

Xing-gang Li

List of Publications by Year in descending order

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31
papers

486
citations

759233

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all docs

32
docs citations

32
times ranked

309
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Numerical investigation on flow process of liquid metals in melt delivery nozzle during gas atomization process for fine metal powder production. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 3192-3204.	4.2	7
6	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
7	Phase field simulation of dendrite growth in gas atomized binary Al-Ni droplets. <i>Particuology</i> , 2020, 50, 43-52.	3.6	4
8	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
9	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
10	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
11	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
12	Influences of a Hot-Working Process on the Microstructural Evolution and Creep Performance of a Spray-Formed Nickel-Based Superalloy. <i>Metals</i> , 2020, 10, 454.	2.3	2
13	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
14	Effect of post-treatments on microstructure and mechanical properties of a novel nickel-based powder metallurgy superalloy processed by selective laser melting. <i>Materials Research Express</i> , 2019, 6, 1065e5.	1.6	4
15	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
16	First-principles study of intermetallic compounds in CrMnFeCoNiZr system high-entropy alloy. <i>International Journal of Modern Physics B</i> , 2017, 31, 1744007.	2.0	0
17	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
18	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

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19	Spray Transport Fundamentals. , 2017, , 89-176.		1
20	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
21	Process modeling pressure-swirl-gas-atomization for metal powder production. Journal of Materials Processing Technology, 2017, 239, 1-17.	6.3	62
22	Multiscale descriptions of particle-droplet interactions in multiphase spray processing. International Journal of Multiphase Flow, 2016, 80, 15-28.	3.4	13
23	Integral Process Modelling and Simulation for Solid-Particle-Forming Spray Processes. , 2016, , 679-748.		0
24	Numerical investigation of solid particle penetration into liquid droplet. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 666-682.	0.9	4
25	Numerical Investigation of Binary Droplet Collisions in All Relevant Collision Regimes. Journal of Computational Multiphase Flows, 2011, 3, 207-224.	0.8	15
26	Simulation of Droplet-Formation and -Interaction in Emulsification Processes. Engineering Applications of Computational Fluid Mechanics, 2011, 5, 406-415.	3.1	12
27	SPRAY PROCESS MODELING IN METAL MATRIX COMPOSITE POWDER PRODUCTION. Atomization and Sprays, 2011, 21, 933-948.	0.8	6
28	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
29	First results of characterization of 9Cr-3WVTiTaN low activation ferritic/martensitic steel. Journal of Iron and Steel Research International, 2010, 17, 57-62.	2.8	9
30	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
31	Research Progress on Plastic Processing Techniques of Particulate Reinforced Aluminium Matrix Composites. Materials Science Forum, 0, 898, 971-983.	0.3	4