

Chul Kim

List of Publications by Year in descending order

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65
papers

480
citations

759055

12
h-index

839398

18
g-index

66
all docs

66
docs citations

66
times ranked

190
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an Integrated System for the Automated Design of a Gerotor Oil Pump. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 1099-1105.	1.7	43
2	A compact and practical CAD system for blanking or piercing of irregular-shaped sheet metal products and stator and rotor parts. International Journal of Machine Tools and Manufacture, 1998, 38, 931-963.	6.2	30
3	A Study on the Extrusion by a two-step process for manufacturing helical gear. International Journal of Advanced Manufacturing Technology, 2009, 41, 684-693.	1.5	22
4	Development of a new gerotor for oil pumps with multiple profiles. International Journal of Precision Engineering and Manufacturing, 2011, 12, 835-841.	1.1	21
5	Design and CFD analysis of gerotor with multiple profiles (ellipse+involute+ellipse type and 3-ellipses) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 804-823.	1.1	21
6	An integrated CAD system for the blanking of irregular-shaped sheet metal products. Journal of Materials Processing Technology, 1998, 83, 84-97.	3.1	18
7	Optimum design of pipe bending based on high-frequency induction heating using dynamic reverse moment. International Journal of Precision Engineering and Manufacturing, 2011, 12, 1051-1058.	1.1	18
8	Design of composite layer and liner for structure safety of hydrogen pressure vessel (type 4). Journal of Mechanical Science and Technology, 2021, 35, 3507-3517.	0.7	18
9	Optimum design on lobe shapes of gerotor oil pump. Journal of Mechanical Science and Technology, 2006, 20, 1390-1398.	0.7	15
10	Design of rotor profile of internal gear pump for improving fuel efficiency. International Journal of Precision Engineering and Manufacturing, 2015, 16, 113-120.	1.1	15
11	Development of a process sequence determination technique by fuzzy set theory for an electric product with piercing and bending operation. International Journal of Advanced Manufacturing Technology, 2006, 31, 450-464.	1.5	14
12	Design of Laminated Seal in Cryogenic Triple-Offset Butterfly Valve Used in LNG Marine Engine. International Journal of Precision Engineering and Manufacturing, 2019, 20, 243-253.	1.1	13
13	A Study on the mechanics of shear spinning of cones. Journal of Mechanical Science and Technology, 2006, 20, 806-818.	0.7	12
14	Automated design system for a rotor with an ellipse lobe profile. Journal of Mechanical Science and Technology, 2009, 23, 2928-2937.	0.7	12
15	A study on optimal design and fatigue life of the common rail pipe. International Journal of Precision Engineering and Manufacturing, 2011, 12, 475-483.	1.1	12
16	Development of an expert system for cold forging of axisymmetric product. International Journal of Advanced Manufacturing Technology, 2006, 29, 459-474.	1.5	11
17	Development of an automated progressive design system with multiple processes (piercing, bending,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Technology, 2009, 43, 644-653.	1.5	11
18	Performance improvement of an oil pump: Design of port assembled with gerotor (2-ellipses-combined) Tj ETQq0 0,0rgBT /Overlock 10	1.1	11

