Tianye Jin

List of Publications by Year
in descending order

12	158	1478505 6	1474206 9
papers	citations	h-index	g-index

12	12	12	198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Approaching diamondâ€™s theoretical elasticity and strength limits. Nature Communications, 2019, 10, 5533.	12.8	73
2	Mechanical polishing of ultrahard nanotwinned diamond via transition into hard sp2-sp3 amorphous carbon. Carbon, 2020, 161, 1-6.	10.3	33
3	On the effect of grain structure in micro-cutting of polycrystalline aluminate magnesium spinel (PAMS) crystals. International Journal of Mechanical Sciences, 2019, 160, 372-385.	6.7	15
4	Development of an ultrahard nanotwinned cBN micro tool for cutting hardened steel. Science China Technological Sciences, 2016, 59, 876-881.	4.0	10
5	Fabrication of micro-pillar with high aspect ratio on monocrystalline diamond by galvanometer-assisted femtosecond laser milling. Journal of Manufacturing Processes, 2020, 60, 247-256.	5.9	8
6	Atomic-scale observation of the deformation and failure of diamonds by in-situ double-tilt mechanical testing transmission electron microscope holder. Science China Materials, 2020, 63, 2335-2343.	6.3	8
7	Nanotwinned diamond cutting tool processed by femtosecond pulsed laser milling with trochoidal trajectory. Journal of Materials Processing Technology, 2021, 294, 117115.	6.3	4
8	Precise and efficient surface flattening of polycrystalline diamond by normal-irradiated trochoidal femtosecond laser machining. Journal of Manufacturing Processes, 2022, 74, 456-464.	5.9	4
9	Preparation of nanotwinned cBN cutting edge by combining mechanical lapping and ion beam polishing. Diamond and Related Materials, 2020, 105, 107801.	3.9	3
10	Study on machining mechanism of nanotwinned CBN cutting tool. , 2014, , .		0
11	Mechanical Lapping Mechanism of Nanotwinned Cubic Boron Nitride. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2016, 52, 95.	0.5	0
12	Material Removal Mechanism of Nanotwinned Cubic Boron Nitride by Femtosecond Laser Ablation. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2019, 55, 198.	0.5	0