

Jean Philippe CouziniÃ©

List of Publications by Year in descending order

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citations

218381

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54
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57
all docs

57
docs citations

57
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and exploration of refractory high entropy alloys – A review. Journal of Materials Research, 2018, 33, 3092-3128.	1.2	854
2	Thermodynamic instability of a nanocrystalline, single-phase TiZrNbHfTa alloy and its impact on the mechanical properties. Acta Materialia, 2018, 142, 201-212.	3.8	196
3	On the room temperature deformation mechanisms of a TiZrHfNbTa refractory high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 645, 255-263.	2.6	189
4	From high-entropy alloys to complex concentrated alloys. Comptes Rendus Physique, 2018, 19, 721-736.	0.3	154
5	Design and tensile properties of a bcc Ti-rich high-entropy alloy with transformation-induced plasticity. Materials Research Letters, 2017, 5, 110-116.	4.1	153
6	Elastic and plastic properties of as-cast equimolar TiHfZrTaNb high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 654, 30-38.	2.6	146
7	Hydrogen sorption in TiZrNbHfTa high entropy alloy. Journal of Alloys and Compounds, 2019, 775, 667-674.	2.8	145
8	Study of a bcc multi-principal element alloy: Tensile and simple shear properties and underlying deformation mechanisms. Acta Materialia, 2018, 142, 131-141.	3.8	138
9	Microstructure of a near-equimolar refractory high-entropy alloy. Materials Letters, 2014, 126, 285-287.	1.3	135
10	Surface-dependent oxidation of H ₂ on CeO ₂ surfaces. Journal of Catalysis, 2013, 297, 193-201.	3.1	109
11	In situ monitoring of the deformation mechanisms in titanium with different oxygen contents. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 636, 91-102.	2.6	106
12	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys. Data in Brief, 2018, 21, 1622-1641.	0.5	105
13	New structure in refractory high-entropy alloys. Materials Letters, 2014, 132, 123-125.	1.3	95
14	Microstructural investigation of plastically deformed Ti ₂₀ Zr ₂₀ Hf ₂₀ Nb ₂₀ Ta ₂₀ high entropy alloy by X-ray diffraction and transmission electron microscopy. Materials Characterization, 2015, 108, 1-7.	1.9	84
15	Mechanical behavior and microstructure of Ti ₂₀ Hf ₂₀ Zr ₂₀ Ta ₂₀ Nb ₂₀ high-entropy alloy loaded under quasi-static and dynamic compression conditions. Materials Characterization, 2016, 111, 106-113.	1.9	82
16	Body-centered cubic high-entropy alloys: From processing to underlying deformation mechanisms. Materials Characterization, 2019, 147, 533-544.	1.9	68
17	Phase stability and microstructure evolution in a ductile refractory high entropy alloy Al ₁₀ Nb ₁₅ Ta ₅ Ti ₃₀ Zr ₄₀ . Materialia, 2020, 9, 100569.	1.3	61
18	In situ TEM observations of dislocation dynamics in α -titanium: Effect of the oxygen content. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 703, 331-339.	2.6	50

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19	Temperature dependent deformation behavior and strengthening mechanisms in a low density refractory high entropy alloy Al10Nb15Ta5Ti30Zr40. <i>Materialia</i> , 2020, 9, 100627.	1.3	47
20	Interaction of dissociated lattice dislocations with a $\lambda=3$ grain boundary in copper. <i>International Journal of Plasticity</i> , 2005, 21, 759-775.	4.1	43
21	Precipitation behaviour of Al3Zr precipitate in Al-Cu-Zr and Al-Cu-Zr-Ti-V alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 1860-1865.	1.7	42
22	Temperature dependence of elastic moduli in a refractory HfNbTaTiZr high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019, 799, 538-545.	2.8	42
23	On the Room-Temperature Mechanical Properties of an Ion-Irradiated TiZrNbHfTa Refractory High Entropy Alloy. <i>Jom</i> , 2020, 72, 130-138.	0.9	34
24	Study of the FCC+L12 two-phase region in complex concentrated alloys based on the Al-Co-Cr-Fe-Ni-Ti system. <i>Materialia</i> , 2020, 14, 100905.	1.3	32
25	Characterization of aluminum processed by equal channel angular extrusion: Effect of processing route. <i>Materials Characterization</i> , 2009, 60, 1489-1495.	1.9	29
26	Ultrafine versus coarse grained Al 5083 alloys: From low-cycle to very-high-cycle fatigue. <i>International Journal of Fatigue</i> , 2019, 121, 84-97.	2.8	28
27	Four-point bending fatigue behavior of an equimolar BCC HfNbTaTiZr high-entropy alloy: Macroscopic and microscopic viewpoints. <i>Materialia</i> , 2018, 4, 348-360.	1.3	26
28	Atomic structures of symmetrical and asymmetrical facets in a near $\lambda=9\{221\}$ tilt grain boundary in copper. <i>Acta Materialia</i> , 2007, 55, 1791-1800.	3.8	25
29	Room-temperature creep and stress relaxation in commercial purity titanium—Influence of the oxygen and hydrogen contents on incubation phenomena and aging-induced rejuvenation of the creep potential. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 624, 79-89.	2.6	24
30	On the interactions between dislocations and a near- $\lambda=3$ grain boundary in a low stacking-fault energy metal. <i>Philosophical Magazine Letters</i> , 2003, 83, 721-731.	0.5	23
31	High-temperature deformation mechanisms in a BCC+B2 refractory complex concentrated alloy. <i>Acta Materialia</i> , 2022, 233, 117995.	3.8	21
32	Study of the stability under in vitro physiological conditions of surface silanized equimolar HfNbTaTiZr high-entropy alloy: A first step toward bio-implant applications. <i>Surface and Coatings Technology</i> , 2020, 385, 125374.	2.2	18
33	Modeling of the influence of coarsening on viscoplastic behavior of a 319 foundry aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 559, 40-48.	2.6	14
34	High temperature phase stability of the compositionally complex alloy AlMo0.5NbTa0.5TiZr. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	14
35	Analysis of the fatigue crack growth mechanisms in equimolar body centered cubic HfNbTaTiZr high-entropy alloy: Discussions on its singularities and consequences on the crack propagation rate properties. <i>Intermetallics</i> , 2019, 110, 106459.	1.8	13
36	In-situ transmission electron microscopy study of glissile grain boundary dislocation relaxation in a near $\lambda=3\{111\}$ grain boundary in copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 400-401, 264-267.	2.6	12

