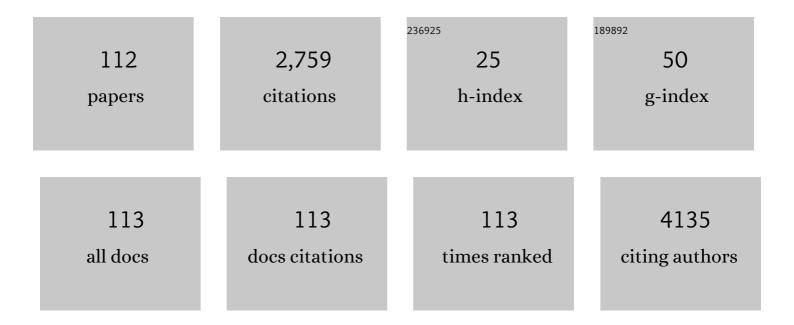
Sangyoon Lee

List of Publications by Year in descending order

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SANCYOONLEE

#	Article	IF	CITATIONS
1	Fabrication of Comb-Structured Acceleration Sensors by Roll-to-Roll Gravure Printing. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 409-420.	4.9	13
2	Fabrication and Characterization of Roll-to-Roll-Coated Cantilever-Structured Touch Sensors. ACS Applied Materials & Interfaces, 2020, 12, 46797-46803.	8.0	12
3	Cantilever Type Acceleration Sensors Made by Roll-to-Roll Slot-Die Coating. Sensors, 2020, 20, 3748.	3.8	8
4	Robust multiperiod inventory model considering trade-in program and refurbishment service: Implications to emerging markets. Transportation Research, Part E: Logistics and Transportation Review, 2020, 138, 101932.	7.4	20
5	Design of general-purpose assistive exoskeleton robot controller for upper limbs. Journal of Mechanical Science and Technology, 2019, 33, 3509-3519.	1.5	5
6	Fabrication and Characterization of Roll-to-Roll Printed Air-Gap Touch Sensors. Polymers, 2019, 11, 245.	4.5	12
7	Enhancement of the electrical performance of a printed organic thin film transistor through optimization of calendering process. Organic Electronics, 2018, 54, 126-132.	2.6	7
8	Supervisory Control for a Switched Mode Hydraulic Transformer. , 2018, , .		2
9	Application of calendering for improving the electrical characteristics of a printed top-gate, bottom-contact organic thin film transistors. Japanese Journal of Applied Physics, 2018, 57, 05GC01.	1.5	5
10	Fabrication of a printed capacitive air-gap touch sensor. Japanese Journal of Applied Physics, 2018, 57, 05GC04.	1.5	6
11	Bi-layered metal-oxide thin films processed at low-temperature for the encapsulation of highly stable organic photo-diode. Organic Electronics, 2017, 41, 259-265.	2.6	10
12	Dually crosslinkable SiO2@polysiloxane core–shell nanoparticles for flexible gate dielectric insulators. RSC Advances, 2017, 7, 17841-17847.	3.6	2
13	An Alternative Host Material for Longâ€Lifespan Blue Organic Lightâ€Emitting Diodes Using Thermally Activated Delayed Fluorescence. Advanced Science, 2017, 4, 1600502.	11.2	103
14	Enhanced Performance of Thiophene-Rich Heteroacene, Dibenzothiopheno [6,5-b:6',5'-f] Thieno[3,2-b]Thiophene Thin-Film Transistor With MoO _x Hole Injection Layers. IEEE Electron Device Letters, 2017, 38, 649-652.	3.9	6
15	Design and experiments of an upper-limb exoskeleton robot. , 2017, , .		5
16	Preparation of Cu nanoparticles with controlled particle size and distribution via reaction temperature and sonication. Surface and Interface Analysis, 2017, 49, 405-409.	1.8	5
17	Using an Optimized Calendering Process with a Grey-Based Taguchi Method to Enhance the Performance of a Printed OTFT. Science of Advanced Materials, 2017, 10, 501-506.	0.7	5
18	Mechanically Durable and Highly Stretchable Transistors Employing Carbon Nanotube Semiconductor and Electrodes. Advanced Materials, 2016, 28, 4441-4448.	21.0	234

