

Francois Hild

List of Publications by Year in descending order

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408
papers

14,143
citations

22132

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30894

102
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446
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446
docs citations

446
times ranked

5763
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Digital Image Correlation: from Displacement Measurement to Identification of Elastic Properties - a Review. <i>Strain</i> , 2006, 42, 69-80. | 1.4 | 736 |
| 2 | Overview of Identification Methods of Mechanical Parameters Based on Full-field Measurements. <i>Experimental Mechanics</i> , 2008, 48, 381-402. | 1.1 | 594 |
| 3 | â€œFinite-Elementâ€-Displacement Fields Analysis from Digital Images: Application to Portevinâ€Le ChÃ¢telier Bands. <i>Experimental Mechanics</i> , 2006, 46, 789-803. | 1.1 | 535 |
| 4 | Assessment of Digital Image Correlation Measurement Errors: Methodology and Results. <i>Experimental Mechanics</i> , 2009, 49, 353-370. | 1.1 | 497 |
| 5 | Comparison of Local and Global Approaches to Digital Image Correlation. <i>Experimental Mechanics</i> , 2012, 52, 1503-1519. | 1.1 | 283 |
| 6 | Stress intensity factor measurements from digital image correlation: post-processing and integrated approaches. <i>International Journal of Fracture</i> , 2006, 140, 141-157. | 1.1 | 274 |
| 7 | Pantographic metamaterials: an example of mathematically driven design and of its technological challenges. <i>Continuum Mechanics and Thermodynamics</i> , 2019, 31, 851-884. | 1.4 | 272 |
| 8 | 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. | 3.8 | 257 |
| 9 | Advances in pantographic structures: design, manufacturing, models, experiments and image analyses. <i>Continuum Mechanics and Thermodynamics</i> , 2019, 31, 1231-1282. | 1.4 | 212 |
| 10 | 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. | 1.3 | 190 |
| 11 | Extended digital image correlation with crack shape optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 73, 248-272. | 1.5 | 186 |
| 12 | 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. | 2.3 | 164 |
| 13 | 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. | 1.5 | 162 |
| 14 | Digital Volume Correlation: Review of Progress and Challenges. <i>Experimental Mechanics</i> , 2018, 58, 661-708. | 1.1 | 161 |
| 15 | 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. | 2.1 | 149 |
| 16 | Multiscale displacement field measurements of compressed mineral-wool samples by digital image correlation. <i>Applied Optics</i> , 2002, 41, 6815. | 2.1 | 149 |
| 17 | A damage model for the dynamic fragmentation of brittle solids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000, 183, 247-258. | 3.4 | 137 |
| 18 | Three dimensional experimental and numerical multiscale analysis of a fatigue crack. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 1307-1325. | 3.4 | 132 |

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|----|--|-----|-----------|
| 19 | 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. | 2.3 | 118 |
| 20 | Estimation of Elastoplastic Parameters via Weighted FEMU and Integrated-DIC. <i>Experimental Mechanics</i> , 2015, 55, 105-119. | 1.1 | 115 |
| 21 | Voxel-Scale Digital Volume Correlation. <i>Experimental Mechanics</i> , 2011, 51, 479-490. | 1.1 | 113 |
| 22 | 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. | 1.1 | 112 |
| 23 | 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. | 1.7 | 111 |
| 24 | Shear-band capturing using a multiscale extended digital image correlation technique. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 5016-5030. | 3.4 | 111 |
| 25 | Mechanics-aided digital image correlation. <i>Journal of Strain Analysis for Engineering Design</i> , 2013, 48, 330-343. | 1.0 | 110 |
| 26 | 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. | 3.8 | 109 |
| 27 | 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. | 0.6 | 109 |
| 28 | Identification of a crack propagation law by digital image correlation. <i>International Journal of Fatigue</i> , 2012, 36, 146-154. | 2.8 | 108 |
| 29 | Stress Intensity Factor Gauging by Digital Image Correlation: Application in Cyclic Fatigue. <i>Strain</i> , 2007, 43, 181-192. | 1.4 | 105 |
| 30 | Recent Advances and Perspectives in Digital Image Correlation. <i>Experimental Mechanics</i> , 2015, 55, 1-8. | 1.1 | 104 |
| 31 | 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. | 1.3 | 103 |
| 32 | 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. | 3.8 | 100 |
| 33 | Enhanced Piola-Hencky 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. | 1.3 | 100 |
| 34 | 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. | 1.1 | 96 |
| 35 | A Probabilistic Damage Model of the Dynamic Fragmentation Process in Brittle Materials. <i>Advances in Applied Mechanics</i> , 2010, 44, 1-72. | 1.4 | 92 |
| 36 | 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, 1298-1312. | 0.8 | 90 |

