

Filip Å iÅjka

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/493556/publications.pdf>

Version: 2024-02-01

49
papers

633
citations

516710

16
h-index

610901

24
g-index

49
all docs

49
docs citations

49
times ranked

709
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical analysis of twin-precipitate interactions in magnesium alloys. <i>Acta Materialia</i> , 2021, 202, 80-87.	7.9	21
2	Interaction of Migrating Twin Boundaries with Obstacles in Magnesium. <i>Metals</i> , 2021, 11, 154.	2.3	3
3	On the dynamics of twinning in magnesium micropillars. <i>Materials and Design</i> , 2021, 203, 109563.	7.0	10
4	Numerical analysis of geometrically induced hardening in planar architected materials. <i>Composite Structures</i> , 2020, 233, 111633.	5.8	2
5	Development of advanced Fe-Al-O ODS alloy microstructure and properties due to heat treatment. <i>Journal of Materials Research</i> , 2020, 35, 2789-2797.	2.6	4
6	Characterization of bonding quality of a cold-sprayed deposit by laser resonant ultrasound spectroscopy. <i>Ultrasonics</i> , 2020, 106, 106140.	3.9	10
7	Effect of residual stresses to the crack path in alumina/zirconia laminates. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5810-5818.	5.7	12
8	Twinning in CoCrFeNiMn high entropy alloy induced by nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 784, 139297.	5.6	12
9	Electrophoretic Deposition of Copper(II)-Chitosan Complexes for Antibacterial Coatings. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2637.	4.1	32
10	Characterisation of mechanical and fracture behaviour of Al ₂ O ₃ /ZrO ₂ /BaTiO ₃ laminate by indentation. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4799-4807.	5.7	9
11	Electrolyte-Supported Fuel Cell: Co-Sintering Effects of Layer Deposition on Biaxial Strength. <i>Materials</i> , 2019, 12, 306.	2.9	16
12	Initiation of basal slip and tensile twinning in magnesium alloys during nanoindentation. <i>Journal of Alloys and Compounds</i> , 2018, 731, 620-630.	5.5	20
13	Elastic properties of multi-layered ceramic systems for SOCs. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 370-379.	2.1	7
14	Strengthening mechanisms of different oxide particles in 9Cr ODS steel at high temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 732, 112-119.	5.6	26
15	Analysing single twinning events in Mg-6Zn using nanoindentation. <i>Journal of Alloys and Compounds</i> , 2018, 768, 510-516.	5.5	5
16	The Size Effect on J-R Curve for Construction Steels and its Prediction by Simplified Mechanical Model. , 2018, , .		0
17	The Application of Miniaturized Three-Point-Bend Specimens for Determination of the Reference Temperature of A533 Cl.1 Steel. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2017, 139, .	0.6	1
18	Fracture behavior of the ODS steels prepared by internal oxidation. <i>Fusion Engineering and Design</i> , 2017, 124, 1108-1111.	1.9	7

