Yufeng Zheng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8218232/publications.pdf

Version: 2024-02-01

59 papers	2,290 citations	218592 26 h-index	214721 47 g-index
63 all docs	63 docs citations	63 times ranked	1226 citing authors

#	Article	IF	Citations
1	Enhanced mechanical properties of Ti-5Al-5Mo-5V-3Cr-1Zr by bimodal lamellar precipitate microstructures via two-step aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 829, 142117.	2.6	28
2	Grain boundary segregation and its implications regarding the formation of the grain boundary Î± phase in the metastable Î²-Titanium Tiâ€“5Alâ€“5Moâ€“5Vâ€“3Cr alloy. Scripta Materialia, 2022, 207, 114320.	2.6	28
3	Solution-processed vanadium oxides as a hole-transport layer for Sb2Se3 thin-film solar cells. Solar Energy, 2022, 231, 1-7.	2.9	17
4	Quasiâ€Linear Superelasticity with Ultralow Modulus in Tensile Cyclic Deformed TiNi Strain Glass. Advanced Engineering Materials, 2022, 24, .	1.6	3
5	Pathways to Titanium Martensite. Transactions of the Indian Institute of Metals, 2022, 75, 1051-1068.	0.7	3
6	Origin of morphological variation of grain boundary precipitates in titanium alloys. Scripta Materialia, 2022, 214, 114651.	2.6	6
7	Strain states and unique properties in cold-rolled TiNi shape memory alloys. Acta Materialia, 2022, 231, 117890.	3.8	24
8	Enhanced Efficiency and Stability in Sb₂S₃ Seed Layer Buffered Sb₂Se₃ Solar Cells. Advanced Materials Interfaces, 2022, 9, .	1.9	13
9	Nucleation and growth of Î± phase in a metastable Î²-Titanium Ti-5Al-5Mo-5V-3Cr alloy: Influence from the nano-scale, ordered-orthorhombic Oâ€³ phase and Î± compositional evolution. Scripta Materialia, 2021, 194, 113672.	2.6	15
10	Precipitation in nanostructured alloys: A brief review. MRS Bulletin, 2021, 46, 250-257.	1.7	11
11	Three-Dimensional Characterization of Selective Laser Melted Graphene Oxide-Reinforced Ti-48Al-2Cr-2Nb Alloy. Jom, 2021, 73, 1795-1803.	0.9	4
12	Fine scale alpha precipitation in Ti-19at.%v in the absence of influence from omega precipitates. Scripta Materialia, 2021, 196, 113766.	2.6	8
13	Recent Advances in the Design of Novel Î²â€Titanium Alloys Using Integrated Theory, Computer Simulation, and Advanced Characterization. Advanced Engineering Materials, 2021, 23, 2100152.	1.6	6
14	The Role of High-Index Twinning on Hierarchical Î± Microstructure in a Metastable Î² Ti-5Al-5Mo-5V-3Cr Alloy. Jom, 2021, 73, 2303-2311.	0.9	2
15	Three-dimensional Characterization of Selective Laser Melted Graphene Oxide-Reinforced Ti-48Al-2Cr-2Nb Alloy using FIB-SEM Tomography. Microscopy and Microanalysis, 2021, 27, 2938-2939.	0.2	0
16	Interfacial engineering with NiOx nanofibers as hole transport layer for carbon-based perovskite solar cells. Solar Energy, 2021, 230, 591-597.	2.9	6
17	Shuffle-induced modulated structure and heating-induced ordering in the metastable Î²-titanium alloy, Ti-5Al-5Mo-5V-3Cr. Scripta Materialia, 2020, 176, 7-11.	2.6	29
18	The role of nano-scaled structural non-uniformities on deformation twinning and stress-induced transformation in a cold rolled multifunctional Î²-titanium alloy. Scripta Materialia, 2020, 177, 181-185.	2.6	45