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| 37 | Slip activities in polycrystals determined by coupling DIC measurements with crystal plasticity calculations. <i>International Journal of Plasticity</i> , 2016, 81, 249-266. | 4.1 | 89 |
| 38 | On the probabilistic deterministic transition involved in a fragmentation process of brittle materials. <i>Computers and Structures</i> , 2003, 81, 1241-1253. | 2.4 | 83 |
| 39 | Identification of elastic parameters by displacement field measurement. <i>Comptes Rendus - Mecanique</i> , 2002, 330, 403-408. | 2.1 | 80 |
| 40 | Dynamic fragmentation of brittle solids: a multi-scale model. <i>European Journal of Mechanics, A/Solids</i> , 2002, 21, 105-120. | 2.1 | 77 |
| 41 | Parameter choice for optimized digital image correlation. <i>Optics and Lasers in Engineering</i> , 2009, 47, 728-737. | 2.0 | 77 |
| 42 | Application of the virtual fields method to mechanical characterization of elastomeric materials. <i>International Journal of Solids and Structures</i> , 2009, 46, 698-715. | 1.3 | 75 |
| 43 | 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. | 2.4 | 73 |
| 44 | Effective toughness of heterogeneous brittle materials. <i>European Journal of Mechanics, A/Solids</i> , 2003, 22, 743-749. | 2.1 | 72 |
| 45 | Digital volume correlation: what are the limits to the spatial resolution?. <i>Mechanics and Industry</i> , 2012, 13, 361-371. | 0.5 | 72 |
| 46 | 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. | 1.5 | 72 |
| 47 | Digital Image Mechanical Identification (DIMI). <i>Experimental Mechanics</i> , 2008, 48, 495-508. | 1.1 | 71 |
| 48 | 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. | 0.7 | 70 |
| 49 | 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. | 3.8 | 70 |
| 50 | Integrated Digital Image Correlation for the Identification of Mechanical Properties. <i>Lecture Notes in Computer Science</i> , 2009, , 161-171. | 1.0 | 68 |
| 51 | Effect of aluminum reinforcement on the dynamic fragmentation of SiC ceramics. <i>International Journal of Impact Engineering</i> , 2003, 28, 1061-1076. | 2.4 | 66 |
| 52 | 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. | 1.1 | 66 |
| 53 | 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. | 1.1 | 66 |
| 54 | Extended three-dimensional digital image correlation (X3D-DIC). <i>Comptes Rendus - Mecanique</i> , 2008, 336, 643-649. | 2.1 | 65 |

