

Sung-Ki Lyu

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

612
citations

687363

13
h-index

752698

20
g-index

70
all docs

70
docs citations

70
times ranked

424
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Speed Spiral Bevel GEAR Dynamic Rules Considering the Impact of Web Thicknesses and Angles. Applied Sciences (Switzerland), 2022, 12, 3084.	2.5	3
2	Research on Identification Method for Interface Flange in Automatic Docking System of Fluid Loading and Unloading Arm for Bottom Loading. Applied Sciences (Switzerland), 2022, 12, 3037.	2.5	1
3	A study on the fracture characteristics of tapered double cantilever beams made of heterogeneous composites with adhesive interfaces. Journal of Mechanical Science and Technology, 2021, 35, 99-105.	1.5	0
4	Design and Numerical Simulation-Based Optimization of a Novel Flat-Face Coupling System for Hydraulic Power Equipment. Applied Sciences (Switzerland), 2021, 11, 388.	2.5	7
5	Advancement of Mechanical Engineering in Extreme Environments. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 1767-1782.	4.9	13
6	Numerical Investigation of Flow Characteristics in a Viscous Damping System with Symmetrical Hydraulic Cylinders. International Journal of Precision Engineering and Manufacturing, 2021, 22, 579-597.	2.2	6
7	Effective strut-based design approach of multi-shaped lattices using equivalent material properties. Journal of Mechanical Science and Technology, 2021, 35, 1609-1622.	1.5	6
8	Numerical investigation of the mechanical component design of a hexacopter drone for real-time fine dust monitoring. Journal of Mechanical Science and Technology, 2021, 35, 3101-3111.	1.5	5
9	Study on design and processing performance verification of a 600 dpi f-theta lens. Journal of Mechanical Science and Technology, 2021, 35, 5643-5653.	1.5	0
10	Improvement on the Structure Design of a Kind of Linear Piezoelectric Motor with Flexible Drive-Foot. International Journal of Precision Engineering and Manufacturing, 2020, 21, 81-89.	2.2	6
11	Theoretical Design of a Novel Vibration Energy Absorbing Mechanism for Cables. Applied Sciences (Switzerland), 2020, 10, 5309.	2.5	9
12	A Novel Trunk Rehabilitation Robot Based Evaluation of Seated Balance Under Varying Seat Surface and Visual Conditions. IEEE Access, 2020, 8, 204902-204913.	4.2	7
13	A Study on the Design and Simulation of a 600 dpi Master F-Theta Lens. Journal of the Korean Society for Precision Engineering, 2020, 37, 399-405.	0.2	0
14	Fatigue Life Analysis and Experimental Study of the Input Shaft of 6-Speed Automatic Transmission. Journal of the Korean Society for Precision Engineering, 2020, 37, 607-613.	0.2	0
15	Experimentally Validated Geometry Modification Simulation for Improving Noise Performance of CVT Gearbox for Vehicles. International Journal of Precision Engineering and Manufacturing, 2019, 20, 1969-1977.	2.2	10
16	A Study on Simulation Based Validation of Optimized Design of High Precision Rotating Unit for Processing Machinery. International Journal of Precision Engineering and Manufacturing, 2019, 20, 1601-1609.	2.2	8
17	Design and evaluation of two-stage planetary gearbox for special-purpose industrial machinery. Journal of Mechanical Science and Technology, 2019, 33, 5943-5950.	1.5	14
18	A Study on the Optimal Design of Drive Gear for Transfer Gearbox. Journal of the Korean Society for Precision Engineering, 2019, 36, 121-126.	0.2	0

