Florence Lecouturier

List of Publications by Year
in descending order

44	1,126	430754 18	395590 33
papers	citations	h-index	g-index

46	46	46	959
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of alloying on the tensile strength and electrical resistivity of silver nanowire: copper composites macroscopic wires. Journal of Materials Science, 2021, 56, 4884-4895.	1.7	5
2	High Strength-High Conductivity Silver Nanowire-Copper Composite Wires by Spark Plasma Sintering and Wire-Drawing for Non-Destructive Pulsed Fields. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.1	1
3	Nanostructured 1% silver-copper composite wires with a high tensile strength and a high electrical conductivity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 761, 138048.	2.6	15
4	Multiscale modeling of the elasto-plastic behavior of architectured and nanostructured Cu-Nb composite wires and comparison with neutron diffraction experiments. International Journal of Plasticity, 2019, 122, 1-30.	4.1	21
5	Design and Tests of the 100-T Triple Coil at LNCMI. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	28
6	High strength-high conductivity carbon nanotube-copper wires with bimodal grain size distribution by spark plasma sintering and wire-drawing. Scripta Materialia, 2017, 137, 78-82.	2.6	18
7	Multiscale modeling of the elastic behavior of architectured and nanostructured Cuâ€“Nb composite wires. International Journal of Solids and Structures, 2017, 121, 148-162.	1.3	25
8	Multiscale modeling of the anisotropic electrical conductivity of architectured and nanostructured Cu-Nb composite wires and experimental comparison. Acta Materialia, 2017, 141, 131-141.	3.8	29
9	High strength â€“ High conductivity double-walled carbon nanotube â€“ Copper composite wires. Carbon, 2016, 96, 212-215.	5.4	65
10	High strengthâ€“high conductivity nanostructured copper wires prepared by spark plasma sintering and room-temperature severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 209-213.	2.6	19
11	Mechanical properties of thick 304L stainless steel deposits processed by He cold spray. Surface and Coatings Technology, 2015, 277, 74-80.	2.2	63
12	Dog-bone copper specimens prepared by one-step spark plasma sintering. Journal of Materials Science, 2015, 50, 7364-7373.	1.7	27
13	ModÃ©lisation multi-Ã©chelle du comportement Ã©lectrique de nano-composites Cu-Nb. Materiaux Et Techniques, 2015, 103, 309.	0.3	7
14	Comparison of the Properties of Cold-Sprayed Cu-0.5Cr-0.05Zr Alloys after Various Heat Treatments Versus Forged and Vacuum Plasma-Sprayed Alloys. Journal of Thermal Spray Technology, 2014, 23, 486-491.	1.6	14
15	Mechanical properties of Cold Spray deposited NARloy-Z copper alloy. Surface and Coatings Technology, 2013, 232, 652-657.	2.2	16
16	Special Coils Development at the National High Magnetic Field Laboratory in Toulouse. Journal of Low Temperature Physics, 2013, 170, 442-446.	0.6	21
17	Copper/Stainless Steel Polyhelix Magnets. IEEE Transactions on Applied Superconductivity, 2012, 22, 4300404-4300404.	1.1	10
18	Cu/Nb Nanocomposite Wires Processed by Severe Plastic Deformation for Applications in High Pulsed Magnets: Effects of the Multi-Scale Microstructure on the Mechanical Properties. IEEE Transactions on Applied Superconductivity, 2012, 22, 6900104-6900104.	1.1	16