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|----|---|-----|-----------|
| 55 | Identification of damage fields using kinematic measurements. Comptes Rendus - Mecanique, 2002, 330, 729-734. | 2.1 | 64 |
| 56 | Measuring stress intensity factors with a camera: Integrated digital image correlation (I-DIC). Comptes Rendus - Mecanique, 2006, 334, 8-12. | 2.1 | 64 |
| 57 | Digital image correlation and biaxial test on composite material for anisotropic damage law identification. International Journal of Solids and Structures, 2009, 46, 2388-2396. | 1.3 | 62 |
| 58 | Identification of adhesive properties in GLARE assemblies using digital image correlation. Journal of the Mechanics and Physics of Solids, 2009, 57, 1003-1016. | 2.3 | 61 |
| 59 | From pictures to extended finite elements: extended digital image correlation (X-DIC). Comptes Rendus - Mecanique, 2007, 335, 131-137. | 2.1 | 59 |
| 60 | Damage measurements via DIC. International Journal of Fracture, 2015, 191, 77-105. | 1.1 | 58 |
| 61 | Direct Stress-Strain Measurements from Bulged Membranes Using Topography Image Correlation. Experimental Mechanics, 2014, 54, 717-727. | 1.1 | 57 |
| 62 | Coincidence of strain-induced TRIP and propagative PLC bands in Medium Mn steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 391-400. | 2.6 | 55 |
| 63 | Identification of the scatter in high cycle fatigue from temperature measurements. Comptes Rendus - Mecanique, 2004, 332, 795-801. | 2.1 | 54 |
| 64 | Fatigue microcrack detection with digital image correlation. Journal of Strain Analysis for Engineering Design, 2011, 46, 492-509. | 1.0 | 54 |
| 65 | On the dynamic fragmentation of two limestones using edge-on impact tests. International Journal of Impact Engineering, 2008, 35, 977-991. | 2.4 | 53 |
| 66 | Probabilistic multiscale models and measurements of self-heating under multiaxial high cycle fatigue. Journal of the Mechanics and Physics of Solids, 2010, 58, 578-593. | 2.3 | 53 |
| 67 | Tensile and flexural ultimate strength of fiber-reinforced ceramic-matrix composites. International Journal of Solids and Structures, 1994, 31, 1035-1045. | 1.3 | 52 |
| 68 | A probabilistic approach to predict the very high-cycle fatigue behaviour of spheroidal graphite cast iron structures. Fatigue and Fracture of Engineering Materials and Structures, 2000, 23, 173-180. | 1.7 | 52 |
| 69 | Digital image correlation used for mechanical tests on crimped glass wool samples. Journal of Strain Analysis for Engineering Design, 2005, 40, 185-197. | 1.0 | 52 |
| 70 | Identification of heat source fields from infrared thermography: Determination of "self-heating"™ in a dual-phase steel by using a dog bone sample. Mechanics of Materials, 2010, 42, 55-62. | 1.7 | 52 |
| 71 | Granite rock fragmentation at percussive drilling " experimental and numerical investigation. International Journal for Numerical and Analytical Methods in Geomechanics, 2014, 38, 828-843. | 1.7 | 52 |
| 72 | Time-resolved integrated digital image correlation. International Journal for Numerical Methods in Engineering, 2015, 103, 157-182. | 1.5 | 52 |

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| 73 | Toward 4D mechanical correlation. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2016, 3, . | 0.7 | 52 |
| 74 | Correlation image velocimetry: a spectral approach. <i>Applied Optics</i> , 2002, 41, 108. | 2.1 | 51 |
| 75 | CAD-based calibration and shape measurement with stereoDIC. <i>Experimental Mechanics</i> , 2014, 54, 329-341. | 1.1 | 51 |
| 76 | CAD-based Displacement Measurements with Stereo-DIC. <i>Experimental Mechanics</i> , 2015, 55, 1657-1668. | 1.1 | 51 |
| 77 | 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. | 1.3 | 51 |
| 78 | Shape, displacement and mechanical properties from isogeometric multiview stereocorrelation. <i>Journal of Strain Analysis for Engineering Design</i> , 2015, 50, 470-487. | 1.0 | 50 |
| 79 | Dynamic Fragmentation of an Ultrahigh-Strength Concrete during Edge-On Impact Tests. <i>Journal of Engineering Mechanics - ASCE</i> , 2008, 134, 302-315. | 1.6 | 49 |
| 80 | A method to determine the macroscopic toughness scatter of brittle materials. <i>International Journal of Fracture</i> , 2004, 125, 171-187. | 1.1 | 48 |
| 81 | Determination of an HCF criterion by thermal measurements under biaxial cyclic loading. <i>International Journal of Fatigue</i> , 2007, 29, 748-757. | 2.8 | 48 |
| 82 | Noise-robust stress intensity factor determination from kinematic field measurements. <i>Engineering Fracture Mechanics</i> , 2008, 75, 3763-3781. | 2.0 | 48 |
| 83 | Digital volume correlation analyses of synchrotron tomographic images. <i>Journal of Strain Analysis for Engineering Design</i> , 2011, 46, 683-695. | 1.0 | 48 |
| 84 | Analysis of image series through global digital image correlation. <i>Journal of Strain Analysis for Engineering Design</i> , 2012, 47, 214-228. | 1.0 | 48 |
| 85 | Crystal plasticity parameter identification with 3D measurements and Integrated Digital Image Correlation. <i>Acta Materialia</i> , 2016, 116, 321-331. | 3.8 | 48 |
| 86 | Identification of crystal plasticity parameters using DIC measurements and weighted FEMU. <i>Mechanics of Materials</i> , 2016, 100, 55-71. | 1.7 | 48 |
| 87 | Digital Volume Correlation Applied to X-ray Tomography Images from Spherical Indentation Tests on Lightweight Gypsum. <i>Strain</i> , 2014, 50, 444-453. | 1.4 | 47 |
| 88 | Localized strain field measurement on laminography data with mechanical regularization. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 324, 70-79. | 0.6 | 47 |
| 89 | DIC identification and X-FEM simulation of fatigue crack growth based on the Williams's series. <i>International Journal of Solids and Structures</i> , 2015, 53, 38-47. | 1.3 | 46 |
| 90 | Projection Savings in CT-based Digital Volume Correlation. <i>Experimental Mechanics</i> , 2015, 55, 275-287. | 1.1 | 46 |

