

# ValÃ©ry Valle

## List of Publications by Year in descending order

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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	Measurements of plastic localization by heaviside-digital image correlation. Acta Materialia, 2018, 157, 307-325.	7.9	81
2	Digital Image Correlation Development for the Study of Materials Including Multiple Crossing Cracks. Experimental Mechanics, 2015, 55, 379-391.	2.0	69
3	Direct measurements of slip irreversibility in a nickel-based superalloy using high resolution digital image correlation. Acta Materialia, 2020, 186, 172-189.	7.9	53
4	Development of the marks tracking technique for strain field and volume variation measurements. NDT and E International, 2005, 38, 290-298.	3.7	52
5	Calibration of a structured-light projection system: Development to large dimension objects. Optics and Lasers in Engineering, 2012, 50, 373-379.	3.8	51
6	Investigation of the damage induced by desiccation and heating of Tournemire argillite using digital image correlation. International Journal of Rock Mechanics and Minings Sciences, 2012, 51, 64-75.	5.8	37
7	One-year monitoring of desiccation cracks in Tournemire argillite using digital image correlation. International Journal of Rock Mechanics and Minings Sciences, 2014, 68, 22-35.	5.8	37
8	Automated and quantitative analysis of plastic strain localization via multi-modal data recombination. Materials Characterization, 2020, 163, 110245.	4.4	36
9	Slip localization in Inconel 718: A three-dimensional and statistical perspective. Acta Materialia, 2021, 215, 117037.	7.9	32
10	Strain localization and fatigue crack formation at $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{altimg="si3.svg"} \rangle \langle \text{mml:mrow} \langle \text{mml:mo} \langle \text{mml:mo} \langle \text{mml:mn} \rangle 0001 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ twist boundaries in titanium alloys. Acta Materialia, 2021, 219, 117227.	7.9	28
11	Measurement of elastic and rotation fields during irreversible deformation using Heaviside-digital image correlation. Materials Characterization, 2020, 169, 110600.	4.4	24
12	New Development of Digital Volume Correlation for the Study of Fractured Materials. Experimental Mechanics, 2019, 59, 1-15.	2.0	23
13	Three Optical Procedures for Local Large Strain Measurement. Strain, 2001, 37, 89-98.	2.4	20
14	Multi-scale study on the deformation and fracture evolution of clay rock sample subjected to desiccation. Applied Clay Science, 2016, 132-133, 251-260.	5.2	20
15	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. Engineering Fracture Mechanics, 2009, 76, 2371-2383.	4.3	19
16	Development of grain-scale slip activity and lattice rotation fields in Inconel 718. Acta Materialia, 2022, 226, 117627.	7.9	14
17	Time-Resolved Digital Image Correlation in the Scanning Electron Microscope for Analysis of Time-Dependent Mechanisms. Experimental Mechanics, 2021, 61, 331-348.	2.0	13
18	Nanometric metrology by FIB-SEM-DIC measurements of strain field and fracture separation on composite metallic material. Materials and Design, 2020, 192, 108665.	7.0	9

#	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	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
21	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) <i>Tj ETQq1 1:0.17843147rgBT /O</i>		
22	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
23	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
24	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
25	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
26	Effect of microstructure on hydric strain in clay rock: A quantitative comparison. <i>Applied Clay Science</i> , 2019, 182, 105244.	5.2	5
27	Subpixel precision of crack lip movements by Heaviside-based digital image correlation for a mixed-mode fracture. <i>Strain</i> , 2020, 56, e12346.	2.4	4
28	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
29	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
30	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
31	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
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