#	Article	IF	Citations
19	Cuâ€“Nb Nanocomposite Wires Processed by Severe Plastic Deformation: Effects of the Multiâ€Scale Microstructure and Internal Stresses on Elasticâ€Plastic Properties. Advanced Engineering Materials, 2012, 14, 998-1003.	1.6	16
20	Microstructure and texture of copper/niobium composites processed by ECAE. International Journal of Material Forming, 2012, 5, 121-127.	0.9	4
21	Metallic composites processed via extreme deformation: Toward the limits of strength in bulk materials. MRS Bulletin, 2010, 35, 982-991.	1.7	180
22	Microstructure and texture of copper/niobium composites processed by ECAE. International Journal of Material Forming, 2010, 3, 1071-1074.	0.9	3
23	Thermal stability of nanocomposite metals: In situ observation of anomalous residual stress relaxation during annealing under synchrotron radiation. Acta Materialia, 2010, 58, 6504-6512.	3.8	28
24	A new criterion for elasto-plastic transition in nanomaterials: Application to size and composite effects on Cuâ€“Nb nanocomposite wires. Acta Materialia, 2009, 57, 3157-3169.	3.8	96
25	New Developments at the National Pulsed Field Laboratory in Toulouse. IEEE Transactions on Applied Superconductivity, 2008, 18, 592-595.	1.1	9
26	Small scale mechanical properties of polycrystalline materials: in situ diffraction studies. International Journal of Nanotechnology, 2008, 5, 609.	0.1	4
27	Plasticity Mechanisms in Multi-Scale Copper-Based Nanocomposite Wires. Materials Science Forum, 2007, 539-543, 814-819.	0.3	1
28	Evidence of internal Bauschinger test in nanocomposite wires duringin situmacroscopic tensile cycling under synchrotron beam. Applied Physics Letters, 2007, 90, 241907.	1.5	28
29	Plasticity of multiscale nanofilamentary Cuâ•Nb composite wires during in situ neutron diffraction: Codeformation and size effect. Applied Physics Letters, 2006, 88, 191906.	1.5	53
30	Effects of size and geometry on the plasticity of high-strength copper/tantalum nanofilamentary conductors obtained by severe plastic deformation. Acta Materialia, 2006, 54, 1063-1075.	3.8	36
31	Elaboration by Severe Plastic Deformation, Microstructural and Mechanical Study of Cu/X (X =Ta or) Tj ETQq1 1 0.784314 rgBT /Overlo 639-644.	0.3	3
32	Size Effect in the Plasticity of Multiscale Nanofilamentary Cu/Nb Composite Wires During in-situ Tensile Tests Under Neutron Beam. Materials Research Society Symposia Proceedings, 2006, 977, 1.	0.1	1
33	Identification of Aging Mechanisms for Non-Destructive Pulsed Magnets Operating in the 60 T Range. IEEE Transactions on Applied Superconductivity, 2004, 14, 1237-1240.	1.1	8
34	Perspectives for Cu/SS macrocomposite and Cu/X nanofilamentary conductors used in non-destructive high-field pulsed magnets under cryogenic conditions. Physica B: Condensed Matter, 2004, 346-347, 582-588.	1.3	13
35	Established and Emerging Materials for use as High-Field Magnet Conductors. Advanced Engineering Materials, 2004, 6, 290-297.	1.6	59
36	Experimental analysis of mechanical and electrical aging in pulsed magnets. Physica B: Condensed Matter, 2004, 346-347, 589-593.	1.3	3

#	Article	IF	Citations
37	Low Temperature Physics at the Laboratoire National des Champs MagnÃ©tiques PulsÃ©s in Toulouse. Journal of Low Temperature Physics, 2003, 133, 97-120.	0.6	1
38	Pulsed magnetic fields in Toulouse â€“ past, present and future. Physica B: Condensed Matter, 2001, 294-295, 579-584.	1.3	21
39	Ultra high strength nanofilamentary conductors: the way to reach extreme properties. Physica B: Condensed Matter, 2001, 294-295, 648-652.	1.3	17
40	Ultra high strength nanocomposite conductors for pulsed magnet windings. IEEE Transactions on Applied Superconductivity, 2000, 10, 1269-1272.	1.1	17
41	Axial and radial interface instabilities of copper/tantalum cylindrical conductors. Acta Materialia, 1999, 47, 2761-2768.	3.8	7
42	FIM and 3D atom probe analysis of Cu/Nb nanocomposite wires. Scripta Materialia, 1999, 11, 1031-1039.	0.5	22
43	Microstructural characterization of high strength and high conductivity nanocomposite wires. Scripta Materialia, 1996, 34, 1067-1073.	2.6	85
44	High-strength materials: in-situ investigations of dislocation behaviour in Cu-Nb multifilamentary nanostructured composites. , 0, .		5