

# Dong-Youn Shin

## List of Publications by Year in descending order

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37  
papers

921  
citations

623188

14  
h-index

454577

30  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1115  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Low Curing Temperature Silver Ink for Use in Ink-Jet Printing and Subsequent Production of Conductive Tracks. <i>Macromolecular Rapid Communications</i> , 2005, 26, 315-318.	2.0	285
2	Performance characterization of screen printed radio frequency identification antennas with silver nanopaste. <i>Thin Solid Films</i> , 2009, 517, 6112-6118.	0.8	109
3	Color filter patterned by screen printing. <i>Thin Solid Films</i> , 2008, 516, 7875-7880.	0.8	61
4	Resistivity transition mechanism of silver salts in the next generation conductive ink for a roll-to-roll printed film with a silver network. <i>Journal of Materials Chemistry</i> , 2012, 22, 11755.	6.7	35
5	Numerical and experimental comparisons of mass transport rate in a piezoelectric drop-on-demand inkjet print head. <i>International Journal of Mechanical Sciences</i> , 2004, 46, 181-199.	3.6	33
6	Electrostatic-Force-Assisted Dispensing Printing to Construct High-Aspect-Ratio of 0.79 Electrodes on a Textured Surface with Improved Adhesion and Contact Resistivity. <i>Scientific Reports</i> , 2015, 5, 16704.	1.6	33
7	Rapid two-step metallization through physicochemical conversion of Ag <sub>2</sub> O for printed "black" transparent conductive films. <i>Nanoscale</i> , 2013, 5, 5043.	2.8	32
8	Bimodally dispersed silver paste for the metallization of a crystalline silicon solar cell using electrohydrodynamic jet printing. <i>Solar Energy Materials and Solar Cells</i> , 2015, 136, 148-156.	3.0	32
9	Oscillatory limited compressible fluid flow induced by the radial motion of a thick-walled piezoelectric tube. <i>Journal of the Acoustical Society of America</i> , 2003, 114, 1314-1321.	0.5	26
10	Theoretical investigation of the influence of nozzle diameter variation on the fabrication of thin film transistor liquid crystal display color filters. <i>Journal of Applied Physics</i> , 2008, 103, 114905.	1.1	26
11	Fabrication of an inkjet-printed seed pattern with silver nanoparticulate ink on a textured silicon solar cell wafer. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 125003.	1.5	26
12	Oscillatory Incompressible Fluid Flow in a Tapered Tube With a Free Surface in an Inkjet Print Head. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2005, 127, 98-109.	0.8	23
13	Self-patterning of fine metal electrodes by means of the formation of isolated silver nanoclusters embedded in polyaniline. <i>Nanotechnology</i> , 2009, 20, 415301.	1.3	16
14	Sliding Interconnection for Flexible Electronics with a Solution-Processed Diffusion Barrier against a Corrosive Liquid Metal. <i>Advanced Electronic Materials</i> , 2019, 5, 1900314.	2.6	14
15	Layup-only modulization for low-stress fabrication of a silicon solar module with 100 $\mu$ m thin silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 221, 110903.	3.0	14
16	Impact of effective volume ratio of a dispersant to silver nano-particles on silicon solar cell efficiency in direct ink-jet metallization. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 115007.	1.5	12
17	Rapid jetting status inspection and accurate droplet volume measurement for a piezo drop-on-demand inkjet print head using a scanning mirror for display applications. <i>Review of Scientific Instruments</i> , 2017, 88, 025109.	0.6	12
18	Printed UHF RFID Antennas with High Efficiencies Using Nano-Particle Silver Ink. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6425-6428.	0.9	11

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19	Fine front side metallisation by stretching the dispensed silver paste filament with graphite nanofibres. <i>Solar Energy Materials and Solar Cells</i> , 2017, 169, 167-176.	3.0	9
20	Uncertainty analysis in contact resistivity measurements of crystalline silicon solar cells. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2015, 2, 237-244.	2.7	8
21	Moiré-fringeless Transparent Conductive Films with a Random Serpentine Network of Medium-Field Electrospun, Chemically Annealed Silver Microfibres. <i>Scientific Reports</i> , 2019, 9, 11226.	1.6	7
22	The exothermic reaction route of a self-heatable conductive ink for rapid processable printed electronics. <i>Nanoscale</i> , 2014, 6, 630-637.	2.8	6
23	Contact Resistivity Decrease at a Metal/Semiconductor Interface by a Solid-to-Liquid Phase Transitional Metallo-organic Silver. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15933-15941.	4.0	6
24	Thermomechanical-stress-free interconnection of solar cells using a liquid metal. <i>Solar Energy Materials and Solar Cells</i> , 2018, 180, 10-18.	3.0	6
25	Modelling and analysis of the wetting characteristics of ink for display applications with the surface evolution technique. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2009, 17, 045002.	0.8	4
26	Inkjet Fabrication of Printed Circuit Boards. <i>Advanced Micro &amp; Nanosystems</i> , 0, , 257-278.	0.2	2
27	Mask Patterning for Two-Step Metallization Processes of a Solar Cell and Its Impact on Solar Cell Efficiency. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2012, 36, 1135-1140.	0.0	2
28	Exothermic and Recursive Reaction of Self-Sinterable Silver Ink for Flexible Electronics. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1567, 1.	0.1	1
29	Non-contact direct metallization of a crystalline silicon solar cell by electrostatic-force-assisted dispensing printing. , 2016, , .		1
30	High-Speed Inkjet Monitoring Module for Jetting Failure Inspection. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2010, 34, 1521-1527.	0.1	1
31	Analysis of Drop-on-Demand Ink Jet Print Head for Rapid Prototyping. <i>Materials Research Society Symposia Proceedings</i> , 2001, 698, 451.	0.1	0
32	Preliminary study on the self-patterning and self-registration of metal electrodes by exploiting the chemical and optical traits of an organic silver compound in conjunction with polyaniline. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 025030.	1.5	0
33	Fabrication of Metal Electrodes Based on the Self-Differentiation Technique Using the Novel High-and-Low Strategy. <i>Journal of Imaging Science and Technology</i> , 2011, 55, 40303-1-40303-7.	0.3	0
34	Photovoltaic Modules Using a Galinstan Paste Interconnection. <i>Journal of the Korean Physical Society</i> , 2019, 74, 1184-1189.	0.3	0
35	Measurement of the intrinsic speed of sound in a hot melt ceramic slurry for 3D rapid prototyping with inkjet technology. <i>Journal of the Korea Academia-Industrial Cooperation Society</i> , 2008, 9, 892-898.	0.0	0
36	Comparison of Contact Resistivity Measurements of Silver Paste for a Silicon Solar Cell Using TLM and CTLM. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2014, 38, 539-545.	0.0	0

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37	Study of the Formation of Interconnection Joint for a Flexible PCB Using Liquid Metal Paste. Transactions of the Korean Society of Mechanical Engineers, B, 2018, 42, 623-629.	0.0	0