

Qilin Guo

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,411
citations

516710

16
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

994
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncertainties Induced by Processing Parameter Variation in Selective Laser Melting of Ti6Al4V Revealed by In-Situ X-ray Imaging. <i>Materials</i> , 2022, 15, 530.	2.9	6
2	Effects of Particle Size Distribution with Efficient Packing on Powder Flowability and Selective Laser Melting Process. <i>Materials</i> , 2022, 15, 705.	2.9	7
3	Defects and anomalies in powder bed fusion metal additive manufacturing. <i>Current Opinion in Solid State and Materials Science</i> , 2022, 26, 100974.	11.5	157
4	Revealing melt flow instabilities in laser powder bed fusion additive manufacturing of aluminum alloy via in-situ high-speed X-ray imaging. <i>International Journal of Machine Tools and Manufacture</i> , 2022, 175, 103861.	13.4	26
5	Controlling process instability for defect lean metal additive manufacturing. <i>Nature Communications</i> , 2022, 13, 1079.	12.8	59
6	An instrument for <i>in situ</i> characterization of powder spreading dynamics in powder-bed-based additive manufacturing processes. <i>Review of Scientific Instruments</i> , 2022, 93, 043707.	1.3	5
7	Mitigating keyhole pore formation by nanoparticles during laser powder bed fusion additive manufacturing. <i>Additive Manufacturing Letters</i> , 2022, 3, 100068.	2.1	8
8	In-Situ Characterization of Pore Formation Dynamics in Pulsed Wave Laser Powder Bed Fusion. <i>Materials</i> , 2021, 14, 2936.	2.9	13
9	Quantitative investigation of gas flow, powder-gas interaction, and powder behavior under different ambient pressure levels in laser powder bed fusion. <i>International Journal of Machine Tools and Manufacture</i> , 2021, 170, 103797.	13.4	21
10	In-situ full-field mapping of melt flow dynamics in laser metal additive manufacturing. <i>Additive Manufacturing</i> , 2020, 31, 100939.	3.0	69
11	Types of spatter and their features and formation mechanisms in laser powder bed fusion additive manufacturing process. <i>Additive Manufacturing</i> , 2020, 36, 101438.	3.0	48
12	Direct observation of pore formation mechanisms during LPBF additive manufacturing process and high energy density laser welding. <i>International Journal of Machine Tools and Manufacture</i> , 2020, 153, 103555.	13.4	143
13	Pore elimination mechanisms during 3D printing of metals. <i>Nature Communications</i> , 2019, 10, 3088.	12.8	158
14	Investigation of dynamic fracture behavior of additively manufactured Al-10Si-Mg using high-speed synchrotron X-ray imaging. <i>Additive Manufacturing</i> , 2019, 30, 100878.	3.0	12
15	Bulk-Explosion-Induced Metal Spattering During Laser Processing. <i>Physical Review X</i> , 2019, 9, .	8.9	34
16	In-situ characterization and quantification of melt pool variation under constant input energy density in laser powder bed fusion additive manufacturing process. <i>Additive Manufacturing</i> , 2019, 28, 600-609.	3.0	103
17	High-speed Synchrotron X-ray Imaging of Laser Powder Bed Fusion Process. <i>Synchrotron Radiation News</i> , 2019, 32, 4-8.	0.8	17
18	Investigating Powder Spreading Dynamics in Additive Manufacturing Processes by <i>in-situ</i> High-speed X-ray Imaging. <i>Synchrotron Radiation News</i> , 2019, 32, 9-13.	0.8	16

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19	Transient dynamics of powder spattering in laser powder bed fusion additive manufacturing process revealed by in-situ high-speed high-energy x-ray imaging. <i>Acta Materialia</i> , 2018, 151, 169-180.	7.9	276
20	Revealing particle-scale powder spreading dynamics in powder-bed-based additive manufacturing process by high-speed x-ray imaging. <i>Scientific Reports</i> , 2018, 8, 15079.	3.3	85
21	Preparation and thermal properties of short carbon fibers/erythritol phase change materials. <i>Energy Conversion and Management</i> , 2017, 136, 220-228.	9.2	116
22	Structural responses of metallic glasses under neutron irradiation. <i>Scientific Reports</i> , 2017, 7, 16739.	3.3	28
23	Preparation and characterisation of Al ₂ O ₃ film on hollow glass microspheres by the sol-gel process. <i>Materials Research Innovations</i> , 2014, 18, S4-524-S4-527.	2.3	1