

# Miroslav Å mÃ-d

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9496593/publications.pdf>

Version: 2024-02-01

42  
papers

616  
citations

567281

15  
h-index

642732

23  
g-index

42  
all docs

42  
docs citations

42  
times ranked

706  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved description of low-cycle fatigue behaviour of 316L steel under axial, torsional and combined loading using plastic J-integral. Theoretical and Applied Fracture Mechanics, 2022, 118, 103212.	4.7	3
2	The effect of stress triaxiality on the phase transformation in transformation induced plasticity steels: Experimental investigation and modelling the transformation kinetics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140321.	5.6	25
3	Advantageous Description of Short Fatigue Crack Growth Rates in Austenitic Stainless Steels with Distinct Properties. Metals, 2021, 11, 475.	2.3	4
4	Effect of Solution Annealing on Fatigue Crack Propagation in the AISI 304L TRIP Steel. Materials, 2021, 14, 1331.	2.9	10
5	Effect of solution annealing on low cycle fatigue of 304L stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 824, 141807.	5.6	12
6	Measurement and prediction of the transformation strain that controls ductility and toughness in advanced steels. Acta Materialia, 2020, 200, 246-255.	7.9	10
7	Development of advanced Fe-Al-O ODS alloy microstructure and properties due to heat treatment. Journal of Materials Research, 2020, 35, 2789-2797.	2.6	4
8	High Cycle Fatigue Data Transferability of MAR-M 247 Superalloy from Separately Cast Specimens to Real Gas Turbine Blade. Metals, 2020, 10, 1460.	2.3	15
9	Grain orientation dependence of the forward and reverse fcc $\rightarrow$ hcp transformation in FeMnSi-based shape memory alloys studied by in situ neutron diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 782, 139261.	5.6	17
10	Deformation mechanisms in a superelastic NiTi alloy: An in-situ high resolution digital image correlation study. Materials and Design, 2020, 191, 108622.	7.0	41
11	The interplay between deformation mechanisms in austenitic 304 steel during uniaxial and equibiaxial loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 764, 138222.	5.6	21
12	In situ characterization of a high work hardening Ti-6Al-4V prepared by electron beam melting. Acta Materialia, 2019, 179, 224-236.	7.9	39
13	In situ characterization of work hardening and springback in grade 2 $\pm$ -titanium under tensile load. Acta Materialia, 2019, 181, 87-98.	7.9	26
14	Deformation and degradation of superelastic NiTi under multiaxial loading. Acta Materialia, 2019, 167, 149-158.	7.9	38
15	A High Resolution Digital Image Correlation Study under Multiaxial Loading. Experimental Mechanics, 2019, 59, 309-317.	2.0	19
16	Fatigue properties of B1914 superalloy at high temperatures. Procedia Structural Integrity, 2019, 23, 191-196.	0.8	3
17	Interaction of fatigue and creep in MAR-M 247 superalloy. Procedia Structural Integrity, 2019, 23, 197-202.	0.8	0
18	Suppressed martensitic transformation under biaxial loading in low stacking fault energy metastable austenitic steels. Scripta Materialia, 2018, 147, 27-32.	5.2	54