#	Article	IF	CITATIONS
19	Force Analysis and Modelling of Soft Actuators for Catheter Robots. , 2016, , .		2
20	Multi Degree-of-Freedom Hydraulic Human Power Amplifier With Rendering of Assistive Dynamics. , 2016, , .		2
21	Energy Gap between Photoluminescence and Electroluminescence as Recombination Indicator in Organic Small-Molecule Photodiodes. Journal of Physical Chemistry C, 2016, 120, 10176-10184.	3.1	11
22	Magnetic Field Effect in Organic Lightâ€Emitting Diodes Based on Electron Donor–Acceptor Exciplex Chromophores Doped with Fluorescent Emitters. Advanced Functional Materials, 2016, 26, 6930-6937.	14.9	37
23	Narrow-Band Organic Photodiodes for High-Resolution Imaging. ACS Applied Materials & Interfaces, 2016, 8, 26143-26151.	8.0	59
24	Defect-related photoluminescence properties of as-synthesized and annealed NiO nanostructures via hydrothermal method. Thin Solid Films, 2016, 598, 33-38.	1.8	12
25	Water-head pumps provide precise and fast microfluidic pumping and switching versus syringe pumps. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	11
26	Dipolar donor–acceptor molecules in the cyanine limit for high efficiency green-light-selective organic photodiodes. Journal of Materials Chemistry C, 2016, 4, 1117-1125.	5.5	40
27	Analysis and Simulation of a Jumping Robot Actuated by Shape Memory Alloy. Advances in Intelligent Systems and Computing, 2016, , 1315-1326.	0.6	0
28	Improvement of the Performance of Printed Organic Thin Film Transistor by Calendering Process. Science of Advanced Materials, 2016, 8, 363-368.	0.7	9
29	Development of a Minimally Actuated Jumping-Rolling Robot. International Journal of Advanced Robotic Systems, 2015, 12, 45.	2.1	4
30	Passive Control of a Hydraulic Human Power Amplifier Using a Hydraulic Transformer. , 2015, , .		1
31	Low dark current inverted organic photodetectors employing MoO x :Al cathode interlayer. Organic Electronics, 2015, 24, 176-181.	2.6	21
32	Passivity Based Backstepping Control for Trajectory Tracking Using a Hydraulic Transformer. , 2015, , .		7
33	Organic-on-silicon complementary metal–oxide–semiconductor colour image sensors. Scientific Reports, 2015, 5, 7708.	3.3	94
34	Thin Films of Highly Planar Semiconductor Polymers Exhibiting Band-like Transport at Room Temperature. Journal of the American Chemical Society, 2015, 137, 7990-7993.	13.7	48
35	Optimization of calendering process using Taguchi method to improve the performance of printed capacitor. Japanese Journal of Applied Physics, 2014, 53, 05HC06.	1.5	7
36	Simulation and experiments of a four-legged robot that can locomote by crawling and jumping. , 2014, , .		1

