List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Extension of the Adjustable Localization Operator Method to Anisotropic Elasto-Plastic Behavior for Low-Cycle Fatigue Life Prediction. Journal of Engineering Materials and Technology, Transactions of the ASME, 2022, 144, . | 0.8 | 1 |
| 2 | A probabilistic approach for high cycle fatigue of Wire and Arc Additive Manufactured parts taking into account process-induced pores. Additive Manufacturing, 2021, 42, 101989. | 1.7 | 6 |
| 3 | Two new in-plane torsion tests for the investigation of self-heating under pure shear cyclic loading. International Journal of Fatigue, 2021, 149, 106256. | 2.8 | 0 |
| 4 | Taking residual stresses into account in low-cycle fatigue design using the adjustable localisation operator method. International Journal of Fatigue, 2021, 150, 106322. | 2.8 | 7 |
| 5 | Investigation of self-heating and dissipative effects in ferroelectric ceramics subjected to compressive mechanical cyclic loading. Acta Materialia, 2021, 221, 117386. | 3.8 | 8 |
| 6 | Self-heating of metastable 304L austenitic stainless steel under cyclic loading: Influence of initial martensite volume fraction, testing temperature and pre-strain. Mechanics of Materials, 2020, 151, 103596. | 1.7 | 11 |
| 7 | An original simplified method based on the use of an adjustable localization operator for low-cycle fatigue life predictions in the case of confined plasticity. Theoretical and Applied Fracture Mechanics, 2019, 104, 102383. | 2.1 | 5 |
| 8 | Fatigue analysis of shape memory alloys by self-heating method. International Journal of Mechanical Sciences, 2019, 156, 329-341. | 3.6 | 16 |
| 9 | R-phase shape memory alloy helical spring based actuators: Modeling and experiments. Sensors and Actuators A: Physical, 2019, 289, 65-76. | 2.0 | 15 |
| 10 | Effect of mechanical (monotonic and cyclic) stress on the corrosion resistance of chromium-plated steel rods. Procedia Engineering, 2018, 213, 598-605. | 1.2 | 3 |
| 11 | Investigation of NiTi based damper effects in bridge cables vibration response: Damping capacity and stiffness changes. Engineering Structures, 2018, 165, 184-197. | 2.6 | 15 |
| 12 | Effect of mechanical pre-loadings on corrosion resistance of chromium-electroplated steel rods in marine environment. Materials Research Express, 2018, 5, 036522. | 0.8 | 1 |
| 13 | Rotary bending fatigue analysis of shape memory alloys. Journal of Intelligent Material Systems and Structures, 2018, 29, 1183-1195. | 1.4 | 6 |
| 14 | Experimental Validation of Numerical Simulations of a New-Generation NiTi Endodontic File Under Bending. Journal of Materials Engineering and Performance, 2018, 27, 5856-5864. | 1.2 | 5 |
| 15 | Study of load history effects on the high cycle fatigue properties of high-strength low-alloy steel from self-heating measurements. MATEC Web of Conferences, 2018, 165, 14016. | 0.1 | 2 |
| 16 | Rapid determination of the high cycle fatigue properties of high temperature aeronautical alloys by self-heating measurements. MATEC Web of Conferences, 2018, 165, 22022. | 0.1 | 4 |
| 17 | Identification of the micro-plasticity mechanisms at the origin of self-heating under cyclic loading with low stress amplitude. International Journal of Fatigue, 2017, 103, 122-135. | 2.8 | 29 |
| 18 | A uniaxial constitutive model for superelastic NiTi SMA including R-phase and martensite transformations and thermal effects. Smart Materials and Structures, 2017, 26, 025007. | 1.8 | 11 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Experimental Comparison of In-Depth Residual Stresses Measured with Neutron and X-Ray Diffraction with a Numerical Stress Relaxation Correction Method. Materials Science Forum, 2017, 905, 131-136. | 0.3 | 0 |
| 20 | Fatigue performance of superelastic NiTi near stress-induced martensitic transformation. International Journal of Fatigue, 2017, 95, 76-89. | 2.8 | 58 |
| 21 | Determination of the First Stress Tensor Invariant of a Complex Steel Sheet Structure from Thermoelastic Stress Analysis. Procedia Engineering, 2015, 133, 736-745. | 1.2 | 3 |
