

# Gyoujin Cho

## List of Publications by Year in descending order

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61  
papers

2,971  
citations

304743

22  
h-index

182427

51  
g-index

61  
all docs

61  
docs citations

61  
times ranked

3603  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Printed Wireless Triangleâ€Wave Generator via a Smartphone. <i>Advanced Engineering Materials</i> , 2022, 24, 2100896.	3.5	5
2	Printed Four Keyâ€Device Units for Unified Platform of Wireless Antiâ€Counterfeiting Label to Bridge in Blockchain. <i>Advanced Materials Technologies</i> , 2022, 7, 2100969.	5.8	6
3	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
4	Characterization of silver nanoparticle inks toward stable roll-to-roll gravure printing. <i>Flexible and Printed Electronics</i> , 2022, 7, 014003.	2.7	5
5	Effect of Radial Stress on the Nanoparticle-Based Electrolyte Layer in a Center-Wound Roll with Roll-to-Roll Systems. <i>Nanomaterials</i> , 2022, 12, 1014.	4.1	1
6	Fully roll-to-roll gravure printed electronics: challenges and the way to integrating logic gates. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SE0802.	1.5	14
7	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
8	A Printable Thin Filmâ€Based Digital Peristaltic Stickerâ€Pump for a Simple and Robust Integration into Microfluidics. <i>Advanced Materials Technologies</i> , 2021, 6, 2001031.	5.8	1
9	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
10	The 2021 flexible and printed electronics roadmap. <i>Flexible and Printed Electronics</i> , 2021, 6, 023001.	2.7	100
11	Wireless pH-logger label for intelligent food packaging. <i>Flexible and Printed Electronics</i> , 2021, 6, 044001.	2.7	6
12	Fully roll-to-roll gravure printed 4-bit code generator based on p-type SWCNT thin-film transistors. <i>Flexible and Printed Electronics</i> , 2021, 6, 044005.	2.7	8
13	Impact of Sensor Data Characterization with Directional Nature of Fault and Statistical Feature Combination for Defect Detection on Roll-to-Roll Printed Electronics. <i>Sensors</i> , 2021, 21, 8454.	3.8	7
14	A Smart Food Label Utilizing Roll-to-Roll Gravure Printed NFC Antenna and Thermistor to Replace Existing â€Use-Byâ€Date System. <i>IEEE Sensors Journal</i> , 2020, 20, 2106-2116.	4.7	17
15	Bridging R2R Printed Wireless 1 Bitâ€Code Generator with an Electrophoretic QR Code Acting as WORM for NFC Carrier Enabled Authentication Label. <i>Advanced Materials Technologies</i> , 2020, 5, 1900935.	5.8	23
16	The First Step towards a R2R Printing Foundry via a Complementary Design Rule in Physical Dimension for Fabricating Flexible 4â€Bit Code Generator. <i>Advanced Electronic Materials</i> , 2020, 6, 2000770.	5.1	17
17	Proving the robustness of a PEDOT:PSS-based thermistor<i>via</i></i>functionalized graphene oxideâ€poly(vinylidene fluoride) composite encapsulation for food logistics. <i>RSC Advances</i> , 2020, 10, 12407-12414.	3.6	20
18	Fully R2Râ€Printed Carbonâ€Nanotubeâ€Based Limitless Length of Flexible Activeâ€Matrix for Electrophoretic Display Application. <i>Advanced Electronic Materials</i> , 2020, 6, 1901431.	5.1	49

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19	Printed Electronics: Bridging R2R Printed Wireless 1 Bit Code Generator with an Electrophoretic QR Code Acting as WORM for NFC Carrier Enabled Authentication Label (Adv. Mater. Technol. 2/2020). Advanced Materials Technologies, 2020, 5, 2070012.	5.8	0
20	Improving the Stability of R2R Printed 1 Bit Code Generator through Spin-Coated Multilayer Encapsulation Method. Macromolecular Materials and Engineering, 2020, 305, 1900867.	3.6	8
21	Methylxanthine Drug Monitoring with Wearable Sweat Sensors. Advanced Materials, 2018, 30, e1707442.	21.0	226
22	R2R Gravure as an Additive Manufacturing Technology for the Fabrication of Large Area Flexible Displays and Inexpensive NFC Sensor Tags. , 2018, , .		1
23	An Electroactive Binder in the Formulation of IGZO Ink to Print an IGZO-Based Rectifier for Harvesting Direct Current (DC) Power from the Near Field Communication (NFC) Signal of a Smartphone. Advanced Electronic Materials, 2018, 4, 1800078.	5.1	8
24	Roll-to-Roll Gravure Printed Electrochemical Sensors for Wearable and Medical Devices. ACS Nano, 2018, 12, 6978-6987.	14.6	275
25	Proving Scalability of an Organic Semiconductor To Print a TFT-Active Matrix Using a Roll-to-Roll Gravure. ACS Omega, 2017, 2, 5766-5774.	3.5	38
26	Fully Printed and Encapsulated SWCNT-Based Thin Film Transistors via a Combination of R2R Gravure and Inkjet Printing. ACS Applied Materials & Interfaces, 2016, 8, 27900-27910.	8.0	125
27	Fully gravure printed complementary carbon nanotube TFTs for a clock signal generator using an epoxy-imine based cross-linker as an n-dopant and encapsulant. Nanoscale, 2016, 8, 19876-19881.	5.6	19
28	A fully roll-to-roll gravure-printed carbon nanotube-based active matrix for multi-touch sensors. Scientific Reports, 2015, 5, 17707.	3.3	96
29	Fully printed flexible and disposable wireless cyclic voltammetry tag. Scientific Reports, 2015, 5, 8105.	3.3	61
30	Scalability of carbon-nanotube-based thin film transistors for flexible electronic devices manufactured using an all roll-to-roll gravure printing system. Scientific Reports, 2015, 5, 14459.	3.3	54
31	Large-Area Compliant Tactile Sensors Using Printed Carbon Nanotube Active-Matrix Backplanes. Advanced Materials, 2015, 27, 1561-1566.	21.0	198
32	Key Issues With Printed Flexible Thin Film Transistors and Their Application in Disposable RF Sensors. Proceedings of the IEEE, 2015, 103, 554-566.	21.3	73
33	An exploration of ocular glucose levels with flexible RF biosensor using polyethylene terephthalate. , 2014, , .		1
34	Roll-to-Roll Gravure with Nanomaterials for Printing Smart Packaging. Journal of Nanoscience and Nanotechnology, 2014, 14, 1303-1317.	0.9	32
35	Fully roll-to-roll gravure printed carbon nanotube based flexible thin film transistor backplane on 100 m of poly(ethyleneterephthalate) (PET) web. , 2014, , .		3
36	Flexible screen printed biosensor with high-Q microwave resonator for rapid and sensitive detection of glucose. , 2014, , .		10

