

# Xiyao Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26  
papers

237  
citations

8  
h-index

14  
g-index

26  
ext. papers

294  
ext. citations

2.7  
avg, IF

3.41  
L-index

#	Paper	IF	Citations
26	Study on self-adaptive lubrication mechanism of surface micro-dimple structure filled with multiple lubricants. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 861, 158479	5.7	4
25	The influence mechanism of MoS <sub>2</sub> and NiTi microparticles on the friction and wear properties of bearing steel. <i>Tribology International</i> , <b>2021</b> , 160, 107033	4.9	7
24	Friction and Wear Characteristics of Microporous Interface Filled with Mixed Lubricants of M50 Steel at Different Loads. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
23	The self-lubricating behavior and evolution mechanisms of the surface microporous friction interface of M50-(Sn-Ag-Cu) material. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 8207-8220	5.5	16
22	Effect of different microporous parameters on mechanical and frictional properties of M50 self-lubricating materials: simulation analysis and experimental study. <i>Materials Research Express</i> , <b>2019</b> , 6, 056502	1.7	2
21	Tribological Properties and Self-Repairing Functionality of Ti6Al4V-Multilayer Graphene-Ag Composites. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 3381-3392	1.6	8
20	Tribological performance of functionally gradient structure of graphene nanoplatelets reinforced Ni <sub>3</sub> Al metal matrix composites prepared by laser melting deposition. <i>Wear</i> , <b>2019</b> , 428-429, 417-429	3.5	15
19	Effect of Silver and Carbon Fiber on the Tribological Properties of M50 Matrix Composites Under Different Loads. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 1094-1102	1.6	2
18	The synergistic lubricating mechanism of Sn-Ag-Cu and C <sub>60</sub> on the worn surface of M50 self-lubricating material at elevated loads. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 271-284	5.7	26
17	Study on the thickness of lubricating film of M50-Ag self-lubricating composites. <i>Lubrication Science</i> , <b>2019</b> , 31, 11-20	1.3	8
16	Tribological Performance of Ni <sub>3</sub> Al Matrix Composites Synthesized by Laser Melt Deposition Under Different Scanning Velocities. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 1962-1972	1.6	8
15	The Sliding Wear and Friction Behavior of M50-Graphene Self-Lubricating Composites Prepared by Laser Additive Manufacturing at Elevated Temperature. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 985-996	1.6	8
14	Tribological Performance of Ni <sub>3</sub> Al Matrix Self-Lubricating Composites Containing Multilayer Graphene Prepared by Additive Manufacturing. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 167-175	1.6	14
13	Effect of Applied Load and Sliding Speed on Tribological Behavior of TiAl-Based Self-Lubricating Composites. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 194-201	1.6	4
12	Understanding Wear Interface Evolution to Overcome Friction and Restrain Wear of TiAl-10 wt%Ag Composite. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700637	3.5	0
11	A study of the friction layer of TiAl-10 wt.% Ag composite and the prediction model of friction and wear behaviors. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2018</b> , 232, 699-710	1.4	1
10	Tribological behavior and self-healing functionality of M50 material covered with surface micropores filled with Sn-Ag-Cu. <i>Tribology International</i> , <b>2018</b> , 128, 365-375	4.9	35

9	Effects of frictional heat on the tribological properties of Ni3Al matrix self-lubricating composite containing graphene nanoplatelets under different loads. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2018</b> , 232, 645-656	1.4	2
8	Tribological Performance of M50-Ag-TiC Self-Lubricating Composites at Elevated Temperature. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 3731-3741	1.6	4
7	The Sliding Wear and Frictional Behavior of M50-10 wt.%(Sn-Ag-Cu) Self-Lubricating Materials at Elevated Temperatures. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 4291-4299	1.6	7
6	Tribological Behavior of TiAl Metal Matrix Composite Brake Disk with TiC Reinforcement Under Dry Sliding Conditions. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 3457-3464	1.6	9
5	Investigation of Tribological Behaviors of TiAl-Multilayer Graphene-Microsphere Composites at Different Applied Loads. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 2305-2312	1.6	7
4	Multiwalled carbon nanotubes enhanced the friction layer evolution and self-lubricating property of TiAl-10 wt% Ag-1 wt% MWCNTs sample. <i>RSC Advances</i> , <b>2017</b> , 7, 40592-40599	3.7	3
3	Tribological Performance of Ni3Al Matrix Self-Lubricating Composites Containing Multilayer Graphene and Ti3SiC2 at Elevated Temperatures. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 4605-4614	1.6	6
2	Tribological behavior of M50-MoS2 self-lubricating composites from 150 to 450 °C. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 198, 145-153	4.4	27
1	Effect of Ti3SiC2 on Tribological Properties of M50 Matrix Self-Lubricating Composites from 25 to 450 °C. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 4595-4604	1.6	12