

# Changwoo Lee

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2328422/publications.pdf>

Version: 2024-02-01

56  
papers

940  
citations

471371

17  
h-index

477173

29  
g-index

58  
all docs

58  
docs citations

58  
times ranked

556  
citing authors

#	ARTICLE	IF	CITATIONS
1	Roll-to-Roll Coating Technology and Its Applications: A Review. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016, 17, 537-550.	1.1	88
2	R2R gravure and inkjet printed RF resonant tag. <i>Microelectronic Engineering</i> , 2011, 88, 3293-3299.	1.1	66
3	A Novel Method to Guarantee the Specified Thickness and Surface Roughness of the Roll-to-Roll Printed Patterns Using the Tension of a Moving Substrate. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 1243-1253.	1.7	56
4	A novel cross directional register modeling and feedforward control in multi-layer roll-to-roll printing. <i>Journal of Process Control</i> , 2010, 20, 643-652.	1.7	50
5	Modeling and compensation of the machine directional register in roll-to-roll printing. <i>Control Engineering Practice</i> , 2013, 21, 645-654.	3.2	45
6	Analysis of dynamic thermal characteristic of register of roll-to-roll multi-layer printing systems. <i>Robotics and Computer-Integrated Manufacturing</i> , 2015, 35, 77-83.	6.1	39
7	An Investigation of the Ink-Transfer Mechanism During the Printing Phase of High-Resolution Roll-to-Roll Gravure Printing. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015, 5, 1516-1524.	1.4	32
8	Theories and Control Technologies for Web Handling in the Roll-to-Roll Manufacturing Process. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 7, 525-544.	2.7	32
9	Advanced taper tension method for the performance improvement of a roll-to-roll printing production line with a winding process. <i>International Journal of Mechanical Sciences</i> , 2012, 59, 61-72.	3.6	30
10	Improvement of cross-machine directional thickness deviation for uniform pressure-sensitive adhesive layer in roll-to-roll slot-die coating process. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 937-943.	1.1	30
11	A 250-mm-width, flexible, and continuous roll-to-roll slot-die coated carbon nanotube/silver nanowire film fabrication and a study on the effect of anti-reflective overcoat. <i>Thin Solid Films</i> , 2016, 598, 95-102.	0.8	29
12	A study on tension behavior considering thermal effects in roll-to-roll E-printing. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 1097-1103.	0.7	28
13	Optimized design for anti-reflection coating process in roll-to-roll slot-die coating system. <i>Robotics and Computer-Integrated Manufacturing</i> , 2014, 30, 432-441.	6.1	28
14	A study on the tension estimator by using register error in a printing section of roll to roll e-printing systems. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 212-220.	0.7	22
15	An Analysis of Pinned Edge Layer of Slot-Die Coated Film in Roll-to-Roll Green Manufacturing System. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018, 5, 247-254.	2.7	20
16	A mathematical model to predict surface roughness and pattern thickness in roll-to-roll gravure printed electronics. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013, 29, 26-32.	6.1	18
17	Effect of nip force on ink transfer in high resolution roll-to-roll printing. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 517-523.	1.1	17
18	Model-Based Winding Tension Profile to Minimize Radial Stress in a Flexible Substrate in a Roll-to-Roll Web Transporting System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 2928-2939.	3.7	17

#	ARTICLE	IF	CITATIONS
19	Effect of tension on conductivity of gravure printed Ag layer in roll-to-roll process. International Journal of Precision Engineering and Manufacturing, 2015, 16, 99-104.	1.1	16
20	Approach to optimizing printed conductive lines in high-resolution roll-to-roll gravure printing. Robotics and Computer-Integrated Manufacturing, 2017, 46, 122-129.	6.1	16
21	Resistance Control of an Additively Manufactured Conductive Layer in Roll-to-Roll Gravure Printing Systems. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 817-828.	2.7	16
22	An advanced model for the numerical analysis of the radial stress in center-wound rolls. International Journal of Mechanical Sciences, 2016, 105, 360-368.	3.6	15
23	Stresses and Defects in Roll Products: A Review of Stress Models and Control Techniques. International Journal of Precision Engineering and Manufacturing, 2018, 19, 781-789.	1.1	15
24	Multi-response optimization of R2R gravure printing using orthogonal array and principal component analysis as a weighting factor. International Journal of Advanced Manufacturing Technology, 2017, 90, 3595-3606.	1.5	14
25	Fabrication of Thickness-Controllable Double Layer Electrolyte Using Roll-to-Roll Additive Manufacturing System. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 635-642.	2.7	14
26	Quality control with matching technology in roll to roll printed electronics. Journal of Mechanical Science and Technology, 2010, 24, 315-318.	0.7	13
27	Contact angle control of sessile drops on a tensioned web. Applied Surface Science, 2018, 437, 329-335.	3.1	13
28	Surface Drying for Brittle Material Coating Without Crack Defects in Large-Area Roll-To-Roll Coating System. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 723-730.	2.7	13
29	Effect of taper tension profile on the telescoping in a winding process of high speed roll to roll printing systems. Journal of Mechanical Science and Technology, 2009, 23, 3036-3048.	0.7	12
30	Computational fluid dynamics model for thickness and uniformity prediction of coating layer in slot-die process. International Journal of Advanced Manufacturing Technology, 2019, 104, 2991-2997.	1.5	12
31	Fault diagnosis based on the quantification of the fault features in a rotary machine. Applied Soft Computing Journal, 2020, 97, 106726.	4.1	12
32	Large area electrolyte coating through surface and interface engineering in roll-to-roll slot-die coating process. Journal of Industrial and Engineering Chemistry, 2019, 76, 443-449.	2.9	11
33	Residual Interfacial Deformation in Flexible Copper Clad Laminate Occurring During Roll-to-Roll Composite Film Manufacturing. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 805-815.	2.7	10
34	Advanced Tension Model for Highly Integrated Flexible Electronics in Roll-to-Roll Manufacturing. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2908-2917.	3.7	8
35	Feature selection algorithm based on density and distance for fault diagnosis applied to a roll-to-roll manufacturing system. Journal of Computational Design and Engineering, 2022, 9, 805-825.	1.5	8
36	Taper Tension Profile in Roll-to-Roll Rewinder: Improving Adhesive Force of Pressure-Sensitive Adhesive Film. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 853-860.	2.7	7