#	Article	IF	Citations
19	Shuffle-nanodomain regulated strain glass transition in Ti-24Nb-4Zr-8Sn alloy. Acta Materialia, 2020, 186, 415-424.	3.8	52
20	Phase stability and microstructure evolution in a ductile refractory high entropy alloy Al10Nb15Ta5Ti30Zr40. Materialia, 2020, 9, 100569.	1.3	61
21	Phase inversion in a two-phase, BCC+B2, refractory high entropy alloy. Acta Materialia, 2020, 185, 89-97.	3.8	128
22	Intrinsic coupling between twinning plasticity and transformation plasticity in metastable Î² Ti-alloys: A symmetry and pathway analysis. Acta Materialia, 2020, 196, 488-504.	3.8	24
23	Exploration of Novel Ordering Mechanism in Titanium Alloys Using Atom Probe Tomography and Aberration-corrected Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2020, 26, 2078-2079.	0.2	1
24	On the Thermal Stability of Dislocation Cellular Structures in Additively Manufactured Austenitic Stainless Steels: Roles of Heavy Element Segregation and Stacking Fault Energy. Jom, 2020, 72, 4232-4243.	0.9	28
25	Plasticity assisted redistribution of solutes leading to topological inversion during creep of superalloys. Scripta Materialia, 2020, 186, 287-292.	2.6	26
26	Atomic structure and elemental segregation behavior of creep defects in a Co-Al-W-based single crystal superalloys under high temperature and low stress. Acta Materialia, 2020, 190, 16-28.	3.8	45
27	Novel deformation twinning system in a cold rolled high-strength metastable-Î² Ti-5Al-5V-5Mo-3Cr-0.5Fe alloy. Materialia, 2020, 9, 100614.	1.3	21
28	Selective laser melting of graphene oxideâ€“reinforced Tiâ€“48Alâ€“2Crâ€“2Nb: Improved manufacturability and mechanical strength. Journal of Materials Research, 2020, 35, 1998-2005.	1.2	7
29	Twinning path determined by broken symmetry: A revisit to deformation twinning in hexagonal close-packed titanium and zirconium. Physical Review Materials, 2020, 4, .	0.9	3
30	Interface characteristics in an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>+</mml:mo><mml:mi>Î²</mml:mi> titanium alloy. Physical Review Materials, 2020, 4, .	0.9	
31	Exploration of Nano-scale Structural Instabilities in Metastable Î² Titanium Alloys Using Advanced Electron Microscopy. MATEC Web of Conferences, 2020, 321, 12001.	0.1	1
32	Ï‰-Assisted Î± nucleation in a metastable Î² titanium alloy. Scripta Materialia, 2019, 171, 62-66.	2.6	41
33	Exploration of Novel Nano-scale Instabilities in Metastable Beta Titanium Alloys Using Transmission Electron Microscopy and Aberration-Corrected Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 2276-2277.	0.2	0
34	Influence of ordered L12 precipitation on strain-rate dependent mechanical behavior in a eutectic high entropy alloy. Scientific Reports, 2019, 9, 6371.	1.6	59
35	Role of copper on L12 precipitation strengthened fcc based high entropy alloy. Materialia, 2019, 6, 100282.	1.3	31
36	Characterization of the Interfacial Structure of Coarse Î± Precipitates in a Metastable Î²-Ti Alloy Ti-5Al-5Mo-5V-3Cr. Jom, 2019, 71, 2291-2295.	0.9	6