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37	Synthesis of nanometric MoNbW alloy using self-propagating high-temperature synthesis. <i>Advanced Powder Technology</i> , 2017, 28, 1739-1744.	2.0	12
38	Interaction Between Dislocations and Grain Boundaries Role in Plastic Deformation. <i>Advanced Engineering Materials</i> , 2010, 12, 1037-1040.	1.6	8
39	Synthesis of nanometric refractory alloys powders in the Mo Nb W system. <i>Journal of Alloys and Compounds</i> , 2016, 679, 80-87.	2.8	8
40	Orientation imaging- ASTAR investigation of the grain and precipitate morphology in Al-Cu-Mg alloy processed by Equal Channel Angular Pressing. <i>Journal of Alloys and Compounds</i> , 2015, 647, 152-158.	2.8	6
41	On the atomic structure of an asymmetrical near $\theta = 27$ grain boundary in copper. <i>Philosophical Magazine Letters</i> , 2009, 89, 757-767.	0.5	5
42	High Strength and Electrical Conductivity of UFG Copper Alloys. <i>Materials Science Forum</i> , 0, 667-669, 755-759.	0.3	5
43	Special Issue "Advanced Refractory Alloys" Metals, MDPI. <i>Metals</i> , 2022, 12, 333.	1.0	5
44	Interactions between dislocations and interfaces " consequences for metal and ceramic plasticity. <i>International Journal of Materials Research</i> , 2010, 101, 1202-1210.	0.1	4
45	Microstructure investigation and thermal stability of 99.1% aluminum processed by equal channel angular extrusion. <i>Journal of Materials Science</i> , 2011, 46, 2185-2193.	1.7	4
46	Microstructural evolution of a recycled aluminum alloy deformed by equal channel angular pressing process. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 1016-1022.	2.4	4
47	Ultrafine-Grained Two-Phase High-Entropy Alloy Microstructures Obtained via Recrystallization: Mechanical Properties. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	4
48	On the first steps of grain boundary dislocation stress relaxations in copper. <i>International Journal of Materials Research</i> , 2004, 95, 223-225.	0.8	4
49	Cyclic hardening/softening and deformation mechanisms of a twip steel under reversed loading. <i>Materialia</i> , 2022, 22, 101421.	1.3	4
50	Activation volume and the role of solute atoms in Al-Mg-Si alloy processed by equal channel angular extrusion. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163334.	2.8	3
51	Effect of Mo, Ta, V and Zr on a duplex bcc+orthorhombic refractory complex concentrated alloy using diffusion couples. <i>Intermetallics</i> , 2020, 124, 106836.	1.8	2
52	TEM and DSC Investigation of the Recovery of a Recycled Aluminum Processed by Equal Channel Angular Extrusion. <i>Materials Science Forum</i> , 2010, 667-669, 451-456.	0.3	1
53	Extended interfacial structure between two asymmetrical facets of a $\theta = 9$ grain boundary in copper. <i>International Journal of Materials Research</i> , 2006, 97, 954-957.	0.1	1
54	Experimental investigation of the local environment and lattice distortion in refractory medium entropy alloys. <i>Scripta Materialia</i> , 2022, 211, 114532.	2.6	1

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55	TEM and stress relaxation analysis of 99.1% aluminum processed by Equal Channel Angular Extrusion. IOP Conference Series: Materials Science and Engineering, 2012, 28, 012026.	0.3	0