

Seung-Han Yang

List of Publications by Year in descending order

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89
papers

1,440
citations

394286

19
h-index

360920

35
g-index

89
all docs

89
docs citations

89
times ranked

780
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement and verification of position-independent geometric errors of a five-axis machine tool using a double ball-bar. <i>International Journal of Machine Tools and Manufacture</i> , 2013, 70, 45-52.	6.2	118
2	Accuracy improvement of miniaturized machine tool: Geometric error modeling and compensation. <i>International Journal of Machine Tools and Manufacture</i> , 2006, 46, 1508-1516.	6.2	94
3	Optimization of electric discharge machining using simulated annealing. <i>Journal of Materials Processing Technology</i> , 2009, 209, 4471-4475.	3.1	94
4	Statistical optimization and assessment of a thermal error model for CNC machine tools. <i>International Journal of Machine Tools and Manufacture</i> , 2002, 42, 147-155.	6.2	85
5	Robust measurement method and uncertainty analysis for position-independent geometric errors of a rotary axis using a double ball-bar. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 231-239.	1.1	77
6	Identification and measurement of geometric errors for a five-axis machine tool with a tilting head using a double ball-bar. <i>International Journal of Precision Engineering and Manufacturing</i> , 2011, 12, 337-343.	1.1	75
7	Parametric modeling and estimation of geometric errors for a rotary axis using double ball-bar. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 62, 741-750.	1.5	73
8	Optimization of multi-pass turning using particle swarm intelligence. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 40, 56-66.	1.5	71
9	Error analysis and compensation for the volumetric errors of a vertical machining centre using a hemispherical helix ball bar test. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 23, 495-500.	1.5	52
10	Measurement of spindle thermal errors in machine tool using hemispherical ball bar test. <i>International Journal of Machine Tools and Manufacture</i> , 2004, 44, 333-340.	6.2	43
11	A new optical measurement system for determining the geometrical errors of rotary axis of a 5-axis miniaturized machine tool. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 175-179.	0.7	35
12	Compensation of position-independent and position-dependent geometric errors in the rotary axes of five-axis machine tools with a tilting rotary table. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 1677-1685.	1.5	31
13	MATHEMATICAL APPROACH AND GENERAL FORMULATION FOR ERROR SYNTHESIS MODELING OF MULTI-AXIS SYSTEM. <i>International Journal of Modern Physics B</i> , 2010, 24, 2737-2742.	1.0	29
14	Accuracy evaluation of machine tools by modeling spherical deviation based on double ball-bar measurements. <i>International Journal of Machine Tools and Manufacture</i> , 2013, 75, 46-54.	6.2	26
15	A new approach for Micro-WEDM control based on Real-Time estimation of material removal rate. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 241-246.	1.1	25
16	Kerf analysis and control in dry micro-wire electrical discharge machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 78, 1803-1812.	1.5	25
17	Development of an optical measuring system for integrated geometric errors of a three-axis miniaturized machine tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 43, 701-709.	1.5	21
18	Design of jerk bounded feedrate with ripple effect for adaptive nurbs interpolator. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 37, 545-552.	1.5	20