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37	Fully Roll-to-Roll Gravure Printable Wireless (13.56MHz) Sensor-Signage Tags for Smart Packaging. Scientific Reports, 2014, 4, 5387.	3.3	94
38	Fully Printed, High Performance Carbon Nanotube Thin-Film Transistors on Flexible Substrates. Nano Letters, 2013, 13, 3864-3869.	9.1	372
39	Characterization of thiol-functionalized oligo(phenylene-ethynylene)-protected Au nanoparticles by scanning tunneling microscopy and spectroscopy. Applied Physics Letters, 2012, 101, 083115.	3.3	13
40	Fully Gravure-Printed Flexible Full Adder Using SWNT-Based TFTs. IEEE Electron Device Letters, 2012, 33, 1574-1576.	3.9	44
41	Fully roll-to-roll gravure printed rectenna on plastic foils for wireless power transmission at 13.56 MHz. Nanotechnology, 2012, 23, 344006.	2.6	67
42	Fully Gravure-Printed D Flip-Flop on Plastic Foils Using Single-Walled Carbon-Nanotube-Based TFTs. IEEE Electron Device Letters, 2011, 32, 638-640.	3.9	80
43	Fully Gravure Printed Half Adder on Plastic Foils. IEEE Electron Device Letters, 2011, 32, 1555-1557.	3.9	33
44	Electrical Characteristics of GaAs Nanowire-Based MESFETs on Flexible Plastics. IEEE Transactions on Electron Devices, 2011, 58, 1096-1101.	3.0	12
45	All-Printed and Roll-to-Roll-Printable 13.56-MHz-Operated 1-bit RF Tag on Plastic Foils. IEEE Transactions on Electron Devices, 2010, 57, 571-580.	3.0	421
46	Modeling of printed single walled carbon nanotube thin film transistors for attaining optimized clock signals. Journal of Applied Physics, 2010, 108, 102811.	2.5	9
47	Preface to Special Topic: Selected Papers from the International Conference on Flexible and Printed Electronics, Jeju Island, Korea, 2009. Journal of Applied Physics, 2010, 108, 102701.	2.5	2
48	WAY OF ROLL-TO-ROLL PRINTED 13.56 MHz OPERATED RFID TAGS. , 2010, , 297-318.		0
49	Scalability of Roll-to-Roll Gravure-Printed Electrodes on Plastic Foils. IEEE Transactions on Electronics Packaging Manufacturing, 2010, 33, 275-283.	1.4	140
50	Printed detection and resonant circuit for AM radio. , 2009, , .		0
51	Highly selective incorporation of SiO <sub>2</sub> nanoparticles in PS-b-P2VP block copolymers by quaternization. Journal of Materials Chemistry, 2009, 19, 7322.	6.7	15
52	Conducting Block Copolymer for Simple Micro- to Nanopatterns. Langmuir, 2006, 22, 4896-4898.	3.5	4
53	Organic memory device using tailored nanostructure of conducting polymer. , 2006, , .		0
54	New method for the preparation of solid polymer electrolyte based on poly(vinylidene fluoride) / Overlock, 10 Tf 50 62 Td (fluor	2.7	10

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55	Micrometer to Nanometer Patterns of Polypyrrole Thin Films via Microphase Separation and Molecular Mask. <i>Langmuir</i> , 2002, 18, 7253-7257.	3.5	60
56	Femtosecond Emission Studies on Gold Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7581-7584.	2.6	50
57	Preparation of Gold-Polypyrrole Core-shell Nanoparticles. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 371, 127-130.	0.3	3
58	Enhanced Adhesion of Deposited Polypyrrole Ultra-Thin Films Through Self-Assembled Polymeric Monolayers. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 337, 153-156.	0.3	0
59	Production of maltooligosaccharides from starch and separation of maltopentaose by adsorption of them on activated carbon (I). <i>Biotechnology and Bioprocess Engineering</i> , 1997, 2, 19-22.	2.6	10
60	Improved NLO properties through a liquid crystal phase poling. <i>AIChE Journal</i> , 1997, 43, 2827-2831.	3.6	2
61	Roll-to-Roll Gravure-Printed Carbon Nanotube-Based Transistor Arrays for a Digital Column Chromatograph. <i>Advanced Materials Technologies</i> , 0, , 2101243.	5.8	4