

Xavier Milhet

List of Publications by Year in descending order

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papers

862
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471509

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34
all docs

34
docs citations

34
times ranked

605
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-isothermal creep at very high temperature of the nickel-based single crystal superalloy MC2. Acta Materialia, 2007, 55, 6250-6259.	7.9	90
2	Effect of very high temperature short exposures on the dissolution of the γ' phase in single crystal MC2 superalloy. Journal of Materials Science, 2007, 42, 7780-7786.	3.7	82
3	Ageing sintered silver: Relationship between tensile behavior, mechanical properties and the nanoporous structure evolution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 669, 379-386.	5.6	79
4	Quantitative characterization of porosity and determination of elastic modulus for sintered micro-silver joints. Journal of Materials Processing Technology, 2015, 225, 19-23.	6.3	68
5	Very high temperature creep behavior of a single crystal Ni-based superalloy under complex thermal cycling conditions. Philosophical Magazine Letters, 2010, 90, 611-620.	1.2	64
6	Mechanical Properties of Sintered Ag as a New Material for Die Bonding: Influence of the Density. Journal of Electronic Materials, 2014, 43, 4510-4514.	2.2	52
7	Synthesis and characterization of a new $(\text{Ti}_{1-x}\text{Cu}_x)_3(\text{Al,Cu})\text{C}_2$ MAX phase solid solution. Journal of the European Ceramic Society, 2017, 37, 459-466.	5.7	37
8	Hardness cartography to increase the nanoindentation resolution in heterogeneous materials: Application to a Ni-based single-crystal superalloy. Scripta Materialia, 2012, 66, 77-80.	5.2	35
9	Carbon nitride thin films as protective coatings for biomaterials: synthesis, mechanical and biocompatibility characterizations. Diamond and Related Materials, 2003, 12, 1066-1069.	3.9	34
10	Influence of the Porous Microstructure on the Elastic Properties of Sintered Ag Paste as Replacement Material for Die Attachment. Journal of Electronic Materials, 2015, 44, 3948-3956.	2.2	32
11	On the influence of the dendritic structure on the creep behavior of a Re-containing superalloy at high temperature/low stress. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 546, 139-145.	5.6	30
12	Simulation of Very High Temperature Overheating During Isothermal Creep of Single Crystal Ni-base Superalloy. Advanced Engineering Materials, 2008, 10, 56-61.	3.5	28
13	γ' -phase morphology of Ni-based single crystal superalloys as an indicator of the stress concentration in the vicinity of pores. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 501, 61-69.	5.6	26
14	Modeling of Young's modulus variations with temperature of Ni and oxidized Ni using a magneto-mechanical approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 633, 76-91.	5.6	23
15	Titania Deposition on PMR-15. Chemistry of Materials, 2005, 17, 3205-3213.	6.7	22
16	Evolution of the nanoporous microstructure of sintered Ag at high temperature using in-situ X-ray nanotomography. Acta Materialia, 2018, 156, 310-317.	7.9	22
17	Bulk and coated materials shear modulus determination by means of torsional resonant method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 521-522, 303-306.	5.6	20
18	TEM observations of the coexistence of perfect and dissociated dislocations in SiC under high stress. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1987-1991.	0.8	15

#	ARTICLE	IF	CITATIONS
19	On the role of the internal stress during non-isothermal creep life of a first generation nickel based single crystal superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2280-2288.	5.6	13
20	Microstructures of 4H-SiC single crystals deformed under very high stresses. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 12961-12966.	1.8	11
21	Evolution of the Thermal Conductivity of Sintered Silver Joints with their Porosity Predicted by the Finite Element Analysis of Real 3D Microstructures. <i>Journal of Electronic Materials</i> , 2018, 47, 4170-4176.	2.2	10
22	Consolidation of iron powders through the influence of phosphate thin films. <i>Journal of Materials Processing Technology</i> , 2008, 205, 151-159.	6.3	9
23	On the Dissolution of the γ' Phase at the Dendritic Scale in a Rhenium-Containing Nickel-Based Single Crystal Superalloy After High Temperature Exposure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 2031-2040.	2.2	9
24	Glide dislocations in beta silicon nitride. <i>Philosophical Magazine Letters</i> , 1999, 79, 19-24.	1.2	8
25	Non-Isothermal Creep Behavior of a Second Generation Ni-Based Single Crystal Superalloy: Experimental Characterization and Modeling. , 2008, , .		7
26	Characterization of room-temperature plastic deformation of γ -Si ₃ N ₄ by atomic force microscopy and transmission electron microscopy. <i>Philosophical Magazine Letters</i> , 2001, 81, 623-629.	1.2	6
27	Stress heterogeneity of thermally grown polycrystalline nickel oxide layers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 395, 22-26.	5.6	5
28	Effect of oxidation on the elastic properties of ferromagnetic metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 571, 92-94.	5.6	5
29	Time-Resolved Evolution of the 3D Nanoporous Structure of Sintered Ag by X-Ray Nanotomography: Role of the Interface with a Copper Substrate. <i>Advanced Engineering Materials</i> , 2022, 24, 2100583.	3.5	4
30	In situ tensile tests in SEM of sputtered CNx films deposited on Ti6Al4V substrate: effect of film thickness and plasma surface pretreatment. <i>Thin Solid Films</i> , 2005, 482, 324-329.	1.8	3
31	Laser-driven shocks to explore the effects of aging on the adhesion of silver sintered on copper substrate. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 1346-1363.	2.6	2
32	Dislocation Sub-Boundaries in As-Grown β -Silicon Nitride. <i>Physica Status Solidi A</i> , 2002, 193, 377-389.	1.7	1
33	Study of the adhesion of a sintered Ag joint on a Cu substrate using laser shocks. Influence of aging. , 2021, , .		0