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19	Fast and precision NURBS interpolator for CNC systems. International Journal of Precision Engineering and Manufacturing, 2012, 13, 955-961.	1.1	20
20	Delamination characterization of bonded interface in polymer coated steel using surface based cohesive model. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1755-1765.	1.1	20
21	Total measurement of geometric errors of a three-axis machine tool by developing a hybrid technique. International Journal of Precision Engineering and Manufacturing, 2016, 17, 427-432.	1.1	20
22	Precision NURBS interpolator based on recursive characteristics of NURBS. International Journal of Advanced Manufacturing Technology, 2013, 65, 403-410.	1.5	19
23	The optimal design of a measurement system to measure the geometric errors of linear axes. International Journal of Advanced Manufacturing Technology, 2013, 66, 141-149.	1.5	18
24	Identification of inherent position-independent geometric errors for three-axis machine tools using a double ballbar with an extension fixture. International Journal of Advanced Manufacturing Technology, 2019, 102, 2967-2976.	1.5	18
25	Assessment of chip-breaking characteristics using new chip-breaking index. Journal of Materials Processing Technology, 2006, 173, 166-171.	3.1	17
26	Optimal On-Machine Measurement of Position-Independent Geometric Errors for Rotary Axes in Five-Axis Machines with a Universal Head. International Journal of Precision Engineering and Manufacturing, 2018, 19, 545-551.	1.1	17
27	Study of energy distribution to electrodes in a micro-EDM process by utilizing the electro-thermal model of single discharges. Journal of Mechanical Science and Technology, 2015, 29, 349-356.	0.7	16
28	Analysis of squareness measurement using a laser interferometer system. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1839-1846.	1.1	15
29	Analysis of eccentricity in the ball bar measurement. Journal of Mechanical Science and Technology, 2010, 24, 271-274.	0.7	14
30	Techniques for measuring and compensating for servo mismatch in machine tools using a laser tracker. International Journal of Advanced Manufacturing Technology, 2017, 92, 2919-2928.	1.5	14
31	Abrasive wear behaviour of thermoplastic copolyester elastomer composites: A statistical approach. International Journal of Precision Engineering and Manufacturing, 2016, 17, 755-763.	1.1	13
32	Parallelism error measurement for the spindle axis of machine tools by two circular tests with different tool lengths. International Journal of Advanced Manufacturing Technology, 2017, 88, 2883-2887.	1.5	13
33	Development of compact three-degrees-of-freedom compensation system for geometric errors of an ultra-precision linear axis. Mechanism and Machine Theory, 2016, 99, 72-82.	2.7	12
34	A Multi-Axis Contour Error Controller for Free Form Curves. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2004, 47, 144-149.	0.3	11
35	Circular tests for accurate performance evaluation of machine tools via an analysis of eccentricity. International Journal of Precision Engineering and Manufacturing, 2014, 15, 2499-2506.	1.1	11
36	Prediction of forming limit curve for pure titanium sheet. Transactions of Nonferrous Metals Society of China, 2018, 28, 319-327.	1.7	11

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37	Fault diagnosis and recovery for a CNC machine tool thermal error compensation system. <i>Journal of Manufacturing Systems</i> , 2001, 19, 428-434.	7.6	10
38	Interim check and practical accuracy improvement for machine tools with sequential measurements using a double ball-bar on a virtual regular tetrahedron. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 1527-1536.	1.5	10
39	A technique for accuracy improvement of squareness estimation using a double ball-bar. <i>Measurement Science and Technology</i> , 2014, 25, 094009.	1.4	9
40	Development of thermal error model with minimum number of variables using fuzzy logic strategy. <i>Journal of Mechanical Science and Technology</i> , 2001, 15, 1482-1489.	0.4	8
41	Application of RRT-based local Path Planning Algorithm in Unknown Environment. , 2007, , .		8
42	DESIGN OF A 5-AXIS MACHINE TOOL CONSIDERING GEOMETRIC ERRORS. <i>International Journal of Modern Physics B</i> , 2010, 24, 2484-2489.	1.0	8
43	Effect of Plastic Anisotropy on the Formability of Aluminum 6016-T4 Sheet Material. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2017, 30, 625-631.	1.9	8
44	Face- and Body-Diagonal Length Tests using a Double Ball-Bar for Squareness Errors of Machine Tools. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 1039-1045.	1.1	8
45	Identification of 11 position-independent geometric errors of a five-axis machine tool using 3D geometric sensitivity analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 3271-3282.	1.5	8
46	A Study on Particular Abnormal Gait Using Accelerometer and Gyro Sensor. <i>Journal of the Korean Society for Precision Engineering</i> , 2012, 29, 1199-1206.	0.1	8
47	Ultrasonic based method for damage identification in composite materials. <i>International Journal of Mechanics and Materials in Design</i> , 2012, 8, 297-309.	1.7	7
48	Analytic approaches for keeping high braking efficiency and clamping efficiency of electro wedge brakes. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 1609-1615.	1.1	7
49	Machine tool analyzer: a device for identifying 13 position-independent geometric errors for five-axis machine tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 2945.	1.5	7
50	Improvement of Product Accuracy in Freeform Surface Machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2003, 21, 972-979.	1.5	6
51	Three-Dimensional Rigid-Plastic FEM Simulation of Metal Forming Processes. <i>Journal of Materials Engineering and Performance</i> , 2006, 15, 275-279.	1.2	6
52	Performance evaluation of five-DOF motion in ultra-precision linear stage. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 129-134.	1.1	6
53	Development of machine vision system and dimensional analysis of the automobile front-chassis-module. <i>Journal of Mechanical Science and Technology</i> , 2004, 18, 2209-2215.	0.4	4
54	Error compensation method for a gantry robot and a laser-vision sensor-based chassis module measurement system. <i>International Journal of Advanced Manufacturing Technology</i> , 2005, 27, 329-333.	1.5	3