#	ARTICLE	IF	CITATIONS
37	Web Unevenness Due to Thermal Deformation in the Roll-to-Roll Manufacturing Process. Applied Sciences (Switzerland), 2020, 10, 8636.	1.3	7
38	Morphology Engineering for Compact Electrolyte Layer of Solid Oxide Fuel Cell with Roll-to-Roll Eco-production. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 431-441.	2.7	7
39	Impact of Sensor Data Characterization with Directional Nature of Fault and Statistical Feature Combination for Defect Detection on Roll-to-Roll Printed Electronics. Sensors, 2021, 21, 8454.	2.1	7
40	Improvement of a Splicing Machine to Decrease Abrupt Tension Changes and Tail Defects during the Roll Exchange Process in a Roll-to-Roll Manufacturing System. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1155-1161.	1.1	6
41	Novel approach to predict the varying thicknesses of a PVA film during a roll-to-roll process. International Journal of Mechanical Sciences, 2015, 92, 52-69.	3.6	5
42	Numerical Modeling of Ink Widening and Coating Gap in Roll-to-Roll Slot-Die Coating of Solid Oxide Fuel Cell Electrolytic Layer. Polymers, 2020, 12, 2927.	2.0	5
43	Effect of Radial Stress on the Adhesive Force of a Wound Roll in Industrial Roll-to-Roll Manufacturing System. International Journal of Precision Engineering and Manufacturing, 2018, 19, 411-415.	1.1	4
44	Noble Logic for Preventing Scratch on Roll-to-Roll Printed Layers in Noncontacting Transportation. Japanese Journal of Applied Physics, 2010, 49, 05EC07.	0.8	3
45	Study on the Radial Stress Considering Mechanical Characteristics of Substrate in Wound Rolls. Journal of the Korean Society for Precision Engineering, 2016, 33, 115-119.	0.1	3
46	Transmittance Control of a Water-Repellent-Coated Layer on a Tensioned Web in a Roll-to-Roll Slot-Die Coating System. Polymers, 2021, 13, 4003.	2.0	3
47	Achieving specified geometric quality in a fully printed flexible functional layer using process parameters in roll-to-roll printed electronics. Flexible and Printed Electronics, 2022, 7, 014007.	1.5	3
48	Tool-Condition Diagnosis Model with Shock-Sharpener Algorithm for Drilling Process. Sensors, 2022, 22, 1975.	2.1	3
49	Strain Optimization of Tensioned Web through Computational Fluid Dynamics in the Roll-to-Roll Drying Process. Polymers, 2022, 14, 2515.	2.0	3
50	Optimal Design of Pneumatic Flotation for Roll-to-Roll Conveyance in the Production of Printed Circuits. Applied Sciences (Switzerland), 2020, 10, 5440.	1.3	2
51	Roll-to-roll Continuous Manufacturing System for Carbon-Nanotube / Silver-Nanowire-Based Large-Area Transparent Conductive Film. Journal of the Korean Society for Precision Engineering, 2015, 32, 673-680.	0.1	2
52	Tool Condition Monitoring Using Deep Learning in Machining Process. Journal of the Korean Society for Precision Engineering, 2020, 37, 415-420.	0.1	2
53	Analysis and Optimization on Inside Flows of Fluid in Roll-to-Roll Slot-Die Nozzle by CFD Simulation. Journal of the Korean Society for Precision Engineering, 2016, 33, 611-616.	0.1	1
54	Effect of Radial Stress on the Nanoparticle-Based Electrolyte Layer in a Center-Wound Roll with Roll-to-Roll Systems. Nanomaterials, 2022, 12, 1014.	1.9	1

#	ARTICLE	IF	CITATIONS
55	A Study on the Foundation Design of Large Machining Center for Highly Precision. Journal of the Korean Society for Precision Engineering, 2018, 35, 585-589.	0.1	0
56	Analysis of Temperature Variation by Structural Arrangement of Internal Heat Sources in Radar Shelters. Journal of the Korean Society for Precision Engineering, 2019, 36, 115-119.	0.1	0