#	ARTICLE	IF	CITATIONS
19	Load path change on superelastic NiTi alloys: In situ synchrotron XRD and SEM DIC. <i>Acta Materialia</i> , 2018, 144, 874-883.	7.9	42
20	Short fatigue crack behaviour under low cycle fatigue regime. <i>International Journal of Fatigue</i> , 2017, 103, 207-215.	5.7	14
21	Kinetic study of static recrystallization in an Fe-Al-O ultra-fine-grained nanocomposite. <i>Philosophical Magazine Letters</i> , 2017, 97, 379-385.	1.2	20
22	Deformation and fracture behavior of the P91 martensitic steel at high temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 672, 1-6.	5.6	9
23	Film growth and alloy enrichment during anodizing AZ31 magnesium alloy in fluoride/glycerol electrolytes of a range of water contents. <i>Electrochimica Acta</i> , 2016, 219, 28-37.	5.2	17
24	Description of short fatigue crack propagation under low cycle fatigue regime. <i>Procedia Structural Integrity</i> , 2016, 2, 3010-3017.	0.8	6
25	Stage I fatigue cracking in MAR-M 247 superalloy at elevated temperatures. <i>Procedia Structural Integrity</i> , 2016, 2, 3018-3025.	0.8	8
26	X-ray Computed Tomographic Investigation of the Porosity and Morphology of Plasma Electrolytic Oxidation Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8801-8810.	8.0	47
27	High Cycle Fatigue Damage Mechanisms of MAR-M 247 Superalloy at High Temperatures. <i>Transactions of the Indian Institute of Metals</i> , 2016, 69, 393-397.	1.5	15
28	Effect of current density and behaviour of second phases in anodizing of a Mg-Zn-RE alloy in a fluoride/glycerol/water electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1155-1165.	2.5	11
29	Behavior of Alloying Elements during Anodizing of Mg-Cu and Mg-W Alloys in a Fluoride/Glycerol Electrolyte. <i>Journal of the Electrochemical Society</i> , 2015, 162, C487-C494.	2.9	5
30	High Cycle Fatigue of Nickel-based Superalloy MAR-M 247 at High Temperatures. <i>Procedia Engineering</i> , 2014, 74, 329-332.	1.2	19
31	In-situ neutron diffraction study of thermal phase stability in a $\hat{3}$ -TiAl based alloy doped with Mo and/or C. <i>Intermetallics</i> , 2014, 54, 28-38.	3.9	11
32	Small fatigue crack propagation in Y2O3 strengthened steels. <i>Journal of Nuclear Materials</i> , 2014, 452, 370-377.	2.7	11
33	Analysis of cyclic plastic response of nickel based IN738LC superalloy. <i>International Journal of Fatigue</i> , 2014, 65, 44-50.	5.7	10
34	Role of defects in fatigue damage mechanisms of cast polycrystalline superalloy MAR-M 247. <i>MATEC Web of Conferences</i> , 2014, 12, 03005.	0.2	0
35	Comparison of low cycle fatigue of ductile cast irons with different matrix alloyed with nickel. <i>Procedia Engineering</i> , 2010, 2, 2307-2316.	1.2	13
36	Low Cycle Fatigue of Cast $\hat{3}$ -TiAl Based Alloys at High Temperature. <i>Key Engineering Materials</i> , 0, 452-453, 421-424.	0.4	4

#	ARTICLE	IF	CITATIONS
37	Analysis of the Effective and Internal Cyclic Stress Components in the Inconel Superalloy Fatigued at Elevated Temperature. <i>Advanced Materials Research</i> , 0, 278, 393-398.	0.3	6
38	Effect of Tensile Dwell on Low Cycle Fatigue of Cast Superalloy Inconel 792-5A at 800°C. <i>Key Engineering Materials</i> , 0, 488-489, 735-738.	0.4	0
39	Surface Relief Evolution in IN792-5A Nickel Superalloy under High Temperature Fatigue Straining with Hold Times. <i>Key Engineering Materials</i> , 0, 592-593, 429-432.	0.4	0
40	Description of Small Fatigue Crack Propagation in ODS Steel. <i>Advanced Materials Research</i> , 0, 891-892, 911-916.	0.3	0
41	A Numerical Analysis of Deformation Processes in Oxide Dispersion-Strengthened Materials - Influence of Dislocation-Particle Interactions. <i>Solid State Phenomena</i> , 0, 258, 106-109.	0.3	0
42	Interaction of Creep and High Cycle Fatigue of IN 713LC Superalloy. <i>Solid State Phenomena</i> , 0, 258, 595-598.	0.3	7