| 22 | Validation of a high-cycle fatigue model via calculation/test comparisons at structural scale: Application to copper alloy sand-cast ship propellers. International Journal of Fatigue, 2015, 74, 38-45. | 2.8 | 8 |
| 23 | Variation in electric resistivity in metastable alloys during thermomechanical loading: Effects of temperature, elasticity, plasticity and phase transformation. Mechanics of Materials, 2014, 71, 1-9. | 1.7 | 13 |
| 24 | Experimental characterisation of three-phase NiTi wires under tension. Mechanics of Materials, 2014, 79, 85-101. | 1.7 | 34 |
| 25 | Determination of high cycle fatigue properties of a wide range of steel sheet grades from self-heating measurements. International Journal of Fatigue, 2014, 63, 46-61. | 2.8 | 77 |
| 26 | Residual Stress Measurement Methods Comparison in High-Strength Steel for Naval Application. Advanced Materials Research, 2014, 996, 343-348. | 0.3 | 0 |
| 27 | Fast Fatigue Properties Identification by "Self-heating―Method: Application to Automotive Welded Joints. Procedia Engineering, 2013, 66, 676-683. | 1.2 | 7 |
| 28 | A new approach to characterizing and modeling the high cycle fatigue properties of cast materials based on self-heating measurements under cyclic loadings. International Journal of Fatigue, 2013, 47, 232-243. | 2.8 | 32 |
| 29 | Fast prediction of the Wöhler curve from heat build-up measurements on Short Fiber Reinforced Plastic. International Journal of Fatigue, 2013, 47, 259-267. | 2.8 | 78 |
| 30 | Electric Resistivity as Phase Volume Fractions Indicator in Metastable Alloys. Materials Science Forum, 2013, 738-739, 56-61. | 0.3 | 0 |
| 31 | Mechanical Behavior Study of NiTi Endodontic Files Taking into Account Anatomic Shape of Root Canals. Materials Science Forum, 2013, 738-739, 549-553. | 0.3 | 0 |
| 32 | Thermomechanical cyclic behavior modeling of Cu-Al-Be SMA materials and structures. International Journal of Solids and Structures, 2012, 49, 1088-1102. | 1.3 | 40 |
| 33 | Utilisation de l'imagerie IR pour l'étude de la fatigue des aciers. Premières observations d'effets de surface. Instrumentation Mesure Metrologie, 2012, 12, 107-129. | 0.2 | 1 |
| 34 | Comparative analysis of torsional and bending behavior through finite-element models of 5 Ni–Ti endodontic instruments. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2011, 111, 115-121. | 1.6 | 29 |
| 35 | Evaluation of the fatigue defect population in an elastomer using Xâ€ray computed microâ€tomography. Polymer Engineering and Science, 2011, 51, 1253-1263. | 1.5 | 30 |
| 36 | Experimental comparison of classical PID and model-free control: Position control of a shape memory alloy active spring. Control Engineering Practice, 2011, 19, 433-441. | 3.2 | 82 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Fast evaluation of the fatigue lifetime of rubber-like materials based on a heat build-up protocol and micro-tomography measurements. International Journal of Fatigue, 2010, 32, 1582-1590. | 2.8 | 63 |
| 40 | Phase proportioning in CuAlBe shape memory alloys during thermomechanical loadings using electric resistance variation. International Journal of Plasticity, 2010, 26, 258-272. | 4.1 | 30 |
| 41 | An improved model of 3-dimensional finite element analysis of mechanical behavior of endodontic instruments. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2010, 109, e111-e121. | 1.6 | 14 |
| 42 | Coupling of Forming Process and Fatigue Design Computations: A Local Approach. Advanced Engineering Materials, 2009, 11, 736-741. | 1.6 | 4 |
| 43 | A 3D super-elastic model for shape memory alloys taking into account progressive strain under cyclic loadings. Mechanics of Materials, 2009, 41, 12-26. | 1.7 | 122 |
| 44 | Influence of hardening type on self-heating of metallic materials under cyclic loadings at low amplitude. European Journal of Mechanics, A/Solids, 2009, 28, 233-240. | 2.1 | 35 |
| 45 | A new control strategy for shape memory alloys actuators. , 2009, , . | | 10 |
| 46 | Super-elastic behavior of shape memory alloys under proportional cyclic loadings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 174-177. | 2.6 | 10 |
| 47 | Model-Free Control of Shape Memory Alloys Antagonistic Actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 4458-4463. | 0.4 | 8 |
