

# JÃ©rÃ©me Ac Molimard

## List of Publications by Year in descending order

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88  
papers

1,795  
citations

393982

19  
h-index

276539

41  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1500  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bandages Static Stiffness Index Is Not Influenced by Calf Mechanical Properties but Only by Geometrical Changes. <i>Biomechanics</i> , 2022, 2, 87-94.	0.5	1
2	A new device for the combined measurement of friction and through-thickness deformation on ex vivo skin samples. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 130, 105141.	1.5	0
3	Feasibility of a Full-Field Measurements-Based Protocol for the Biomechanical Study of a Lumbar Belt: A Case Study. <i>Biomechanics</i> , 2022, 2, 174-188.	0.5	0
4	Multifactorial Analysis of Endodontic Microsurgery Using Finite Element Models. <i>Journal of Personalized Medicine</i> , 2022, 12, 1012.	1.1	3
5	Lower leg compression and its biomechanical effects on the soft tissues of the leg. , 2020, , 55-85.		1
6	Characterization of chemoelastic effects in arteries using digital volume correlation and optical coherence tomography. <i>Acta Biomaterialia</i> , 2020, 102, 127-137.	4.1	23
7	Bone Position and Ligament Deformations of the Foot From CT Images to Quantify the Influence of Footwear in ex vivo Feet. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 560.	2.0	2
8	Characterization of Fabric-to-Fabric Friction: Application to Medical Compression Bandages. <i>Autex Research Journal</i> , 2020, 20, 220-227.	0.6	3
9	Parametric Study of Lumbar Belts in the Case of Low Back Pain: Effect of Patientsâ€™ Specific Characteristics. , 2020, , 43-59.		3
10	Does the Knowledge of the Local Thickness of Human Ascending Thoracic Aneurysm Walls Improve Their Mechanical Analysis?. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 169.	2.0	13
11	In-silico pre-clinical trials are made possible by a new simple and comprehensive lumbar belt mechanical model based on the Law of Laplace including support deformation and adhesion effects. <i>PLoS ONE</i> , 2019, 14, e0212681.	1.1	3
12	Directional Denoising Using Fourier Spectrum Cloning. , 2019, , .		1
13	A Generalized Differential Colorimetric Interferometry Method: Extension to the Film Thickness Measurement of Any Point Contact Geometry. <i>Tribology Transactions</i> , 2018, 61, 648-660.	1.1	10
14	Three-Dimensional Full-Field Strain Measurements across a Whole Porcine Aorta Subjected to Tensile Loading Using Optical Coherence Tomographyâ€™Digital Volume Correlation. <i>Frontiers in Mechanical Engineering</i> , 2018, 4, .	0.8	24
15	Numerical Model Reduction for the Prediction of Interface Pressure Applied by Compression Bandages on the Lower Leg. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 449-457.	2.5	13
16	Superimposition of elastic and nonelastic compression bandages. <i>Journal of Vascular Surgery: Venous and Lymphatic Disorders</i> , 2017, 5, 851-858.	0.9	8
17	Addendum to: Assessment of Digital Image Correlation Measurement Errors: Methodology and Results [Experimental Mechanics 49(3)]. <i>Experimental Mechanics</i> , 2017, 57, 1515-1515.	1.1	1
18	Experimental and numerical approach for the investigation of interface pressure applied by compression bandages. <i>Veins and Lymphatics</i> , 2017, 6, .	0.1	0

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19	Subject-Specific Computational Prediction of the Effects of Elastic Compression in the Calf. , 2017, , 523-544.		1
20	Numerical Approach for the Assessment of Pressure Generated by Elastic Compression Bandage. Annals of Biomedical Engineering, 2016, 44, 3096-3108.	1.3	9
21	Modelisation of the action of compression bandages on the lower limb. Annals of Physical and Rehabilitation Medicine, 2016, 59, e30.	1.1	0
22	<i>In vivo</i> Identification of the Passive Mechanical Properties of Deep Soft Tissues in the Human Leg. Strain, 2016, 52, 400-411.	1.4	19
23	Role and limit of biomechanical modeling in the study of medical devices. Annals of Physical and Rehabilitation Medicine, 2016, 59, e25-e26.	1.1	0
24	Multiscale Approach to Characterize Mechanical Properties of Tissue Engineered Skin. Annals of Biomedical Engineering, 2016, 44, 2851-2862.	1.3	7
25	Prediction of the Biomechanical Effects of Compression Therapy by Finite Element Modeling and Ultrasound Elastography. IEEE Transactions on Biomedical Engineering, 2015, 62, 1011-1019.	2.5	18
26	Robert Jones bandage pressure range assessment using a pressure mapping system and application to band calibration. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 2068-2069.	0.9	4
27	Characterisation of Knee Brace Migration and Associated Skin Deformation During Flexion by Full-Field Measurements. Experimental Mechanics, 2015, 55, 349-360.	1.1	12
28	Evaluation of the mechanical efficiency of knee braces based on computational modeling. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 646-661.	0.9	7
29	Characterisation of in-vivo mechanical action of knee braces regarding their anti-drawer effect. Knee, 2015, 22, 80-87.	0.8	12
30	Experimental Investigation of Pressure Applied on the Lower Leg by Elastic Compression Bandage. Annals of Biomedical Engineering, 2015, 43, 2967-2977.	1.3	23
31	Combined experimental and numerical approach for the assessment of pressure generated by elastic compression bandage. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 166-167.	0.9	2
32	Biomechanical analysis and modelling of lumbar belt: parametric study. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 62-63.	0.9	2
33	Characterization of a pressure measuring system for the evaluation of medical devices. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 1264-1274.	1.0	10
34	Evaluation of the mechanical efficiency of knee orthoses: A combined experimentalâ€“numerical approach. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 533-546.	1.0	3
35	Bayesian Identification of Elastic Constants in Multi-Directional Laminate from MoirÃ© Interferometry Displacement Fields. Experimental Mechanics, 2013, 53, 635-648.	1.1	39
36	Biomechanical analysis and modelling of lumbar belt: preliminary study. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 219-221.	0.9	0