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| 91 | HIGH-CYCLE FATIGUE BEHAVIOUR OF SPHEROIDAL GRAPHITE CAST IRON. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1998, 21, 287-296. | 1.7 | 45 |
| 92 | Displacement measurement technique for beam kinematics. <i>Optics and Lasers in Engineering</i> , 2009, 47, 495-503. | 2.0 | 45 |
| 93 | Three-dimensional analysis of a compression test on stone wool. <i>Acta Materialia</i> , 2009, 57, 3310-3320. | 3.8 | 45 |
| 94 | 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. | 0.6 | 45 |
| 95 | Spectral approach to displacement evaluation from image analysis. <i>EPJ Applied Physics</i> , 2002, 17, 247-252. | 0.3 | 44 |
| 96 | Numerical validation framework for micromechanical simulations based on synchrotron 3D imaging. <i>Computational Mechanics</i> , 2017, 59, 419-441. | 2.2 | 43 |
| 97 | Matrix cracking and debonding of ceramic-matrix composites. <i>International Journal of Solids and Structures</i> , 1996, 33, 1209-1220. | 1.3 | 41 |
| 98 | 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. | 1.5 | 41 |
| 99 | 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. | 6.0 | 40 |
| 100 | 3D analysis from micro-MRI during in situ compression on cancellous bone. <i>Journal of Biomechanics</i> , 2009, 42, 2381-2386. | 0.9 | 39 |
| 101 | Identification of a Damage Law by Using Full-field Displacement Measurements. <i>International Journal of Damage Mechanics</i> , 2007, 16, 179-197. | 2.4 | 38 |
| 102 | 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. | 1.9 | 38 |
| 103 | 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. | 2.0 | 38 |
| 104 | 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. | 1.9 | 38 |
| 105 | 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. | 1.3 | 38 |
| 106 | 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. | 1.3 | 37 |
| 107 | Effect of Slag Impregnation on Thermal Degradations in Refractories. <i>Journal of the American Ceramic Society</i> , 2007, 90, 154-162. | 1.9 | 36 |
| 108 | A Multi-disciplinary Approach for Mechanical Metamaterial Synthesis: A Hierarchical Modular Multiscale Cellular Structure Paradigm. <i>Advanced Structured Materials</i> , 2019, , 485-505. | 0.3 | 36 |

