

Bernhard Sonderegger

List of Publications by Year in descending order

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26
papers

504
citations

759233

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28
docs citations

28
times ranked

491
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherency strengthening of oblate precipitates extended in the {100} plane of fcc crystals: Modeling and experimental validation. <i>Materialia</i> , 2022, 21, 101328.	2.7	4
2	In situ laser-ultrasonic monitoring of Poisson's ratio and bulk sound velocities of steel plates during thermal processes. <i>Acta Materialia</i> , 2022, 235, 118097.	7.9	9
3	Application of an advanced mean-field dislocation creep model to P91 for calculation of creep curves and time-to-rupture diagrams. <i>Materialia</i> , 2020, 12, 100760.	2.7	19
4	Diffusion-defining atomic-scale spinodal decomposition within nanoprecipitates. <i>Nature Materials</i> , 2018, 17, 1101-1107.	27.5	43
5	Evolution of the substructure of a novel 12% Cr steel under creep conditions. <i>Materials Characterization</i> , 2016, 115, 23-31.	4.4	42
6	Combination of Microstructural Investigation and Simulation during the Heat Treatment of a Creep Resistant 11% Cr-Steel. <i>Materials Science Forum</i> , 2016, 879, 625-630.	0.3	0
7	Modelling the creep behaviour of tempered martensitic steel based on a hybrid approach. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 662, 330-341.	5.6	44
8	Characterisation and quantification of cavities in 9Cr martensitic steel for power plants. <i>Materials Science and Technology</i> , 2015, 31, 554-564.	1.6	24
9	Precipitate strengthening of non-spherical precipitates extended in $\sim 100^\circ$ or {100} direction in fcc crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 590, 262-266.	5.6	35
10	Investigation of Pre-Existing Pores in Creep Loaded 9Cr Steel. , 2014, , 85-90.		1
11	3D Simulation and Process Optimization of Laser Assisted Milling of Ti6Al4V. <i>Procedia CIRP</i> , 2013, 8, 75-80.	1.9	32
12	Particle strengthening in fcc crystals with prolate and oblate precipitates. <i>Scripta Materialia</i> , 2012, 66, 52-55.	5.2	36
13	Influence of Microstructural Inhomogenities on Internal Stress and Strain Distributions during Creep. <i>Advanced Materials Research</i> , 2011, 409, 411-416.	0.3	0
14	Kinetics of Precipitation in a Complex Hot-Work Tool Steel. <i>Steel Research International</i> , 2010, 81, 64-73.	1.8	14
15	Computational analysis of the precipitation kinetics in a complex tool steel. <i>International Journal of Materials Research</i> , 2008, 99, 410-415.	0.3	10
16	Compositional characterisation and thermodynamic modelling of nitride precipitates in a 12% Cr steel. <i>International Journal of Materials Research</i> , 2008, 99, 422-427.	0.3	7
17	Computer Simulation of the Precipitate Evolution during Industrial Heat Treatment of Complex Alloys. <i>Materials Science Forum</i> , 2007, 539-543, 2431-2436.	0.3	8
18	Martensite laths in creep resistant martensitic 9% "12% Cr steels" Calculation and measurement of misorientations. <i>Materials Characterization</i> , 2007, 58, 874-882.	4.4	42

#	ARTICLE	IF	CITATIONS
19	Modifications of stereological correction methods for precipitate parameters using transmission microscopy. Ultramicroscopy, 2006, 106, 941-950.	1.9	18
20	Precipitation Behaviour of a Complex Steel. Advanced Engineering Materials, 2006, 8, 1066-1077.	3.5	33
21	A heating stage up to 1173â€¦K for X-ray diffraction studies in the whole orientation space. Journal of Applied Crystallography, 2003, 36, 80-85.	4.5	63
22	Calculation of Energies of Coherent Interfaces and Application to the Nucleation, Growth and Coarsening of Precipitates. Materials Science Forum, 0, 638-642, 2730-2735.	0.3	6
23	Modeling Particle Distances of Coherent Prolate- and Oblate-Shaped Precipitates in bcc Systems. Materials Science Forum, 0, 706-709, 1521-1526.	0.3	1
24	3D Simulation of Laser Assisted Side Milling of Ti6Al4V Alloy Using Modified Johnson-Cook Material Model. Key Engineering Materials, 0, 554-557, 2054-2061.	0.4	4
25	Application of Thermo-Calc TCFE7 to High-Alloyed Mottled Cast Iron. Materials Science Forum, 0, 879, 1431-1436.	0.3	2
26	Microstructurally Based Modeling of Creep Deformation and Damage in Martensitic Steels. , 0, , .		4