correlation. <i>European Journal of Mechanics, A/Solids</i> , 2011 , 30, 1-10	3.7	19
278	Prediction of self-heating measurements under proportional and non-proportional multiaxial cyclic loadings. <i>Comptes Rendus - Mecanique</i> , 2007 , 335, 81-86	2.1	19
277	Multiscale DIC Applied to Pantographic Structures. <i>Experimental Mechanics</i> , 2021 , 61, 431-443	2.6	19
276	Mixed-mode crack propagation using a Hybrid Analytical and eXtended Finite Element Method. <i>Comptes Rendus - Mecanique</i> , 2010 , 338, 121-126	2.1	18
275	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
274	A Global Digital Image Correlation Enhanced Full-Field Bulge Test Method. <i>Procedia IUTAM</i> , 2012 , 4, 73-81		17
273	Deformation modes of nanostructured thin film under controlled biaxial deformation. <i>Thin Solid Films</i> , 2013 , 530, 30-34	2.2	17
272	Characterization of Necking Phenomena in High-Speed Experiments by Using a Single Camera. <i>Eurasip Journal on Image and Video Processing</i> , 2010 , 2010, 1-15	2.5	17
271	Fatigue initiation in heterogeneous brittle materials. <i>Mechanics Research Communications</i> , 1991 , 18, 409-414		17
270	Estimation of elastic strain by integrated image correlation on electron diffraction patterns. <i>Ultramicroscopy</i> , 2019 , 199, 16-33	3.1	16
269	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
268	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
267	Localization due to damage in fiber-reinforced composites. <i>International Journal of Solids and Structures</i> , 1992 , 29, 3221-3238	3.1	16
266	Virtual Fields Method, The		301-330 16
265	On deformation and damage micromechanisms in strong work hardening 2198 T3 aluminium alloy. <i>Acta Materialia</i> , 2018 , 149, 29-45	8.4	15

264	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
263	Mechanical Assistance to DIC. <i>Procedia IUTAM</i> , 2012 , 4, 159-168		15
262	Numerical modeling of crack propagation and shielding effects in a striping network. <i>Nuclear Engineering and Design</i> , 2006 , 236, 954-964	1.8	15
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260	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
259	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
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