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19	A Wearable Reaction Wheel based Kinesthetic Biofeedback Device for Delivery of Balance Cues. , 2019, , .		2
20	Effect of Dome Curvature on Failure Mode of Type4 Composite Pressure Vessel. International Journal of Precision Engineering and Manufacturing, 2018, 19, 405-410.	2.2	15
21	Design of anti-vibration mounting for 140A class alternator for vehicles. Journal of Mechanical Science and Technology, 2018, 32, 5233-5239.	1.5	12
22	A Review of Recent Advances in Design Optimization of Gearbox. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1753-1762.	2.2	29
23	Level Set Based Path Planning Using a Novel Path Optimization Algorithm for Robots. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1331-1338.	2.2	5
24	Research on Meshfree method for analyzing seal behavior of a T-DGS. International Journal of Precision Engineering and Manufacturing, 2017, 18, 529-536.	2.2	6
25	The combination bounce back model for Lattice Boltzmann Method and its application on gas flow in micro machinery. International Journal of Precision Engineering and Manufacturing, 2017, 18, 203-209.	2.2	0
26	A simulation analysis and experimental research on T groove end face seal under mid-and-low speed. International Journal of Precision Engineering and Manufacturing, 2017, 18, 537-543.	2.2	8
27	Evaluation on dry sliding wear behavior of (TiB+TiC)/Ti-6Al-4V matrix composite. International Journal of Precision Engineering and Manufacturing, 2017, 18, 1139-1146.	2.2	13
28	A study on major factors influencing dry cutting temperature of AISI 304 stainless steel. International Journal of Precision Engineering and Manufacturing, 2017, 18, 1387-1392.	2.2	16
29	A Study on the Development of a Hybrid Fiber Reinforced Composite for a Type 4 CNG Vessel. Journal of the Korean Society of Manufacturing Process Engineers, 2017, 16, 97-103.	0.2	4
30	A study on cycling life and failure mode of type3 cylinder treated with autofrettage pressure. International Journal of Precision Engineering and Manufacturing, 2016, 17, 1685-1691.	2.2	4
31	Immersed boundary-finite difference lattice Boltzmann method using the feedback forcing scheme to simulate the incompressible flows. International Journal of Precision Engineering and Manufacturing, 2016, 17, 1049-1057.	2.2	1
32	Grid independence in the study of boundary layer and its application in Hypergolic Propellants. International Journal of Precision Engineering and Manufacturing, 2016, 17, 887-895.	2.2	1
33	Performance of ion plating TiAlN coating on YG8. International Journal of Precision Engineering and Manufacturing, 2016, 17, 195-201.	2.2	2
34	Shifting process control for two-speed automated mechanical transmission of pure electric vehicles. International Journal of Precision Engineering and Manufacturing, 2016, 17, 623-629.	2.2	24
35	Numerical study of shock/vortex interaction in diatomic gas flows. International Journal of Precision Engineering and Manufacturing, 2016, 17, 27-34.	2.2	3
36	Calibration algorithm of mobile robot vision camera. International Journal of Precision Engineering and Manufacturing, 2016, 17, 51-57.	2.2	3

