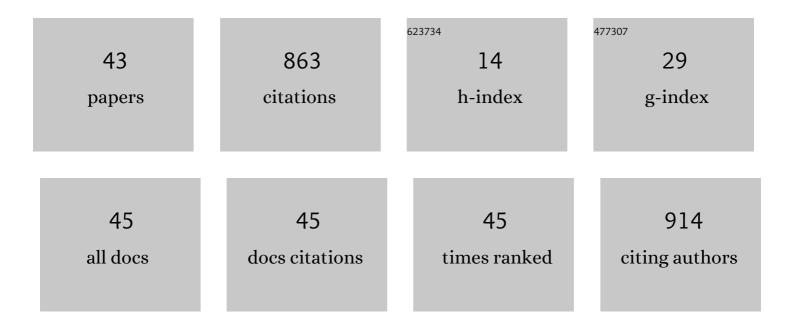
Stefan Mitsche

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dynamic recrystallization of Ni-base alloys—Experimental results and comparisons with simulations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 420, 306-314.	5.6	86
2	Assessment of dynamic softening mechanisms in Allvac® 718Plusâ,,¢ by EBSD analysis. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3754-3760.	5.6	72
3	Recrystallization behaviour of the nickelâ€based alloy 80 A during hot forming. Journal of Microscopy, 2007, 227, 267-274.	1.8	70
4	On the discrimination of semi-graphite and graphite by Raman spectroscopy. International Journal of Coal Geology, 2016, 159, 48-56.	5.0	67
5	Enzymatic hydrolysis of PTT polymers and oligomers. Journal of Biotechnology, 2008, 135, 45-51.	3.8	63
6	Laser powder bed fusion of nano-CaB6 decorated 2024 aluminum alloy. Journal of Alloys and Compounds, 2021, 863, 158714.	5.5	59
7	Investigations into the delayed fracture susceptibility of 34CrNiMo6 steel, and the opportunities for its application in ultra-high-strength bolts and fasteners. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 590, 66-73.	5.6	55
8	Unified description of the softening behavior of beta-metastable and alpha+beta titanium alloys during hot deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 280-290.	5.6	55
9	Martensite laths in creep resistant martensitic 9–12% Cr steels — Calculation and measurement of misorientations. Materials Characterization, 2007, 58, 874-882.	4.4	42
10	Biotransformation of Scheelite CaWO4 by the Extreme Thermoacidophile Metallosphaera sedula: Tungsten–Microbial Interface. Frontiers in Microbiology, 2019, 10, 1492.	3.5	25
11	FE modelling of microstructure evolution during friction stir spot welding in AA6082-T6. Welding in the World, Le Soudage Dans Le Monde, 2013, 57, 895-902.	2.5	24
12	Effect of commercial anatase-TiO2 raw materials on the electrical characteristics of ceramics with positive temperature coefficient of resistivity. Journal of the European Ceramic Society, 2011, 31, 2339-2349.	5.7	22
13	Geopolymerization of coal fly ash in the presence of electric arc furnace dust. Minerals Engineering, 2013, 49, 24-32.	4.3	22
14	A method to measure the total scattering cross section and effective beam gas path length in a lowâ€vacuum SEM. Scanning, 2009, 31, 107-113.	1.5	19
15	Influence of Melt-Pool Stability in 3D Printing of NdFeB Magnets on Density and Magnetic Properties. Materials, 2020, 13, 139.	2.9	15
16	Substrate structure dependence of the growth modes of p-quaterphenyl thin films on gold. Thin Solid Films, 2005, 484, 408-414.	1.8	14
17	Recrystallization and grain growth in the nickel-based superalloy allvac 718Plus. International Journal of Materials Research, 2009, 100, 1088-1098.	0.3	14
18	Microstructure Evolution in a 6082 Aluminium Alloy during Thermomechanical Treatment. Materials, 2018, 11, 1319.	2.9	14