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|-----|--|-----|-----------|
| 109 | Analysis of necking in high speed experiments by stereocorrelation. International Journal of Impact Engineering, 2012, 49, 179-191. | 2.4 | 35 |
| 110 | Two-dimensional continua capable of large elastic extension in two independent directions: Asymptotic homogenization, numerical simulations and experimental evidence. Mechanics Research Communications, 2020, 103, 103466. | 1.0 | 35 |
| 111 | Hybrid analytical and extended finite element method (HAX-FEM): A new enrichment procedure for cracked solids. International Journal for Numerical Methods in Engineering, 2010, 81, 269-285. | 1.5 | 34 |
| 112 | Characterization of SEM speckle pattern marking and imaging distortion by digital image correlation. Measurement Science and Technology, 2014, 25, 015401. | 1.4 | 34 |
| 113 | Integrated digital image correlation applied to elastoplastic identification in a biaxial experiment. Journal of Strain Analysis for Engineering Design, 2016, 51, 118-131. | 1.0 | 34 |
| 114 | Micro-mechanics and continuum damage mechanics. Archive of Applied Mechanics, 1995, 65, 437-456. | 1.2 | 33 |
| 115 | Response of saturated porous media to cyclic thermal loading. International Journal for Numerical and Analytical Methods in Geomechanics, 2003, 27, 883-904. | 1.7 | 33 |
| 116 | Experiments and modelling of the compressive behaviour of two SiC ceramics. Mechanics of Materials, 2003, 35, 987-1002. | 1.7 | 33 |
| 117 | Volume changes in a filled elastomer studied via digital image correlation. Polymer Testing, 2012, 31, 663-670. | 2.3 | 33 |
| 118 | A numerical study of the influence from pre-existing cracks on granite rock fragmentation at percussive drilling. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 558-570. | 1.7 | 33 |
| 119 | Multiscale DIC Applied to Pantographic Structures. Experimental Mechanics, 2021, 61, 431-443. | 1.1 | 33 |
| 120 | Modelling of high temperature asymmetric creep behavior of ceramics. Journal of the European Ceramic Society, 2005, 25, 1819-1827. | 2.8 | 32 |
| 121 | Integrated digital image correlation for the evaluation and correction of optical distortions. Optics and Lasers in Engineering, 2014, 56, 121-133. | 2.0 | 32 |
| 122 | On strain and damage interactions during tearing: 3D in situ measurements and simulations for a ductile alloy (AA2139-T3). Journal of the Mechanics and Physics of Solids, 2016, 96, 550-571. | 2.3 | 32 |
| 123 | Experimental investigation of localized phenomena using digital image correlation. Philosophical Magazine, 2008, 88, 3339-3355. | 0.7 | 31 |
| 124 | Optimal and noise-robust extraction of Fracture Mechanics parameters from kinematic measurements. Engineering Fracture Mechanics, 2011, 78, 1827-1845. | 2.0 | 31 |
| 125 | A space-time approach in digital image correlation: Movie-DIC. Optics and Lasers in Engineering, 2011, 49, 71-81. | 2.0 | 31 |
| 126 | Mesoscale analysis of damage growth in woven composites. Composites Part A: Applied Science and Manufacturing, 2017, 96, 77-88. | 3.8 | 31 |

