

Muhammad Ali

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1691832/publications.pdf>

Version: 2024-02-01

43
papers

328
citations

840776

11
h-index

1058476

14
g-index

43
all docs

43
docs citations

43
times ranked

125
citing authors

#	ARTICLE	IF	CITATIONS
1	Intermediate state of hexagonal close-packed structure to face-centered cubic structure transformation: Direct evidence for basal-type face-centered cubic phase via partial dislocation in zirconium. <i>Journal of Materials Science and Technology</i> , 2022, 98, 44-50.	10.7	11
2	Atomic scale observation of FCC twin, FCC \rightarrow 9R and 9R \rightarrow 12R TM transformations in cold-rolled Hafnium. <i>Scripta Materialia</i> , 2022, 207, 114284.	5.2	10
3	In-situ observation on the twinning boundary movement of pure zirconium during three-point bending tests. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 833, 142361.	5.6	1
4	Direct observation of Face-centered cubic zirconium phase growth-induced stacking faults in Zr ₃ Ge secondary phase nanoparticle. <i>Scripta Materialia</i> , 2022, 210, 114461.	5.2	4
5	Deformation mechanism and cyclic stress response of Zircaloy-4 alloy cladding tube during low cycle fatigue at room temperature. <i>International Journal of Fatigue</i> , 2022, 160, 106875.	5.7	7
6	Deformation twinning in octahedron-based face-centered cubic metallic structures: Localized shear-force dipoles drive atomic displacements. <i>Journal of Materials Science and Technology</i> , 2022, 126, 116-126.	10.7	7
7	The formation mechanism of curved slip band in W-3Re alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 844, 143190.	5.6	2
8	Effect of cold Pilger rolling followed by annealing on fatigue crack initiation in Zircaloy-4 alloy cladding tube. <i>International Journal of Fatigue</i> , 2022, 163, 107046.	5.7	3
9	New insight into prismatic-type face-centered cubic zirconium phase in pure zirconium. <i>Journal of Materials Science</i> , 2021, 56, 2631-2637.	3.7	8
10	A new type face-centered cubic zirconium phase in pure zirconium. <i>Journal of Materials Science and Technology</i> , 2021, 81, 236-239.	10.7	13
11	The formation mechanism of $\{112\frac{1}{2}\} \langle 1\frac{1}{2}1\frac{1}{2}26 \rangle$, primary paired $\{101\frac{1}{2}\} \langle 1\frac{1}{2}011 \rangle$ and secondary twins in Zircaloy-4 alloy with coarse $\langle \alpha \rangle$ lamellae. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140603.	5.6	5
12	The formation mechanism of stacking faults in ZrFe ₂ Laves phase in Zircaloy-4 alloy. <i>Journal of Materials Science</i> , 2021, 56, 11164-11173.	3.7	4
13	Texture development and mechanical behavior of Zircaloy-4 alloy plates fabricated by cold rolling and annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 807, 140846.	5.6	18
14	Low-energy electron-driven observation of nanometer-sized Laves phases at alloy surfaces enabling statistical characterization with high precision and efficiency. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1549-1564.	3.1	0
15	Direct evidence for stress-induced face-centered cubic zirconium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 807, 140814.	5.6	7
16	Effect of Ta and Pd Addition on Mechanical Properties of Inconel 718. <i>Russian Journal of Non-Ferrous Metals</i> , 2021, 62, 206-211.	0.6	0
17	Incommensurately modulated structure zone in β -Zr instigated by the drag force on a grain boundary. <i>Journal of Applied Crystallography</i> , 2021, 54, 982-986.	4.5	0
18	Rotation twin in body-centered tetragonal SiZr ₂ nanoparticle in silicon modified Zircaloy-4 alloy. <i>Journal of Alloys and Compounds</i> , 2021, 862, 158386.	5.5	5