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19	Expert system for process planning of pressure vessel fabrication by deep drawing and ironing. Journal of Materials Processing Technology, 2004, 155-156, 1465-1473.	3.1	10
20	Analysis of the autofrettage effect in improving the fatigue resistance of automotive CNG storage vessels. International Journal of Precision Engineering and Manufacturing, 2009, 10, 15-21.	1.1	9
21	A study on integrated design for improving fatigue life of common rail pipe considering stress concentration at complex shape. Journal of Mechanical Science and Technology, 2014, 28, 3617-3627.	0.7	8
22	Design of Gerotor Using Cycloid and Circular-Arc Curves. Transactions of the Korean Society of Mechanical Engineers, A, 2011, 35, 241-250.	0.1	8
23	Performance Improvement of Oil Pump by Design of Gerotor (Combined Profile - Two Ellipses) and Port. Journal of the Korean Society for Precision Engineering, 2016, 33, 207-216.	0.1	8
24	A Study of the Progressive Working of an Electric Product Using a 3D Shape Recognition Method. International Journal of Advanced Manufacturing Technology, 2002, 19, 525-536.	1.5	7
25	Design of Gerotor Oil Pump with 2-Expanded Cardioids Lobe Shape for Noise Reduction. Energies, 2019, 12, 1126.	1.6	7
26	Development of an expert system for cold forging of axisymmetric product. International Journal of Advanced Manufacturing Technology, 2006, 29, 459-474.	1.5	6
27	Optimal design for compressed natural gas composite vessel by using coupled model with liner and composite layer. International Journal of Precision Engineering and Manufacturing, 2013, 14, 275-281.	1.1	6
28	Optimal Process Planning of CNG Pressure Vessel by Ensuring Reliability and Improving Die Life. Transactions of the Korean Society of Mechanical Engineers, A, 2013, 37, 865-873.	0.1	6
29	Optimal Design of Rotor Profile of Internal Gear Pump for Noise Reduction. Transactions of the Korean Society of Mechanical Engineers, A, 2014, 38, 295-302.	0.1	6
30	Preventing loose bolts and reducing the number of bolts required in plate heat exchangers. International Journal of Precision Engineering and Manufacturing, 2009, 10, 29-34.	1.1	5
31	Optimal design of the gerotor (2-ellipses) for reducing maximum contact stress. Journal of Mechanical Science and Technology, 2016, 30, 5595-5603.	0.7	5
32	A Study on Theoretical Flowrate of Gerotor Pump Using Chamber Areas. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1385-1392.	1.1	5
33	Integrated Design of D.D.I., Filament Winding and Curing Processes for Manufacturing the High Pressure Vessel (Type II). Chinese Journal of Mechanical Engineering (English Edition), 2019, 32, .	1.9	5
34	A Study on D.D.I. Load for Forming of the CNG Storage Vessel. Journal of the Korean Society for Precision Engineering, 2013, 30, 629-637.	0.1	5
35	Design of port shape for reducing irregularity of oil pump. Journal of Mechanical Science and Technology, 2017, 31, 5839-5848.	0.7	4
36	Design of Laminated Seal for Triple Offset Butterfly Valve (350 Â°C) Used in Combined Cycle Power Plants. Applied Sciences (Switzerland), 2019, 9, 3095.	1.3	4

