

Xing-gang Li

List of Publications by Year in descending order

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papers

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docs citations

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309
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of processing parameters on surface roughness, porosity and cracking of as-built IN738LC parts fabricated by laser powder bed fusion. <i>Journal of Materials Processing Technology</i> , 2020, 285, 116788.	6.3	84
2	Process modeling pressure-swirl-gas-atomization for metal powder production. <i>Journal of Materials Processing Technology</i> , 2017, 239, 1-17.	6.3	62
3	Investigation into the effect of energy density on densification, surface roughness and loss of alloying elements of 7075 aluminium alloy processed by laser powder bed fusion. <i>Optics and Laser Technology</i> , 2022, 147, 107621.	4.6	49
4	Fine spherical powder production during gas atomization of pressurized melts through melt nozzles with a small inner diameter. <i>Powder Technology</i> , 2019, 356, 759-768.	4.2	35
5	A novel high-entropy alloy with excellent damping property toward a large strain amplitude environment. <i>Journal of Alloys and Compounds</i> , 2019, 802, 493-501.	5.5	30
6	Effects of Y2O3 nanoparticles on the high-temperature oxidation behavior of IN738LC manufactured by laser powder bed fusion. <i>Corrosion Science</i> , 2020, 171, 108715.	6.6	30
7	A comparing study of defect generation in IN738LC superalloy fabricated by laser powder bed fusion: Continuous-wave mode versus pulsed-wave mode. <i>Journal of Materials Science and Technology</i> , 2021, 90, 45-57.	10.7	23
8	Characterization of cooling rate and microstructure of CuSn melt droplet in drop on demand process. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 1636-1644.	4.2	17
9	A comparative study on laser powder bed fusion of IN718 powders produced by gas atomization and plasma rotating electrode process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 850, 143589.	5.6	17
10	Numerical Investigation of Binary Droplet Collisions in All Relevant Collision Regimes. <i>Journal of Computational Multiphase Flows</i> , 2011, 3, 207-224.	0.8	15
11	Multiscale descriptions of particle-droplet interactions in multiphase spray processing. <i>International Journal of Multiphase Flow</i> , 2016, 80, 15-28.	3.4	13
12	Simulation of Droplet-Formation and -Interaction in Emulsification Processes. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2011, 5, 406-415.	3.1	12
13	Design of friction and wear resistant titanium- and cobalt-modified nickel-base repair alloys by spray forming. <i>Materials and Design</i> , 2017, 116, 403-410.	7.0	12
14	Effect of Heat Treatment on Microstructure and Properties of FGH4096M Superalloy Processed by Selective Laser Melting. <i>Metals and Materials International</i> , 2020, 26, 1270-1285.	3.4	12
15	Effects of stress and temperature on creep behavior of a new third-generation powder metallurgy superalloy FGH100L. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 776, 139007.	5.6	11
16	First results of characterization of 9Cr-3WVTiTaN low activation ferritic/martensitic steel. <i>Journal of Iron and Steel Research International</i> , 2010, 17, 57-62.	2.8	9
17	Influence of aging treatment on microstructure and properties of a novel spray formed powder metallurgy superalloy FGH100L. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154699.	5.5	7
18	Effects of hot processes on microstructure evolution and tensile properties of FGH4096 Ni-based superalloy processed by Laser Powder Bed Fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 804, 140775.	5.6	7

#	ARTICLE	IF	CITATIONS
19	Numerical investigation on flow process of liquid metals in melt delivery nozzle during gas atomization process for fine metal powder production. Transactions of Nonferrous Metals Society of China, 2021, 31, 3192-3204.	4.2	7
20	SPRAY PROCESS MODELING IN METAL MATRIX COMPOSITE POWDER PRODUCTION. Atomization and Sprays, 2011, 21, 933-948.	0.8	6
21	Status of R&D on fusion materials in institute of nuclear materials in USTB. Fusion Engineering and Design, 2010, 85, 1080-1084.	1.9	5
22	Numerical investigation of solid particle penetration into liquid droplet. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 666-682.	0.9	4
23	Research Progress on Plastic Processing Techniques of Particulate Reinforced Aluminium Matrix Composites. Materials Science Forum, 0, 898, 971-983.	0.3	4
24	Effect of post-treatments on microstructure and mechanical properties of a novel nickel-based powder metallurgy superalloy processed by selective laser melting. Materials Research Express, 2019, 6, 1065e5.	1.6	4
25	Phase field simulation of dendrite growth in gas atomized binary Al-Ni droplets. Particuology, 2020, 50, 43-52.	3.6	4
26	Feasibility analysis of modified AL-6XN steel for structure component application in supercritical water-cooled reactor. Frontiers of Energy and Power Engineering in China, 2009, 3, 193-197.	0.4	3
27	Influences of a Hot-Working Process on the Microstructural Evolution and Creep Performance of a Spray-Formed Nickel-Based Superalloy. Metals, 2020, 10, 454.	2.3	2
28	Spray Transport Fundamentals. , 2017, , 89-176.		1
29	First-principles study of intermetallic compounds In CrMnFeCoNiZr system high-entropy alloy. International Journal of Modern Physics B, 2017, 31, 1744007.	2.0	0
30	Microstructural evolution of a titanium- and cobalt-modified nickel-based repair alloy during exposure to high temperatures. Journal of Alloys and Compounds, 2017, 726, 779-786.	5.5	0
31	Integral Process Modelling and Simulation for Solid-Particle-Forming Spray Processes. , 2016, , 679-748.		0