

Naoji Matsuhisa

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

8,954
citations

117625

34
h-index

197818

49
g-index

55
all docs

55
docs citations

55
times ranked

9619
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammation-free, gas-permeable, lightweight, stretchable on-skin electronics with nanomeshes. <i>Nature Nanotechnology</i> , 2017, 12, 907-913.	31.5	820
2	Ultraflexible organic photonic skin. <i>Science Advances</i> , 2016, 2, e1501856.	10.3	788
3	An integrated self-healable electronic skin system fabricated via dynamic reconstruction of a nanostructured conducting network. <i>Nature Nanotechnology</i> , 2018, 13, 1057-1065.	31.5	736
4	Printable elastic conductors with a high conductivity for electronic textile applications. <i>Nature Communications</i> , 2015, 6, 7461.	12.8	677
5	Printable elastic conductors by in situ formation of silver nanoparticles from silver flakes. <i>Nature Materials</i> , 2017, 16, 834-840.	27.5	578
6	A wireless body area sensor network based on stretchable passive tags. <i>Nature Electronics</i> , 2019, 2, 361-368.	26.0	421
7	Materials and structural designs of stretchable conductors. <i>Chemical Society Reviews</i> , 2019, 48, 2946-2966.	38.1	367
8	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018, 30, e1706589.	21.0	349
9	Artificial multimodal receptors based on ion relaxation dynamics. <i>Science</i> , 2020, 370, 961-965.	12.6	343
10	An Artificial Sensory Neuron with Tactile Perceptual Learning. <i>Advanced Materials</i> , 2018, 30, e1801291.	21.0	309
11	Rational Design of Capacitive Pressure Sensors Based on Pyramidal Microstructures for Specialized Monitoring of Biosignals. <i>Advanced Functional Materials</i> , 2020, 30, 1903100.	14.9	265
12	Decoupling of mechanical properties and ionic conductivity in supramolecular lithium ion conductors. <i>Nature Communications</i> , 2019, 10, 5384.	12.8	249
13	Plasticizing Silk Protein for On-skin Stretchable Electrodes. <i>Advanced Materials</i> , 2018, 30, e1800129.	21.0	230
14	Enhancing the Performance of Stretchable Conductors for E-textiles by Controlled Ink Permeation. <i>Advanced Materials</i> , 2017, 29, 1605848.	21.0	223
15	A Highly Sensitive Capacitive-type Strain Sensor Using Wrinkled Ultrathin Gold Films. <i>Nano Letters</i> , 2018, 18, 5610-5617.	9.1	212
16	Transparent, conformable, active multielectrode array using organic electrochemical transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10554-10559.	7.1	201
17	Ultraflexible Near-infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. <i>Advanced Materials</i> , 2018, 30, e1802359.	21.0	171
18	Strain-insensitive intrinsically stretchable transistors and circuits. <i>Nature Electronics</i> , 2021, 4, 143-150.	26.0	170