#	ARTICLE	IF	CITATIONS
19	Incommensurate modulated structure in zirconium under three-point bending deformation. <i>Materials Letters</i> , 2021, 295, 129830.	2.6	6
20	Fluorine doped CNTs for efficient OER activity outperforming iridium supported carbon electrocatalyst. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 1573-1581.	2.9	15
21	High-resolution transmission electron microscopy study of body-centered tetragonal Zr ₂ Fe nanoparticle phase in Zircaloy-4 alloy and its typical crystalline defect structures. <i>Journal of Materials Science</i> , 2021, 56, 18272-18280.	3.7	4
22	Formation of carbon nanostructures on nickel acetate alcogel by CVD method and its OER electrocatalytic study in alkaline media. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	7
23	Atypical U-shape micro-stacking faults within body-centered tetragonal Zr ₂ Si nanoparticle in silicon modified Zircaloy-4 alloy. <i>Scripta Materialia</i> , 2021, 203, 114051.	5.2	7
24	A novel method for predicting variant selection of {1 01 $\bar{1}$ 2} twins in pure hafnium. <i>Materials Letters</i> , 2021, 304, 130738.	2.6	1
25	Effect of cyclic \hat{I}^2 annealing on phase evolution and lamellar boundary characteristics at surface and subsurface layers of Ti $\hat{6}$ Al $\hat{4}$ V alloy. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153732.	5.5	2
26	Shear deformation behavior of Zircaloy-4 alloy plate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 774, 138914.	5.6	10
27	The formation mechanism between the {101 $\hat{3}$ 42} twins and prismatic $\langle a \rangle$ slip on (101 $\hat{3}$ 40) plane: Application to Zircaloy-4 alloy. <i>Materials Chemistry and Physics</i> , 2020, 242, 122500.	4.0	0
28	Anisotropic yielding behavior and associated mechanism of cold rolled and annealed Zircaloy-4 alloy thin sheets under tensile condition. <i>Materials Chemistry and Physics</i> , 2020, 242, 122539.	4.0	8
29	Moir \hat{C} fringes in nanoprecipitates in a zirconium alloy. <i>Materials Letters</i> , 2020, 269, 127678.	2.6	7
30	Triangularly arranged needle-shaped precipitates in Ge containing zirconium alloy. <i>Materials Chemistry and Physics</i> , 2020, 251, 123142.	4.0	1
31	Observation of FCC-Zr phase in as-cast Zircaloy-4 alloy. <i>Materials Letters</i> , 2020, 267, 127551.	2.6	18
32	Cross stacking faults in Zr(Fe,Cr) ₂ face-centered cubic Laves phase nanoparticle. <i>Applied Surface Science</i> , 2020, 513, 145716.	6.1	19
33	The influence of microtexture on the formation mechanism of nodules in Zircaloy-4 alloy tube. <i>Journal of Materials Science and Technology</i> , 2020, 47, 68-75.	10.7	8
34	Core-shell structured nanoprecipitates in zirconium based alloy. <i>Scripta Materialia</i> , 2020, 185, 170-174.	5.2	13
35	Stress-induced C14 \hat{r} C15 phase transformation in a Zr(Fe,Cr) ₂ Laves structured nanophase. <i>Journal of Applied Crystallography</i> , 2020, 53, 222-225.	4.5	18
36	The effect of three-dimensional loading and texture on deformation mechanism of Zircaloy-4 alloy: Using space Schmid factor model. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 761, 137992.	5.6	13

#	ARTICLE	IF	CITATIONS
37	Microscopic characterization on low cycle fatigue behavior at room temperature of Zircaloy-4 alloy with recrystallized microstructure. <i>Journal of Alloys and Compounds</i> , 2019, 778, 318-326.	5.5	12
38	Oxygen induced phase transformation in an $\alpha+\beta$ titanium alloy. <i>Materials Chemistry and Physics</i> , 2019, 223, 75-77.	4.0	8
39	Effects of mechanical polishing treatments on high cycle fatigue behavior of Ti-6Al-2Sn-4Zr-2Mo alloy. <i>International Journal of Fatigue</i> , 2019, 121, 55-62.	5.7	17
40	Increase in Ductility of High Carbon Steel Due to Accelerated Precipitation of Cementite. <i>Metal Science and Heat Treatment</i> , 2017, 59, 294-296.	0.6	2
41	Effect of leaching with 5% H ₂ SO ₄ on thermal kinetics of rice husk during pure silica recovery. <i>Journal of Advanced Research</i> , 2016, 7, 47-51.	9.5	12
42	Manganese doped Sm-Cd nanoalloys—their synthesis, characterisation and evaluation of electrical properties. <i>Journal of Alloys and Compounds</i> , 2016, 662, 593-597.	5.5	1
43	Thermoanalytical studies on acid-treated rice husk and production of some silicon based ceramics from carbonised rice husk. <i>Journal of Asian Ceramic Societies</i> , 2015, 3, 311-316.	2.3	14