

Sophie Cazottes

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Precipitation and grain growth modelling in Ti-Nb microalloyed steels. <i>Materialia</i> , 2019, 5, 100233.	2.7	42
2	Characterization and modeling of oxides precipitation in ferritic steels during fast non-isothermal consolidation. <i>Acta Materialia</i> , 2016, 107, 390-403.	7.9	38
3	Constitutive model for nickel alloy 690 (Inconel 690) at various strain rates and temperatures. <i>International Journal of Plasticity</i> , 2016, 80, 139-153.	8.8	37
4	Effect of interstitial carbon distribution and nickel substitution on the tetragonality of martensite: A first-principles study. <i>Intermetallics</i> , 2017, 89, 92-99.	3.9	30
5	Structural characterization of a Cu/MgO(001) interface using CS-corrected HRTEM. <i>Thin Solid Films</i> , 2010, 519, 1662-1667.	1.8	26
6	Crack nucleation and growth in β titanium alloy with lamellar microstructure under uniaxial tension: 3D X-ray tomography analysis. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 747, 154-160.	5.6	20
7	Electron CHanneling ORientation Determination (eCHORD): An original approach to crystalline orientation mapping. <i>Ultramicroscopy</i> , 2018, 186, 146-149.	1.9	19
8	A novel approach to investigate delta phase precipitation in cold-rolled 718 alloys. <i>Acta Materialia</i> , 2018, 156, 31-42.	7.9	19
9	Can micro-compression testing provide stress-strain data for thin films?. <i>Thin Solid Films</i> , 2009, 518, 1517-1521.	1.8	17
10	Carbon diffusivity and kinetics of spinodal decomposition of martensite in a model Fe-Ni-C alloy. <i>Materials Letters</i> , 2018, 214, 213-216.	2.6	17
11	In situ analysis of plasticity and damage nucleation in a Ti-6Al-4V alloy and laser weld. <i>Materials Characterization</i> , 2018, 146, 81-90.	4.4	17
12	Microstructural study of the NbC to G-phase transformation in HP-Nb alloys. <i>Materialia</i> , 2020, 9, 100593.	2.7	17
13	Analysis of hybrid fracture in β titanium alloy with lamellar microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 744, 54-63.	5.6	15
14	Rotational-Electron Channeling Contrast Imaging analysis of dislocation structure in fatigued copper single crystal. <i>Scripta Materialia</i> , 2019, 162, 103-107.	5.2	14
15	Structural and magnetic properties of Cu ₈₀ Fe ₅ Ni ₁₅ granular ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e760-e763.	2.3	12
16	Analysis of shear stress promoting void evolution behavior in an β Ti alloy with fully lamellar microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 737, 27-39.	5.6	12
17	Influence of structural parameters on magnetoresistive properties of CuFeNi melt spun ribbons. <i>Ultramicroscopy</i> , 2009, 109, 625-630.	1.9	11
18	A Simple Model for Abnormal Grain Growth. <i>ISIJ International</i> , 2012, 52, 2278-2282.	1.4	11

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19	Preventing Abnormal Grain Growth of Austenite in Low Alloy Steels. ISIJ International, 2014, 54, 1927-1934.	1.4	11
20	Microstructural Evolution in 2101 Lean Duplex Stainless Steel During Low- and Intermediate-Temperature Aging. Microscopy and Microanalysis, 2016, 22, 463-473.	0.4	11
21	Precipitation of Al_2O_3 in Inconel 718 alloy from microstructure to mechanical properties. Materialia, 2021, 20, 101187.		
22	Precipitation Kinetics in a Nb-stabilized Ferritic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3655-3664.	2.2	9
23	Improvement of mechanical, thermal, and corrosion properties of Ni- and Al-free Cu-Zr-Ti metallic glass with yttrium addition. Materialia, 2018, 1, 249-257.	2.7	8
24	Design and Development of Complex Phase Steels with Improved Combination of Strength and Stretch-Flangeability. Metals, 2020, 10, 824.	2.3	8
25	Quantitative microstructural characterization of nuclear grade bainitic steel: Influence of macrosegregations in full-scale forgings. Materials Characterization, 2021, 176, 111098.	4.4	6
26	Nanometer Scale Tomographic Investigation of Fine Scale Precipitates in a CuFeNi Granular System by Three-Dimensional Field Ion Microscopy. Microscopy and Microanalysis, 2012, 18, 1129-1134.	0.4	5
27	Toward an automated tool for dislocation density characterization in a scanning electron microscope. Materials Characterization, 2019, 158, 109954.	4.4	5
28	Towards large scale orientation mapping using the eCHORD method. Ultramicroscopy, 2020, 208, 112854.	1.9	4
29	Plastic behavior of the Ti_2Al phase in Ti-6Al-4V alloys. Materials Letters, 2021, 283, 128719.		
30	Zr addition-dependent twin morphology evolution and strengthening response in nanostructured Al thin films. Materialia, 2021, 16, 101076.	2.7	4
31	Dislocation dynamics during cyclic loading in copper single crystal. Materialia, 2019, 8, 100501.	2.7	3
32	An alternative method for the measurement of precipitate volume fractions in microalloyed steels by the means of atom probe tomography. Materials Characterization, 2020, 164, 110308.	4.4	3
33	Microstructure, texture and mechanical properties with raw surface states of Ti-6Al-4V parts built by L-PBF. Procedia CIRP, 2022, 108, 698-703.	1.9	3
34	Correlation between microstructure at fine scale and magnetic properties of magnetoresistive Cu ₈₀ Fe ₁₀ Ni ₁₀ ribbons: Modeling of magnetization. Journal of Magnetism and Magnetic Materials, 2013, 333, 22-29.	2.3	1
35	Angular resolution expected from iCHORD orientation maps through a revisited ion channeling model. Ultramicroscopy, 2019, 202, 68-75.	1.9	1
36	Origin of Nickel Catalytic Particles in Carbon Nanotube Formation on a High-Carbon 25Cr-35Ni-Nb Cast Alloy. Oxidation of Metals, 2019, 91, 279-290.	2.1	1

#	ARTICLE	IF	CITATIONS
37	Effect of cold rolling on phase separation in 2202 lean duplex stainless steel. <i>Materialia</i> , 2020, 14, 100854.	2.7	1
38	Investigation and mean-field modelling of microstructural mechanisms driving the tensile properties of dual-phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 822, 141532.	5.6	1
39	eCHORD orientation mapping of bio-inspired alumina down to 1 kV. <i>Materialia</i> , 2021, 20, 101207.	2.7	1
40	Annealing Effects on the Structural Properties of FIB Prepared Cu Nanopillars - an in situ TEM study. <i>Microscopy and Microanalysis</i> , 2013, 19, 432-433.	0.4	0
41	Crystallographic Orientation Maps Obtained from Ion and Backscattered Electron Channeling Contrast. <i>Microscopy and Microanalysis</i> , 2017, 23, 552-553.	0.4	0
42	When Ion or Electron Channeling Meets Crystal Orientation Mapping. <i>Microscopy and Microanalysis</i> , 2019, 25, 1964-1965.	0.4	0