

Sun-Kyu Lee

List of Publications by Year in descending order

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59
papers

1,035
citations

394286

19
h-index

477173

29
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59
all docs

59
docs citations

59
times ranked

752
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of thermo-elastic behavior in a spindle-bearing system considering bearing surroundings. <i>International Journal of Machine Tools and Manufacture</i> , 2001, 41, 809-831.	6.2	83
2	An approach based on wavelet packet decomposition and Hilbert-Huang transform (WPD-HHT) for spindle bearings condition monitoring. <i>Mechanical Systems and Signal Processing</i> , 2012, 33, 197-211.	4.4	66
3	Wheel curve generation error of aspheric microgrinding in parallel grinding method. <i>International Journal of Machine Tools and Manufacture</i> , 2006, 46, 1929-1933.	6.2	54
4	A closed-form solution to the direct kinematics of nearly general parallel manipulators with optimally located three linear extra sensors. <i>IEEE Transactions on Automation Science and Engineering</i> , 2001, 17, 148-156.	2.4	52
5	Design and construction of a single unit multi-function optical encoder for a six-degree-of-freedom motion error measurement in an ultraprecision linear stage. <i>Measurement Science and Technology</i> , 2011, 22, 105901.	1.4	47
6	Effect of thermal deformation on machine tool slide guide motion. <i>Tribology International</i> , 2003, 36, 41-47.	3.0	43
7	Multi-degree-of-freedom motion error measurement in an ultraprecision machine using laser encoder - Review. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 141-152.	0.7	37
8	Effect of bearing support structure on the high-speed spindle bearing compliance. <i>International Journal of Machine Tools and Manufacture</i> , 2002, 42, 365-373.	6.2	34
9	Nano Positioning of a High Power Ultrasonic Linear Motor. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 5687.	0.8	33
10	Cross-coupling effect of large range XY nanopositioning stage fabricated by stereolithography process. <i>Precision Engineering</i> , 2016, 46, 81-87.	1.8	30
11	LED beam shaping lens based on the near-field illumination. <i>Optics Express</i> , 2009, 17, 23449.	1.7	28
12	Ultraprecision XY stage using a hybrid bolt-clamped Langevin-type ultrasonic linear motor for continuous motion. <i>Review of Scientific Instruments</i> , 2015, 86, 015111.	0.6	28
13	Modeling of reflection-type laser-driven white lighting considering phosphor particles and surface topography. <i>Optics Express</i> , 2015, 23, 18872.	1.7	28
14	Characterization of fiber-optic light delivery and light-induced temperature changes in a rodent brain for precise optogenetic neuromodulation. <i>Biomedical Optics Express</i> , 2016, 7, 4450.	1.5	28
15	Uncertainty investigation of grating interferometry in six degree-of-freedom motion error measurements. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012, 13, 1509-1515.	1.1	24
16	Novel design and sensitivity analysis of displacement measurement system utilizing knife edge diffraction for nanopositioning stages. <i>Review of Scientific Instruments</i> , 2014, 85, 095113.	0.6	23
17	Effect of the Fiber Orientation and the Radial Depth of Cut on the Flank Wear in End Milling of CFRP. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020, 21, 1187-1199.	1.1	22
18	Effect of joint conditions on the dynamic behavior of a grinding wheel spindle. <i>International Journal of Machine Tools and Manufacture</i> , 2001, 41, 1749-1761.	6.2	21

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19	Positioning control effectiveness of optical knife edge displacement sensor-embedded monolithic precision stage. <i>Sensors and Actuators A: Physical</i> , 2015, 233, 390-396.	2.0	21
20	Miniaturized TIR Fresnel lens for miniature optical LED applications. <i>International Journal of Precision Engineering and Manufacturing</i> , 2009, 10, 137-140.	1.1	20
21	Motion error estimation of slide table on the consideration of guide parallelism and pad deflection. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 1935-1946.	1.1	19
22	Image-Based Inspection Technique of a Machined Metal Surface for an Unmanned Lapping Process. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 7, 547-557.	2.7	18
23	Design and Characterization of a High Resolution Microfluidic Heat Flux Sensor with Thermal Modulation. <i>Sensors</i> , 2010, 10, 6594-6611.	2.1	17
24	Optimizing the fabrication process of a high-efficiency blazed grating through diamond scribing and molding. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 055028.	1.5	17
25	Compact Thermal Network Model of the Thermal Interface Material Measurement Apparatus With Multi-Dimensional Heat Flow. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2011, 1, 1186-1194.	1.4	15
26	Phase-locked loop based on machine surface topography measurement using lensed fibers. <i>Applied Optics</i> , 2011, 50, 460.	2.1	15
27	Influence of a high vacuum on the precise positioning using an ultrasonic linear motor. <i>Review of Scientific Instruments</i> , 2011, 82, 015112.	0.6	15
28	Precise contour motion of XY stage driven by ultrasonic linear motors in a high vacuum environment. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016, 17, 293-301.	1.1	15
29	Machining error compensation of external cylindrical grinding using thermally actuated rest. <i>Mechatronics</i> , 2002, 12, 643-656.	2.0	13
30	Micro-patterning technique using a rotating cutting tool controlled by an electromagnetic actuator. <i>International Journal of Machine Tools and Manufacture</i> , 2016, 101, 52-64.	6.2	13
31	Design of retrodiffraction gratings for polarization-insensitive and polarization-sensitive characteristics by using the Taguchi method. <i>Applied Optics</i> , 2008, 47, 3246.	2.1	12
32	Rolling bearing-suspended spindle run-out control using repetitive control and adaptive feedforward cancellation. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 2171-2178.	1.1	12
33	High order diffraction grating using v-shaped groove with refractive and reflective surfaces. <i>Optics Express</i> , 2008, 16, 21004.	1.7	11
34	An approach to monitoring the thermomechanical behavior of a spindle bearing system using acoustic emission (AE) energy. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1169-1175.	1.1	11
35	Liquid Cooling of Laser-driven Head Light Employing Heat Spreader Manufactured by 3D Metal Printing. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018, 5, 295-301.	2.7	9
36	Highly Efficient and Highly Conductive Phosphor-in-Glass Materials for Use in LD-Driven White-Light Lamp. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 293-303.	2.7	9