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#	Article	IF	CITATIONS
37	Stability enhancement of an electrically tunable colloidal photonic crystal using modified electrodes with a large electrochemical potential window. Applied Physics Letters, 2014, 104, .	3.3	20
38	Structural Color Manipulation Using Tunable Photonic Crystals with Enhanced Switching Reliability. Advanced Optical Materials, 2014, 2, 535-541.	7.3	35
39	Lateral control system for roll-to-roll fabrication process of organic photovoltaic. Japanese Journal of Applied Physics, 2014, 53, 05HC09.	1.5	7
40	Robust classification of hand posture to arm posture change using inertial measurement units. , 2014, , .		0
41	Flexible nano-hybrid inverter based on inkjet-printed organic and 2D multilayer MoS 2 thin film transistor. Organic Electronics, 2014, 15, 3038-3042.	2.6	13
42	Dynamic Characterization of Green-Sensitive Organic Photodetectors Using Nonfullerene Small Molecules: Frequency Response Based on the Molecular Structure. Journal of Physical Chemistry C, 2014, 118, 13424-13431.	3.1	42
43	lonic self-assembled monolayer for low contact resistance in inkjet-printed coplanar structure organic thin-film transistors. Organic Electronics, 2014, 15, 2021-2026.	2.6	12
44	Classification of hand postures using forearm perimeter sensor and compensation of residual muscle volume change with sEMG. International Journal of Mechatronics and Automation, 2014, 4, 213.	0.2	1
45	Electrically tunable photonic crystals from long-range ordered crystalline arrays composed of copolymer colloids. Journal of Materials Chemistry C, 2013, 1, 5791.	5.5	35
46	Improvement of photo-induced negative bias stability of oxide thin film transistors by reducing the density of sub-gap states related to oxygen vacancies. Applied Physics Letters, 2013, 102, .	3.3	23
47	Design of an shape memory alloy-actuated biomimetic mobile robot with the jumping gait. International Journal of Control, Automation and Systems, 2013, 11, 991-1000.	2.7	10
48	Improving the performance of hand posture classification by perimeter sensor with sEMG. , 2013, , .		2
49	A high performance green-sensitive organic photodiode comprising a bulk heterojunction of dimethyl-quinacridone and dicyanovinyl terthiophene. Journal of Materials Chemistry C, 2013, 1, 2666.	5.5	40
50	Experimental demonstration of acoustic and electromagnetic metamaterials with conical dispersion. , 2013, , .		0
51	Simulation and analysis on dynamics of a minimally-actuated hybrid mobile robot. , 2013, , .		0
52	Statistical analysis on the effect of calendering process parameters on the geometry and conductivity of printed patterns. Robotics and Computer-Integrated Manufacturing, 2013, 29, 424-430.	9.9	11
53	Green-Sensitive Organic Photodetectors with High Sensitivity and Spectral Selectivity Using Subphthalocyanine Derivatives. ACS Applied Materials & Interfaces, 2013, 5, 13089-13095.	8.0	85
54	Role of incorporated hydrogen on performance and photo-bias instability of indium gallium zinc oxide thin film transistors. Journal Physics D: Applied Physics, 2013, 46, 055104.	2.8	67

