

# Stefan Mitsche

## List of Publications by Year in descending order

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43  
papers

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citations

623734

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477307

29  
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times ranked

914  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the evolution of Mg <sub>2</sub> Si precipitates during continuous cooling and subsequent re-heating of a 6061 aluminum alloy with differential scanning calorimetry and a simple model. <i>International Journal of Materials Research</i> , 2022, 113, 316-326.	0.3	5
2	Laser powder bed fusion of nano-CaB <sub>6</sub> decorated 2024 aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2021, 863, 158714.	5.5	59
3	Numerical investigation of the effect of rate-sensitivity, non-octahedral slip and grain shape on texture evolution during hot rolling of aluminum alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021, 29, 015006.	2.0	3
4	Influence of Melt-Pool Stability in 3D Printing of NdFeB Magnets on Density and Magnetic Properties. <i>Materials</i> , 2020, 13, 139.	2.9	15
5	Evolution of Microstructure and Texture in Laboratory- and Industrial-Scaled Production of Automotive Al-Sheets. <i>Materials</i> , 2020, 13, 469.	2.9	14
6	Viscoplastic Self-consistent Modeling of the Through-Thickness Texture of a Hot-Rolled Al-Mg-Si Plate. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 3066-3075.	2.2	11
7	Biotransformation of Scheelite CaWO <sub>4</sub> by the Extreme Thermoacidophile <i>Metallotropha sedula</i> : Tungsten-Microbial Interface. <i>Frontiers in Microbiology</i> , 2019, 10, 1492.	3.5	25
8	Recrystallized cube grains in an Al-Mg-Si alloy dependent on prior cold rolling. <i>Materials Science and Technology</i> , 2019, 35, 1081-1087.	1.6	6
9	Preparation Method of Spherical and Monocrystalline Aluminum Powder. <i>Metals</i> , 2019, 9, 375.	2.3	3
10	Intermetallic Compound and Void Kinetics Extraction From Resistance Evolution in Copper Pillars During Electromigration Stress Tests. <i>IEEE Transactions on Device and Materials Reliability</i> , 2018, 18, 313-320.	2.0	1
11	Microstructure Evolution in a 6082 Aluminium Alloy during Thermomechanical Treatment. <i>Materials</i> , 2018, 11, 1319.	2.9	14
12	On the discrimination of semi-graphite and graphite by Raman spectroscopy. <i>International Journal of Coal Geology</i> , 2016, 159, 48-56.	5.0	67
13	Dissimilar Electron Beam Welds of Nickel Base Alloy A625 with a 9% Cr-Steel for High Temperature Applications. <i>Materials Science Forum</i> , 2016, 879, 2100-2106.	0.3	0
14	Unified description of the softening behavior of beta-metastable and alpha+beta titanium alloys during hot deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 651, 280-290.	5.6	55
15	Creep and damage investigation of advanced martensitic chromium steel weldments for high temperature applications in thermal power plants. <i>Science and Technology of Welding and Joining</i> , 2015, 20, 82-90.	3.1	12
16	In situ mechanical compression of polycrystalline BaTiO <sub>3</sub> in the ESEM. <i>Journal of the European Ceramic Society</i> , 2014, 34, 2211-2215.	5.7	9
17	Investigations into the delayed fracture susceptibility of 34CrNiMo6 steel, and the opportunities for its application in ultra-high-strength bolts and fasteners. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 590, 66-73.	5.6	55
18	Investigations on susceptibility to intergranular corrosion of thermo-mechanically rolled corrosion-resistant materials 316L and Alloy 825. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 290-299.	1.5	6

