

Baptiste Girault

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

250
citations

1040056

9
h-index

940533

16
g-index

21
all docs

21
docs citations

21
times ranked

358
citing authors

#	ARTICLE	IF	CITATIONS
1	Strength Effects in Micropillars of a Dispersion Strengthened Superalloy. <i>Advanced Engineering Materials</i> , 2010, 12, 385-388.	3.5	66
2	X-ray diffraction analysis of the structure and residual stresses of W/Cu multilayers. <i>Surface and Coatings Technology</i> , 2006, 201, 4372-4376.	4.8	28
3	Copper coverage effect on tungsten crystallites texture development in W/Cu nanocomposite thin films. <i>Journal of Applied Physics</i> , 2011, 109, 014305.	2.5	22
4	Controlled nanostructuring of polycrystalline tungsten thin films. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	20
5	Residual stress fields analysis in rolled Zircaloy-4 plates: Grazing incidence diffraction and elastoplastic self-consistent model. <i>Acta Materialia</i> , 2014, 71, 136-144.	7.9	20
6	Study of Residual Stresses in Additively Manufactured Ti-6Al-4V by Neutron Diffraction Measurements. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 951-961.	2.2	20
7	Elastic behaviour of titanium dioxide films on polyimide substrates studied by in situ tensile testing in a X-ray diffractometer. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 365-369.	1.4	12
8	Temperature effect on strain-induced phase transformation of cobalt. <i>Materials Letters</i> , 2020, 281, 128812.	2.6	11
9	Electrochemical characteristics of Ni _x N thin films deposited by DC and HiPIMS reactive magnetron sputtering. <i>Thin Solid Films</i> , 2019, 669, 659-664.	1.8	9
10	Relation between residual stresses and microstructure in Mo(Cr) thin films elaborated by ionized magnetron sputtering. <i>Surface and Coatings Technology</i> , 2008, 202, 2247-2251.	4.8	8
11	In situ lattice strains analysis in titanium during a uniaxial tensile test. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 662, 395-403.	5.6	8
12	Experimental Investigation of Allotropic Transformation of Cobalt: Influence of Temperature Cycle, Mechanical Loading and Starting Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 1477-1491.	2.2	6
13	Small scale mechanical properties of polycrystalline materials: in situ diffraction studies. <i>International Journal of Nanotechnology</i> , 2008, 5, 609.	0.2	4
14	Lattice strain development in an alpha titanium alloy studied using synchrotron and neutron diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 819, 141489.	5.6	4
15	Mechanical Properties of Thin Films and Nanometric Multilayers Using Tensile Testing and Synchrotron X-Ray Diffraction. <i>Plasma Processes and Polymers</i> , 2007, 4, 311-317.	3.0	3
16	Size effects on the Mechanical Behavior of Nanometric W/Cu Multilayers. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1086, 1.	0.1	3
17	Strains, Stresses and Elastic Properties in Polycrystalline Metallic Thin Films: In Situ Deformation Combined with X-Ray Diffraction and Simulation Experiments. <i>Materials Science Forum</i> , 2006, 524-525, 735-740.	0.3	2
18	Modelling of elastoplastic behaviour of metallic materials with a homogenization approach: a self-consistent model based on dislocation densities. <i>Acta Mechanica</i> , 2015, 226, 2715-2727.	2.1	2

#	ARTICLE	IF	CITATIONS
19	Lattice Strain Pole Figures Analysis in Titanium during Uniaxial Deformation. Materials Science Forum, 0, 905, 74-80.	0.3	1
20	In Situ Mechanical Behavior of Regenerating Rat Calvaria Bones Under Tensile Load via Synchrotron Diffraction Characterization. , 2018, , .		1
21	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