Sunghoon Lee

List of Publications by Year
in descending order

38 papers	3,489 citations	361413 20 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	4626 citing authors

#	Article	IF	Citations
1	Highly Precise, Continuous, Longâ€Term Monitoring of Skin Electrical Resistance by Nanomesh Electrodes. Advanced Healthcare Materials, 2022, 11, e2102425.	7.6	10
2	Skin bioelectronics towards long-term, continuous health monitoring. Chemical Society Reviews, 2022, 51, 3759-3793.	38.1	85
3	On-skin paintable biogel for long-term high-fidelity electroencephalogram recording. Science Advances, 2022, 8, .	10.3	58
4	Gasâ€Permeable Organic Electrochemical Transistor Embedded with a Porous Solidâ€State Polymer Electrolyte as an onâ€Skin Active Electrode for Electrophysiological Signal Acquisition. Advanced Functional Materials, 2022, 32, .	14.9	12
5	Antimicrobial second skin using copper nanomesh. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	10
6	Highâ€Transconductance Organic Electrochemical Transistor Fabricated on Ultrathin Films Using Spray Coating. Small Structures, 2021, 2, 2000088.	12.0	15
7	Molecular doping of near-infrared organic photodetectors for photoplethysmogram sensors. Journal of Materials Chemistry C, 2021, 9, 3129-3135.	5.5	6
8	Skin Electronics: Nextâ€Generation Device Platform for Virtual and Augmented Reality. Advanced Functional Materials, 2021, 31, 2009602.	14.9	100
9	Continuous measurement of surface electrical potentials from transplanted cardiomyocyte tissue derived from human-induced pluripotent stem cells under physiological conditions in vivo. Heart and Vessels, 2021, 36, 899-909.	1.2	1
10	55â€2: Invited Paper: Nanomesh Based on Skin Electronics. Digest of Technical Papers SID International Symposium, 2021, 52, 768-771.	0.3	0
11	Foundry-compatible high-resolution patterning of vertically phase-separated semiconducting films for ultraflexible organic electronics. Nature Communications, 2021, 12, 4937.	12.8	19
12	An organic transistor matrix for multipoint intracellular action potential recording. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
13	Skin Electronics: Nextâ€Generation Device Platform for Virtual and Augmented Reality (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT /Overl	14.9	19
14	Robust, self-adhesive, reinforced polymeric nanofilms enabling gas-permeable dry electrodes for long-term application. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	57
15	Organic electronics Axon-Hillock neuromorphic circuit: towards biologically compatible, and physically flexible, integrate-and-fire spiking neural networks. Journal Physics D: Applied Physics, 2021, 54, 104004.	2.8	16
16	Nanomesh pressure sensor for monitoring finger manipulation without sensory interference. Science, 2020, 370, 966-970.	12.6	361
17	A durable nanomesh on-skin strain gauge for natural skin motion monitoring with minimum mechanical constraints. Science Advances, 2020, 6, eabb7043.	10.3	155
18	Nanomesh Organic Electrochemical Transistor for Comfortable On-Skin Electrodes with Local Amplifying Function. ACS Applied Electronic Materials, 2020, 2, 3601-3609.	4.3	26

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19	Ultraflexible organic light-emitting diodes for optogenetic nerve stimulation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21138-21146.	7.1	44
20	All-nanofiberâ€“based, ultrasensitive, gas-permeable mechanoacoustic sensors for continuous long-term heart monitoring. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7063-7070.	7.1	110
21	A conformable imager for biometric authentication and vital sign measurement. Nature Electronics, 2020, 3, 113-121.	26.0	134
22	Organic Photovoltaics: Toward Self-Powered Wearable Electronics. Proceedings of the IEEE, 2019, 107, 2137-2154.	21.3	56
23	Ultrathin Organic Electrochemical Transistor with Nonvolatile and Thin Gel Electrolyte for Longâ€Term Electrophysiological Monitoring. Advanced Functional Materials, 2019, 29, 1906982.	14.9	79
24	Highly Durable Nanofiber-Reinforced Elastic Conductors for Skin-Tight Electronic Textiles. ACS Nano, 2019, 13, 7905-7912.	14.6	103
25	Suppressing Dark Current in Organic Phototransistors through Modulating Electron Injection via a Deep Work Function Electrode. ACS Applied Electronic Materials, 2019, 1, 1054-1058.	4.3	4
26	Ultrasoft electronics to monitor dynamically pulsing cardiomyocytes. Nature Nanotechnology, 2019, 14, 156-160.	31.5	195
27	Selfâ€Adhesive and Ultraâ€Conformable, Subâ€300 nm Dry Thinâ€Film Electrodes for Surface Monitoring of Biopotentials. Advanced Functional Materials, 2018, 28, 1803279.	14.9	136
28	Programmable Neuron Array Based on a 2-Transistor Multiplier Using Organic Floating-Gate for Intelligent Sensors. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2017, 7, 81-91.	3.6	12
29	Inflammation-free, gas-permeable, lightweight, stretchable on-skin electronics with nanomeshes. Nature Nanotechnology, 2017, 12, 907-913.	31.5	820
30	High Sensitivity Tuning of Work Function of Self-Assembled Monolayers Modified Electrodes Using Vacuum Ultraviolet Treatment. ACS Applied Materials & Interfaces, 2017, 9, 28151-28156.	8.0	7
31	Enhancement of Closed-Loop Gain of Organic Amplifiers Using Double Gate Structures. IEEE Electron Device Letters, 2016, , 1-1.	3.9	1
32	A Mechanically Durable and Flexible Organic Rectifying Diode with a Polyethylenimine Ethoxylated Cathode. Advanced Electronic Materials, 2016, 2, 1600259.	5.1	15
33	Liquid Crystals: A Mechanically Durable and Flexible Organic Rectifying Diode with a Polyethylenimine Ethoxylated Cathode (Adv. Electron. Mater. 10/2016). Advanced Electronic Materials, 2016, 2, .	5.1	0
34	Highâ€Frequency, Conformable Organic Amplifiers. Advanced Materials, 2016, 28, 3298-3304.	21.0	49
35	A transparent bending-insensitive pressure sensor. Nature Nanotechnology, 2016, 11, 472-478.	31.5	680
36	Reduction in interface state density of Al2O3/InGaAs metal-oxide-semiconductor interfaces by InGaAs surface nitridation. Journal of Applied Physics, 2012, 112, 073702.	2.5	41

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37	Self-aligned metal source/drain InP n-metal-oxide-semiconductor field-effect transistors using Niâ€“InP metallic alloy. Applied Physics Letters, 2011, 98, 243501.	3.3	21
38	A field-cycle-induced high-dielectric phase in ferroelectric copolymer. Journal of Applied Physics, 2010, 107, 114506.	2.5	17