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37	Study of Hot Spinning Process for Head of CNG Storage Vessel. Transactions of the Korean Society of Mechanical Engineers, A, 2013, 37, 547-554.	0.1	4
38	Deep Drawing Process Using a Tractrix Die for Manufacturing Liners for a CNG High-Pressure Vessel (Type II). Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, .	1.9	4
39	Optimal design considering structural efficiency of compressed natural gas fuel storage vessels for automobiles. Transactions of Nonferrous Metals Society of China, 2011, 21, s199-s204.	1.7	3
40	A study on flow characteristics and discharge coefficients of safety valve used in LNG/LNG-FPSO ships. Journal of Mechanical Science and Technology, 2011, 25, 2277-2284.	0.7	3
41	A study on integrated design for manufacturing processes of a compressed natural gas composite vessel. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1311-1321.	1.1	3
42	Design of domestic electric oven using uniformity of browning index of bread in baking process. Journal of Mechanical Science and Technology, 2019, 33, 4311-4318.	0.7	3
43	Leakage analysis of helical grooved pump seal using CFD. Journal of Mechanical Science and Technology, 2020, 34, 4183-4191.	0.7	3
44	Design of a Combined Redrawing-Ironing Process to Manufacture a CNG Pressure Vessel Liner. Applied Sciences (Switzerland), 2021, 11, 8295.	1.3	3
45	Optimal Design of Gerotor with Combined Profiles (Three-Ellipse and Ellipse-Involute-Ellipse) Using Rotation and Translation Algorithm. Transactions of the Korean Society of Mechanical Engineers, A, 2015, 39, 169-177.	0.1	3
46	Optimal Design of the Tractrix Die Used in the DDI Process for Manufacturing CG Pressure Vessels. Transactions of the Korean Society of Mechanical Engineers, A, 2016, 40, 879-886.	0.1	3
47	Design of Compressed Natural Gas Pressure Vessel (Type II) to Improve Storage Efficiency and Structural Reliability. Journal of Pressure Vessel Technology, Transactions of the ASME, 2020, 142, .	0.4	3
48	A study of structural analysis and dynamic characteristics of a sleeve spring torsional vibration damper. International Journal of Advanced Manufacturing Technology, 2010, 49, 185-194.	1.5	2
49	Process analysis and test of manufacturing of sleeve spring-type torsional vibration damper. Journal of Mechanical Science and Technology, 2010, 24, 1301-1309.	0.7	2
50	Structure integrity of rack module for compressed natural gas (CNG) pressure vessel - under automotive collision and vibration. Journal of Mechanical Science and Technology, 2016, 30, 5073-5081.	0.7	2
51	Optimal Design of Gerotor (Ellipse1-Elliptical Involute-Ellipse2 Combined Lobe Shape) for Improving Fuel Efficiency and Reducing Noise. Journal of the Korean Society for Precision Engineering, 2016, 33, 927-935.	0.1	2
52	Development of an apparatus for removing magnetic sludge by permanent magnets setup in the condenser of the power plant. International Journal of Precision Engineering and Manufacturing, 2010, 11, 299-307.	1.1	1
53	Improvement of 3-Way Valve for Temperature Control of Gas Turbine Lube Oil in CCGT. International Journal of Precision Engineering and Manufacturing, 2020, 21, 1321-1332.	1.1	1
54	A Study on Structural Safety of the Boom Hoisting Cylinder of a Coal Handling Machine. Transactions of the Korean Society of Mechanical Engineers, A, 2015, 39, 1265-1273.	0.1	1

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55	Forming of Dome and Inlet Parts of a High Pressure CNG Vessel by the Hot Spinning Process. Transactions of the Korean Society of Mechanical Engineers, A, 2016, 40, 887-894.	0.1	1
56	Optimization of Screw Mixer to Improve Drying Performance of Livestock Manure Dryer Using CFD Analysis. Applied Sciences (Switzerland), 2022, 12, 2872.	1.3	1
57	Design of Type 3 High-Pressure Vessel Liner(Al 6061) for Hydrogen Vehicles. Journal of Pressure Vessel Technology, Transactions of the ASME, 2022, , .	0.4	1
58	An integrated CAD/CAM system for CNG pressure vessel manufactured by deep drawing and ironing operation. Journal of Mechanical Science and Technology, 2004, 18, 904-914.	0.4	0
59	Developing an automated system for predicting the shape and volume of an air pocket on the draw die. International Journal of Advanced Manufacturing Technology, 2009, 40, 697-708.	1.5	0
60	A forming process design for a non-welded metal seal. International Journal of Advanced Manufacturing Technology, 2018, 98, 1989-2001.	1.5	0
61	Optimal Design of Gerotor Profile with Lemniscate Lobe Shape for Noise Reduction. International Journal of Precision Engineering and Manufacturing, 2021, 22, 1595-1608.	1.1	0
62	Design of Tip Clearance in the D.D.I. Process to Manufacture Pressure Vessel. Journal of the Korean Society for Precision Engineering, 2018, 35, 715-720.	0.1	0
63	A Study on the Vibration Reduction of Turbine Rotor through Advanced Flexible Packing Rings. Journal of the Korean Society for Precision Engineering, 2018, 35, 681-687.	0.1	0
64	Design of Gerotor Oil Pump with Expanded Cardioid Lobe Shape to Reduce Noise. Journal of the Korean Society for Precision Engineering, 2018, 35, 761-767.	0.1	0
65	Design of an expeller seal to reduce leakage in a stuffing box. Journal of Mechanical Science and Technology, 2022, 36, 2387-2396.	0.7	0