

Ayman A Salem

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

964
citations

1040056

9
h-index

1372567

10
g-index

10
all docs

10
docs citations

10
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain hardening of titanium: role of deformation twinning. <i>Acta Materialia</i> , 2003, 51, 4225-4237.	7.9	396
2	Prediction of crystallographic texture evolution and anisotropic stress-strain curves during large plastic strains in high purity α -titanium using a Taylor-type crystal plasticity model. <i>Acta Materialia</i> , 2007, 55, 423-432.	7.9	194
3	Strain hardening regimes and microstructure evolution during large strain compression of high purity titanium. <i>Scripta Materialia</i> , 2002, 46, 419-423.	5.2	145
4	Effects of HIP on microstructural heterogeneity, defect distribution and mechanical properties of additively manufactured EBM Ti-48Al-2Cr-2Nb. <i>Journal of Alloys and Compounds</i> , 2017, 729, 1118-1135.	5.5	102
5	Effect of microstructure on oxygen rich layer evolution and its impact on fatigue life during high-temperature application of α/β titanium. <i>Acta Materialia</i> , 2016, 107, 377-389.	7.9	51
6	Modeling Anisotropic Stress-Strain Response and Crystallographic Texture Evolution in α -Titanium during Large Plastic Deformation using Taylor-Type Models: Influence of Initial Texture and Purity. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 3046-3054.	2.2	30
7	Workflow for integrating mesoscale heterogeneities in materials structure with process simulation of titanium alloys. <i>Integrating Materials and Manufacturing Innovation</i> , 2014, 3, 322-343.	2.6	17
8	Microstructure-Informed Cloud Computing for Interoperability of Materials Databases and Computational Models: Microtextured Regions in Ti Alloys. <i>Integrating Materials and Manufacturing Innovation</i> , 2017, 6, 111-126.	2.6	11
9	Small scale testing of IN718 single crystals manufactured by EB-PBF. <i>Additive Manufacturing</i> , 2020, 36, 101449.	3.0	11
10	Effects of Post-processing on Microstructure and Mechanical Properties of SLM-Processed IN-718. <i>Minerals, Metals and Materials Series</i> , 2018, , 515-526.	0.4	7