

# Naksoo Kim

## List of Publications by Year in descending order

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73  
papers

814  
citations

567144

15  
h-index

580701

25  
g-index

73  
all docs

73  
docs citations

73  
times ranked

528  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ring rolling process simulation by the three dimensional finite element method. International Journal of Machine Tools and Manufacture, 1990, 30, 569-577.	6.2	96
2	A parametric study on forming length in roll forming. Journal of Materials Processing Technology, 2001, 113, 774-778.	3.1	66
3	Prediction of spread, pressure distribution and roll force in ring rolling process using rigid-plastic finite element method. Journal of Materials Processing Technology, 2003, 140, 478-486.	3.1	56
4	Study on twisting and bowing of roll formed products made of high strength steel. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1527-1533.	1.1	26
5	Prediction of tool wear in the blanking process using updated geometry. Wear, 2016, 352-353, 160-170.	1.5	25
6	Optimal design to reduce the maximum load in ring rolling process. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1821-1828.	1.1	24
7	The influence of fiber orientation and geometry-induced strain concentration on the fatigue life of short carbon fibers reinforced polyamide-6. Materials and Design, 2020, 190, 108569.	3.3	24
8	Multiaxial fatigue life prediction of polychloroprene rubber (CR) reinforced with tungsten nano-particles based on semi-empirical and machine learning models. International Journal of Fatigue, 2021, 145, 106136.	2.8	23
9	Change of the yield stress in roll formed ERW pipes considering the Bauschinger effect. Journal of Materials Processing Technology, 2017, 244, 304-313.	3.1	21
10	Design and numerical evaluation of recycled-carbon-fiber-reinforced polymer/metal hybrid engine cradle concepts. International Journal of Mechanical Sciences, 2019, 163, 105115.	3.6	20
11	Analysis of wire-drawing process with friction and thermal conditions obtained by inverse engineering. Journal of Mechanical Science and Technology, 2012, 26, 2903-2911.	0.7	19
12	Numerical simulations and experiments on fabricating bend pipes by push bending with local induction-heating process. International Journal of Advanced Manufacturing Technology, 2016, 84, 2689-2695.	1.5	19
13	Robust optimum design of a bearingless rotation motor using the Kriging model. International Journal of Precision Engineering and Manufacturing, 2011, 12, 1043-1050.	1.1	18
14	Slip line model for forces estimation in the radial-axial ring rolling process. International Journal of Mechanical Sciences, 2018, 138-139, 17-33.	3.6	18
15	Lifetime prediction of linear slide rails based on surface abrasion and rolling contact fatigue-induced damage. Wear, 2019, 420-421, 184-194.	1.5	18
16	Finite-element analysis and experimental verification for drawbead drawing processes. Journal of Materials Processing Technology, 1997, 72, 188-194.	3.1	17
17	Minimizing the axial force and the material build-up in the tube flow forming process. International Journal of Precision Engineering and Manufacturing, 2013, 14, 259-266.	1.1	17
18	Quantification of micro-cracks on the bending surface of roll formed products using the GTN model. Metals and Materials International, 2014, 20, 841-850.	1.8	16

