

# Xinggang Jiang

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

846  
citations

623734

14  
h-index

713466

21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

552  
citing authors

#	ARTICLE	IF	CITATIONS
1	Delamination formation, evaluation and suppression during drilling of composite laminates: A review. <i>Composite Structures</i> , 2019, 216, 168-186.	5.8	294
2	Feasibility study of high-speed ultrasonic vibration cutting titanium alloy. <i>Journal of Materials Processing Technology</i> , 2017, 247, 111-120.	6.3	105
3	Study on rotary ultrasonic-assisted drilling of titanium alloys (Ti6Al4V) using 8-facet drill under no cooling condition. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 3249-3264.	3.0	66
4	Effects of rotary ultrasonic elliptical machining for side milling on the surface integrity of Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 1451-1465.	3.0	44
5	Study of Phase Shift Control in High-Speed Ultrasonic Vibration Cutting. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 2467-2474.	7.9	42
6	Fabrication of All-SiC Fiber-Optic Pressure Sensors for High-Temperature Applications. <i>Sensors</i> , 2016, 16, 1660.	3.8	37
7	Study on the separation effect of high-speed ultrasonic vibration cutting. <i>Ultrasonics</i> , 2018, 87, 166-181.	3.9	35
8	Feasibility study on ultrasonic-assisted drilling of CFRP/Ti stacks by single-shot under dry condition. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 1259-1273.	3.0	30
9	An analytical transient cutting force model of high-speed ultrasonic vibration cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 3929-3941.	3.0	27
10	Theory of Series Inductance Matching to Transducer at Premechanical Resonance Zone in Ultrasonic Vibration Cutting. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 3019-3029.	7.9	24
11	Influence of parameter matching on performance of high-speed rotary ultrasonic elliptical vibration-assisted machining for side milling of titanium alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 1333-1348.	3.0	22
12	Self-Compensation Theory and Design of Contactless Energy Transfer and Vibration System for Rotary Ultrasonic Machining. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 8650-8660.	7.9	19
13	Effect of speed ratio in edge routing of carbon fiber-reinforced plastics by rotary ultrasonic elliptical machining. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 1779-1790.	3.1	18
14	Improving anti-adhesion performance of electrosurgical electrode assisted with ultrasonic vibration. <i>Ultrasonics</i> , 2018, 84, 126-133.	3.9	17
15	Determining the optimal pre-tightening force of a sandwich transducer by measuring resonance resistance. <i>Applied Acoustics</i> , 2017, 118, 8-14.	3.3	14
16	Measurement of ultrasonic-frequency repetitive impulse cutting force signal. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 129, 653-663.	5.0	14
17	Feasibility study of wave-motion milling of carbon fiber reinforced plastic holes. <i>International Journal of Extreme Manufacturing</i> , 2021, 3, 010401.	12.7	14
18	High-Speed Rotary Ultrasonic Elliptical Milling of Ti-6Al-4V Using High-Pressure Coolant. <i>Metals</i> , 2020, 10, 500.	2.3	8

#	ARTICLE	IF	CITATIONS
19	Study on surface quality and tool life in ultrasonic vibration countersinking of titanium alloys (Ti6Al4V). International Journal of Advanced Manufacturing Technology, 2019, 103, 1119-1137.	3.0	7
20	Dynamic modelling and embryo zona pellucida perforation experiments with piezoelectric actuated micro-needles. , 2017, , .		3
21	Morphology and Mechanical Properties of Vibratory Organs in the Leaf-cutting Ant (Atta cephalotes). Journal of Bionic Engineering, 2018, 15, 722-730.	5.0	3
22	Deep Hole Drilling of Large-Diameter Titanium Alloy With a Novel Rotary Low-Frequency Vibration Device. IEEE Access, 2019, 7, 154872-154881.	4.2	3
23	A Water-Cooling Eletrome on Reducing Tissue Thermal Damage. , 2018, , .		0