

ValÃ©ry Valle

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

679
citations

567281

15
h-index

552781

26
g-index

38
all docs

38
docs citations

38
times ranked

429
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of grain-scale slip activity and lattice rotation fields in Inconel 718. <i>Acta Materialia</i> , 2022, 226, 117627.	7.9	14
2	Behavior in mixed-mode of desiccation cracks on a clayey rock front gallery. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 154, 105104.	5.8	1
3	Observation of bulk plasticity in a polycrystalline titanium alloy by diffraction contrast tomography and topotomography. <i>Materials Characterization</i> , 2022, 188, 111891.	4.4	7
4	Time-Resolved Digital Image Correlation in the Scanning Electron Microscope for Analysis of Time-Dependent Mechanisms. <i>Experimental Mechanics</i> , 2021, 61, 331-348.	2.0	13
5	Slip localization in Inconel 718: A three-dimensional and statistical perspective. <i>Acta Materialia</i> , 2021, 215, 117037.	7.9	32
6	Strain localization and fatigue crack formation at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:mrow><mml:mo></mml:mo><mml:mn>0001</mml:mn><mml:mo></mml:mo></mml:mrow></mml:math> twist boundaries in titanium alloys. <i>Acta Materialia</i> , 2021, 219, 117227.	7.9	28
7	Fracture behavior of cancellous bone and cancellous bone-PMMA bone cement interface: An experimental study using an integrated methodology (wedge splitting test and Heaviside-based digital) Tj ETQq1 1 0 17843147rgBT /Over		
8	Evaluation of fracture properties of cancellous bone tissues using digital image correlation/wedge splitting test method. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 102, 103469.	3.1	7
9	Direct measurements of slip irreversibility in a nickel-based superalloy using high resolution digital image correlation. <i>Acta Materialia</i> , 2020, 186, 172-189.	7.9	53
10	Measurement of elastic and rotation fields during irreversible deformation using Heaviside-digital image correlation. <i>Materials Characterization</i> , 2020, 169, 110600.	4.4	24
11	Automated and quantitative analysis of plastic strain localization via multi-modal data recombination. <i>Materials Characterization</i> , 2020, 163, 110245.	4.4	36
12	Nanometric metrology by FIB-SEM-DIC measurements of strain field and fracture separation on composite metallic material. <i>Materials and Design</i> , 2020, 192, 108665.	7.0	9
13	Subpixel precision of crack lip movements by Heavisideâ€based digital image correlation for a mixedâ€mode fracture. <i>Strain</i> , 2020, 56, e12346.	2.4	4
14	Role of Non-metallic Inclusions and Twins on the Variability in Fatigue Life in Alloy 718 Nickel Base Superalloy. <i>Minerals, Metals and Materials Series</i> , 2020, , 629-639.	0.4	7
15	Development of Optical Technique For Measuring Kinematic Fields in Presence of Cracks, FIB-SEM-DIC. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020, , 67-74.	0.5	0
16	New Development of Digital Volume Correlation for the Study of Fractured Materials. <i>Experimental Mechanics</i> , 2019, 59, 1-15.	2.0	23
17	Effect of microstructure on hydric strain in clay rock: A quantitative comparison. <i>Applied Clay Science</i> , 2019, 182, 105244.	5.2	5
18	Experimental in-plane characterization of a cellular material composed by a cell with a normal re-entrant link and geometrical parameters effects on the structure mechanical properties. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	2

#	ARTICLE	IF	CITATIONS
19	Crack Analysis in Mudbricks under Compression Using Specific Development of Stereo-Digital Image Correlation. <i>Experimental Mechanics</i> , 2018, 58, 475-486.	2.0	8
20	A new approach to quantify the anisotropy of hydromechanical strains in clay-rock at the gallery scale. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 111, 45-53.	5.8	5
21	Measurements of plastic localization by heaviside-digital image correlation. <i>Acta Materialia</i> , 2018, 157, 307-325.	7.9	81
22	Multi-scale study on the deformation and fracture evolution of clay rock sample subjected to desiccation. <i>Applied Clay Science</i> , 2016, 132-133, 251-260.	5.2	20
23	Caractérisation non destructive de la zone endommagée des galeries souterraines excavées dans les roches argileuses. <i>Revue Française De Géotechnique</i> , 2016, , 4.	0.1	2
24	Digital Image Correlation Development for the Study of Materials Including Multiple Crossing Cracks. <i>Experimental Mechanics</i> , 2015, 55, 379-391.	2.0	69
25	One-year monitoring of desiccation cracks in Tournemire argillite using digital image correlation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 68, 22-35.	5.8	37
26	Investigation of the damage induced by desiccation and heating of Tournemire argillite using digital image correlation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012, 51, 64-75.	5.8	37
27	Calibration of a structured-light projection system: Development to large dimension objects. <i>Optics and Lasers in Engineering</i> , 2012, 50, 373-379.	3.8	51
28	Calculation of J-integrals using experimental and numerical data: Influences of ratio (a/W) and the 3D structure. <i>Engineering Fracture Mechanics</i> , 2011, 78, 1976-1985.	4.3	5
29	Evaluation of three-dimensional and two-dimensional full displacement fields of a single edge notch fracture mechanics specimen, in light of experimental data using X-ray tomography. <i>Engineering Fracture Mechanics</i> , 2009, 76, 2371-2383.	4.3	19
30	Development of the marks tracking technique for strain field and volume variation measurements. <i>NDT and E International</i> , 2005, 38, 290-298.	3.7	52
31	Three Optical Procedures for Local Large Strain Measurement. <i>Strain</i> , 2001, 37, 89-98.	2.4	20
32	Study of Mechanical Behavior in Epiphyseal Fracture Treated by Reduction and Cement Injection: No Immediate Post-Operative Weight-Bearing but Only Passive and Active Mobilization Should be Advised. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	4.1	0