Liang-Shan Xiong

List of Publications by Year
in descending order

14	115	6	10
papers	citations	h-index	g-index

1478505 (above h-index box)
1372567 (above g-index box)

16	16	16	75
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improvement of algorithm and prediction precision of an extended Oxley's theoretical model. International Journal of Advanced Manufacturing Technology, 2015, 77, 1-13.	3.0	28
2	A new methodology for designing a curve-edged twist drill with an arbitrarily given distribution of the cutting angles along the tool cutting edge. International Journal of Machine Tools and Manufacture, 2009, 49, 667-677.	13.4	20
3	An improved algorithm for McDowell's analytical model of residual stress. Frontiers of Mechanical Engineering, 2014, 9, 150-155.	4.3	13
4	Double-edged cutting simulation with a new combined constitutive model for AISI 1045 steel. Journal of Materials Processing Technology, 2022, 302, 117496.	6.3	11
5	The energy conservation optimization design of the cutting edges of the twist drill based on Dijkstra's algorithm. International Journal of Advanced Manufacturing Technology, 2016, 82, 889-900.	3.0	9
6	The formation mechanism and the influence factor of residual stress in machining. Frontiers of Mechanical Engineering, 2014, 9, 265-269.	4.3	8
7	Modeling of the catastrophe of chip flow angle in the turning with double-edged tool with arbitrary rake angle based on catastrophe theory. International Journal of Advanced Manufacturing Technology, 2019, 104, 2705-2714.	3.0	8
8	Theoretical modeling and experimental verification of chip flow angle catastrophe in double-edged cutting considering non-linear effects. International Journal of Mechanical Sciences, 2020, 172, 105394.	6.7	7
9	Grinding Wheel Parametric Design for Machining Arbitrary Grooves on the Helical Rake Face of the Tool. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 997-1008.	4.9	4
10	Experimental Modeling of the Bifurcation Set Equation of the Chip-Splitting Catastrophe in Symmetrical Straight Double-Edged Cutting. Metals, 2022, 12, 878.	2.3	3
11	Experimental research on the critical conditions and critical equation of chip splitting when turning a C45E4 disc workpiece symmetrically with a high-speed steel double-edged turning tool. Advances in Manufacturing, 0, , 1.	6.1	2
12	Improved analytical model for residual stress prediction in orthogonal cutting. Frontiers of Mechanical Engineering, 2014, 9, 249-256.	4.3	1
13	Regularization of mathematical model for chip flow angle catastrophe. Advances in Manufacturing, 2021, 9, 568.	6.1	1
14	Correction and accuracy improvement of non-parallel shear zone model. MATEC Web of Conferences, 2018, 207, 02002.	0.2	0