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19	Run-out based crossed roller bearing life prediction by utilization of accelerated testing approach and FE numerical models. <i>International Journal of Mechanical Sciences</i> , 2017, 130, 99-110.	3.6	16
20	The prediction of deformation behavior and interfacial friction under hot working conditions using inverse analysis. <i>Journal of Materials Processing Technology</i> , 2008, 208, 211-221.	3.1	15
21	Preliminary design of an injection-molded recycled-carbon fiber reinforced plastic/metal hybrid automotive structure via combined optimization techniques. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 2773-2788.	1.7	15
22	Machine Learning-Based Models for the Estimation of the Energy Consumption in Metal Forming Processes. <i>Metals</i> , 2021, 11, 833.	1.0	14
23	Physical and numerical modeling of hot closed-die forging to reduce forging load and die wear. <i>Journal of Materials Processing Technology</i> , 1994, 42, 401-420.	3.1	13
24	Microstructure and Mechanical Properties of Thin-Multilayer Ti/Al Laminates Prepared by One-Step Explosive Bonding. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 277-284.	1.2	13
25	Optimum design of roll forming process of slide rail using design of experiments. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 1537-1543.	0.7	12
26	Analysis and design for reducing residual stress and distortion after ejection of injection molded part with metal-insert. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 2533-2542.	1.1	12
27	Formability of coated vinyl on sheet metal during deep drawing process. <i>Journal of Materials Processing Technology</i> , 2016, 227, 178-189.	3.1	12
28	Influences of stress triaxiality and local fiber orientation on the failure strain for injection-molded carbon fiber reinforced polyamide-6. <i>Engineering Fracture Mechanics</i> , 2021, 250, 107784.	2.0	12
29	Determination of the flow stress and thermal properties of ceramic powder feedstock in ceramic injection molding. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 1815-1824.	0.7	9
30	Experiment and Numerical Study of Wear in Cross Roller Thrust Bearings. <i>Lubricants</i> , 2015, 3, 447-458.	1.2	9
31	A New Approach to Preform Design in Metal Forging Processes Based on the Convolution Neural Network. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7948.	1.3	9
32	Optimum design of the cored linear motor using experiment design. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 2215-2223.	0.7	8
33	A Comparative Study of Ductile Damage Models Approaches for Joint Strength Prediction in Hot Shear Joining Process. <i>Procedia Engineering</i> , 2017, 207, 1689-1694.	1.2	8
34	Prediction of flow stress of metallic material and interfacial friction condition at high temperature using inverse analysis. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 639-648.	0.7	7
35	Ductile fracture model in the shearing process of zircaloy sheet for nuclear fuel spacer grids. <i>Metals and Materials International</i> , 2012, 18, 303-316.	1.8	7
36	Creep Behavior of ABS Polymer in Temperature-Humidity Conditions. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 2754-2762.	1.2	7

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37	A Buckling Instability Prediction Model for the Reliable Design of Sheet Metal Panels Based on an Artificial Intelligent Self-Learning Algorithm. <i>Metals</i> , 2021, 11, 1533.	1.0	7
38	A study on the shearing process and the burr formation of zircaloy-4 sheet by using GTN model. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 2167-2175.	1.1	6
39	Enhancement of dimple formability in sheet metals by 2-step forming. <i>Materials &amp; Design</i> , 2014, 54, 121-129.	5.1	6
40	Contact geometry estimation and precise radial force prediction for the radial-axial ring rolling process. <i>International Journal of Material Forming</i> , 2018, 11, 789-805.	0.9	6
41	Investigation on the static and cyclic anisotropic mechanical behavior of polychloroprene rubber (CR) reinforced with tungsten nano-particles. <i>Engineering Fracture Mechanics</i> , 2020, 235, 107183.	2.0	6
42	Manufacturing process and mechanical properties characterization for steel skin “Carbon fiber reinforced polymer core laminate structures. <i>Composite Structures</i> , 2019, 209, 1-12.	3.1	5
43	Analysis of excessive deformation behavior of a PMMA-touch screen panel laminated material in a high temperature condition. <i>Korea Australia Rheology Journal</i> , 2011, 23, 195-204.	0.7	4
44	A study on the mechanical properties and deformation behavior of injection molded PMMA-TSP laminated composite. <i>Korea Australia Rheology Journal</i> , 2012, 24, 23-33.	0.7	4
45	Numerical analysis and optimal design to reduce residual stresses and deformations of die casting baseplate after ejection. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 2949-2956.	0.7	4
46	Material property of metal skin “sheet molding compound laminate structures for the production of lightweight vehicles body frame. <i>Procedia Engineering</i> , 2017, 207, 878-883.	1.2	4
47	Determination of Flow Stress of Zircaloy-4 Under High Strain Rate Using Slot Milling Test. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2013, 37, 67-75.	0.1	4
48	Robust design of roll-formed slide rail using response surface method. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 2545-2553.	0.7	3
49	Prediction of thermal deformation considering the residual stresses for the PMMA-TSP laminated structure. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 3135-3140.	0.7	3
50	Study on micro deformation of automobile roof with mastic sealer after oven process. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 649-654.	1.1	3
51	Numerical approach to the evaluation of forming limit curves for zircaloy-4 sheet. <i>Journal of Materials Research</i> , 2015, 30, 3277-3287.	1.2	3
52	Process chain analysis of the dimensional integrity in a metal-insert polymer smart phone baseplate “from die casting to polymer injection molding. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 1703-1713.	0.7	3
53	Steel skin “SMC laminate structures for lightweight automotive manufacturing. <i>Journal of Physics: Conference Series</i> , 2017, 896, 012086.	0.3	3
54	Development of an index model for oil canning of steel sheet metal forming products. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 3023-3037.	1.5	3

