

# Taik-Min Lee

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12049870/publications.pdf>

Version: 2024-02-01

51  
papers

1,044  
citations

361413

20  
h-index

434195

31  
g-index

51  
all docs

51  
docs citations

51  
times ranked

794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid transfer between two separating plates for micro-gravure-offset printing. Journal of Micromechanics and Microengineering, 2009, 19, 015025.	2.6	82
2	Simulation of liquid transfer between separating walls for modeling micro-gravure-offset printing. International Journal of Heat and Fluid Flow, 2008, 29, 1436-1446.	2.4	70
3	Drop-on-Demand Solder Droplet Jetting System for Fabricating Microstructure. IEEE Transactions on Electronics Packaging Manufacturing, 2008, 31, 202-210.	1.4	68
4	Development of a gravure offset printing system for the printing electrodes of flat panel display. Thin Solid Films, 2010, 518, 3355-3359.	1.8	67
5	Color filter patterned by screen printing. Thin Solid Films, 2008, 516, 7875-7880.	1.8	61
6	Optimization of a reverse-offset printing process and its application to a metal mesh touch screen sensor. Microelectronic Engineering, 2015, 134, 1-6.	2.4	46
7	Reliability of gravure offset printing under various printing conditions. Journal of Applied Physics, 2010, 108, 102802.	2.5	42
8	The effect of shear force on ink transfer in gravure offset printing. Journal of Micromechanics and Microengineering, 2010, 20, 125026.	2.6	38
9	Fabrication of a single-layer metal-mesh touchscreen sensor using reverse-offset printing. Journal of Information Display, 2015, 16, 37-41.	4.0	34
10	Mechanism of reverse-offset printing. Journal of Micromechanics and Microengineering, 2015, 25, 075019.	2.6	34
11	Roll offset printing process based on interface separation for fine and smooth patterning. Thin Solid Films, 2013, 548, 566-571.	1.8	33
12	Tool wear monitoring system for CNC end milling using a hybrid approach to cutting force regulation. International Journal of Advanced Manufacturing Technology, 2007, 32, 8-17.	3.0	30
13	Roll-offset printed transparent conducting electrode for organic solar cells. Thin Solid Films, 2015, 580, 21-28.	1.8	29
14	A study on the enhancement of printing location accuracy in a roll-to-roll gravure offset printing system. International Journal of Advanced Manufacturing Technology, 2013, 68, 1147-1153.	3.0	27
15	Effect of ink cohesive force on gravure offset printing. Microelectronic Engineering, 2012, 98, 587-589.	2.4	25
16	Investigation on synchronization of the offset printing process for fine patterning and precision overlay. Journal of Applied Physics, 2014, 115, 234908.	2.5	25
17	Flash light sintering of ag mesh films for printed transparent conducting electrode. Thin Solid Films, 2017, 629, 60-68.	1.8	25
18	Hybrid adaptive control based on the characteristics of CNC end milling. International Journal of Machine Tools and Manufacture, 2002, 42, 489-499.	13.4	24

