

Tung Lik Lee

List of Publications by Year in descending order

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22
papers

672
citations

759233

12
h-index

713466

21
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22
all docs

22
docs citations

22
times ranked

629
citing authors

#	ARTICLE	IF	CITATIONS
1	Residual stress and texture control in Ti-6Al-4V wire+arc additively manufactured intersections by stress relief and rolling. <i>Materials and Design</i> , 2018, 150, 193-205.	7.0	137
2	Ultrafast synchrotron X-ray imaging studies of microstructure fragmentation in solidification under ultrasound. <i>Acta Materialia</i> , 2018, 144, 505-515.	7.9	112
3	In situ high speed imaging study and modelling of the fatigue fragmentation of dendritic structures in ultrasonic fields. <i>Acta Materialia</i> , 2019, 165, 388-397.	7.9	58
4	High-Speed Synchrotron X-ray Imaging Studies of the Ultrasound Shockwave and Enhanced Flow during Metal Solidification Processes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 2851-2861.	2.2	53
5	Time-of-Flight Neutron Imaging on IMAT@ISIS: A New User Facility for Materials Science. <i>Journal of Imaging</i> , 2018, 4, 47.	3.0	50
6	In Situ Synchrotron X-ray Study of Ultrasound Cavitation and Its Effect on Solidification Microstructures. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1615-1619.	2.1	41
7	Evaluation of residual stresses induced by cold spraying of Ti-6Al-4V on Ti-6Al-4V substrates. <i>Surface and Coatings Technology</i> , 2019, 374, 591-602.	4.8	37
8	A validated analytical-numerical modelling strategy to predict residual stresses in single-track laser deposited IN718. <i>International Journal of Mechanical Sciences</i> , 2019, 151, 609-621.	6.7	31
9	Hydrogen embrittlement in super duplex stainless steels. <i>Materialia</i> , 2020, 9, 100524.	2.7	24
10	Effect of hydrogen charging on dislocation multiplication in pre-strained super duplex stainless steel. <i>Scripta Materialia</i> , 2018, 143, 20-24.	5.2	22
11	The interdendritic-melt solidification control (IMSC) and its effects on the porosity and phase change of a Ni-based superalloy. <i>Scripta Materialia</i> , 2014, 74, 84-87.	5.2	18
12	Ultrafast X-Ray Imaging and Modelling of Ultrasonic Cavitations in Liquid Metal. <i>Materials Science Forum</i> , 0, 765, 190-194.	0.3	16
13	Characterization of residual stress in laser melting deposited CoCrFeMnNi high entropy alloy by neutron diffraction. <i>Materials Letters</i> , 2020, 263, 127247.	2.6	16
14	A novel numerical method to predict the transient track geometry and thermomechanical effects through in-situ modification of the process parameters in Direct Energy Deposition. <i>Finite Elements in Analysis and Design</i> , 2020, 169, 103347.	3.2	12
15	Modelling and neutron diffraction characterization of the interfacial bonding of spray formed dissimilar steels. <i>Acta Materialia</i> , 2018, 155, 318-330.	7.9	10
16	Characterization of the residual stresses in spray-formed steels using neutron diffraction. <i>Scripta Materialia</i> , 2015, 100, 82-85.	5.2	8
17	Anisotropic behaviours of LPBF Hastelloy X under slow strain rate tensile testing at elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 844, 143174.	5.6	7
18	ϵ variant-sensitive deformation behaviour of Inconel 718 superalloy. <i>Journal of Materials Science and Technology</i> , 2022, 126, 169-181.	10.7	7

#	ARTICLE	IF	CITATIONS
19	Internal stresses in a clad pressure vessel steel during post weld heat treatment and their relevance to underclad cracking. International Journal of Pressure Vessels and Piping, 2021, 193, 104448.	2.6	5
20	Numerical and physical simulation of rapid microstructural evolution of gas atomised Ni superalloy powders. Materials and Design, 2017, 117, 157-167.	7.0	4
21	Data on residual stresses of mooring chains measured by neutron diffraction and hole drilling techniques. Data in Brief, 2020, 30, 105587.	1.0	2
22	3D Phase Field Modeling of Multi-Dendrites Evolution in Solidification and Validation by Synchrotron X-ray Tomography. Materials, 2021, 14, 520.	2.9	2