

# Jin-Xu Liu

## List of Publications by Year in descending order

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40  
papers

694  
citations

516710

16  
h-index

580821

25  
g-index

40  
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40  
docs citations

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times ranked

402  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on reaction energy, mechanical behavior and impact insensitivity of Wâ€“PTFEâ€“Al composites with different W percentage. <i>Materials and Design</i> , 2016, 92, 397-404.	7.0	76
2	Rapid preparation of TiC reinforced Ti6Al4V based composites by carburizing method through spark plasma sintering technique. <i>Materials &amp; Design</i> , 2015, 65, 94-97.	5.1	58
3	Adiabatic shear banding in a tungsten heavy alloy processed by hot-hydrostatic extrusion and hot torsion. <i>Scripta Materialia</i> , 2008, 59, 1271-1274.	5.2	52
4	Effect of fibrous orientation on dynamic mechanical properties and susceptibility to adiabatic shear band of tungsten heavy alloy fabricated through hot-hydrostatic extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 487, 235-242.	5.6	46
5	Effect of Zn and Ni added in Wâ€“Cu alloy on penetration performance and penetration mechanism of shaped charge liner. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 54, 90-97.	3.8	40
6	Effects of nano-twinning on the deformation and mechanical behaviours of TiAl alloys with distinct microstructure at elevated loading temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 705, 210-218.	5.6	30
7	Effects of multi-component co-addition on reaction characteristics and impact damage properties of reactive material. <i>Materials and Design</i> , 2018, 153, 1-8.	7.0	25
8	Enhanced ductility of W Mo Cu alloy through the formation of nanometer-to-micrometer-thick dual-phase transition phase layer. <i>Materials and Design</i> , 2019, 164, 107536.	7.0	25
9	Ultrafast synthesis of graphene nanosheets encapsulated Si nanoparticles via deflagration of energetic materials for lithium-ion batteries. <i>Nano Energy</i> , 2019, 65, 104028.	16.0	24
10	Effect of initial temperature on dynamic recrystallization of tungsten and matrix within adiabatic shear band of tungsten heavy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6248-6252.	5.6	22
11	Study on improving self-sharpening capacity of Wâ€“Cuâ€“Zn alloy by the pressureless infiltration method. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 454-459.	5.6	22
12	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. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 60, 147-153.	3.8	21
13	Influence of multi-oxidants on reaction characteristics of PTFE-Al-XmOY reactive material. <i>Materials and Design</i> , 2020, 186, 108325.	7.0	21
14	Effects of short time electric pulse heat treatment on microstructures and mechanical properties of hot-rolled Tiâ€“6Alâ€“4V alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 618, 104-111.	5.6	18
15	Investigation on preparation and mechanical properties of Wâ€“Cuâ€“Zn alloy with low Wâ€“W contiguity and high ductility. <i>Materials and Design</i> , 2015, 86, 297-304.	7.0	18
16	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. <i>Journal of Alloys and Compounds</i> , 2020, 827, 154333.	5.5	18
17	Insensitive high-energy energetic structural material of tungsten-polytetrafluoroethylene-aluminum composites. <i>AIP Advances</i> , 2015, 5, .	1.3	15
18	An investigation on anti-impact and penetration performance of basalt fiber composites with different weave and lay-up modes. <i>Defence Technology</i> , 2020, 16, 787-801.	4.2	15

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19	Study on strengthening effects of Zr-Ti-Nb-O alloys via high throughput powder metallurgy and data-driven machine learning. <i>Materials and Design</i> , 2021, 206, 109777.	7.0	14
20	Dynamic Recrystallization in the Shear Bands of Tungsten Heavy Alloy Processed by Hot-Hydrostatic Extrusion and Hot Torsion. <i>Rare Metal Materials and Engineering</i> , 2011, 40, 957-960.	0.8	12
21	Microstructural evolution and grain refinement mechanism of pure tungsten under explosive loading condition. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 45, 64-70.	3.8	11
22	Parameters optimization of electroless deposition of Cu on Cr-coated diamond. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 136-145.	4.2	11
23	The effect of preparation methods on the microstructure and dynamic compressive properties of 65W-25Cu-10Ni alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 48, 238-244.	3.8	10
24	Penetration performance of W/Cu double-layer shaped charge liners. <i>Rare Metals</i> , 2016, 35, 184-191.	7.1	10
25	Effect of increasing Ti content on the phase, interface, dynamic mechanical properties and ballistic performance of W-Ti-Zr alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142196.	5.6	10
26	Investigation on the penetration performance and self-sharpening behavior of the 80W-14Cu-6Zn penetrators. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 54, 237-243.	3.8	9
27	Enhanced Ductility of a W-30Cu Composite by Improving Microstructure Homogeneity. <i>Metals</i> , 2019, 9, 646.	2.3	9
28	Self-sustained solid-state exothermic reaction for scalable graphene production. <i>Materials and Design</i> , 2020, 196, 109135.	7.0	9
29	Adiabatic shear banding of hot-rolling Ti-6Al-4V alloy subjected to dynamic shearing and uniaxial dynamic compression. <i>Rare Metals</i> , 2015, 34, 632-637.	7.1	8
30	Preparation and anisotropic compressive deformation behaviors of tungsten fiber reinforced Cu-Zn matrix composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 708, 43-49.	5.6	8
31	Influence of impact velocity on impact-initiated reaction behavior of Zr-Ti-Nb alloy. <i>Materials and Design</i> , 2022, 220, 110846.	7.0	7
32	Adiabatic shear banding of hot-extruded tungsten heavy alloy under cryogenic temperature. <i>Rare Metals</i> , 2012, 31, 17-21.	7.1	6
33	Dislocation Slip Behavior of Ni Single Crystal Under Dynamic Compression. <i>Journal of Dynamic Behavior of Materials</i> , 2016, 2, 223-233.	1.7	4
34	Bending mechanical property and failure mechanisms of woven carbon fiber-reinforced aluminum alloy composite. <i>Rare Metals</i> , 2016, 35, 915-919.	7.1	3
35	Preparation and properties of W-Cu-Zn alloy with low W-W contiguity. <i>Rare Metals</i> , 2016, 35, 242-248.	7.1	3
36	Enhanced thermal- and impact-initiated reactions of PTFE/Al energetic materials through ultrasonic-assisted core-shell construction. <i>Defence Technology</i> , 2022, 18, 1362-1368.	4.2	2

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37	Reaction mechanism, insensitivity and mechanical property of PTFE/Mg/W composites with magnesium particles surface modification. <i>Rare Metals</i> , 2017, , 1.	7.1	1
38	Comparison of high-temperature deformation behaviors for Ti/Al/Nb/V alloy with different initial microstructures at the strain of 0.7. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 795, 140042.	5.6	1
39	Energetic-Materials-Driven Synthesis of Graphene-Encapsulated Tin Oxide Nanoparticles for Sodium-Ion Batteries. <i>Materials</i> , 2021, 14, 2550.	2.9	0
40	Influence of composition and microstructure on the properties of PTFE/Mg reactive materials. <i>Journal of Physics: Conference Series</i> , 2021, 1965, 012104.	0.4	0