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37	A Study on the Design of a Gear Transmission Error Test Rig. Journal of the Korean Society of Manufacturing Process Engineers, 2016, 15, 14-19.	0.2	4
38	Study on modular modeling and performance evaluation of a conical gear for marine transmission system. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1123-1128.	2.2	4
39	Experimental research on a hypersonic configuration with blunt forebody edges. International Journal of Precision Engineering and Manufacturing, 2015, 16, 2115-2120.	2.2	4
40	Three-dimensional building-cube method for inviscid compressible flow computations. International Journal of Precision Engineering and Manufacturing, 2015, 16, 2673-2681.	2.2	4
41	Quasi-Steady-State scheme and application on prewhirl flow and heat transfer in aeroengine. International Journal of Precision Engineering and Manufacturing, 2015, 16, 343-350.	2.2	6
42	Optimization scheme of genetic algorithm and its application on aeroengine fault diagnosis. International Journal of Precision Engineering and Manufacturing, 2015, 16, 735-741.	2.2	7
43	Atomization characteristics of gelled hypergolic propellant simulants. International Journal of Precision Engineering and Manufacturing, 2015, 16, 743-747.	2.2	5
44	A study on cutting and tribology performances of TiN and TiAlN coated tools. International Journal of Precision Engineering and Manufacturing, 2015, 16, 781-786.	2.2	36
45	Study on a novel thermal error compensation system for high-precision ball screw feed drive (1st) Tj ETQq1 1 0.784314 rgBT /Overlock Manufacturing, 2015, 16, 2005-2011.	2.2	22
46	Study on a novel thermal error compensation system for high-precision ball screw feed drive (2nd) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Manufacturing, 2015, 16, 2139-2145.	2.2	18
47	Study on flow and heat transfer of small scale gas flow for air cooling system. International Journal of Precision Engineering and Manufacturing, 2015, 16, 2491-2498.	2.2	5
48	Temperature of air pocket in Type3 composite vessel during ambient hydraulic cycling test. International Journal of Precision Engineering and Manufacturing, 2014, 15, 2559-2563.	2.2	0
49	Study on thermal behavior analysis of nut/shaft air cooling ball screw for high-precision feed drive. International Journal of Precision Engineering and Manufacturing, 2014, 15, 123-128.	2.2	16
50	The evaluation of contact fatigue strength for 20MnCr5 carburized gear. International Journal of Precision Engineering and Manufacturing, 2014, 15, 117-121.	2.2	14
51	Study on positioning accuracy of nut/shaft air cooling ball screw for high-precision feed drive. International Journal of Precision Engineering and Manufacturing, 2014, 15, 111-116.	2.2	20
52	Study on dynamic characteristics and load sharing of a herringbone planetary gear with manufacturing errors. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1925-1934.	2.2	29
53	The research of platform vibration characteristics based on numerical wave simulation. International Journal of Precision Engineering and Manufacturing, 2014, 15, 471-475.	2.2	0
54	Experimental application of pitting formation for 20MnCr5 carburized gear tooth. International Journal of Precision Engineering and Manufacturing, 2014, 15, 899-903.	2.2	8

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55	Parametric modeling and simulation of crank-rocker transplanting mechanism. , 2014, , .		0
56	A study on modeling and optimization of tooth microgeometry for a helical gear pair. International Journal of Precision Engineering and Manufacturing, 2013, 14, 423-427.	2.2	12
57	Effect of Al content on structure and properties of Ti1~xAlxN hard film prepared by multi-arc ion plating. International Journal of Precision Engineering and Manufacturing, 2013, 14, 161-164.	2.2	4
58	A novel high speed/high precision ball screw. International Journal of Precision Engineering and Manufacturing, 2013, 14, 165-167.	2.2	7
59	A study on the evaluation of bending fatigue strength for 20CrMoH gear. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1339-1343.	2.2	28
60	3107 Study on Positioning Accuracy and Thermal Behavior of Nut/Shaft Air Cooling Ball Screw for High-precision Feed Drive. The Proceedings of the Symposium on Motion and Power Transmission, 2013, 2013, 183-187.	0.0	0
61	A study on improvement of ball screw system positioning error with liquid-cooling. International Journal of Precision Engineering and Manufacturing, 2012, 13, 2173-2181.	2.2	30
62	The calculation and experiment for measurements over pins of the external helical gears with an odd number of teeth. International Journal of Precision Engineering and Manufacturing, 2012, 13, 2203-2208.	2.2	9
63	A study on tooth modification and radiation noise of a manual transaxle. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1013-1020.	2.2	23
64	Mathematical model and analysis on cycloid planetary gear. , 2011, , .		2
65	Characteristic evaluation of friction and wear in the C-N and TiN coated gear. International Journal of Precision Engineering and Manufacturing, 2010, 11, 107-111.	2.2	12
66	Effect of MoS2-based composite coatings on tribological behavior and efficiency of gear. International Journal of Precision Engineering and Manufacturing, 2010, 11, 937-943.	2.2	21
67	Optimal design of a tilling machine reduction gearbox using Matlab. International Journal of Precision Engineering and Manufacturing, 2009, 10, 63-66.	2.2	7
68	Elongation of contact length on the line of action in roll forming of gears. Journal of Mechanical Science and Technology, 2003, 17, 321-328.	0.4	3
69	Characteristic of quenching refrigerant for heat treatment deformation control of SM45C steel. Journal of Mechanical Science and Technology, 2002, 16, 647-654.	0.4	1
70	Effect of surface treatments on the strength of carburized gears. Journal of Mechanical Science and Technology, 1998, 12, 206-214.	0.4	8