

Taik-Min Lee

List of Publications by Year in descending order

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51
papers

1,044
citations

361413

20
h-index

434195

31
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all docs

51
docs citations

51
times ranked

794
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving specified geometric quality in a fully printed flexible functional layer using process parameters in roll-to-roll printed electronics. <i>Flexible and Printed Electronics</i> , 2022, 7, 014007.	2.7	3
2	Actively compensated precision overlay in a reverse-offset printing system for realizing printed electronics of a large-area and multi-layer structure. <i>Flexible and Printed Electronics</i> , 2022, 7, 014010.	2.7	2
3	AI-assisted reliability assessment for gravure offset printing system. <i>Scientific Reports</i> , 2022, 12, 2954.	3.3	3
4	Strain Optimization of Tensioned Web through Computational Fluid Dynamics in the Roll-to-Roll Drying Process. <i>Polymers</i> , 2022, 14, 2515.	4.5	3
5	Resistance Control of an Additively Manufactured Conductive Layer in Roll-to-Roll Gravure Printing Systems. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 817-828.	4.9	16
6	Hybrid fabrication of LED matrix display on multilayer flexible printed circuit board. <i>Flexible and Printed Electronics</i> , 2021, 6, 024001.	2.7	13
7	Registration error analysis and compensation of roll-to-roll screen printing system for flexible electronics. <i>Flexible and Printed Electronics</i> , 2021, 6, 024003.	2.7	15
8	Improvement of electrical and mechanical properties of In-48Sn solder bumps for flexible LED signage using Cu-Ag nanoparticles. <i>Flexible and Printed Electronics</i> , 2021, 6, 034006.	2.7	2
9	IoT device fabrication using roll-to-roll printing process. <i>Scientific Reports</i> , 2021, 11, 19982.	3.3	16
10	Web Unevenness Due to Thermal Deformation in the Roll-to-Roll Manufacturing Process. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8636.	2.5	7
11	Distortion mechanism of patterning positions in the soft roller printing process for realizing large-area overlay printing. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 045012.	2.6	4
12	Experimental Qualification of the Process of Electrostatic Spray Deposition. <i>Coatings</i> , 2019, 9, 294.	2.6	9
13	Mechanical and electrical properties of reverse-offset printed Sn-Ag-Cu solder bumps. <i>Journal of Materials Processing Technology</i> , 2018, 259, 126-133.	6.3	6
14	Fabrication of replica cliché with fine pattern using reverse offset printing process. <i>Thin Solid Films</i> , 2018, 647, 57-63.	1.8	2
15	Empirical design of slot-die having shallow reservoir for thin-film printed electronics. <i>Review of Scientific Instruments</i> , 2018, 89, 115108.	1.3	3
16	Effect of particle size distribution on the mechanical and electrical properties of reverse-offset printed Sn-Ag-Cu solder bumps. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 19620-19631.	2.2	3
17	Enhancement of printing overlay accuracy by reducing the effects of mark deformations. <i>Microelectronic Engineering</i> , 2017, 180, 8-14.	2.4	9
18	Flash light sintering of ag mesh films for printed transparent conducting electrode. <i>Thin Solid Films</i> , 2017, 629, 60-68.	1.8	25

#	ARTICLE	IF	CITATIONS
19	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
20	Development of a precision reverse offset printing system. Review of Scientific Instruments, 2016, 87, 015102.	1.3	23
21	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
22	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
23	Cliché fabrication method using precise roll printing process with 5 um pattern width. Proceedings of SPIE, 2016, , .	0.8	0
24	Roll-offset printed transparent conducting electrode for organic solar cells. Thin Solid Films, 2015, 580, 21-28.	1.8	29
25	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
26	Fabrication of a single-layer metal-mesh touchscreen sensor using reverse-offset printing. Journal of Information Display, 2015, 16, 37-41.	4.0	34
27	Mechanism of reverse-offset printing. Journal of Micromechanics and Microengineering, 2015, 25, 075019.	2.6	34
28	Design and fabrication of printed electrowetting-on-dielectric device. International Journal of Precision Engineering and Manufacturing, 2015, 16, 989-995.	2.2	6
29	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
30	Investigation on synchronization of the offset printing process for fine patterning and precision overlay. Journal of Applied Physics, 2014, 115, 234908.	2.5	25
31	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
32	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
33	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
34	Roll offset printing process based on interface separation for fine and smooth patterning. Thin Solid Films, 2013, 548, 566-571.	1.8	33
35	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
36	Formulation and Characterization of CuIn _{1-x} GaxSe ₂ Ink for Gravure Offset Printing. Japanese Journal of Applied Physics, 2013, 52, 05DB17.	1.5	5

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37	Design and fabrication of printed transparent electrode with silver mesh. <i>Microelectronic Engineering</i> , 2012, 98, 556-560.	2.4	13
38	Effect of ink cohesive force on gravure offset printing. <i>Microelectronic Engineering</i> , 2012, 98, 587-589.	2.4	25
39	Effect of PVP(polyvinylpyrrolidone) on the Ag Nano Ink Property for Reverse Offset Printing. <i>Korean Journal of Materials Research</i> , 2012, 22, 476-481.	0.2	1
40	Development of a gravure offset printing system for the printing electrodes of flat panel display. <i>Thin Solid Films</i> , 2010, 518, 3355-3359.	1.8	67
41	The effect of shear force on ink transfer in gravure offset printing. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 125026.	2.6	38
42	Reliability of gravure offset printing under various printing conditions. <i>Journal of Applied Physics</i> , 2010, 108, 102802.	2.5	42
43	EL device pad-printed on a curved surface. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 015016.	2.6	21
44	Liquid transfer between two separating plates for micro-gravure-offset printing. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 015025.	2.6	82
45	EL Display Printed on Curved Surface. , 2009, , .		0
46	Color filter patterned by screen printing. <i>Thin Solid Films</i> , 2008, 516, 7875-7880.	1.8	61
47	Simulation of liquid transfer between separating walls for modeling micro-gravure-offset printing. <i>International Journal of Heat and Fluid Flow</i> , 2008, 29, 1436-1446.	2.4	70
48	Gap Adjustable Molten Metal DoD Inkjet System With Cone-Shaped Piston Head. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008, 130, .	2.2	17
49	Drop-on-Demand Solder Droplet Jetting System for Fabricating Microstructure. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , 2008, 31, 202-210.	1.4	68
50	Tool wear monitoring system for CNC end milling using a hybrid approach to cutting force regulation. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 32, 8-17.	3.0	30
51	Hybrid adaptive control based on the characteristics of CNC end milling. <i>International Journal of Machine Tools and Manufacture</i> , 2002, 42, 489-499.	13.4	24