

# Jianqiao Hu

## List of Publications by Year in descending order

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14  
papers

189  
citations

1162889

8  
h-index

1058333

14  
g-index

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docs citations

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times ranked

251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adhesion-Free Thin-Film-Like Curvature Sensors Integrated on Flexible and Wearable Electronics for Monitoring Bending of Joints and Various Body Gestures. <i>Advanced Materials Technologies</i> , 2019, 4, 1800327.	3.0	41
2	Multiscale study of the dynamic friction coefficient due to asperity plowing. <i>Friction</i> , 2021, 9, 822-839.	3.4	19
3	Strain-Limiting Substrates Based on Nonbuckling, Prestrain-Free Mechanics for Robust Stretchable Electronics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	1.1	19
4	Investigations of shock-induced deformation and dislocation mechanism by a multiscale discrete dislocation plasticity model. <i>Computational Materials Science</i> , 2017, 131, 78-85.	1.4	17
5	Predicting the flow stress and dominant yielding mechanisms: analytical models based on discrete dislocation plasticity. <i>Scientific Reports</i> , 2019, 9, 20422.	1.6	15
6	Investigation of grain boundary and orientation effects in polycrystalline metals by a dislocation-based crystal plasticity model. <i>Computational Materials Science</i> , 2019, 159, 86-94.	1.4	15
7	Breakdown of Archard law due to transition of wear mechanism from plasticity to fracture. <i>Tribology International</i> , 2022, 173, 107660.	3.0	14
8	An overview of healthcare monitoring by flexible electronics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	2.0	11
9	An elasto-plastic contact model for conformal contacts between cylinders. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2020, 234, 1837-1845.	1.0	9
10	Effect of plasticity and adhesion on the stick-slip transition at nanoscale friction. <i>Tribology International</i> , 2021, 164, 107230.	3.0	9
11	Systematic study on the mechanical and electric behaviors of the nonbuckling interconnect design of stretchable electronics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	2.0	7
12	The effects of initial void and dislocation on the onset of plasticity in copper single crystals. <i>Journal of Applied Physics</i> , 2019, 126, 165104.	1.1	7
13	Atomistic study of shock Hugoniot in columnar nanocrystalline copper. <i>Computational Materials Science</i> , 2021, 197, 110635.	1.4	4
14	Pressure sensitivity of dislocation density in copper single crystals at submicron scale. <i>Materials Research Express</i> , 2018, 5, 016504.	0.8	2