#	ARTICLE	IF	CITATIONS
19	Development of a precision reverse offset printing system. Review of Scientific Instruments, 2016, 87, 015102.	1.3	23
20	EL device pad-printed on a curved surface. Journal of Micromechanics and Microengineering, 2010, 20, 015016.	2.6	21
21	Gap Adjustable Molten Metal DoD Inkjet System With Cone-Shaped Piston Head. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	2.2	17
22	A study on the electrical and mechanical properties of printed Ag thin films for flexible device application. Journal of Alloys and Compounds, 2014, 596, 158-163.	5.5	17
23	Reverse offset printing of transparent metal mesh electrodes using an imprinted disposable cliché. International Journal of Precision Engineering and Manufacturing, 2015, 16, 2347-2352.	2.2	17
24	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.	4.9	16
25	IoT device fabrication using roll-to-roll printing process. Scientific Reports, 2021, 11, 19982.	3.3	16
26	Registration error analysis and compensation of roll-to-roll screen printing system for flexible electronics. Flexible and Printed Electronics, 2021, 6, 024003.	2.7	15
27	Design and fabrication of printed transparent electrode with silver mesh. Microelectronic Engineering, 2012, 98, 556-560.	2.4	13
28	Employment of roll-offset printing for fabrication of solder bump arrays: Harnessing the rheological properties of lead-free solder pastes using particle size distribution. Microelectronic Engineering, 2016, 164, 128-134.	2.4	13
29	Hybrid fabrication of LED matrix display on multilayer flexible printed circuit board. Flexible and Printed Electronics, 2021, 6, 024001.	2.7	13
30	Hybrid electrohydrodynamic atomization of nanostructured silver top contact for inverted organic solar cells. Solar Energy Materials and Solar Cells, 2014, 130, 156-162.	6.2	11
31	Printing Speed and Quality Enhancement by Controlling the Surface Energy of Cliché in Reverse Offset Printing. Applied Sciences (Switzerland), 2017, 7, 1302.	2.5	11
32	16.2: Reverse Offset Printed Single Layer Metal Mesh Touch Screen Panel. Digest of Technical Papers SID International Symposium, 2014, 45, 197-199.	0.3	9
33	Enhancement of printing overlay accuracy by reducing the effects of mark deformations. Microelectronic Engineering, 2017, 180, 8-14.	2.4	9
34	Experimental Qualification of the Process of Electrostatic Spray Deposition. Coatings, 2019, 9, 294.	2.6	9
35	Web Unevenness Due to Thermal Deformation in the Roll-to-Roll Manufacturing Process. Applied Sciences (Switzerland), 2020, 10, 8636.	2.5	7
36	Design and fabrication of printed electrowetting-on-dielectric device. International Journal of Precision Engineering and Manufacturing, 2015, 16, 989-995.	2.2	6

#	ARTICLE	IF	CITATIONS
37	Mechanical and electrical properties of reverse-offset printed Sn-Ag-Cu solder bumps. Journal of Materials Processing Technology, 2018, 259, 126-133.	6.3	6
38	Formulation and Characterization of CuIn <sub>1-x</sub> GaxSe <sub>2</sub> Ink for Gravure Offset Printing. Japanese Journal of Applied Physics, 2013, 52, 05DB17.	1.5	5
39	A study on the enhancement of the reliability in gravure offset roll printing with blanket swelling control. Journal of Micromechanics and Microengineering, 2016, 26, 105014.	2.6	4
40	Distortion mechanism of patterning positions in the soft roller printing process for realizing large-area overlay printing. Journal of Micromechanics and Microengineering, 2020, 30, 045012.	2.6	4
41	Empirical design of slot-die having shallow reservoir for thin-film printed electronics. Review of Scientific Instruments, 2018, 89, 115108.	1.3	3
42	Effect of particle size distribution on the mechanical and electrical properties of reverse-offset printed Sn-Ag-Cu solder bumps. Journal of Materials Science: Materials in Electronics, 2018, 29, 19620-19631.	2.2	3
43	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.	2.7	3
44	AI-assisted reliability assessment for gravure offset printing system. Scientific Reports, 2022, 12, 2954.	3.3	3
45	Strain Optimization of Tensioned Web through Computational Fluid Dynamics in the Roll-to-Roll Drying Process. Polymers, 2022, 14, 2515.	4.5	3
46	Fabrication of replica cliché with fine pattern using reverse offset printing process. Thin Solid Films, 2018, 647, 57-63.	1.8	2
47	Improvement of electrical and mechanical properties of In-48Sn solder bumps for flexible LED signage using Cu-Ag nanoparticles. Flexible and Printed Electronics, 2021, 6, 034006.	2.7	2
48	Actively compensated precision overlay in a reverse-offset printing system for realizing printed electronics of a large-area and multi-layer structure. Flexible and Printed Electronics, 2022, 7, 014010.	2.7	2
49	Effect of PVP(polyvinylpyrrolidone) on the Ag Nano Ink Property for Reverse Offset Printing. Korean Journal of Materials Research, 2012, 22, 476-481.	0.2	1
50	EL Display Printed on Curved Surface. , 2009, , .		0
51	Cliché fabrication method using precise roll printing process with 5 um pattern width. Proceedings of SPIE, 2016, , .	0.8	0