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19	FE modelling of microstructure evolution during friction stir spot welding in AA6082-T6. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2013, 57, 895-902.	2.5	24
20	Geopolymerization of coal fly ash in the presence of electric arc furnace dust. <i>Minerals Engineering</i> , 2013, 49, 24-32.	4.3	22
21	Investigation of Friction Stir Welding of Stainless Steel Using a Stop-Action-Technique. <i>Advanced Materials Research</i> , 2011, 409, 293-298.	0.3	0
22	Effect of commercial anatase-TiO <sub>2</sub> raw materials on the electrical characteristics of ceramics with positive temperature coefficient of resistivity. <i>Journal of the European Ceramic Society</i> , 2011, 31, 2339-2349.	5.7	22
23	Assessment of dynamic softening mechanisms in Allvac® 718Plus™ by EBSD analysis. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3754-3760.	5.6	72
24	Structure and morphology of an organic/inorganic multilayer stack: An x-ray reflectivity study. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	6
25	The Impact of Weld Metal Creep Strength on the Overall Creep Strength of 9% Cr Steel Weldments. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2011, 133, .	1.4	11
26	Recrystallization and grain growth in the nickel-based superalloy allvac 718Plus. <i>International Journal of Materials Research</i> , 2009, 100, 1088-1098.	0.3	14
27	A method to measure the total scattering cross section and effective beam gas path length in a low-vacuum SEM. <i>Scanning</i> , 2009, 31, 107-113.	1.5	19
28	Physically Based Microstructure Modelling of AA6082 during Hot Extrusion. <i>Key Engineering Materials</i> , 2009, 424, 27-34.	0.4	3
29	Comparison of experimental and Finite Element Modelling of the extrusion of AA6082 on both tools and extrudate as a function of process parameters. <i>International Journal of Material Forming</i> , 2008, 1, 427-430.	2.0	6
30	Enzymatic hydrolysis of PTT polymers and oligomers. <i>Journal of Biotechnology</i> , 2008, 135, 45-51.	3.8	63
31	Reconstruction of $\gamma'$ -phase in Superalloy by 3D EDXS in a DualBeam FIB. <i>Microscopy and Microanalysis</i> , 2008, 14, 984-985.	0.4	0
32	Recrystallization behaviour of the nickel-based alloy 80 A during hot forming. <i>Journal of Microscopy</i> , 2007, 227, 267-274.	1.8	70
33	Martensite laths in creep resistant martensitic 9%Cr-12%Cr steels – Calculation and measurement of misorientations. <i>Materials Characterization</i> , 2007, 58, 874-882.	4.4	42
34	On the modelling of the interaction of materials softening and ductile damage during hot working of Alloy 80A. <i>Journal of Materials Processing Technology</i> , 2006, 177, 282-286.	6.3	8
35	Dynamic recrystallization of Ni-base alloys – Experimental results and comparisons with simulations. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 420, 306-314.	5.6	86
36	Analysis of submicron particles by scanning electron microscopy – energy dispersive X-ray spectrometry – accuracy of size measurement. <i>Scanning</i> , 2006, 28, 282-288.	1.5	0

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37	Substrate structure dependence of the growth modes of p-terphenyl thin films on gold. Thin Solid Films, 2005, 484, 408-414.	1.8	14
38	Quantification of the Recrystallized Fraction in a Nickelbase-Alloy from EBSD-Data. Microscopy and Microanalysis, 2003, 9, 344-345.	0.4	7
39	Physical Based Microstructure Modelling Coupled with Nucleation Theory during and after Hot Forming of AA5083. Advanced Materials Research, 0, 89-91, 509-514.	0.3	0
40	Influence of Temperature and Strain Rate on Dynamic Softening Processes in Allvac® 718Plus®, Materials Science Forum, 0, 706-709, 2440-2445.	0.3	2
41	Physical and Numerical Simulations of the Microstructure Evolution in AA6082 during Friction Stir Processing by Means of Hot Torsion and FEM. Materials Science Forum, 0, 762, 590-595.	0.3	2
42	Microstructural Evolution of AA6082 with Small Aluminides under Hot Torsion and Friction Stir Processing. Materials Science Forum, 0, 753, 263-266.	0.3	3
43	Advanced Microstructures for Increased Creep Rupture Strength of MARBN Steels. Materials Science Forum, 0, 783-786, 1867-1871.	0.3	5