Lehua Liu

List of Publications by Year
in descending order

32 papers	905 citations	471509 17 h-index	454955 30 g-index
32 all docs	32 docs citations	32 times ranked	595 citing authors

#	Article	IF	Citations
1	Ultrafine grained Ti-based composites with ultrahigh strength and ductility achieved by equiaxing microstructure. Materials & Design, 2015, 79, 1-5.	5.1	89
2	Simultaneous enhancement of mechanical and shape memory properties by heat-treatment homogenization of Ti2Ni precipitates in TiNi shape memory alloy fabricated by selective laser melting. Journal of Materials Science and Technology, 2022, 101, 205-216.	10.7	89
3	Overcoming the strengthâ€“ductility trade-off by tailoring grain-boundary metastable Si-containing phase in Î²-type titanium alloy. Journal of Materials Science and Technology, 2021, 68, 112-123.	10.7	87
4	Influence of powder properties on densification mechanism during spark plasma sintering. Scripta Materialia, 2017, 139, 96-99.	5.2	72
5	Densification mechanism of Ti-based metallic glass powders during spark plasma sintering process. Intermetallics, 2015, 66, 1-7.	3.9	64
6	Atomistic simulation of chemical short-range order in HfNbTaZr high entropy alloy based on a newly-developed interatomic potential. Materials and Design, 2021, 202, 109560.	7.0	63
7	Local mechanical properties of Al CoCrCuFeNi high entropy alloy characterized using nanoindentation. Intermetallics, 2018, 93, 85-88.	3.9	54
8	Equiaxed Ti-based composites with high strength and large plasticity prepared by sintering and crystallizing amorphous powder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 650, 171-182.	5.6	48
9	Near-Net Forming Complex Shaped Zr-Based Bulk Metallic Glasses by High Pressure Die Casting. Materials, 2018, 11, 2338.	2.9	39
10	Intrinsic relationship between crystallization mechanism of metallic glass powder and microstructure of bulk alloys fabricated by powder consolidation and crystallization of amorphous phase. Journal of Alloys and Compounds, 2014, 586, 542-548.	5.5	34
11	Equiaxed grained structure: A structure in titanium alloys with higher compressive mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 580, 397-405.	5.6	32
12	Effect of structural heterogeneity on serrated flow behavior of Zr-based metallic glass. Journal of Alloys and Compounds, 2018, 766, 908-917.	5.5	30
13	A new insight into high-strength Ti62Nb12.2Fe13.6Co6.4Al5.8 alloys with bimodal microstructure fabricated by semi-solid sintering. Scientific Reports, 2016, 6, 23467.	3.3	28
14	Effect of minor Cu content on microstructure and mechanical property of NiTiCu bulk alloys fabricated by crystallization of metallic glass powder. Intermetallics, 2015, 56, 37-43.	3.9	24
15	Large tensile plasticity in Zr-based metallic glass/stainless steel interpenetrating-phase composites prepared by high pressure die casting. Composites Part B: Engineering, 2021, 224, 109226.	12.0	21
16	A liquid aluminum alloy electromagnetic transport process for high pressure die casting. Journal of Materials Processing Technology, 2016, 234, 217-227.	6.3	19
17	Determination of forming ability of high pressure die casting for Zr-based metallic glass. Journal of Materials Processing Technology, 2017, 244, 87-96.	6.3	17
18	Ultrafast consolidation of bulk nanocrystalline titanium alloy through ultrasonic vibration. Scientific Reports, 2018, 8, 801.	3.3	15

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19	Liquid structure of Al-Si alloy: A molecular dynamics simulation. Journal of Non-Crystalline Solids, 2019, 503-504, 182-185.	3.1	12
20	Improvement in tensile plasticity of pressureless-sintered TiBw/Ti composites by evading Kirkendall's pore. Powder Technology, 2022, 396, 444-448.	4.2	12
21	Microstructure evolution and thermal properties in FeMoPCB alloy during mechanical alloying. Journal of Non-Crystalline Solids, 2012, 358, 1459-1464.	3.1	9
22	Abnormal increase of glass forming ability under rising mold temperature in high pressure die casting. Materials Letters, 2019, 247, 215-218.	2.6	7
23	Characterization of Nucleation Behavior in Temperature-Induced BCC-to-HCP Phase Transformation for High Entropy Alloy. Acta Metallurgica Sinica (English Letters), 2021, 34, 1546-1556.	2.9	7
24	Investigation of atom distribution in Mg-9wt.%Al melt using small-angle X-ray scattering and molecular dynamics simulation. Journal of Non-Crystalline Solids, 2017, 473, 47-53.	3.1	6
25	An improved modified embedded-atom method potential to fit the properties of silicon at high temperature. Computational Materials Science, 2018, 153, 251-257.	3.0	6
26	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. International Journal of Materials Research, 2012, 103, 613-619.	0.3	5
27	Influence of discharge plasma modification on physical properties and resultant densification mechanism of spherical titanium powder. Powder Technology, 2021, 389, 138-144.	4.2	5
28	Ultrahigh 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. Materials Characterization, 2017, 124, 260-265.	4.4	3
29	Correlation between microstructure and deformation mechanism in Ti66Nb13Cu8Ni6.8Al6.2 composites at ambient and elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 767, 138448.	5.6	3
30	A novel yielding anisotropy and corresponding lattice evolution mechanism in CP-Ti achieved via pulsed electric current. Materials and Design, 2021, 209, 110013.	7.0	3
31	Decomposition of cellular structure in selective laser melted Cuâ€“Znâ€“Si silicon brass and its influence on microstructure, mechanical and corrosion properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 841, 143055.	5.6	1
32	Shear-accelerated crystallization of glass-forming metallic liquids in high-pressure die casting. Journal of Materials Science and Technology, 2022, 117, 146-157.	10.7	1