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55	Maximum residual contact stress in spinning process of SS304/20 bimetallic pipe. International Journal of Advanced Manufacturing Technology, 2020, 106, 2971-2982.	1.5	3
56	A study on the bearingless switched reluctance rotation motor with improved motor performance. Journal of Mechanical Science and Technology, 2013, 27, 1407-1414.	0.7	2
57	Preform design of hybrid-forming process to make sheet metal IT products with a sharp edge. Journal of Mechanical Science and Technology, 2015, 29, 2467-2475.	0.7	2
58	Development of analysis technique to predict the material behavior of blowing agent. Korea Australia Rheology Journal, 2014, 26, 389-400.	0.7	1
59	Analysis of mechanism of backflow defect of the aluminum wheel flow forming. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1075-1080.	1.1	1
60	Calculation of the joint strength of hot shear joined bars based on a modified lemaître model. Metals and Materials International, 2016, 22, 87-93.	1.8	1
61	Development of oil canning index model for sheet metal forming products with large curvature. Journal of Physics: Conference Series, 2017, 896, 012064.	0.3	1
62	Numerical investigations on the effect of pit on two-step dimple forming of atomic fuel spacer grid. International Journal of Advanced Manufacturing Technology, 2018, 94, 293-299.	1.5	1
63	Stable forming conditions and geometrical expansion of L-shape rings in ring rolling process. AIP Conference Proceedings, 2018, , .	0.3	1
64	Some Manifestations of Antioxidation Coating for Hot Precision Forging Gears. Advances in Materials Science and Engineering, 2019, 2019, 1-9.	1.0	1
65	Investigation on the influence of temperature, pressure and curing time on the mechanical properties of metal skins and CFRP core sandwich panels manufactured by means of curing-by-forming process. AIP Conference Proceedings, 2019, , .	0.3	1
66	Numerical investigation on the influence of the electro-resistance welding pipe manufacturing process on the local variation of the yield strength of the pipe material. Advances in Mechanical Engineering, 2020, 12, 168781402091780.	0.8	1
67	Validation of formability of laminated sheet metal for deep drawing process using GTN damage model. , 2013, , .		0
68	An evaluation technique for forming limit strains of zircaloy-4 and zirlo sheets based on FEA solutions. , 2013, , .		0
69	Design study of the geometry of the blanking tool to predict the burr formation of Zircaloy-4 sheet. , 2013, , .		0
70	Joining strength performances of metal skin and CFRP core laminate structures realized by compression-curing process, with supporting experiments. AIP Conference Proceedings, 2018, , .	0.3	0
71	Numerical-empirical-based function for the assessment of the stiffness distribution on automotive body panels. AIP Conference Proceedings, 2019, , .	0.3	0
72	Experimental and numerical investigations on the failure behavior of metal skin and carbon fiber-reinforced polymer core structures considering layup and manufacturing process conditions. Advanced Composite Materials, 2022, 31, 173-194.	1.0	0

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73	Enhancement of Dimple Formability in Sheet Metals by 2-Step Forming. Transactions of the Korean Society of Mechanical Engineers, A, 2013, 37, 841-849.	0.1	0