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55	Mechanism design and dynamic analysis of a multi-functional endoscopic clipping device. Journal of Mechanical Science and Technology, 2013, 27, 805-811.	0.7	3
56	Roll error measurement system for linear moving stages using four capacitance sensors. International Journal of Advanced Manufacturing Technology, 2016, 84, 2579-2587.	1.5	3
57	Analytical Sensitivity Analysis of Geometric Errors in a Three-Axis Machine Tool. Transactions of the Korean Society of Mechanical Engineers, A, 2012, 36, 165-171.	0.1	3
58	A Dual Difference Method for Identification of the Inherent Spindle Axis Parallelism Errors of Machine Tools. International Journal of Precision Engineering and Manufacturing, 2022, 23, 701-710.	1.1	3
59	Compensation of installation errors in a laser vision system and dimensional inspection of automobile chassis. Journal of Mechanical Science and Technology, 2006, 20, 437-446.	0.7	2
60	Development of nanopositioning mechanism with real-time compensation algorithm to improve the positional accuracy of a linear stage. Precision Engineering, 2017, 50, 328-336.	1.8	2
61	Sequential Measurement of Position-independent Geometric Errors in the Rotary and Spindle Axes of a Hybrid Parallel Kinematic Machine. International Journal of Precision Engineering and Manufacturing, 2020, 21, 2391-2398.	1.1	2
62	An Alignment Method for a TCP Position of Five-Axis Machine Tools for ISO 10791-6. Journal of the Korean Society for Precision Engineering, 2021, 38, 53-60.	0.1	2
63	Experimental Study and Process Optimization for Vibration-assisted Dry Micro-WEDM. Journal of the Korean Society for Precision Engineering, 2014, 31, 215-222.	0.1	2
64	Interim Check and Compensation of Geometric Errors to Improve Volumetric Error of Machine Tools. Journal of the Korean Society for Precision Engineering, 2018, 35, 623-627.	0.1	2
65	Determination and mapping of measurement and design coordinate systems using computational geometric techniques. International Journal of Advanced Manufacturing Technology, 2005, 26, 819-824.	1.5	1
66	STRUCTURAL MODELING AND SIMULATION OF MINIATURIZED MACHINE TOOL: 3-AXIS VERTICAL MICRO-END-MILLING SYSTEM. International Journal of Modern Physics B, 2006, 20, 3811-3816.	1.0	1
67	DEVELOPMENT OF AN OPTICAL MEASURING SYSTEM FOR GEOMETRIC ERRORS OF A MINIATURIZED MACHINE TOOL. International Journal of Modern Physics B, 2006, 20, 3739-3744.	1.0	1
68	Dynamic and kinematic analysis of 6-bar parallel robot. , 2013, , .		1
69	Compensation of position-independent geometric errors of an index table by linear axes circular tests at different angular positions. International Journal of Advanced Manufacturing Technology, 2015, 84, 981.	1.5	1
70	Approaches for precision brake systems by using tire pressure measurement sensors. , 2015, , .		1
71	Development and Performance Evaluation of a Fine Stage for Compensating 6-DOF Motion Errors of an Ultra-Precision Linear Stage. Journal of the Korean Society for Precision Engineering, 2021, 38, 123-129.	0.1	1
72	Accuracy Improvement of On-Machine Measurement for the Parallel Kinematic Machine Considering Constraint Motion. Journal of the Korean Society for Precision Engineering, 2019, 36, 463-469.	0.1	1

