

Jean Hubert Schmitt

List of Publications by Year in descending order

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32
papers

870
citations

567281

15
h-index

477307

29
g-index

33
all docs

33
docs citations

33
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	Dislocation substructures in mild steel deformed in simple shear. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989, 113, 441-448.	5.6	152
2	New developments of advanced high-strength steels for automotive applications. <i>Comptes Rendus Physique</i> , 2018, 19, 641-656.	0.9	125
3	Dislocation microstructures in steel during deep drawing. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1983, 48, 841-870.	0.6	71
4	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
5	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
6	Plastic strain heterogeneities in an Mg ¹ Zn ¹ 0.5Nd alloy. <i>Scripta Materialia</i> , 2013, 68, 695-698.	5.2	51
7	Effect of a prestrain on the subsequent yielding of low carbon steel sheets: experiments and simulations. <i>International Journal of Plasticity</i> , 1986, 2, 371-378.	8.8	42
8	Recrystallization and Texture in a Ferritic Stainless Steel: an EBSD Study. <i>Advanced Engineering Materials</i> , 2003, 5, 570-574.	3.5	39
9	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
10	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
11	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
12	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
13	Shear of prestrained steel specimens. <i>Scripta Metallurgica</i> , 1987, 21, 1087-1090.	1.2	23
14	The effect of strain path change on the mechanical behaviour of copper sheets. <i>Journal of Materials Processing Technology</i> , 1990, 24, 313-322.	6.3	19
15	Development of 3rd generation Medium Mn duplex steels for automotive applications. <i>Materials Science and Technology</i> , 2019, 35, 204-219.	1.6	18
16	Effect of precipitation on the development of dislocation substructure in low carbon steels during cold deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993, 164, 201-205.	5.6	15
17	Comparison of ultrasonic attenuation within two- and three-dimensional polycrystalline media. <i>Ultrasonics</i> , 2020, 100, 105980.	3.9	15
18	Texture development and strength differential effect in textured b.c.c. metals with glide asymmetry. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989, 108, 227-232.	5.6	10

#	ARTICLE	IF	CITATIONS
19	In-situ strain induced martensitic transformation measurement and consequences for the modeling of medium Mn stainless steels mechanical behavior. International Journal of Plasticity, 2022, 154, 103248.	8.8	10
20	Stainless Steels for Exhaust Lines. Steel Research International, 2006, 77, 680-685.	1.8	9
21	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
22	Experimental characterization and mechanical behaviour modelling of molybdenum-titanium carbide composite for high temperature applications. International Journal of Refractory Metals and Hard Materials, 2009, 27, 267-273.	3.8	8
23	Application of laser ultrasonics to monitor microstructure evolution in Inconel 718 superalloy. MATEC Web of Conferences, 2014, 14, 07001.	0.2	7
24	Yield surfaces of b.c.c. crystals with crystallographic slip. Materials Science and Engineering, 1986, 80, L31-L35.	0.1	5
25	Multi-parameter optimization of attenuation data for characterizing grain size distributions and application to bimodal microstructures. Ultrasonics, 2021, 115, 106425.	3.9	5
26	Strain localization and delamination mechanism of cold-drawn pearlitic steel wires during torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141222.	5.6	4
27	Plastic behavior of prestrained metals: microstructural aspects.. Revue De Physique Appliquée, 1988, 23, 708-708.	0.4	2
28	Synergies between computational modeling and experimental characterization of materials across length scales. Journal of Materials Science, 2016, 51, 1176-1177.	3.7	1
29	Measurement of Texture Gradient in Heavily Cold-Drawn Pearlitic Wires. Advanced Engineering Materials, 2018, 20, 1700279.	3.5	1
30	Durcissement par seconde phase dans les aciers. Mecanique Et Industries, 2004, 5, 451-459.	0.2	0
31	Effect of precipitation on the development of dislocation substructure in low carbon steels during cold deformation. , 1993, , 201-205.		0
32	In situ TEM Characterization of Phase Transformations and Kirkendall Void Formation During Annealing of a Cu-Au-Sn-Cu Diffusion Bonding Joint. Journal of Electronic Materials, 2022, 51, 1568.	2.2	0