

Sunghoon Lee

List of Publications by Year in descending order

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Version: 2024-02-01

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	Inflammation-free, gas-permeable, lightweight, stretchable on-skin electronics with nanomeshes. Nature Nanotechnology, 2017, 12, 907-913.	31.5	820
2	A transparent bending-insensitive pressure sensor. Nature Nanotechnology, 2016, 11, 472-478.	31.5	680
3	Nanomesh pressure sensor for monitoring finger manipulation without sensory interference. Science, 2020, 370, 966-970.	12.6	361
4	Ultrasoft electronics to monitor dynamically pulsing cardiomyocytes. Nature Nanotechnology, 2019, 14, 156-160.	31.5	195
5	A durable nanomesh on-skin strain gauge for natural skin motion monitoring with minimum mechanical constraints. Science Advances, 2020, 6, eabb7043.	10.3	155
6	Self-Adhesive and Ultra-Conformable, Sub-300 nm Dry Thin-Film Electrodes for Surface Monitoring of Biopotentials. Advanced Functional Materials, 2018, 28, 1803279.	14.9	136
7	A conformable imager for biometric authentication and vital sign measurement. Nature Electronics, 2020, 3, 113-121.	26.0	134
8	All-nanofiber-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
9	Highly Durable Nanofiber-Reinforced Elastic Conductors for Skin-Tight Electronic Textiles. ACS Nano, 2019, 13, 7905-7912.	14.6	103
10	Skin Electronics: Next-Generation Device Platform for Virtual and Augmented Reality. Advanced Functional Materials, 2021, 31, 2009602.	14.9	100
11	Skin bioelectronics towards long-term, continuous health monitoring. Chemical Society Reviews, 2022, 51, 3759-3793.	38.1	85
12	Ultrathin Organic Electrochemical Transistor with Nonvolatile and Thin Gel Electrolyte for Long-Term Electrophysiological Monitoring. Advanced Functional Materials, 2019, 29, 1906982.	14.9	79
13	On-skin paintable biogel for long-term high-fidelity electroencephalogram recording. Science Advances, 2022, 8, .	10.3	58
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 Photovoltaics: Toward Self-Powered Wearable Electronics. Proceedings of the IEEE, 2019, 107, 2137-2154.	21.3	56
16	High-Frequency, Conformable Organic Amplifiers. Advanced Materials, 2016, 28, 3298-3304.	21.0	49
17	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
18	Reduction in interface state density of Al ₂ O ₃ /InGaAs metal-oxide-semiconductor interfaces by InGaAs surface nitridation. Journal of Applied Physics, 2012, 112, 073702.	2.5	41

#	ARTICLE	IF	CITATIONS
19	Nanomesh Organic Electrochemical Transistor for Comfortable On-Skin Electrodes with Local Amplifying Function. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3601-3609.	4.3	26
20	Self-aligned metal source/drain InP n-metal-oxide-semiconductor field-effect transistors using Ni-InP metallic alloy. <i>Applied Physics Letters</i> , 2011, 98, 243501.	3.3	21
21	Foundry-compatible high-resolution patterning of vertically phase-separated semiconducting films for ultraflexible organic electronics. <i>Nature Communications</i> , 2021, 12, 4937.	12.8	19
22	Skin Electronics: Next-Generation Device Platform for Virtual and Augmented Reality (Adv. Funct.) <i>TJ ETQq0 0 0 rgBT/Overlock 10 Tf 5</i>	14.9	19
23	A field-cycle-induced high-dielectric phase in ferroelectric copolymer. <i>Journal of Applied Physics</i> , 2010, 107, 114506.	2.5	17
24	Organic electronics Axon-Hillock neuromorphic circuit: towards biologically compatible, and physically flexible, integrate-and-fire spiking neural networks. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 104004.	2.8	16
25	A Mechanically Durable and Flexible Organic Rectifying Diode with a Polyethylenimine Ethoxylated Cathode. <i>Advanced Electronic Materials</i> , 2016, 2, 1600259.	5.1	15
26	High-Transconductance Organic Electrochemical Transistor Fabricated on Ultrathin Films Using Spray Coating. <i>Small Structures</i> , 2021, 2, 2000088.	12.0	15
27	An organic transistor matrix for multipoint intracellular action potential recording. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
28	Programmable Neuron Array Based on a 2-Transistor Multiplier Using Organic Floating-Gate for Intelligent Sensors. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2017, 7, 81-91.	3.6	12
29	Gas-Permeable Organic Electrochemical Transistor Embedded with a Porous Solid-State Polymer Electrolyte as an on-Skin Active Electrode for Electrophysiological Signal Acquisition. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	12
30	Highly Precise, Continuous, Long-Term Monitoring of Skin Electrical Resistance by Nanomesh Electrodes. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102425.	7.6	10
31	Antimicrobial second skin using copper nanomesh. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	10
32	High Sensitivity Tuning of Work Function of Self-Assembled Monolayers Modified Electrodes Using Vacuum Ultraviolet Treatment. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28151-28156.	8.0	7
33	Molecular doping of near-infrared organic photodetectors for photoplethysmogram sensors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3129-3135.	5.5	6
34	Suppressing Dark Current in Organic Phototransistors through Modulating Electron Injection via a Deep Work Function Electrode. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1054-1058.	4.3	4
35	Enhancement of Closed-Loop Gain of Organic Amplifiers Using Double Gate Structures. <i>IEEE Electron Device Letters</i> , 2016, , 1-1.	3.9	1
36	Continuous measurement of surface electrical potentials from transplanted cardiomyocyte tissue derived from human-induced pluripotent stem cells under physiological conditions in vivo. <i>Heart and Vessels</i> , 2021, 36, 899-909.	1.2	1

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37	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
38	Invited Paper: Nanomesh Based on Skin Electronics. Digest of Technical Papers SID International Symposium, 2021, 52, 768-771.	0.3	0