

Baptiste Girault

List of Publications by Year in descending order

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1040056

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all docs

21
docs citations

21
times ranked

358
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Investigation of Allotropic Transformation of Cobalt: Influence of Temperature Cycle, Mechanical Loading and Starting Microstructure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1477-1491.	2.2	6
2	Lattice strain development in an alpha titanium alloy studied using synchrotron and neutron diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 819, 141489.	5.6	4
3	Study of Residual Stresses in Additively Manufactured Ti-6Al-4V by Neutron Diffraction Measurements. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 951-961.	2.2	20
4	Temperature effect on strain-induced phase transformation of cobalt. Materials Letters, 2020, 281, 128812.	2.6	11
5	Electrochemical characteristics of Ni _x N thin films deposited by DC and HiPIMS reactive magnetron sputtering. Thin Solid Films, 2019, 669, 659-664.	1.8	9
6	In Situ Mechanical Behavior of Regenerating Rat Calvaria Bones Under Tensile Load via Synchrotron Diffraction Characterization. , 2018, , .		1
7	In situ lattice strains analysis in titanium during a uniaxial tensile test. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 395-403.	5.6	8
8	Modelling of elastoplastic behaviour of metallic materials with a homogenization approach: a self-consistent model based on dislocation densities. Acta Mechanica, 2015, 226, 2715-2727.	2.1	2
9	Residual stress fields analysis in rolled Zircaloy-4 plates: Grazing incidence diffraction and elastoplastic self-consistent model. Acta Materialia, 2014, 71, 136-144.	7.9	20
10	Controlled nanostructuring of polycrystalline tungsten thin films. Journal of Applied Physics, 2013, 113, .	2.5	20
11	Copper coverage effect on tungsten crystallites texture development in W/Cu nanocomposite thin films. Journal of Applied Physics, 2011, 109, 014305.	2.5	22
12	Strength Effects in Micropillars of a Dispersion Strengthened Superalloy. Advanced Engineering Materials, 2010, 12, 385-388.	3.5	66
13	Elastic behaviour of titanium dioxide films on polyimide substrates studied by in situ tensile testing in a X-ray diffractometer. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 365-369.	1.4	12
14	Development of a Biaxial Tensile Module at Synchrotron Beamline for the Study of Mechanical Properties of Nanostructured Films. Materials Research Society Symposia Proceedings, 2009, 1224, 1.	0.1	0
15	Relation between residual stresses and microstructure in Mo(Cr) thin films elaborated by ionized magnetron sputtering. Surface and Coatings Technology, 2008, 202, 2247-2251.	4.8	8
16	Size effects on the Mechanical Behavior of Nanometric W/Cu Multilayers. Materials Research Society Symposia Proceedings, 2008, 1086, 1.	0.1	3
17	Small scale mechanical properties of polycrystalline materials: in situ diffraction studies. International Journal of Nanotechnology, 2008, 5, 609.	0.2	4
18	Mechanical Properties of Thin Films and Nanometric Multilayers Using Tensile Testing and Synchrotron X-Ray Diffraction. Plasma Processes and Polymers, 2007, 4, 311-317.	3.0	3

#	ARTICLE	IF	CITATIONS
19	X-ray diffraction analysis of the structure and residual stresses of W/Cu multilayers. Surface and Coatings Technology, 2006, 201, 4372-4376.	4.8	28
20	Strains, Stresses and Elastic Properties in Polycrystalline Metallic Thin Films: In Situ Deformation Combined with X-Ray Diffraction and Simulation Experiments. Materials Science Forum, 2006, 524-525, 735-740.	0.3	2
21	Lattice Strain Pole Figures Analysis in Titanium during Uniaxial Deformation. Materials Science Forum, 0, 905, 74-80.	0.3	1