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73	Analysis for the Squareness Measurement using Laser Interferometer. Journal of the Korean Society for Precision Engineering, 2012, 29, 863-872.	0.1	1
74	Conical Path Generation Technique for Ball Bar Measurement Using Simultaneous 5-Axis Motion Control. Transactions of the Korean Society of Mechanical Engineers, A, 2013, 37, 97-103.	0.1	1
75	Measurement Method for Geometric Errors of Ultra-precision Roll Mold Machine Tool: Simulation. Journal of the Korean Society for Precision Engineering, 2013, 30, 1087-1093.	0.1	1
76	Performance Evaluation of Five-DOF Motion under Static and Dynamic Conditions of Ultra-precision Linear Stage. Journal of the Korean Society for Precision Engineering, 2014, 31, 423-430.	0.1	1
77	Hybrid algorithm for determination of dimensional accuracy of automobile front chassis module using laser measurement data. Journal of Manufacturing Systems, 2005, 24, 122-130.	7.6	0
78	The Improved Reversal Method for Measurement of Geometric Error in Linear Manipulator of Ultra Precision. , 2013, , .		0
79	Development of a planar 3-DOF nano-positioning stage for compensation of the geometric error in a linear axis. , 2016, , .		0
80	Improved accuracy of an FDM 3D printer using a face-diagonal length test using an artifact and a Vernier caliper. Rapid Prototyping Journal, 2021, ahead-of-print, .	1.6	0
81	A Novel Reversal Method for Measurement of Rotary Manipulator Geometric Errors. , 2021, , .		0
82	NURBS Interpolator for Improved High Speed Machining using Minimum Time Method. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2007, 2007.4, 7D410.	0.0	0
83	C36 Calibration for Geometric Error Measurement System of Rotary Axis of a 5-axis Miniaturized Machine Tool(Evaluation of machine tool performance). Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2009, 2009.5, 751-754.	0.0	0
84	Kinematics Analysis of a 2-DOF Parallel Manipulator. Journal of the Korean Society for Precision Engineering, 2012, 29, 64-71.	0.1	0
85	Circular Path Generation Technique for Ball Bar Measurement by Simultaneous Movement of Two Axes. Transactions of the Korean Society of Mechanical Engineers, A, 2013, 37, 783-790.	0.1	0
86	The New Measurement Technique based on Reversal Method to Measure the Squareness Error of Two-Linear Axes System. Journal of the Korean Society for Precision Engineering, 2019, 36, 89-94.	0.1	0
87	Parallelism Error Compensation of a Large Volume Laser Machining Robot using a Laser Interferometer. Journal of the Korean Society for Precision Engineering, 2019, 36, 975-982.	0.1	0
88	Flexible Post-Process Machining of the Directed Energy Deposition (DED) Printed Part through the On-Machine Measurement. Journal of the Korean Society for Precision Engineering, 2020, 37, 881-888.	0.1	0
89	A TCP Calibration of a 6-Axis Manipulator and Geometric Errors Identification of a Tilting-Rotary Table. Journal of the Korean Society for Precision Engineering, 2022, 39, 253-261.	0.1	0