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37	Densification and thermal gradient evolution of alumina during microwave sintering at 2.45GHz. <i>Ceramics International</i> , 2013, 39, 3269-3277.	2.3	27
38	Assessment of the in-plane biomechanical properties of human skin using a finite element model updating approach combined with an optical full-field measurement on a new tensile device. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 27, 273-282.	1.5	33
39	Uncertainty on fringe projection technique: A Monte-Carlo-based approach. <i>Optics and Lasers in Engineering</i> , 2013, 51, 840-847.	2.0	16
40	Demodulation of Spatial Carrier Images: Performance Analysis of Several Algorithms Using a Single Image. <i>Experimental Mechanics</i> , 2013, 53, 1357-1370.	1.1	18
41	Patient-specific modelling of the calf muscle under elastic compression using magnetic resonance imaging and ultrasound elastography. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 332-333.	0.9	3
42	Monitoring the resin infusion manufacturing process under industrial environment using distributed sensors. <i>Journal of Composite Materials</i> , 2012, 46, 691-706.	1.2	30
43	Numerical and experimental analyses of resin infusion manufacturing processes of composite materials. <i>Journal of Composite Materials</i> , 2012, 46, 1617-1631.	1.2	16
44	Efficiency of Knee Braces: A Biomechanical Approach Based on Computational Modeling. , 2012, , .		1
45	Non contact method for in vivo assessment of skin mechanical properties for assessing effect of ageing. <i>Medical Engineering and Physics</i> , 2012, 34, 172-178.	0.8	58
46	Monitoring LCM Process by FBG Sensor Under Birefringence. <i>Strain</i> , 2011, 47, 364-373.	1.4	9
47	Contactless Monitoring of Shrinkage and Temperature Distribution during Hybrid Microwave Sintering. <i>Advanced Engineering Materials</i> , 2011, 13, 901-905.	1.6	25
48	Implementation of the direct evaluation of strains using a phase analysis code for random patterns. <i>Optics and Lasers in Engineering</i> , 2011, 49, 1194-1200.	2.0	2
49	Direct Strain and Slope and Slope Measurement Using 2D DSPSI. <i>Advanced Materials Research</i> , 2011, 324, 384-387.	0.3	0
50	Implementation of the direct evaluation of strains in a frequency-based image analysis code for random patterns. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
51	Study of dimensional stability of a thick composite panel submitted to environmental changes. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
52	Effect of approximation fidelity on vibration-based elastic constants identification. <i>Structural and Multidisciplinary Optimization</i> , 2010, 42, 293-304.	1.7	4
53	Applying a Bayesian Approach to Identification of Orthotropic Elastic Constants from Full Field Displacement Measurements. <i>EPJ Web of Conferences</i> , 2010, 6, 37005.	0.1	0
54	Methodology for metrological analysis of periodic coding images: measurement resolution and spatial resolution. <i>EPJ Web of Conferences</i> , 2010, 6, 10002.	0.1	0