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37	Modeling and fabrication of thin film thermopile sensor. Journal of Vacuum Science & Technology B, 2009, 27, 1466-1472.	1.3	8
38	Ultraprecision Machining-based Micro-Hybrid lens design for micro scanning devices. International Journal of Precision Engineering and Manufacturing, 2015, 16, 639-646.	1.1	8
39	Design and fabrication of a light emitting diode-based diffuser sheet-less light guide plate for lighting applications. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1017-1022.	1.1	7
40	Suppression of the inflection pattern in ultraprecision grinding through the minimization of the hydrodynamic force using a toothed wheel. International Journal of Machine Tools and Manufacture, 2016, 100, 105-115.	6.2	7
41	Thermal characterization of a bio sample using a heat flux sensor-based multipurpose AC microcalorimeter. Applied Thermal Engineering, 2016, 104, 193-202.	3.0	6
42	Gantry type Lapping Manipulator toward Unmanned Lapping Process for a Large Work Surface. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 1723-1737.	2.7	6
43	A simple new closed-form solution of the direct kinematics of parallel manipulators using three linear extra sensors. , 1999, , .		5
44	Beam alignment with the axis of a rotation stage for laser fabrication of microcircular structures. Optics and Laser Technology, 2004, 36, 401-408.	2.2	5
45	Design and fabrication of a fingerprint imager with compact LED illumination and compact imaging optics. Optics Express, 2010, 18, 18932.	1.7	5
46	Suppression of thermal crown of heating roll for large area thermal imprint with consideration of thermal resistance between roll and shaft. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 315-323.	2.7	5
47	Estimation of thermal parameters of the enclosed electronic package system by using dynamic thermal response. Mechatronics, 2009, 19, 1034-1040.	2.0	4
48	Micro-optical pattern-based selective transmission mechanism. Applied Optics, 2016, 55, 2457.	2.1	4
49	Surface finish improvement using a damping-alloy sleeve-insert tool holder in the end milling process. International Journal of Advanced Manufacturing Technology, 2020, 106, 2433-2449.	1.5	4
50	Characterization of Thermal Contact Resistance Doped with Thermal Interface Material. Journal of the Korean Society for Precision Engineering, 2013, 30, 943-950.	0.1	4
51	The effect of Ti adhesion layer on the thermoelectric noise of a high resolution thermopile for nanowatt heat flux sensor. International Journal of Precision Engineering and Manufacturing, 2014, 15, 2391-2396.	1.1	3
52	Modeling of an electromagnetically actuated spindle system considering bidirectional bearing compliance. , 2005, , .		2
53	Development of a Thermal Switch Using the Channel Geometry Effect for Electronic Packages. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 100-105.	1.4	2
54	Investigation of surface uniformity machined by ceramic brush. International Journal of Advanced Manufacturing Technology, 2018, 94, 2593-2603.	1.5	2

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55	Compact Measurement of the Optical Power in High-Power LED Using a Light-Absorbent Thermal Sensor. Sensors, 2021, 21, 4690.	2.1	2
56	Field surface roughness levelling of the lapping metal surface using specular white light. International Journal of Advanced Manufacturing Technology, 2022, 119, 2895-2909.	1.5	2
57	Real-time estimation of time-dependent heat flux for 3D finite domain employing thermal mode and recursive least square deconvolution. International Journal of Heat and Mass Transfer, 2019, 144, 118622.	2.5	1
58	Fabrication of LED based Ultra Slim Optical Pointing Device. , 2010, , .		0
59	Thermal dynamic modeling of laser diode cooling system considering surrounding ambient condition. , 2016, , .		0