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19	High-brightness all-polymer stretchable LED with charge-trapping dilution. <i>Nature</i> , 2022, 603, 624-630.	27.8	170
20	An artificial sensory neuron with visual-haptic fusion. <i>Nature Communications</i> , 2020, 11, 4602.	12.8	166
21	High-frequency and intrinsically stretchable polymer diodes. <i>Nature</i> , 2021, 600, 246-252.	27.8	138
22	Integration of Organic Electrochemical and Field-Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays. <i>Advanced Materials</i> , 2016, 28, 9722-9728.	21.0	131
23	300-nm Imperceptible, Ultraflexible, and Biocompatible e-Skin Fit with Tactile Sensors and Organic Transistors. <i>Advanced Electronic Materials</i> , 2016, 2, 1500452.	5.1	120
24	All-nanofiber-based, ultrasensitive, gas-permeable mechanoacoustic sensors for continuous long-term heart monitoring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7063-7070.	7.1	110
25	Highly Durable Nanofiber-Reinforced Elastic Conductors for Skin-Tight Electronic Textiles. <i>ACS Nano</i> , 2019, 13, 7905-7912.	14.6	103
26	Conjugated Carbon Cyclic Nanorings as Additives for Intrinsically Stretchable Semiconducting Polymers. <i>Advanced Materials</i> , 2019, 31, e1903912.	21.0	99
27	A design strategy for high mobility stretchable polymer semiconductors. <i>Nature Communications</i> , 2021, 12, 3572.	12.8	94
28	A bioinspired stretchable membrane-based compliance sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11314-11320.	7.1	90
29	An on-demand plant-based actuator created using conformable electrodes. <i>Nature Electronics</i> , 2021, 4, 134-142.	26.0	81
30	Dual-gate organic phototransistor with high-gain and linear photoresponse. <i>Nature Communications</i> , 2018, 9, 4546.	12.8	76
31	High-Transconductance Stretchable Transistors Achieved by Controlled Gold Microcrack Morphology. <i>Advanced Electronic Materials</i> , 2019, 5, 1900347.	5.1	70
32	1 μm Thickness Ultra-Flexible and High Electrode-Density Surface Electromyogram Measurement Sheet With 2 V Organic Transistors for Prosthetic Hand Control. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2014, 8, 824-833.	4.0	60
33	Locally coupled electromechanical interfaces based on cytoadhesion-inspired hybrids to identify muscular excitation-contraction signatures. <i>Nature Communications</i> , 2020, 11, 2183.	12.8	47
34	Modular and Reconfigurable Stretchable Electronic Systems. <i>Advanced Materials Technologies</i> , 2019, 4, 1800417.	5.8	42
35	Low operating voltage organic transistors and circuits with anodic titanium oxide and phosphonic acid self-assembled monolayer dielectrics. <i>Organic Electronics</i> , 2017, 40, 58-64.	2.6	36
36	Vacuum Ultraviolet Treatment of Self-Assembled Monolayers: A Tool for Understanding Growth and Tuning Charge Transport in Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 2049-2054.	21.0	35

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37	Metal-Ligand Based Mechanophores Enhance Both Mechanical Robustness and Electronic Performance of Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2021, 31, 2009201.	14.9	30
38	Ultraflexible Transparent Oxide/Metal/Oxide Stack Electrode with Low Sheet Resistance for Electrophysiological Measurements. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34744-34750.	8.0	27
39	A Carbon Flower Based Flexible Pressure Sensor Made from Large-Area Coating. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000875.	3.7	23
40	A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers. <i>Advanced Electronic Materials</i> , 2018, 4, 1700601.	5.1	22
41	Low-Power Monolithically Stacked Organic Photodiode-Blocking Diode Imager by Turn-On Voltage Engineering. <i>Advanced Electronic Materials</i> , 2018, 4, 1800311.	5.1	18
42	A Mechanically Durable and Flexible Organic Rectifying Diode with a Polyethylenimine Ethoxylated Cathode. <i>Advanced Electronic Materials</i> , 2016, 2, 1600259.	5.1	15
43	Emerging polymer electrets for transistor-structured memory devices and artificial synapses. <i>Journal of Materials Chemistry C</i> , 2022, 10, 13372-13394.	5.5	15
44	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
45	Photocurrent Amplification in Bulk Heterojunction Organic Phototransistors with Different Donor-Acceptor Ratio. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1700400.	2.4	6
46	Basic characteristics of implantable flexible pressure sensor for wireless readout using MRI. , 2014, 2014, 2338-41.		2
47	Ultrathin, short channel, thermally-stable organic transistors for neural interface systems. , 2014, , .		2
48	An MRI-readable wireless flexible pressure sensor. , 2015, 2015, 3173-6.		2
49	Field-Effect Transistors: Integration of Organic Electrochemical and Field-Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays (<i>Adv. Mater.</i> 44/2016). <i>Advanced Materials</i> , 2016, 28, 9869-9869.	21.0	2
50	Enhancement of Closed-Loop Gain of Organic Amplifiers Using Double Gate Structures. <i>IEEE Electron Device Letters</i> , 2016, , 1-1.	3.9	1
51	Sensors: A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers (<i>Adv.</i>) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 1</i>	5.1	1
52	Liquid Crystals: A Mechanically Durable and Flexible Organic Rectifying Diode with a Polyethylenimine Ethoxylated Cathode (<i>Adv. Electron. Mater.</i> 10/2016). <i>Advanced Electronic Materials</i> , 2016, 2, .	5.1	0
53	Skin-like sensor systems by intrinsically stretchable electronic materials. , 2021, , .		0
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