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|-----|---|-----|-----------|
| 127 | A probabilistic model to predict the formation and propagation of crack networks in thermal fatigue. International Journal of Fatigue, 2009, 31, 565-574. | 2.8 | 30 |
| 128 | Optimization of a Cruciform Specimen Geometry for the Identification of Constitutive Parameters Based Upon Full-Field Measurements. Strain, 2016, 52, 307-323. | 1.4 | 30 |
| 129 | Complete mechanical regularization applied to digital image and volume correlation. Computer Methods in Applied Mechanics and Engineering, 2019, 355, 27-43. | 3.4 | 30 |
| 130 | Strain heterogeneities and local anisotropy in crimped glass wool. Journal of Materials Science, 2005, 40, 5949-5954. | 1.7 | 29 |
| 131 | Three-dimensional Analysis of Fatigue Crack Propagation using X-Ray Tomography, Digital Volume Correlation and Extended Finite Element Simulations. Procedia IUTAM, 2012, 4, 151-158. | 1.2 | 29 |
| 132 | Soft Route to 4D Tomography. Physical Review Letters, 2016, 117, 025501. | 2.9 | 29 |
| 133 | Optimal procedure for the identification of constitutive parameters from experimentally measured displacement fields. International Journal of Solids and Structures, 2020, 184, 14-23. | 1.3 | 29 |
| 134 | Integrated Digital Image Correlation considering gray level and blur variations: Application to distortion measurements of IR camera. Optics and Lasers in Engineering, 2016, 78, 75-85. | 2.0 | 28 |
| 135 | Effect of void arrangement on ductile damage mechanisms in nodular graphite cast iron: In situ 3D measurements. Engineering Fracture Mechanics, 2018, 192, 242-261. | 2.0 | 28 |
| 136 | Estimation of elastic strain by integrated image correlation on electron diffraction patterns. Ultramicroscopy, 2019, 199, 16-33. | 0.8 | 28 |
| 137 | A probabilistic model for multiaxial high cycle fatigue. Fatigue and Fracture of Engineering Materials and Structures, 2007, 30, 107-114. | 1.7 | 26 |
| 138 | CONTROLLING TESTING MACHINES WITH DIGITAL IMAGE CORRELATION. Experimental Techniques, 2007, 31, 57-63. | 0.9 | 26 |
| 139 | Enriched kinematic fields of cracked structures. International Journal of Solids and Structures, 2010, 47, 3305-3316. | 1.3 | 26 |
| 140 | Identification of the crushing behavior of brittle foam: From indentation to oedometric tests. Journal of the Mechanics and Physics of Solids, 2017, 98, 181-200. | 2.3 | 26 |
| 141 | On the Evaluation of Stress Triaxiality Fields in a Notched Titanium Alloy Sample Via Integrated Digital Image Correlation. Journal of Applied Mechanics, Transactions ASME, 2015, 82, . | 1.1 | 25 |
| 142 | Analysis of wedge splitting test on refractory castable via integrated DIC. Journal of the European Ceramic Society, 2016, 36, 4309-4317. | 2.8 | 25 |
| 143 | Characterization of the nonlinear behavior of nodular graphite cast-iron via inverse identification-Analysis of uniaxial tests. European Journal of Mechanics, A/Solids, 2016, 59, 140-154. | 2.1 | 25 |
| 144 | Cutting force sensor based on digital image correlation for segmented chip formation analysis. Journal of Materials Processing Technology, 2016, 238, 466-473. | 3.1 | 24 |

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| 145 | 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. | 2.1 | 24 |
| 146 | Out-of-plane deformation reduction via inelastic hinges in fibrous metamaterials and simplified damage approach. <i>Mathematics and Mechanics of Solids</i> , 2022, 27, 1011-1031. | 1.5 | 24 |
| 147 | Material-independent crack arrest statistics. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 1651-1669. | 2.3 | 23 |
| 148 | An extension of digital volume correlation for multimodality image registration. <i>Measurement Science and Technology</i> , 2017, 28, 095401. | 1.4 | 23 |
| 149 | Complexity of shear localization in a Zr-based bulk metallic glass. <i>Scripta Materialia</i> , 2009, 61, 1145-1148. | 2.6 | 22 |
| 150 | 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. | 2.4 | 22 |
| 151 | Image-based identification procedure of a crack propagation law. <i>Engineering Fracture Mechanics</i> , 2013, 103, 48-59. | 2.0 | 22 |
| 152 | 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. | 2.0 | 22 |
| 153 | Poynting effects in pantographic metamaterial captured via multiscale DVC. <i>Journal of Strain Analysis for Engineering Design</i> , 2021, 56, 462-477. | 1.0 | 22 |
| 154 | Localization due to damage in fiber-reinforced composites. <i>International Journal of Solids and Structures</i> , 1992, 29, 3221-3238. | 1.3 | 21 |
| 155 | Prediction of self-heating measurements under proportional and non-proportional multiaxial cyclic loadings. <i>Comptes Rendus - Mecanique</i> , 2007, 335, 81-86. | 2.1 | 21 |
| 156 | Identification of elastic property and loading fields from full-field displacement measurements. <i>International Journal of Solids and Structures</i> , 2007, 44, 2863-2887. | 1.3 | 21 |
| 157 | On probabilistic aspects in the dynamic degradation of ductile materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2009, 57, 1980-1998. | 2.3 | 21 |
| 158 | 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. | 2.1 | 21 |
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