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55	Introduction to the Bayesian Approach Applied to Elastic Constants Identification. AIAA Journal, 2010, 48, 893-903.	1.5	28
56	Characterization of Liquid Resin Infusion (LRI) filling by fringe pattern projection and in situ thermocouples. Composites Part A: Applied Science and Manufacturing, 2010, 41, 36-44.	3.8	19
57	Assessment of Digital Image Correlation Measurement Errors: Methodology and Results. Experimental Mechanics, 2009, 49, 353-370.	1.1	497
58	Maximum curvatures of 0/90 plates under thermal stress: Modelling and experimental validation. Composites Science and Technology, 2009, 69, 93-96.	3.8	2
59	Bayesian Statistical Identification of Orthotropic Elastic Constants Accounting for Measurement and Modeling Errors. , 2009, , .		5
60	Exact and efficient interpolation using finite elements shape functions. European Journal of Computational Mechanics, 2009, 18, 307-331.	0.6	12
61	Strain maps obtained by phase-shifting interferometry: An uncertainty analysis. Optics Communications, 2008, 281, 2195-2206.	1.0	12
62	Signal-to-noise based local decorrelation compensation for speckle interferometry applications. Applied Optics, 2008, 47, 3535.	2.1	3
63	Full-field strain measurements for validation of meso-FE analysis of textile composites. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1218-1231.	3.8	133
64	Comparison between the basic least squares and the Bayesian approach for elastic constants identification. Journal of Physics: Conference Series, 2008, 135, 012045.	0.3	5
65	Relevance of Colorimetric Interferometry for Thin Surface Film Contaminants. , 2008, , 675-692.		0
66	Modelling and Experimental Characterisation of Hygrothermoelastic Stress in Polymer Matrix Composites. Macromolecular Symposia, 2007, 247, 199-210.	0.4	6
67	Identification of Material Properties Using FEMU: Application to the Open Hole Tensile Test. Applied Mechanics and Materials, 2007, 7-8, 73-78.	0.2	5
68	Uncertainty analysis of temporal phase-stepping algorithms for interferometry. Optics Communications, 2007, 275, 144-155.	1.0	32
69	Transient and cyclical hygrothermoelastic stress in laminated composite plates: Modelling and experimental assessment. Mechanics of Materials, 2007, 39, 729-745.	1.7	41
70	On the nonlinear deformations of thin unsymmetric 0/90 composite plates under hygrothermal loads. Composites Part A: Applied Science and Manufacturing, 2006, 37, 624-629.	3.8	39
71	Quantitative strain and slope evaluation on a double lap joint tensile test using ESPSI. , 2006, , .		4
72	Diffraction grating interferometers for mechanical characterisations of advanced fabric laminates. Optics and Laser Technology, 2006, 38, 51-66.	2.2	8

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73	Transition Saddle-Cylinder Shape of Thin Unsymmetric [0/90] Square Plates under Hygrothermal Loads: Fringe Projection Method and Variational Approach. Applied Mechanics and Materials, 2006, 3-4, 217-222.	0.2	1
74	Calculation of pressure distribution in EHD point contacts from experimentally determined film thickness. Tribology International, 2005, 38, 391-401.	3.0	8
75	Identification of the four orthotropic plate stiffnesses using a single open-hole tensile test. Experimental Mechanics, 2005, 45, 404-411.	1.1	78
76	Measurement of a surface profile with maximum accuracy using a temporal phase-stepping. Proceedings of SPIE, 2005, 9664, 348.	0.8	0
77	A Fresnel's Reflection Optical Fiber Sensor for Thermoset Polymer Cure Monitoring. Polymers and Polymer Composites, 2004, 12, 269-276.	1.0	19
78	Digital phase-shifting grating shearography for experimental analysis of fabric composites under tension. Composites Part A: Applied Science and Manufacturing, 2004, 35, 849-859.	3.8	44
79	Application of grating shearography and speckle shearography to mechanical analysis of composite material. Composites Part A: Applied Science and Manufacturing, 2004, 35, 965-976.	3.8	30
80	In Situ Pressure and Film Thickness Measurements in Rolling/Sliding Lubricated Point Contacts. Tribology Letters, 2003, 15, 421-429.	1.2	35
81	In situ pressure measurements in an elastohydrodynamically lubricated point contact using Raman microspectrometry. Comparison with numerical calculations. Tribology Series, 2003, 41, 663-673.	0.1	9
82	Application of grating shearography to the experimental analysis of a single fabric lamina under tensile loading. , 2002, 4778, 257.		0
83	ColorimÃ©trie DiffÃ©rentielle : Un outil pour l'Ã©tude de la lubrification fluide. Mecanique Et Industries, 2002, 3, 571-581.	0.2	5
84	Thin Film Colorimetric Interferometry. Tribology Transactions, 2001, 44, 270-276.	1.1	160
85	Lubricant rheology in real conditions: measurements and confrontation with a ball/disk contact. Revue De Metallurgie, 2001, 98, 141-148.	0.3	5
86	Thin film lubrication study by colorimetric interferometry. Tribology Series, 2000, 38, 695-704.	0.1	10
87	New tools for the experimental study of EDH and limit lubrications. Tribology Series, 1999, 36, 717-726.	0.1	13
88	A Signal to Noise Optimization Algorithm for Speckle Interferometry Applications. Applied Mechanics and Materials, 0, 13-14, 29-38.	0.2	1