Sheng Liu

List of Publications by Year
in descending order

17 papers	358 citations	840776 11 h-index	888059 17 g-index
18 all docs	18 docs citations	18 times ranked	290 citing authors

#	Article	IF	Citations
1	A comparative investigation of damage models for fracture prediction in two-point incremental forming. International Journal of Advanced Manufacturing Technology, 2021, 112, 3069-3081.	3.0	3
2	Numerical and Experimental Investigation of the Bending Zone in Free U-Bending. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	2.2	2
3	On-line autonomous path optimization for multi-pass incremental forming using model predictive control. International Journal of Advanced Manufacturing Technology, 2021, 116, 3339-3353.	3.0	1
4	3D surface representation and trajectory optimization with a learning-based adaptive model predictive controller in incremental forming. Journal of Manufacturing Processes, 2020, 58, 796-810.	5.9	9
5	A model predictive path control algorithm of single-point incremental forming for non-convex shapes. International Journal of Advanced Manufacturing Technology, 2020, 107, 123-143.	3.0	13
6	Switched model predictive path control of incremental sheet forming for parts with varying wall angles. Journal of Manufacturing Processes, 2020, 53, 342-355.	5.9	11
7	Monitoring and modelling of false brinelling for railway bearings. Wear, 2019, 424-425, 151-164.	3.1	22
8	Dynamic response of a locomotive with AC electric drives to changes in friction conditions. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2017, 231, 90-103.	2.0	5
9	Part accuracy improvement in two point incremental forming with a partial die using a model predictive control algorithm. Precision Engineering, 2017, 49, 179-188.	3.4	28
10	Two-directional toolpath correction in single-point incremental forming using model predictive control. International Journal of Advanced Manufacturing Technology, 2017, 91, 91-106.	3.0	14
11	Model predictive control of incremental sheet forming for geometric accuracy improvement. International Journal of Advanced Manufacturing Technology, 2016, 82, 1781-1794.	3.0	38
12	Comparison of PI and fuzzy logic based sliding mode locomotive creep controls with change of rail-wheel contact conditions. International Journal of Rail Transportation, 2015, 3, 40-59.	2.7	12
13	Investigation of the impact of locomotive creep control on wear under changing contact conditions. Vehicle System Dynamics, 2015, 53, 692-709.	3.7	15
14	Efficient force prediction for incremental sheet forming and experimental validation. International Journal of Advanced Manufacturing Technology, 2014, 73, 571-587.	3.0	35
15	Multi-pass deformation design for incremental sheet forming: Analytical modeling, finite element analysis and experimental validation. Journal of Materials Processing Technology, 2014, 214, 620-634.	6.3	61
16	Modeling and Optimization of Surface Roughness in Incremental Sheet Forming using a Multi-objective Function. Materials and Manufacturing Processes, 2014, 29, 808-818.	4.7	73
17	A new tip area function for instrumented nanoindentation at extremely small contact depths. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7948-7951.	5.6	14