

Wiesław A Awiatnicki

List of Publications by Year in descending order

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17
papers

501
citations

840776

11
h-index

888059

17
g-index

17
all docs

17
docs citations

17
times ranked

362
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of hydrogen concentration on the embrittlement of a duplex stainless steel. <i>Corrosion Science</i> , 2005, 47, 1403-1414.	6.6	93
2	Grain boundary structure and intergranular segregation in Al ₂ O ₃ . <i>Acta Metallurgica Et Materialia</i> , 1995, 43, 795-805.	1.8	75
3	Rate of energy storage and microstructure evolution during the tensile deformation of austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993, 161, 55-63.	5.6	53
4	Investigation of grain boundary diffusion in polycrystals by means of extrinsic grain boundary dislocations spreading rate. <i>Acta Metallurgica</i> , 1986, 34, 599-605.	2.1	46
5	Microstructure evolution and strain localization during shear deformation of an aluminium alloy. <i>Acta Materialia</i> , 1996, 44, 4195-4208.	7.9	43
6	Effect of the grain size on the rate of energy storage during the tensile deformation of an austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 197, 49-58.	5.6	40
7	Non-uniform distribution of plastic strain in duplex steel during TEM in situ deformation. <i>Materials Chemistry and Physics</i> , 2003, 81, 476-479.	4.0	37
8	Boron influence on grain boundary dislocations mobility in Ni ₃ Al. <i>Acta Metallurgica</i> , 1989, 37, 1307-1311.	2.1	29
9	The effect of grain boundary precipitation on the stability of extrinsic grain-boundary dislocations in austenitic steel and aluminium alloy. <i>Acta Metallurgica</i> , 1985, 33, 1643-1650.	2.1	21
10	Atomic structure of grain boundaries in YBa ₂ Cu ₃ O _{7-x} . <i>Physica C: Superconductivity and Its Applications</i> , 1994, 221, 11-19.	1.2	17
11	Hydrogen Induced Phase Transformations in Austenitic-Ferritic Steel. <i>Solid State Phenomena</i> , 2006, 112, 133-140.	0.3	12
12	Effect of distribution of grain boundary diffusivity on plastic flow of austenitic steel I: Characterization of microstructure. Determining the distribution of grain boundary diffusivity. <i>Materials Science and Engineering</i> , 1988, 100, 85-92.	0.1	11
13	Structure and properties of the carburised surface layer on 35CrSiMn5-5-4 steel after nanostructurization treatment. <i>Materiali in Tehnologije</i> , 2015, 49, 933-939.	0.5	8
14	Nanoferritic matrix of ductile iron. <i>Materials Science and Technology</i> , 2015, 31, 829-834.	1.6	7
15	Characterization of Nanobainitic Structure Obtained in 100CrMnSi6-4 Steel after Industrial Heat Treatment/ Charakteryzacja Struktury Nanobainitycznej Wytworzonej W Handlowej Stali 100CrMnSi6-4 W Przemysłowej Obróbce Ciepłej. <i>Archives of Metallurgy and Materials</i> , 2014, 59, 1637-1640.	0.6	6
16	Influence of Intermediate Annealing Treatment on the Kinetics of Bainitic Transformation in X37CrMoV5-1 Steel. <i>Materials</i> , 2021, 14, 4411.	2.9	2
17	Multiphase steel microstructure and properties optimisation through a new heat treatment process. <i>Materials Science and Technology</i> , 2021, 37, 1083-1089.	1.6	1