

Zhuqing Wang

List of Publications by Year in descending order

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12
papers

1,297
citations

840776

11
h-index

1199594

12
g-index

12
all docs

12
docs citations

12
times ranked

1447
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of processing parameters on microstructure and tensile properties of austenitic stainless steel 304L made by directed energy deposition additive manufacturing. <i>Acta Materialia</i> , 2016, 110, 226-235.	7.9	577
2	Residual stress mapping in Inconel 625 fabricated through additive manufacturing: Method for neutron diffraction measurements to validate thermomechanical model predictions. <i>Materials and Design</i> , 2017, 113, 169-177.	7.0	247
3	Crystallographic texture in an additively manufactured nickel-base superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 684, 47-53.	5.6	89
4	Diffraction and single-crystal elastic constants of Inconel 625 at room and elevated temperatures determined by neutron diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 406-412.	5.6	86
5	Quantitative relationship between anisotropic strain to failure and grain morphology in additively manufactured Ti-6Al-4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 706, 287-294.	5.6	78
6	Absence of dynamic strain aging in an additively manufactured nickel-base superalloy. <i>Nature Communications</i> , 2018, 9, 2083.	12.8	59
7	Effect of chemistry on martensitic phase transformation kinetics and resulting properties of additively manufactured stainless steel. <i>Acta Materialia</i> , 2017, 131, 410-422.	7.9	51
8	Stress relaxation behavior and mechanisms in Ti-6Al-4V determined via in situ neutron diffraction: Application to additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 585-592.	5.6	40
9	Stress relaxation in a nickel-base superalloy at elevated temperatures with in situ neutron diffraction characterization: Application to additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 714, 75-83.	5.6	35
10	Stress state-dependent mechanics of additively manufactured 304L stainless steel: Part 1 "characterization and modeling of the effect of stress state and texture on microstructural evolution. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 811-823.	5.6	20
11	Stress state-dependent mechanics of additively manufactured 304L stainless steel: Part 2 "Characterization and modeling of macroscopic plasticity behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 824-831.	5.6	12
12	Orientation and stress state dependent plasticity and damage initiation behavior of stainless steel 304L manufactured by laser powder bed fusion additive manufacturing. <i>Extreme Mechanics Letters</i> , 2021, 45, 101271.	4.1	3