#	Article	IF	Citations
37	Nano-scale structural non-uniformities in gum like Ti-24Nb-4Zr-8Sn metastable Î²-Ti alloy. Scripta Materialia, 2019, 158, 95-99.	2.6	45
38	Tensile yield strength of a single bulk Al0.3CoCrFeNi high entropy alloy can be tuned from 160â€¯MPa to 1800â€¯MPa. Scripta Materialia, 2019, 162, 18-23.	2.6	138
39	Determination of the structure of Î±-Î² interfaces in metastable Î²-Ti alloys. Acta Materialia, 2018, 150, 25-39.	3.8	65
40	Investigation of a nano-scale, incommensurate, modulated domain in a Ti-Fe alloy. Scripta Materialia, 2018, 154, 220-224.	2.6	6
41	Modifying transformation pathways in high entropy alloys or complex concentrated alloys via thermo-mechanical processing. Acta Materialia, 2018, 153, 169-185.	3.8	169
42	The influence of aluminum and oxygen additions on intrinsic structural instabilities in titanium-molybdenum alloys. Scripta Materialia, 2018, 152, 150-153.	2.6	34
43	Coupled experimental and computational investigation of omega phase evolution in a high misfit titanium-vanadium alloy. Acta Materialia, 2017, 130, 215-228.	3.8	75
44	Exceptional increase in the creep life of magnesium rare-earth alloys due to localized bond stiffening. Nature Communications, 2017, 8, 2000.	5.8	36
45	Characterization of Nano-scale Instabilities in Titanium Alloys Using Aberration-Corrected Scanning Transmission Electron Microscope. Microscopy and Microanalysis, 2016, 22, 1270-1271.	0.2	0
46	Characterization of Alpha/Beta Interface Structure in a Titanium Alloy Using Aberration-Corrected Scanning Transmission Electron Microscope. Microscopy and Microanalysis, 2016, 22, 1974-1975.	0.2	0
47	The role of cuboidal Ï‰ precipitates on Î± precipitation in a Ti-20V alloy. Scripta Materialia, 2016, 123, 81-85.	2.6	45
48	On the Influence of Athermal Ï‰ and Î± Phase Instabilities on the Scale of Precipitation of the Î± Phase in Metastable Î²-Ti Alloys. Jom, 2016, 68, 1343-1349.	0.9	8
49	A nano-scale instability in the Î² phase of dilute Tiâ€“Mo alloys. Scripta Materialia, 2016, 116, 131-134.	2.6	74
50	The effect of alloy composition on instabilities in the Î² phase of titanium alloys. Scripta Materialia, 2016, 116, 49-52.	2.6	111
51	Role of Ï‰ phase in the formation of extremely refined intragranular Î± precipitates in metastable Î²-titanium alloys. Acta Materialia, 2016, 103, 850-858.	3.8	201
52	The indirect influence of the Ï‰ phase on the degree of refinement of distributions of the Î± phase in metastable Î²-Titanium alloys. Acta Materialia, 2016, 103, 165-173.	3.8	111
53	Characterization of a previously unidentified ordered orthorhombic metastable phase in Ti-5Al-5Mo-5V-3Cr. Scripta Materialia, 2016, 113, 202-205.	2.6	53
54	The role of the Ï‰ phase on the non-classical precipitation of the Î± phase in metastable Î²-titanium alloys. Scripta Materialia, 2016, 111, 81-84.	2.6	93

#	Article	IF	Citations
55	Characterization of Various Interfaces Structure in a Titanium Alloy Using Aberration-Corrected Scanning Transmission Electron Microscope. Microscopy and Microanalysis, 2015, 21, 1517-1518.	0.2	0
56	Integrated Computational Materials Engineering (ICME) Approach to Design of Novel Microstructures for Ti-Alloys. Jom, 2014, 66, 1287-1298.	0.9	27
57	Pseudospinodal mechanism for fine Î±/Î² microstructures in Î²-Ti alloys. Acta Materialia, 2014, 64, 188-197.	3.8	81
58	Investigation of Possible Nucleation Mechanisms for Producing an Ultra-Refined Alpha Phase Microstructure in Beta Titanium Alloys Using High-Resolution Electron Microscopy and 3D Atom Probe Tomography. Microscopy and Microanalysis, 2014, 20, 960-961.	0.2	1
59	Non-classical homogeneous precipitation mediated by compositional fluctuations in titanium alloys. Acta Materialia, 2012, 60, 6247-6256.	3.8	129