| 48 | ContrÃ1er une machine d'essai avec une caméra. Mecanique Et Industries, 2008, 9, 447-457. | 0.2 | 0 |
| 49 | Relation between martensite volume fraction and equivalent transformation strain in an anisotropic CuAIBe shape memory alloy. , 2007, , . | | Ο |
| 50 | A cyclic model for superelastic shape memory alloys. , 2007, , . | | 0 |
| 51 | Prediction of self-heating measurements under proportional and non-proportional multiaxial cyclic loadings. Comptes Rendus - Mecanique, 2007, 335, 81-86. | 2.1 | 21 |
| 52 | Determination of an HCF criterion by thermal measurements under biaxial cyclic loading. International Journal of Fatigue, 2007, 29, 748-757. | 2.8 | 48 |
| 53 | Multiaxial One Way Shape Memory Effect and Superelasticity. , 2007, , 389-390. | | 0 |
| 54 | About modelling the shape memory alloy behaviour based on the phase transformation surface identification under proportional loading and anisothermal conditions. International Journal of Solids and Structures, 2006, 43, 613-626. | 1.3 | 58 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | A probabilistic two-scale model for high-cycle fatigue life predictions. Fatigue and Fracture of Engineering Materials and Structures, 2005, 28, 279-288. | 1.7 | 111 |
| 56 | A general cyclic plasticity model taking into account yield surface distortion for multiaxial ratchetting. International Journal of Plasticity, 2004, 20, 1817-1850. | 4.1 | 80 |
| 57 | A phenomenological model for pseudoelasticity of shape memory alloys under multiaxial proportional and nonproportional loadings. European Journal of Mechanics, A/Solids, 2004, 23, 37-61. | 2.1 | 172 |
| 58 | Identification of the scatter in high cycle fatigue from temperature measurements. Comptes Rendus - Mecanique, 2004, 332, 795-801. | 2.1 | 54 |
| 59 | Mechanical Behavior of a Cu-Al-Be Shape Memory Alloy Under Multiaxial Proportional and Nonproportional Loadings. Journal of Engineering Materials and Technology, Transactions of the ASME, 2002, 124, 112-124. | 0.8 | 77 |
| 60 | An Improvement of Multiaxial Ratchetting Modeling Via Yield Surface Distortion. Journal of Engineering Materials and Technology, Transactions of the ASME, 2002, 124, 402-411. | 0.8 | 23 |
| 61 | <title>Experiments of transformation-induced plasticity under multiaxial loadings for a 16MND5 low-carbon steel</title> . , 2002, 4537, 115. | | 0 |
| 62 | <title>Analysis of mechanical behavior and in-situ observations of Cu-Al-Be SMA under biaxial compressive tests by using DIC</title> . , 2002, , . | | 4 |
| 63 | Analysis of a multiaxial test on a C/C composite by using digital image correlation and a damage model. Experimental Mechanics, 2002, 42, 318-328. | 1.1 | 112 |
| 64 | Experimental study of the phase transformation plasticity of 16MND5 low carbon steel under multiaxial loading. International Journal of Plasticity, 2002, 18, 1707-1727. | 4.1 | 62 |
| 65 | Experimental and numerical determinations of the initial surface of phase transformation under biaxial loading in some polycrystalline shape-memory alloys. Journal of the Mechanics and Physics of Solids, 2002, 50, 2717-2735. | 2.3 | 79 |
| 66 | Analysis of a Multiaxial Test on a C/C Composite by Using Digital Image Correlation and a Damage Model. Experimental Mechanics, 2002, 42, 318-328. | 1.1 | 12 |
| 67 | Digital image correlation used to analyze the multiaxial behavior of rubber-like materials. European Journal of Mechanics, A/Solids, 2001, 20, 169-187. | 2.1 | 149 |
| 68 | Ratchetting under tension–torsion loadings: experiments and modelling. International Journal of Plasticity, 2000, 16, 303-335. | 4.1 | 116 |
| 69 | Triaxial tension–compression tests for multiaxial cyclic plasticity. International Journal of Plasticity, 1999, 15, 521-549 | 4.1 | 55 |
| 70 | A Self-Heating Approach to Characterize Anisotropy Effects in Fatigue Behaviour: Application to a Nineteenth Century Puddled Iron from a French Railway Bridge. Advanced Materials Research, 0, 891-892, 136-142. | 0.3 | 0 |
| 71 | A Cyclic Model for Thermomechanical Behavior of Shape Memory Alloys. , 0, , 473-480. | | 0 |