

Naoji Matsuhisa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51 papers	5,605 citations	31 h-index	55 g-index
55 ext. papers	7,200 ext. citations	16.7 avg, IF	5.91 L-index

#	Paper	IF	Citations
51	High-brightness all-polymer stretchable LED with charge-trapping dilution.. <i>Nature</i> , 2022 , 603, 624-630	50.4	24
50	High-frequency and intrinsically stretchable polymer diodes. <i>Nature</i> , 2021 , 600, 246-252	50.4	34
49	A design strategy for high mobility stretchable polymer semiconductors. <i>Nature Communications</i> , 2021 , 12, 3572	17.4	27
48	Strain-insensitive intrinsically stretchable transistors and circuits. <i>Nature Electronics</i> , 2021 , 4, 143-150	28.4	56
47	An on-demand plant-based actuator created using conformable electrodes. <i>Nature Electronics</i> , 2021 , 4, 134-142	28.4	28
46	MetalLigand Based Mechanophores Enhance Both Mechanical Robustness and Electronic Performance of Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2021 , 31, 2009201	15.6	9
45	Locally coupled electromechanical interfaces based on cytoadhesion-inspired hybrids to identify muscular excitation-contraction signatures. <i>Nature Communications</i> , 2020 , 11, 2183	17.4	31
44	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	11.5	48
43	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	11.5	53
42	Artificial multimodal receptors based on ion relaxation dynamics. <i>Science</i> , 2020 , 370, 961-965	33.3	141
41	A Carbon Flower Based Flexible Pressure Sensor Made from Large-Area Coating. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000875	4.6	12
40	An artificial sensory neuron with visual-haptic fusion. <i>Nature Communications</i> , 2020 , 11, 4602	17.4	55
39	Rational Design of Capacitive Pressure Sensors Based on Pyramidal Microstructures for Specialized Monitoring of Biosignals. <i>Advanced Functional Materials</i> , 2020 , 30, 1903100	15.6	131
38	Highly Durable Nanofiber-Reinforced Elastic Conductors for Skin-Tight Electronic Textiles. <i>ACS Nano</i> , 2019 , 13, 7905-7912	16.7	64
37	Materials and structural designs of stretchable conductors. <i>Chemical Society Reviews</i> , 2019 , 48, 2946-2966	38.5	189
36	A wireless body area sensor network based on stretchable passive tags. <i>Nature Electronics</i> , 2019 , 2, 361-368	38.4	258
35	High-Transconductance Stretchable Transistors Achieved by Controlled Gold Microcrack Morphology. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900347	6.4	33

34	Conjugated Carbon Cyclic Nanorings as Additives for Intrinsically Stretchable Semiconducting Polymers. <i>Advanced Materials</i> , 2019 , 31, e1903912	24	57
33	Decoupling of mechanical properties and ionic conductivity in supramolecular lithium ion conductors. <i>Nature Communications</i> , 2019 , 10, 5384	17.4	126
32	Modular and Reconfigurable Stretchable Electronic Systems. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800417	6.8	27
31	Photocurrent Amplification in Bulk Heterojunction Organic Phototransistors with Different Donor/Acceptor Ratio. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700400	2.5	3
30	Plasticizing Silk Protein for On-Skin Stretchable Electrodes. <i>Advanced Materials</i> , 2018 , 30, e1800129	24	160
29	A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700601	6.4	15
28	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018 , 30, e1706589	24	213
27	A Highly Sensitive Capacitive-type Strain Sensor Using Wrinkled Ultrathin Gold Films. <i>Nano Letters</i> , 2018 , 18, 5610-5617	11.5	138
26	Low-Power Monolithically Stacked Organic Photodiode-Blocking Diode Imager by Turn-On Voltage Engineering. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800311	6.4	12
25	Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. <i>Advanced Materials</i> , 2018 , 30, e1802359	24	111
24	An integrated self-healable electronic skin system fabricated via dynamic reconstruction of a nanostructured conducting network. <i>Nature Nanotechnology</i> , 2018 , 13, 1057-1065	28.7	510
23	An Artificial Sensory Neuron with Tactile Perceptual Learning. <i>Advanced Materials</i> , 2018 , 30, e1801291	24	216
22	Sensors: A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers (Adv. Electron. Mater. 6/2018). <i>Advanced Electronic Materials</i> , 2018 , 4, 1870029	6.4	
21	Dual-gate organic phototransistor with high-gain and linear photoresponse. <i>Nature Communications</i> , 2018 , 9, 4546	17.4	44
20	Printable elastic conductors by in situ formation of silver nanoparticles from silver flakes. <i>Nature Materials</i> , 2017 , 16, 834-840	27	416
19	Enhancing the Performance of Stretchable Conductors for E-Textiles by Controlled Ink Permeation. <i>Advanced Materials</i> , 2017 , 29, 1605848	24	170
18	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	11.5	133
17	Ultraflexible Transparent Oxide/Metal/Oxide Stack Electrode with Low Sheet Resistance for Electrophysiological Measurements. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34744-34750	9.5	21

16	Inflammation-free, gas-permeable, lightweight, stretchable on-skin electronics with nanomeshes. <i>Nature Nanotechnology</i> , 2017 , 12, 907-913	28.7	555
15	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	9.5	3
14	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	3.5	31
13	Integration of Organic Electrochemical and Field-Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays. <i>Advanced Materials</i> , 2016 , 28, 9722-9728	24	101
12	Field-Effect Transistors: Integration of Organic Electrochemical and Field-Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays (Adv. Mater. 44/2016). <i>Advanced Materials</i> , 2016 , 28, 9869-9869	24	2
11	Ultraflexible organic photonic skin. <i>Science Advances</i> , 2016 , 2, e1501856	14.3	612
10	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, 2049-54	24	29
9	300-nm Imperceptible, Ultraflexible, and Biocompatible e-Skin Fit with Tactile Sensors and Organic Transistors. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500452	6.4	100
8	2.?????????????????????. <i>Electrochemistry</i> , 2016 , 84, 164-168	1.2	
7	Enhancement of Closed-Loop Gain of Organic Amplifiers Using Double-Gate Structures. <i>IEEE Electron Device Letters</i> , 2016 , 1-1	4.4	1
6	A Mechanically Durable and Flexible Organic Rectifying Diode with a Polyethylenimine Ethoxylated Cathode. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600259	6.4	13
5	Printable elastic conductors with a high conductivity for electronic textile applications. <i>Nature Communications</i> , 2015 , 6, 7461	17.4	540
4	An MRI-readable wireless flexible pressure sensor. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 3173-6	0.9	0
3	Basic characteristics of implantable flexible pressure sensor for wireless readout using MRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2338-41	0.9	1
2	Ultrathin, short channel, thermally-stable organic transistors for neural interface systems 2014 ,		2
1	1 m-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, 824-33	5.1	47