

# Jc Stinville

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10832140/publications.pdf>

Version: 2024-02-01

25  
papers

1,344  
citations

361413

20  
h-index

580821

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all docs

25  
docs citations

25  
times ranked

917  
citing authors

#	ARTICLE	IF	CITATIONS
1	High resolution mapping of strain localization near twin boundaries in a nickel-based superalloy. Acta Materialia, 2015, 98, 29-42.	7.9	158
2	A combined grain scale elasticâ€‘plastic criterion for identification of fatigue crack initiation sites in a twin containing polycrystalline nickel-base superalloy. Acta Materialia, 2016, 103, 461-473.	7.9	125
3	Sub-Grain Scale Digital Image Correlation by Electron Microscopy for Polycrystalline Materials during Elastic and Plastic Deformation. Experimental Mechanics, 2016, 56, 197-216.	2.0	117
4	Hardness and elastic modulus gradients in plasma-nitrided 316L polycrystalline stainless steel investigated by nanoindentation tomography. Acta Materialia, 2012, 60, 1965-1973.	7.9	90
5	Measurements of plastic localization by heaviside-digital image correlation. Acta Materialia, 2018, 157, 307-325.	7.9	81
6	Nitrogen interstitial diffusion induced decomposition in AISI 304L austenitic stainless steel. Acta Materialia, 2012, 60, 4065-4076.	7.9	76
7	Plasma nitriding of 316L austenitic stainless steel: Experimental investigation of fatigue life and surface evolution. Surface and Coatings Technology, 2010, 204, 1947-1951.	4.8	74
8	On lattice plane rotation and crystallographic structure of the expanded austenite in plasma nitrided AISI 316L steel. Surface and Coatings Technology, 2010, 204, 2551-2558.	4.8	70
9	Lattice rotation induced by plasma nitriding in a 316L polycrystalline stainless steel. Acta Materialia, 2010, 58, 2814-2821.	7.9	69
10	A 3D analysis of the onset of slip activity in relation to the degree of micro-texture in Tiâ€‘6Alâ€‘4V. Acta Materialia, 2019, 181, 36-48.	7.9	59
11	Anisotropy changes in hardness and indentation modulus induced by plasma nitriding of 316L polycrystalline stainless steel. Scripta Materialia, 2011, 64, 37-40.	5.2	55
12	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
13	Dislocation dynamics in a nickel-based superalloy via in-situ transmission scanning electron microscopy. Acta Materialia, 2019, 168, 152-166.	7.9	46
14	Automated and quantitative analysis of plastic strain localization via multi-modal data recombination. Materials Characterization, 2020, 163, 110245.	4.4	36
15	Modeling of the lattice rotations induced by plasma nitriding of 316L polycrystalline stainless steel. Acta Materialia, 2015, 83, 10-16.	7.9	33
16	Near-surface mechanical heterogeneities in a dissimilar aluminum alloys friction stir welded joint. Materials and Design, 2016, 108, 217-229.	7.0	32
17	Slip localization in Inconel 718: A three-dimensional and statistical perspective. Acta Materialia, 2021, 215, 117037.	7.9	32
18	Monotonic mechanical properties of plasma nitrided 316L polycrystalline austenitic stainless steel: Mechanical behaviour of the nitrided layer and impact of nitriding residual stresses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 605, 51-58.	5.6	30

#	ARTICLE	IF	CITATIONS
19	Strain localization and fatigue crack formation at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg" \rangle \langle \text{mml:mrow} \langle \text{mml:mo} \langle \text{mml:mo} \langle \text{mml:mn} \langle \text{mml:mn} \langle \text{mml:mo} \rangle \rangle \rangle \rangle \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ twist boundaries in titanium alloys. Acta Materialia, 2021, 219, 117227.	7.9	28
20	Measurement of elastic and rotation fields during irreversible deformation using Heaviside-digital image correlation. Materials Characterization, 2020, 169, 110600.	4.4	24
21	Nitrogen interstitial induced texture depth gradient in stainless steel. Scripta Materialia, 2010, 63, 496-499.	5.2	20
22	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
23	Microstructural and load hold effects on small fatigue crack growth in $\hat{1}\pm\hat{1}^2$ dual phase Ti alloys. International Journal of Fatigue, 2022, 156, 106699.	5.7	10
24	Observation of bulk plasticity in a polycrystalline titanium alloy by diffraction contrast tomography and topotomography. Materials Characterization, 2022, 188, 111891.	4.4	7
25	Orientation dependent plastic localization in the refractory high entropy alloy HfNbTaTiZr at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143291.	5.6	6