

# Zheng Sun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2059586/publications.pdf>

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23  
papers

176  
citations

1307594

7  
h-index

1125743

13  
g-index

23  
all docs

23  
docs citations

23  
times ranked

107  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced feedrate scheduling algorithm for CNC system with acceleration look-ahead and sin <sup>2</sup> acceleration profile. International Journal of Advanced Manufacturing Technology, 2022, 119, 217-231.	3.0	2
2	Remaining Useful Life Prediction of Ball Screw Under Time-Varying Conditions With Limited Data. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4057-4066.	5.8	4
3	Design and Optimization of a Novel Microchannel Battery Thermal Management System Based on Digital Twin. Energies, 2022, 15, 1421.	3.1	20
4	Digital Twin-Based Automated Guided Vehicle Scheduling: A Solution for Its Charging Problems. Applied Sciences (Switzerland), 2022, 12, 3354.	2.5	12
5	Remaining Useful Life Prediction of Ball Screw Using Precision Indicator. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	4
6	Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. IEEE Internet of Things Journal, 2021, 8, 6940-6948.	8.7	27
7	Fabrication of PCD Skiving Cutter by UV Nanosecond Laser. Materials, 2021, 14, 4027.	2.9	5
8	Influence of Pulse Energy and Scanning Speed of Femtosecond Laser on Surface Roughness of SiC Ceramics. Integrated Ferroelectrics, 2021, 219, 20-27.	0.7	7
9	Study on Micromachining of Polycrystalline Diamond by UV Nanosecond Laser. Integrated Ferroelectrics, 2021, 219, 28-38.	0.7	3
10	Erratum to "Remaining Useful Life Prediction of Ball Screw Using Precision Indicator"[2021 Art. no. 3519509]. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-3.	4.7	3
11	Ablation Threshold Measurement and Chemical Modification of UV Nanosecond Laser Micromachining of Polycrystalline Diamond. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100450.	1.8	1
12	A Novel Smart Production Line Data Perception System Based on OPC UA. , 2021, , .		0
13	Ablation Threshold Measurement and Chemical Modification of UV Nanosecond Laser Micromachining of Polycrystalline Diamond. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, .	1.8	0
14	Remaining useful life prediction for machinery by establishing scaled-corrected health indicators. Measurement: Journal of the International Measurement Confederation, 2020, 163, 108035.	5.0	22
15	Orderings of a class of trees with respect to the Merrifield-Simmons index and the Hosoya index. Journal of Combinatorial Optimization, 2019, 38, 1286-1295.	1.3	4
16	A Short-term Motion Prediction Approach for Guaranteed Collision-Free Planning. , 2019, , .		1
17	A Novel Deep Learning Approach for Machinery Prognostics Based on Time Windows. Applied Sciences (Switzerland), 2019, 9, 4813.	2.5	17
18	A novel cascade control principle for feed drives of machine tools. CIRP Annals - Manufacturing Technology, 2018, 67, 389-392.	3.6	16

#	ARTICLE	IF	CITATIONS
19	A new control principle to increase the bandwidth of feed drives with large inertia ratio. International Journal of Advanced Manufacturing Technology, 2017, 91, 1747-1752.	3.0	5
20	Enhancement of feed drive dynamics using additional table speed feedback. CIRP Annals - Manufacturing Technology, 2016, 65, 357-360.	3.6	13
21	Generation of rotation matrix for assembly models with arbitrary angle constraints. International Journal of Advanced Manufacturing Technology, 2014, 74, 563-568.	3.0	4
22	Efficient Combination of Topology and Parameter Optimization. Open Journal of Optimization, 2014, 03, 19-25.	0.1	5
23	Component oriented and automatic generation of FE models for parallel kinematics. Production Engineering, 2013, 7, 233-237.	2.3	1