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#	Article	IF	CITATIONS
19	Evolution of Microstructure and Texture in Laboratory- and Industrial-Scaled Production of Automotive Al-Sheets. Materials, 2020, 13, 469.	2.9	14
20	Creep and damage investigation of advanced martensitic chromium steel weldments for high temperature applications in thermal power plants. Science and Technology of Welding and Joining, 2015, 20, 82-90.	3.1	12
21	The Impact of Weld Metal Creep Strength on the Overall Creep Strength of 9% Cr Steel Weldments. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	1.4	11
22	Viscoplastic Self-consistent Modeling of the Through-Thickness Texture of a Hot-Rolled Al-Mg-Si Plate. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3066-3075.	2.2	11
23	In situ mechanical compression of polycrystalline BaTiO3 in the ESEM. Journal of the European Ceramic Society, 2014, 34, 2211-2215.	5.7	9
24	On the modelling of the interaction of materials softening and ductile damage during hot working of Alloy 80A. Journal of Materials Processing Technology, 2006, 177, 282-286.	6.3	8
25	Quantification of the Recrystallized Fraction in a Nickelbase-Alloy from EBSD-Data. Microscopy and Microanalysis, 2003, 9, 344-345.	0.4	7
26	Comparison of experimental and Finite Element Modelling of the extrusion of AA6082 on both tools and extrudate as a function of process parameters. International Journal of Material Forming, 2008, 1, 427-430.	2.0	6
27	Structure and morphology of an organic/inorganic multilayer stack: An x-ray reflectivity study. Journal of Applied Physics, 2011, 110, .	2.5	6
28	Investigations on susceptibility to intergranular corrosion of thermoâ€mechanically rolled corrosionâ€resistant materials 316L and Alloy 825. Materials and Corrosion - Werkstoffe Und Korrosion, 2013, 64, 290-299.	1.5	6
29	Recrystallized cube grains in an Al–Mg–Si alloy dependent on prior cold rolling. Materials Science and Technology, 2019, 35, 1081-1087.	1.6	6
30	Advanced Microstructures for Increased Creep Rupture Strength of MARBN Steels. Materials Science Forum, 0, 783-786, 1867-1871.	0.3	5
31	Analysis of the evolution of Mg ₂ Si precipitates during continuous cooling and subsequent re-heating of a 6061 aluminum alloy with differential scanning calorimetry and a simple model. International Journal of Materials Research, 2022, 113, 316-326.	0.3	5
32	Physically Based Microstructure Modelling of AA6082 during Hot Extrusion. Key Engineering Materials, 2009, 424, 27-34.	0.4	3
33	Microstructural Evolution of AA6082 with Small Aluminides under Hot Torsion and Friction Stir Processing. Materials Science Forum, 0, 753, 263-266.	0.3	3
34	Preparation Method of Spherical and Monocrystalline Aluminum Powder. Metals, 2019, 9, 375.	2.3	3
35	Numerical investigation of the effect of rate-sensitivity, non-octahedral slip and grain shape on texture evolution during hot rolling of aluminum alloys. Modelling and Simulation in Materials Science and Engineering, 2021, 29, 015006.	2.0	3
36	Influence of Temperature and Strain Rate on Dynamic Softening Processes in Allvac® 718Plus™. Materials Science Forum, 0, 706-709, 2440-2445.	0.3	2

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#	Article	IF	CITATIONS
37	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
38	Intermetallic Compound and Void Kinetics Extraction From Resistance Evolution in Copper Pillars During Electromigration Stress Tests. IEEE Transactions on Device and Materials Reliability, 2018, 18, 313-320.	2.0	1
39	Analysis of submicron particles by scanning electron microscopyâ€energyâ€dispersive Xâ€ray spectrometry—accuracy of size measurement. Scanning, 2006, 28, 282-288.	1.5	0
40	Reconstruction of \hat{l}^{\prime} phase in Superalloy by 3D EDXS in a DualBeam FIB. Microscopy and Microanalysis, 2008, 14, 984-985.	0.4	0
41	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
42	Investigation of Friction Stir Welding of Stainless Steel Using a Stop-Action-Technique. Advanced Materials Research, 2011, 409, 293-298.	0.3	0
43	Dissimilar Electron Beam Welds of Nickel Base Alloy A625 with a 9% Cr-Steel for High Temperature Applications. Materials Science Forum, 2016, 879, 2100-2106.	0.3	0