Gyoujin Cho

List of Publications by Year
in descending order

61	2,971	304743 22	182427 51
papers	citations	h-index	g-index

61	61	61	3603
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Fully Printed, High Performance Carbon Nanotube Thin-Film Transistors on Flexible Substrates. Nano Letters, 2013, 13, 3864-3869.	9.1	372
3	Roll-to-Roll Gravure Printed Electrochemical Sensors for Wearable and Medical Devices. ACS Nano, 2018, 12, 6978-6987.	14.6	275
4	Methylxanthine Drug Monitoring with Wearable Sweat Sensors. Advanced Materials, 2018, 30, e1707442.	21.0	226
5	Largeâ€Area Compliant Tactile Sensors Using Printed Carbon Nanotube Activeâ€Matrix Backplanes. Advanced Materials, 2015, 27, 1561-1566.	21.0	198
6	Scalability of Roll-to-Roll Gravure-Printed Electrodes on Plastic Foils. IEEE Transactions on Electronics Packaging Manufacturing, 2010, 33, 275-283.	1.4	140
7	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
8	The 2021 flexible and printed electronics roadmap. Flexible and Printed Electronics, 2021, 6, 023001.	2.7	100
9	A fully roll-to-roll gravure-printed carbon nanotube-based active matrix for multi-touch sensors. Scientific Reports, 2015, 5, 17707.	3.3	96
10	Fully Roll-to-Roll Gravure Printable Wireless (13.56â€...MHz) Sensor-Signage Tags for Smart Packaging. Scientific Reports, 2014, 4, 5387.	3.3	94
11	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
12	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
13	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
14	Fully printed flexible and disposable wireless cyclic voltammetry tag. Scientific Reports, 2015, 5, 8105.	3.3	61
15	Micrometer to Nanometer Patterns of Polypyrrole Thin Films via Microphase Separation and Molecular Mask. Langmuir, 2002, 18, 7253-7257.	3.5	60
16	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
17	Femtosecond Emission Studies on Gold Nanoparticles. Journal of Physical Chemistry B, 2002, 106, 7581-7584.	2.6	50
18	Fully R2Râ€Printed Carbonâ€Nanotubeâ€Based Limitless Length of Flexible Activeâ€Matrix for Electrophoretic Display Application. Advanced Electronic Materials, 2020, 6, 1901431.	5.1	49

#	Article	IF	Citations
19	Fully Gravure-Printed Flexible Full Adder Using SWNT-Based TFTs. IEEE Electron Device Letters, 2012, 33, 1574-1576.	3.9	44
20	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
21	Fully Gravure Printed Half Adder on Plastic Foils. IEEE Electron Device Letters, 2011, 32, 1555-1557.	3.9	33
22	Roll-to-Roll Gravure with Nanomaterials for Printing Smart Packaging. Journal of Nanoscience and Nanotechnology, 2014, 14, 1303-1317.	0.9	32
23	Bridging R2R Printed Wireless 1 Bitâ€Code Generator with an Electrophoretic QR Code Acting as WORM for NFC Carrier Enabled Authentication Label. Advanced Materials Technologies, 2020, 5, 1900935.	5.8	23
24	Proving the robustness of a PEDOT:PSS-based thermistorviafunctionalized graphene oxideâ€“poly(vinylidene fluoride) composite encapsulation for food logistics. RSC Advances, 2020, 10, 12407-12414.	3.6	20
25	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
26	A Smart Food Label Utilizing Roll-to-Roll Gravure Printed NFC Antenna and Thermistor to Replace Existing â€œUse-Byâ€•Date System. IEEE Sensors Journal, 2020, 20, 2106-2116.	4.7	17
27	The First Step towards a R2R Printing Foundry via a Complementary Design Rule in Physical Dimension for Fabricating Flexible 4â€Bit Code Generator. Advanced Electronic Materials, 2020, 6, 2000770.	5.1	17
28	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
29	Highly selective incorporation of SiO2 nanoparticles in PS-b-P2VP block copolymers by quaternization. Journal of Materials Chemistry, 2009, 19, 7322.	6.7	15
30	Fully roll-to-roll gravure printed electronics: challenges and the way to integrating logic gates. Japanese Journal of Applied Physics, 2022, 61, SE0802.	1.5	14
31	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
32	Electrical Characteristics of GaAs Nanowire-Based MESFETs on Flexible Plastics. IEEE Transactions on Electron Devices, 2011, 58, 1096-1101.	3.0	12
33	Production of maltooligosaccharides from starch and separation of maltopentaose by adsorption of them on activated carbon (I). Biotechnology and Bioprocess Engineering, 1997, 2, 19-22.	2.6	10
34	Flexible screen printed biosensor with high-Q microwave resonator for rapid and sensitive detection of glucose. , 2014, , .		10
35	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
36	An Electroactive Binder in the Formulation of IGZO Ink to Print an IGZOâ€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