#	ARTICLE	IF	CITATIONS
19	High temperature deformation mechanisms in the 14% Cr ODS alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 689, 34-39.	5.6	14
20	Kinetic study of static recrystallization in an Fe-Al-O ultra-fine-grained nanocomposite. Philosophical Magazine Letters, 2017, 97, 379-385.	1.2	20
21	Survey of oxide candidate for advanced 9%, 14% and 17%Cr ODS steels for fusion applications. Fusion Engineering and Design, 2017, 124, 1028-1032.	1.9	9
22	Numerical analysis of twin thickening process in magnesium alloys. Acta Materialia, 2017, 124, 9-16.	7.9	35
23	Numerical study of stress distribution and size effect during AZ31 nanoindentation. Computational Materials Science, 2017, 126, 393-399.	3.0	6
24	The Effect of Specimen Size for the P91 Steel at Elevated and High Temperatures. , 2017, , .		0
25	Deformation and fracture behavior of the P91 martensitic steel at high temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 672, 1-6.	5.6	9
26	Distinguishing between slip and twinning events during nanoindentation of magnesium alloy AZ31. Scripta Materialia, 2016, 110, 10-13.	5.2	34
27	The Prediction of Size Effect on J-R Curve for Eurofer97 Steel by Simplified Mechanical Model. , 2015, , .		0
28	The Application of Miniaturized Three-Point-Bend Specimens for Determination of the Reference Temperature of JRQ Steel. , 2015, , .		1
29	Modelling of the stiffness evolution of truss core structures damaged by plastic buckling. Finite Elements in Analysis and Design, 2015, 100, 1-11.	3.2	3
30	Influence of Cold-Sprayed, Warm-Sprayed, and Plasma-Sprayed Layers Deposition on Fatigue Properties of Steel Specimens. Journal of Thermal Spray Technology, 2015, 24, 758-768.	3.1	23
31	Stiffness and strength degradation of damaged truss core composites. Composite Structures, 2015, 125, 287-294.	5.8	3
32	Modification of Plasma-sprayed TiO ₂ Coatings Characteristics via Controlling the In-flight Temperature and Velocity of the Powder Particles. Journal of Thermal Spray Technology, 2014, 23, 1339-1349.	3.1	17
33	Modeling of Ductile Tearing for RAFM Steel Eurofer97. , 2014, 3, 1155-1160.		4
34	Estimating Critical Stresses Required for Twin Growth in a Magnesium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 2962-2969.	2.2	28
35	Plastic relaxation of the internal stress induced by twinning. Acta Materialia, 2013, 61, 7859-7867.	7.9	70
36	Influence of temperature and plastic relaxation on tensile twinning in a magnesium alloy. Scripta Materialia, 2013, 69, 521-524.	5.2	26

#	ARTICLE	IF	CITATIONS
37	Internal material "architecture" for a kink-resistant metal tube. <i>Acta Materialia</i> , 2013, 61, 331-340.	7.9	2
38	PHYSICAL INTERPRETATION OF THE REFERENCE FEATURES IN TEXTURAL FRACTOGRAPHY OF FATIGUE FRACTURES. <i>Acta Metallurgica Slovaca</i> , 2013, 19, 141-148.	0.7	0
39	Twinning in magnesium-based lamellar microstructures. <i>Scripta Materialia</i> , 2012, 67, 704-707.	5.2	58
40	The reference texture: A proposal of a physical explanation. <i>International Journal of Fatigue</i> , 2012, 43, 120-127.	5.7	6
41	Validation of R5 assessment procedure for ITER test blanket module by finite element analysis. <i>Fusion Engineering and Design</i> , 2010, 85, 215-221.	1.9	1
42	Assessment of defects in EUROFER 97 first wall/blanket structures taking into account its viscoplastic behavior. <i>Fusion Engineering and Design</i> , 2010, 85, 2065-2069.	1.9	2
43	Comparison of mechanical behaviour of thin film simulated by discrete dislocation dynamics and continuum crystal plasticity. <i>Computational Materials Science</i> , 2009, 45, 793-799.	3.0	20
44	Finite element simulations of the cyclic elastoplastic behaviour of copper thin films. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2007, 15, S217-S238.	2.0	20
45	Simulations of stress-strain heterogeneities in copper thin films: Texture and substrate effects. <i>Computational Materials Science</i> , 2007, 39, 137-141.	3.0	18
46	An unifying concept for fatigue: The reference crack growth rate. <i>Materials Characterization</i> , 2006, 56, 257-265.	4.4	4
47	Textural Fractography of Fatigue Failures under Variable Cycle Loading. <i>Materials Science Forum</i> , 2005, 482, 259-262.	0.3	1
48	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
49	Architected Multi-Metallic Structures Prepared by Cold Dynamic Spray Deposition. <i>Key Engineering Materials</i> , 0, 810, 107-112.	0.4	2