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55	Arrayed beam steering device for advanced 3D displays. Proceedings of SPIE, 2013, , .	0.8	10
56	Low dark current small molecule organic photodetectors with selective response to green light. Applied Physics Letters, 2013, 103, 043305.	3.3	60
57	Electrically Driven Diffraction Grating Designed for Visible-Wavelength Region. IEEE Electron Device Letters, 2013, 34, 84-86.	3.9	3
58	Space-coiling metamaterials with double negativity and conical dispersion. Scientific Reports, 2013, 3, 1614.	3.3	146
59	A fast mesoscale quadruped robot using piezocomposite actuators. Robotica, 2013, 31, 89-98.	1.9	8
60	Classification of hand grasp using perimeter change of the forearm. , 2012, , .		1
61	Photoexcited charge collection spectroscopy of two-dimensional polaronic states in polymer thin-film transistors. Physical Review B, 2012, 85, .	3.2	15
62	Microscopic Origin of Universal Quasilinear Band Structures of Transparent Conducting Oxides. Physical Review Letters, 2012, 108, 196404.	7.8	24
63	Enhanced electrical stability of organic thin-film transistors with polymer semiconductor-insulator blended active layers. Applied Physics Letters, 2012, 100, 083302.	3.3	24
64	Improvement in the device performance of tin-doped indium oxide transistor by oxygen high pressure annealing at 150 °C. Applied Physics Letters, 2012, 100, .	3.3	50
65	Color filters for reflective display with wide viewing angle and high reflectivity based on metal dielectric multilayer. Applied Physics Letters, 2012, 101, .	3.3	7
66	A Shape Memory Alloy-Actuated Bio-Inspired Mesoscale Jumping Robot. International Journal of Advanced Robotic Systems, 2012, 9, 91.	2.1	4
67	Full Color Tunable Photonic Crystal from Crystalline Colloidal Arrays with an Engineered Photonic Stopâ€Band. Advanced Materials, 2012, 24, 6438-6444.	21.0	147
68	High-performance photorefractive polymer composites based on poly(9-vinyl-3-carbazolcarboxyaldehyde diphenylhydrazone). Macromolecular Research, 2012, 20, 1118-1120.	2.4	0
69	A novel design of a robot that can jump and roll with a single actuator. , 2012, , .		8
70	An effective light-extracting microstructure for a single-sheet backlight unit for liquid crystal display. Journal of Micromechanics and Microengineering, 2012, 22, 095006.	2.6	11
71	Organic Photodiode with High Infrared Light Sensitivity Based on Tin Phthalocyanine/C\$_{60}\$ Bulk Heterojunction and Optical Interference Effect. Japanese Journal of Applied Physics, 2012, 51, 034103.	1.5	15
72	Application of a fuzzy controller for the lateral control in roll-to-roll printed electronics. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1525-1532.	2.2	6

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73	Mechanical design of RiceWrist-S: A forearm-wrist exoskeleton for stroke and spinal cord injury rehabilitation. , 2012, , .		30
74	Atomicâ€layerâ€deposited ZnO thinâ€film transistors with various gate dielectrics. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2087-2090.	1.8	23
75	Efficient closed-form solution of inverse kinematics for a specific six-DOF arm. International Journal of Control, Automation and Systems, 2012, 10, 567-573.	2.7	18
76	Gain-Assisted Hyperbolic Metamaterials. , 2012, , .		0
77	Design and Simulation of a Jumping Robot Driven by Shape Memory Alloy and Elastic Energy. Advanced Science Letters, 2012, 8, 302-306.	0.2	0
78	Enhancement of Lateral Control via Vision System for Printed Electronics. Advanced Science Letters, 2012, 8, 153-157.	0.2	0
79	The Effect of Active-Layer Thickness and Back-Channel Conductivity on the Subthreshold Transfer Characteristics of Hf–In–Zn–O TFTs. IEEE Electron Device Letters, 2011, 32, 1077-1079.	3.9	22
80	Improvement of surface roughness and conductivity by calendering process for printed electronics. , 2011, , .		0
81	Loss-compensated and active hyperbolic metamaterials. Optics Express, 2011, 19, 25242.	3.4	126
82	Design and simulation of a robot that can walk and jump. , 2011, , .		1
83	43.2: Mutual Capacitance Touch Screen Integrated into Thin Film Encapsulated Active-Matrix OLED. Digest of Technical Papers SID International Symposium, 2011, 42, 621-624.	0.3	6
84	Characterization of bias stress induced electrical instability in liquid-crystalline semiconducting polymer thin-film transistors. Journal of Applied Physics, 2011, 110, .	2.5	8
85	A Highly Sensitive Capacitive Touch Sensor Integrated on a Thin-Film-Encapsulated Active-Matrix OLED for Ultrathin Displays. IEEE Transactions on Electron Devices, 2011, 58, 3609-3615.	3.0	71
86	Molecular Weightâ€Induced Structural Transition of Liquidâ€Crystalline Polymer Semiconductor for Highâ€Stability Organic Transistor. Advanced Functional Materials, 2011, 21, 4442-4447.	14.9	21
87	Microfluidic Arrays for Rapid Characterization of Organic Thinâ€Film Transistor Performance. Advanced Materials, 2011, 23, 1257-1261.	21.0	18
88	Organic TFTs: Microfluidic Arrays for Rapid Characterization of Organic Thin-Film Transistor Performance (Adv. Mater. 10/2011). Advanced Materials, 2011, 23, 1172-1172.	21.0	1
89	Mechanically and optically reliable folding structure with a hyperelastic material for seamless foldable displays. Applied Physics Letters, 2011, 98, .	3.3	38
90	18.4: A New Seamless Foldable OLED Display Composed of Multi Display Panels. Digest of Technical Papers SID International Symposium, 2010, 41, 257-260.	0.3	22