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37	Improving the Stability of R2R Printed 1â€Bit Code Generator through Spinâ€Coated Multilayerâ€Encapsulation Method. Macromolecular Materials and Engineering, 2020, 305, 1900867.	3.6	8
38	Fully roll-to-roll gravure printed 4-bit code generator based on p-type SWCNT thin-film transistors. Flexible and Printed Electronics, 2021, 6, 044005.	2.7	8
39	New method for the preparation of solid polymer electrolyte based on poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.7	7
40	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.	3.8	7
41	Wireless pH-logger label for intelligent food packaging. Flexible and Printed Electronics, 2021, 6, 044001.	2.7	6
42	Printed Four Keyâ€Device Units for Unified Platform of Wireless Antiâ€Counterfeiting Label to Bridge in Blockchain. Advanced Materials Technologies, 2022, 7, 2100969.	5.8	6
43	A Printed Wireless Triangleâ€Wave Generator via a Smartphone. Advanced Engineering Materials, 2022, 24, 2100896.	3.5	5
44	Characterization of silver nanoparticle inks toward stable roll-to-roll gravure printing. Flexible and Printed Electronics, 2022, 7, 014003.	2.7	5
45	Conducting Block Copolymer for Simple Micro- to Nanopatterns. Langmuir, 2006, 22, 4896-4898.	3.5	4
46	Rollâ€toâ€Roll Gravureâ€Printed Carbon Nanotubeâ€based Transistor Arrays for a Digital Column Chromatograph. Advanced Materials Technologies, 0, , 2101243.	5.8	4
47	Preparation of Gold-Polypyrrole Core-shell Nanoparticles. Molecular Crystals and Liquid Crystals, 2001, 371, 127-130.	0.3	3
48	Fully roll-to-roll gravure printed carbon nanotube based flexible thin film transistor backplane on 100 m of poly(ethyleneterephtalate) (PET) web. , 2014, , .		3
49	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
50	Strain Optimization of Tensioned Web through Computational Fluid Dynamics in the Roll-to-Roll Drying Process. Polymers, 2022, 14, 2515.	4.5	3
51	Improved NLO properties through a liquid crystal phase poling. AICHE Journal, 1997, 43, 2827-2831.	3.6	2
52	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
53	An exploration of ocular glucose levels with flexible RF biosensor using polyethylene terephthalate. , 2014, , .		1
54	R2R Gravure as an Additive Manufacturing Technology for the Fabrication of Large Area Flexible Displays and Inexpensive NFC Sensor Tags. , 2018, , .		1

#	Article	IF	Citations
55	A Printable Thin Filmâ€Based Digital Peristaltic Stickerâ€Pump for a Simple and Robust Integration into Microfluidics. Advanced Materials Technologies, 2021, 6, 2001031.	5.8	1
56	Effect of Radial Stress on the Nanoparticle-Based Electrolyte Layer in a Center-Wound Roll with Roll-to-Roll Systems. Nanomaterials, 2022, 12, 1014.	4.1	1
57	Enhanced Adhesion of Deposited Polypyrrole Ultra-Thin Films Through Self-Assembled Polymeric Monolayers. Molecular Crystals and Liquid Crystals, 1999, 337, 153-156.	0.3	0
58	Organic memory device using tailored nanostructure of conducting polymer. , 2006, , .		0
59	Printed detection and resonant circuit for AM radio. , 2009, , .		0
60	WAY OF ROLL-TO-ROLL PRINTED 13.56 MHz OPERATED RFID TAGS. , 2010, , 297-318.		0
61	Printed Electronics: Bridging R2R Printed Wireless 1 Bitâ€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