

Lehua Liu

List of Publications by Year in descending order

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32
papers

905
citations

471509

17
h-index

454955

30
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32
all docs

32
docs citations

32
times ranked

595
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous enhancement of mechanical and shape memory properties by heat-treatment homogenization of Ti ₂ Ni precipitates in TiNi shape memory alloy fabricated by selective laser melting. <i>Journal of Materials Science and Technology</i> , 2022, 101, 205-216.	10.7	89
2	Improvement in tensile plasticity of pressureless-sintered TiBw/Ti composites by evading Kirkendall's pore. <i>Powder Technology</i> , 2022, 396, 444-448.	4.2	12
3	Decomposition of cellular structure in selective laser melted Cu-Zn-Si silicon brass and its influence on microstructure, mechanical and corrosion properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 841, 143055.	5.6	1
4	Shear-accelerated crystallization of glass-forming metallic liquids in high-pressure die casting. <i>Journal of Materials Science and Technology</i> , 2022, 117, 146-157.	10.7	1
5	Overcoming the strength-ductility trade-off by tailoring grain-boundary metastable Si-containing phase in β -type titanium alloy. <i>Journal of Materials Science and Technology</i> , 2021, 68, 112-123.	10.7	87
6	Atomistic simulation of chemical short-range order in HfNbTaZr high entropy alloy based on a newly-developed interatomic potential. <i>Materials and Design</i> , 2021, 202, 109560.	7.0	63
7	Characterization of Nucleation Behavior in Temperature-Induced BCC-to-HCP Phase Transformation for High Entropy Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1546-1556.	2.9	7
8	Influence of discharge plasma modification on physical properties and resultant densification mechanism of spherical titanium powder. <i>Powder Technology</i> , 2021, 389, 138-144.	4.2	5
9	Large tensile plasticity in Zr-based metallic glass/stainless steel interpenetrating-phase composites prepared by high pressure die casting. <i>Composites Part B: Engineering</i> , 2021, 224, 109226.	12.0	21
10	A novel yielding anisotropy and corresponding lattice evolution mechanism in CP-Ti achieved via pulsed electric current. <i>Materials and Design</i> , 2021, 209, 110013.	7.0	3
11	Correlation between microstructure and deformation mechanism in Ti ₆₆ Nb ₁₃ Cu ₈ Ni _{6.8} Al _{6.2} composites at ambient and elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 767, 138448.	5.6	3
12	Abnormal increase of glass forming ability under rising mold temperature in high pressure die casting. <i>Materials Letters</i> , 2019, 247, 215-218.	2.6	7
13	Liquid structure of Al-Si alloy: A molecular dynamics simulation. <i>Journal of Non-Crystalline Solids</i> , 2019, 503-504, 182-185.	3.1	12
14	Ultrafast consolidation of bulk nanocrystalline titanium alloy through ultrasonic vibration. <i>Scientific Reports</i> , 2018, 8, 801.	3.3	15
15	Local mechanical properties of Al CoCrCuFeNi high entropy alloy characterized using nanoindentation. <i>Intermetallics</i> , 2018, 93, 85-88.	3.9	54
16	Near-Net Forming Complex Shaped Zr-Based Bulk Metallic Glasses by High Pressure Die Casting. <i>Materials</i> , 2018, 11, 2338.	2.9	39
17	An improved modified embedded-atom method potential to fit the properties of silicon at high temperature. <i>Computational Materials Science</i> , 2018, 153, 251-257.	3.0	6
18	Effect of structural heterogeneity on serrated flow behavior of Zr-based metallic glass. <i>Journal of Alloys and Compounds</i> , 2018, 766, 908-917.	5.5	30

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19	Ultra-high strength and large plasticity of nanostructured Ti 62 Nb 12.2 Fe 13.6 Co 6.4 Al 5.8 alloy obtained by selectively controlled micrometer-sized phases. <i>Materials Characterization</i> , 2017, 124, 260-265.	4.4	3
20	Determination of forming ability of high pressure die casting for Zr-based metallic glass. <i>Journal of Materials Processing Technology</i> , 2017, 244, 87-96.	6.3	17
21	Investigation of atom distribution in Mg-9wt.%Al melt using small-angle X-ray scattering and molecular dynamics simulation. <i>Journal of Non-Crystalline Solids</i> , 2017, 473, 47-53.	3.1	6
22	Influence of powder properties on densification mechanism during spark plasma sintering. <i>Scripta Materialia</i> , 2017, 139, 96-99.	5.2	72
23	A new insight into high-strength Ti62Nb12.2Fe13.6Co6.4Al5.8 alloys with bimodal microstructure fabricated by semi-solid sintering. <i>Scientific Reports</i> , 2016, 6, 23467.	3.3	28
24	A liquid aluminum alloy electromagnetic transport process for high pressure die casting. <i>Journal of Materials Processing Technology</i> , 2016, 234, 217-227.	6.3	19
25	Equiaxed Ti-based composites with high strength and large plasticity prepared by sintering and crystallizing amorphous powder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 650, 171-182.	5.6	48
26	Densification mechanism of Ti-based metallic glass powders during spark plasma sintering process. <i>Intermetallics</i> , 2015, 66, 1-7.	3.9	64
27	Ultrafine grained Ti-based composites with ultra-high strength and ductility achieved by equiaxing microstructure. <i>Materials & Design</i> , 2015, 79, 1-5.	5.1	89
28	Effect of minor Cu content on microstructure and mechanical property of NiTiCu bulk alloys fabricated by crystallization of metallic glass powder. <i>Intermetallics</i> , 2015, 56, 37-43.	3.9	24
29	Intrinsic relationship between crystallization mechanism of metallic glass powder and microstructure of bulk alloys fabricated by powder consolidation and crystallization of amorphous phase. <i>Journal of Alloys and Compounds</i> , 2014, 586, 542-548.	5.5	34
30	Equiaxed grained structure: A structure in titanium alloys with higher compressive mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 580, 397-405.	5.6	32
31	Microstructure and mechanical properties of nanocrystalline WC-particle-reinforced Ti-based composites with nano/ultrafine-grained intermetallic matrix from spark plasma sintering and crystallization of amorphous phase. <i>International Journal of Materials Research</i> , 2012, 103, 613-619.	0.3	5
32	Microstructure evolution and thermal properties in FeMoPCB alloy during mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1459-1464.	3.1	9