Jin-Xu Liu

List of Publications by Year
in descending order

40	694	516710 16	580821 25
papers	citations	h-index	g-index

40	40	40	402
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced thermal- and impact-initiated reactions of PTFE/Al energetic materials through ultrasonic-assisted core-shell construction. Defence Technology, 2022, 18, 1362-1368.	4.2	2
2	Effect of increasing Ti content on the phase, interface, dynamic mechanical properties and ballistic performance of Wâ€“Tiâ€“Zr alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142196.	5.6	10
3	Influence of impact velocity on impact-initiated reaction behavior of Zr-Ti-Nb alloy. Materials and Design, 2022, 220, 110846.	7.0	7
4	Energetic-Materials-Driven Synthesis of Graphene-Encapsulated Tin Oxide Nanoparticles for Sodium-Ion Batteries. Materials, 2021, 14, 2550.	2.9	0
5	Influence of composition and microstructure on the properties of PTFE/Mg reactive materials. Journal of Physics: Conference Series, 2021, 1965, 012104.	0.4	0
6	Study on strengthening effects of Zr-Ti-Nb-O alloys via high throughput powder metallurgy and data-driven machine learning. Materials and Design, 2021, 206, 109777.	7.0	14
7	An investigation on anti-impact and penetration performance of basalt fiber composites with different weave and lay-up modes. Defence Technology, 2020, 16, 787-801.	4.2	15
8	Influence of multi-oxidants on reaction characteristics of PTFE-Al-XmOY reactive material. Materials and Design, 2020, 186, 108325.	7.0	21
9	Comparison of high-temperature deformation behaviors for Tiâ€“Alâ€“Nbâ€“V alloy with different initial microstructures at the strain of 0.7. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 795, 140042.	5.6	1
10	Self-sustained solid-state exothermic reaction for scalable graphene production. Materials and Design, 2020, 196, 109135.	7.0	9
11	Effect of the distribution state of transition phase on the mechanical properties and failure mechanisms of the Wâ€“Moâ€“Cu alloy by tuning elements content. Journal of Alloys and Compounds, 2020, 827, 154333.	5.5	18
12	Ultrafast synthesis of graphene nanosheets encapsulated Si nanoparticles via deflagration of energetic materials for lithium-ion batteries. Nano Energy, 2019, 65, 104028.	16.0	24
13	Enhanced Ductility of a W-30Cu Composite by Improving Microstructure Homogeneity. Metals, 2019, 9, 646.	2.3	9
14	Enhanced ductility of W Mo Cu alloy through the formation of nanometer-to-micrometer-thick dual-phase transition phase layer. Materials and Design, 2019, 164, 107536.	7.0	25
15	Effects of multi-component co-addition on reaction characteristics and impact damage properties of reactive material. Materials and Design, 2018, 153, 1-8.	7.0	25
16	Reaction mechanism, insensitivity and mechanical property of PTFEâ€“Mgâ€“W composites with magnesium particles surface modification. Rare Metals, 2017, , 1.	7.1	1
17	Preparation and anisotropic compressive deformation behaviors of tungsten fiber reinforced Cu-Zn matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 43-49.	5.6	8
18	Effects of nano-twinning on the deformation and mechanical behaviours of TiAl alloys with distinct microstructure at elevated loading temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 705, 210-218.	5.6	30

#	Article	IF	Citations
19	Bending mechanical property and failure mechanisms of woven carbon fiber-reinforced aluminum alloy composite. Rare Metals, 2016, 35, 915-919.	7.1	3
20	Comparison of penetration performance and penetration mechanism of w-cu shaped charge liner against three kinds of target: Pure copper, carbon steel and Ti-6Al-4V alloy. International Journal of Refractory Metals and Hard Materials, 2016, 60, 147-153.	3.8	21
21	Dislocation Slip Behavior of Ni Single Crystal Under Dynamic Compression. Journal of Dynamic Behavior of Materials, 2016, 2, 223-233.	1.7	4
22	Investigation on reaction energy, mechanical behavior and impact insensitivity of Wâ€“PTFEâ€“Al composites with different W percentage. Materials and Design, 2016, 92, 397-404.	7.0	76
23	Penetration performance of W/Cu double-layer shaped charge liners. Rare Metals, 2016, 35, 184-191.	7.1	10
24	Effect of Zn and Ni added in Wâ€“Cu alloy on penetration performance and penetration mechanism of shaped charge liner. International Journal of Refractory Metals and Hard Materials, 2016, 54, 90-97.	3.8	40
25	Preparation and properties of Wâ€“Cuâ€“Zn alloy with low Wâ€“W contiguity. Rare Metals, 2016, 35, 242-248.	7.1	3
26	Investigation on the penetration performance and â€œself-sharpeningâ€•behavior of the 80Wâ€“14Cuâ€“6Zn penetrators. International Journal of Refractory Metals and Hard Materials, 2016, 54, 237-243.	3.8	9
27	Insensitive high-energy energetic structural material of tungsten-polytetrafluoroethylene-aluminum composites. AIP Advances, 2015, 5, .	1.3	15
28	Investigation on preparation and mechanical properties of Wâ€“Cuâ€“Zn alloy with low Wâ€“W contiguity and high ductility. Materials and Design, 2015, 86, 297-304.	7.0	18
29	Adiabatic shear banding of hot-rolling Tiâ€“6Alâ€“4V alloy subjected to dynamic shearing and uniaxial dynamic compression. Rare Metals, 2015, 34, 632-637.	7.1	8
30	Rapid preparation of TiC reinforced Ti6Al4V based composites by carburizing method through spark plasma sintering technique. Materials & Design, 2015, 65, 94-97.	5.1	58
31	The effect of preparation methods on the microstructure and dynamic compressive properties of 65Wâ€“25Cuâ€“10Ni alloys. International Journal of Refractory Metals and Hard Materials, 2015, 48, 238-244.	3.8	10
32	Microstructural evolution and grain refinement mechanism of pure tungsten under explosive loading condition. International Journal of Refractory Metals and Hard Materials, 2014, 45, 64-70.	3.8	11
33	Effects of short time electric pulse heat treatment on microstructures and mechanical properties of hot-rolled Tiâ€“6Alâ€“4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 104-111.	5.6	18
34	Parameters optimization of electroless deposition of Cu on Cr-coated diamond. Transactions of Nonferrous Metals Society of China, 2014, 24, 136-145.	4.2	11
35	Study on improving â€œself-sharpeningâ€•capacity of Wâ€“Cuâ€“Zn alloy by the pressureless infiltration method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 607, 454-459.	5.6	22
36	Adiabatic shear banding of hot-extruded tungsten heavy alloy under cryogenic temperature. Rare Metals, 2012, 31, 17-21.	7.1	6

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37	Dynamic Recrystallization in the Shear Bands of Tungsten Heavy Alloy Processed by Hot-Hydrostatic Extrusion and Hot Torsion. Rare Metal Materials and Engineering, 2011, 40, 957-960.	0.8	12
38	Effect of initial temperature on dynamic recrystallization of tungsten and matrix within adiabatic shear band of tungsten heavy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6248-6252.	5.6	22
39	Effect of fibrous orientation on dynamic mechanical properties and susceptibility to adiabatic shear band of tungsten heavy alloy fabricated through hot-hydrostatic extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 235-242.	5.6	46
40	Adiabatic shear banding in a tungsten heavy alloy processed by hot-hydrostatic extrusion and hot torsion. Scripta Materialia, 2008, 59, 1271-1274.	5.2	52