

# Tianye Jin

## List of Publications by Year in descending order

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12  
papers

158  
citations

1478505

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h-index

1474206

9  
g-index

12  
all docs

12  
docs citations

12  
times ranked

198  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise and efficient surface flattening of polycrystalline diamond by normal-irradiated trochoidal femtosecond laser machining. <i>Journal of Manufacturing Processes</i> , 2022, 74, 456-464.	5.9	4
2	Nanotwinned diamond cutting tool processed by femtosecond pulsed laser milling with trochoidal trajectory. <i>Journal of Materials Processing Technology</i> , 2021, 294, 117115.	6.3	4
3	Fabrication of micro-pillar with high aspect ratio on monocrystalline diamond by galvanometer-assisted femtosecond laser milling. <i>Journal of Manufacturing Processes</i> , 2020, 60, 247-256.	5.9	8
4	Preparation of nanotwinned cBN cutting edge by combining mechanical lapping and ion beam polishing. <i>Diamond and Related Materials</i> , 2020, 105, 107801.	3.9	3
5	Atomic-scale observation of the deformation and failure of diamonds by in-situ double-tilt mechanical testing transmission electron microscope holder. <i>Science China Materials</i> , 2020, 63, 2335-2343.	6.3	8
6	Mechanical polishing of ultrahard nanotwinned diamond via transition into hard sp <sup>2</sup> -sp <sup>3</sup> amorphous carbon. <i>Carbon</i> , 2020, 161, 1-6.	10.3	33
7	On the effect of grain structure in micro-cutting of polycrystalline aluminate magnesium spinel (PAMS) crystals. <i>International Journal of Mechanical Sciences</i> , 2019, 160, 372-385.	6.7	15
8	Approaching diamond's theoretical elasticity and strength limits. <i>Nature Communications</i> , 2019, 10, 5533.	12.8	73
9	Material Removal Mechanism of Nanotwinned Cubic Boron Nitride by Femtosecond Laser Ablation. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2019, 55, 198.	0.5	0
10	Development of an ultrahard nanotwinned cBN micro tool for cutting hardened steel. <i>Science China Technological Sciences</i> , 2016, 59, 876-881.	4.0	10
11	Mechanical Lapping Mechanism of Nanotwinned Cubic Boron Nitride. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2016, 52, 95.	0.5	0
12	Study on machining mechanism of nanotwinned CBN cutting tool. , 2014, , .		0