

Jean Hubert Schmitt

List of Publications by Year in descending order

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32
papers

870
citations

567281

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h-index

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33
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ TEM Characterization of Phase Transformations and Kirkendall Void Formation During Annealing of a Cu–Au–Sn–Cu Diffusion Bonding Joint. <i>Journal of Electronic Materials</i> , 2022, 51, 1568.	2.2	0
2	In-situ strain induced martensitic transformation measurement and consequences for the modeling of medium Mn stainless steels mechanical behavior. <i>International Journal of Plasticity</i> , 2022, 154, 103248.	8.8	10
3	Strain localization and delamination mechanism of cold-drawn pearlitic steel wires during torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 814, 141222.	5.6	4
4	Multi-parameter optimization of attenuation data for characterizing grain size distributions and application to bimodal microstructures. <i>Ultrasonics</i> , 2021, 115, 106425.	3.9	5
5	Comparison of ultrasonic attenuation within two- and three-dimensional polycrystalline media. <i>Ultrasonics</i> , 2020, 100, 105980.	3.9	15
6	Interactions of negative strain rate sensitivity, martensite transformation, and dynamic strain aging in 3rd generation advanced high-strength steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 140-151.	5.6	28
7	Development of 3rd generation Medium Mn duplex steels for automotive applications. <i>Materials Science and Technology</i> , 2019, 35, 204-219.	1.6	18
8	Finite element modeling of grain size effects on the ultrasonic microstructural noise backscattering in polycrystalline materials. <i>Ultrasonics</i> , 2018, 87, 182-202.	3.9	26
9	Measurement of Texture Gradient in Heavily Cold-Drawn Pearlitic Wires. <i>Advanced Engineering Materials</i> , 2018, 20, 1700279.	3.5	1
10	New developments of advanced high-strength steels for automotive applications. <i>Comptes Rendus Physique</i> , 2018, 19, 641-656.	0.9	125
11	Coincidence of strain-induced TRIP and propagative PLC bands in Medium Mn steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 704, 391-400.	5.6	55
12	Synergies between computational modeling and experimental characterization of materials across length scales. <i>Journal of Materials Science</i> , 2016, 51, 1176-1177.	3.7	1
13	In-situ laser ultrasonic grain size measurement in superalloy INCONEL 718. <i>Journal of Alloys and Compounds</i> , 2016, 670, 329-336.	5.5	57
14	Review of the synergies between computational modeling and experimental characterization of materials across length scales. <i>Journal of Materials Science</i> , 2016, 51, 1178-1203.	3.7	27
15	3D numerical modeling of dynamic recrystallization under hot working: Application to Inconel 718. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 646, 33-44.	5.6	29
16	Application of laser ultrasonics to monitor microstructure evolution in Inconel 718 superalloy. <i>MATEC Web of Conferences</i> , 2014, 14, 07001.	0.2	7
17	Plastic strain heterogeneities in an Mg–Zn–0.5Nd alloy. <i>Scripta Materialia</i> , 2013, 68, 695-698.	5.2	51
18	Experimental characterization and mechanical behaviour modelling of molybdenum–titanium carbide composite for high temperature applications. <i>International Journal of Refractory Metals and Hard Materials</i> , 2009, 27, 267-273.	3.8	8

#	ARTICLE	IF	CITATIONS
19	Stainless Steels for Exhaust Lines. Steel Research International, 2006, 77, 680-685.	1.8	9
20	Durcissement par seconde phase dans les aciers. Mecanique Et Industries, 2004, 5, 451-459.	0.2	0
21	Recrystallization and Texture in a Ferritic Stainless Steel: an EBSD Study. Advanced Engineering Materials, 2003, 5, 570-574.	3.5	39
22	Effect of precipitation on the development of dislocation substructure in low carbon steels during cold deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 164, 201-205.	5.6	15
23	Effect of precipitation on the development of dislocation substructure in low carbon steels during cold deformation. , 1993, , 201-205.		0
24	The effect of strain path change on the mechanical behaviour of copper sheets. Journal of Materials Processing Technology, 1990, 24, 313-322.	6.3	19
25	Dislocation substructures in mild steel deformed in simple shear. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 113, 441-448.	5.6	152
26	Texture development and strength differential effect in textured b.c.c. metals with glide asymmetry. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 108, 227-232.	5.6	10
27	Plastic behavior of prestrained metals: microstructural aspects.. Revue De Physique Appliquée, 1988, 23, 708-708.	0.4	2
28	Shear of prestrained steel specimens. Scripta Metallurgica, 1987, 21, 1087-1090.	1.2	23
29	Effect of a prestrain on the subsequent yielding of low carbon steel sheets: experiments and simulations. International Journal of Plasticity, 1986, 2, 371-378.	8.8	42
30	Yield surfaces of b.c.c. crystals with crystallographic slip. Materials Science and Engineering, 1986, 80, L31-L35.	0.1	5
31	A geometrical and physical description of yield surfaces for b.c.c. crystals in pencil glide. Materials Science and Engineering, 1984, 64, 255-263.	0.1	8
32	Dislocation microstructures in steel during deep drawing. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1983, 48, 841-870.	0.6	71