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#	Article	IF	CITATIONS
91	Fuzzy control of the lateral position of web using a steering guide. , 2010, , .		1
92	Steering guide-based lateral control for roll-to-roll printed electronics. Journal of Mechanical Science and Technology, 2010, 24, 319-322.	1.5	10
93	Homogeneous Al2O3 multilayer structures with reinforced mechanical stability for high-performance and high-throughput thin-film encapsulation. Scripta Materialia, 2010, 62, 447-450.	5.2	8
94	Design and implementation of an SMA-actuated jumping robot. , 2010, , .		1
95	Design of an SMA-actuated jumping robot. , 2010, , .		1
96	Nonlinear characteristics in radio frequency nanoelectromechanical resonators. New Journal of Physics, 2010, 12, 043023.	2.9	7
97	High Performance Organic Thin-Film Transistor based on Amorphous A,B-Alternating Poly(arylenevinylene) Copolymers. Macromolecules, 2010, 43, 6045-6049.	4.8	19
98	Fabrication and Evaluation of Solution-Processed Reduced Graphene Oxide Electrodes for p- and n-Channel Bottom-Contact Organic Thin-Film Transistors. ACS Nano, 2010, 4, 6343-6352.	14.6	69
99	High-Performance and Stable Transparent Hf–In–Zn–O Thin-Film Transistors With a Double-Etch-Stopper Layer. IEEE Electron Device Letters, 2010, , .	3.9	6
100	Influence of Illumination on the Negative-Bias Stability of Transparent Hafnium–Indium–Zinc Oxide Thin-Film Transistors. IEEE Electron Device Letters, 2010, 31, 440-442.	3.9	53
101	Fuzzy control of the lateral position of a moving web in roll-to-roll processes. , 2009, , .		1
102	Resonance Properties of 3C-SiC Nanoelectromechanical Resonator in Room-Temperature Magnetomotive Transduction. IEEE Electron Device Letters, 2009, 30, 1042-1044.	3.9	9
103	Development of a mesoscale self-contained bounding robot. , 2009, , .		1
104	Piezoelectrically Actuated Biomimetic Self-Contained Quadruped Bounding Robot. Journal of Bionic Engineering, 2009, 6, 29-36.	5.0	14
105	Thin-film encapsulation of top-emission organic light-emitting devices with polyurea/Al2O3 hybrid multi-layers. Organic Electronics, 2009, 10, 1352-1355.	2.6	39
106	Liquid-Crystalline Semiconducting Copolymers with Intramolecular Donorâ^'Acceptor Building Blocks for High-Stability Polymer Transistors. Journal of the American Chemical Society, 2009, 131, 6124-6132.	13.7	225
107	Spin-Coated CdS Thin Films for n-Channel Thin Film Transistors. Chemistry of Materials, 2009, 21, 604-611.	6.7	93

Lateral Position Control of a Moving Web in Roll-to-Roll Processes. , 2008, , .

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109	Two Types of Biologically-Inspired Mesoscale Quadruped Robots. , 2008, , .		0
110	A small and fast piezo-actuated legged robot. , 2007, , .		2
111	Two types of quadruped robots: Bounding and walking. , 2007, , .		0
112	Development of a biomimetic quadruped robot. Journal of Bionic Engineering, 2007, 4, 193-199.	5.0	23