

Sven Eck

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

499
citations

933447

10
h-index

677142

22
g-index

30
all docs

30
docs citations

30
times ranked

515
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth and thermal properties of ultrathin cerium oxide layers on Rh(). Surface Science, 2002, 520, 173-185.	1.9	106
2	Atomic-level growth study of vanadium oxide nanostructures on Rh(111). Physical Review B, 2004, 69, .	3.2	87
3	Reduction of vanadium-oxide monolayer structures. Physical Review B, 2005, 71, .	3.2	76
4	Vanadium oxide nanostructures on Rh(111): Promotion effect of CO adsorption and oxidation. Surface Science, 2005, 580, 122-136.	1.9	39
5	Adsorption and reaction of CO on a ceriaâ€“Rh(111) â€œinverse model catalystâ€“surface. Surface Science, 2003, 536, 166-176.	1.9	31
6	2nd International Conference on Advances in Solidification Processes ICASP-2, 17â€“20 June 2008, Seggau Castle, Graz, Austria. International Journal of Cast Metals Research, 2009, 22, 1-1.	1.0	23
7	Differentiation of grain orientation with corrosive and colour etching on a granular bainitic steel. Micron, 2017, 99, 67-73.	2.2	17
8	Inductive Thermography as Non-Destructive Testing for Railway Rails. Applied Sciences (Switzerland), 2021, 11, 1003.	2.5	15
9	Thermal stability of a binary non-faceted/non-faceted peritectic organic alloy at elevated temperatures. Scripta Materialia, 2009, 60, 882-885.	5.2	14
10	Comparison of the fatigue and impact fracture behaviour of five different steel grades used in the frog of a turnout. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2014, 228, 603-610.	2.0	11
11	Insights towards Condition Monitoring of Fixed Railway Crossings. Procedia Structural Integrity, 2017, 4, 106-114.	0.8	9
12	Measurement and simulation of temperature and velocity fields during the cooling of water in a die casting model. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 413-414, 79-84.	5.6	8
13	<i>In Situ</i> Observation of Solidification in an Organic Peritectic Alloy System. Materials Science Forum, 2010, 649, 159-164.	0.3	8
14	Error Analysis for Finite Element Simulation of Orthogonal Cutting and its Validation Via Quick Stop Experiments. Machining Science and Technology, 2015, 19, 460-478.	2.5	8
15	Using Finite Element Simulation to Optimize the Heat Treatment of Tire Protection Chains. Journal of Materials Engineering and Performance, 2014, 23, 1288-1295.	2.5	7
16	Experimental Observation of Convection during Equiaxed Solidification of Transparent Alloys. Materials Science Forum, 2006, 508, 157-162.	0.3	6
17	Laser-assisted metal spinning for an efficient and flexible processing of challenging materials. IOP Conference Series: Materials Science and Engineering, 2016, 119, 012022.	0.6	6
18	Towards condition monitoring of railway points: Instrumentation, measurement and signal processing. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
19	Calibration, Measurement and Error Analysis of Optical Temperature Measurement via Laser Induced Fluorescence. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	5
20	Experimental and numerical investigations of NH ₄ Cl solidification in a mould Part 2: numerical results. International Journal of Cast Metals Research, 2009, 22, 172-174.	1.0	3
21	Experimental and numerical investigations of NH ₄ Cl solidification in a mould Part 1: Experimental results. International Journal of Cast Metals Research, 2009, 22, 168-171.	1.0	3
22	Scanning Inductive Thermographic Surface Defect Inspection of Long Flat or Curved Work-Pieces Using Rectification Targets. Applied Sciences (Switzerland), 2022, 12, 5851.	2.5	3
23	A finite element model for carburisation of surface densified PM components. International Journal of Computational Materials Science and Surface Engineering, 2012, 5, 16.	0.2	2
24	Force and acoustic emission measurements for condition monitoring of fine blanking tools. , 2018, , .		2
25	Use of Surface Acoustic Waves for Crack Detection on Railway Track Components”Laboratory Tests. Applied Sciences (Switzerland), 2022, 12, 6334.	2.5	2
26	Numerical and Experimental Investigation of NH ₄ Cl Solidification. Materials Science Forum, 0, 649, 367-372.	0.3	1
27	Through Process Modelling of Surface Densified PM Gears. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2014, 159, 371-374.	1.0	1
28	Experimental and numerical modelling of the flow field in a Cu _x Sn _y direct chill caster. International Journal of Cast Metals Research, 2009, 22, 74-77.	1.0	0
29	International Conference on Materials, Processing and Product Engineering 2015 (MPPE2015). IOP Conference Series: Materials Science and Engineering, 2016, 119, 011001.	0.6	0