

# Tsuyoshi Sekitani

## 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.

117  
papers

15,338  
citations

43  
h-index

123  
g-index

133  
ext. papers

16,792  
ext. citations

9.9  
avg, IF

6.4  
L-index

#	Paper	IF	Citations
117	Stretchable broadband photo-sensor sheets for nonsampling, source-free, and label-free chemical monitoring by simple deformable wrapping.. <i>Science Advances</i> , <b>2022</b> , 8, eabm4349	14.3	0
116	Heterogeneous Functional Dielectric Patterns for Charge-Carrier Modulation in Ultraflexible Organic Integrated Circuits (Adv. Mater. 45/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170358	24	
115	A photocurable bioelectronics-tissue interface. <i>Nature Materials</i> , <b>2021</b> , 20, 1460-1461	27	0
114	Imperceptible energy harvesting device and biomedical sensor based on ultraflexible ferroelectric transducers and organic diodes. <i>Nature Communications</i> , <b>2021</b> , 12, 2399	17.4	29
113	Low-Temperature printable and stretchable circuit board and its application to flexible hybrid electronics <b>2021</b> ,		1
112	57-4: Invited Paper: Imperceptible Electronics for Digital Transformation. <i>Digest of Technical Papers SID International Symposium</i> , <b>2021</b> , 52, 810-813	0.5	
111	Effect of macroscale mesh design of metal nanowire networks on the conductive properties for stretchable electrodes. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 243102	3.4	1
110	Heterogeneous Functional Dielectric Patterns for Charge-Carrier Modulation in Ultraflexible Organic Integrated Circuits. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104446	24	3
109	Mobility enhancement of DNTT and BTBT derivative organic thin-film transistors by triptycene molecule modification. <i>Organic Electronics</i> , <b>2021</b> , 96, 106219	3.5	4
108	Imperceptible magnetic sensor matrix system integrated with organic driver and amplifier circuits. <i>Science Advances</i> , <b>2020</b> , 6, eaay6094	14.3	39
107	Flexible neural interfaces for brain implantsThe pursuit of thinness and high density. <i>Flexible and Printed Electronics</i> , <b>2020</b> , 5, 043002	3.1	5
106	Wireless Monitoring Using a Stretchable and Transparent Sensor Sheet Containing Metal Nanowires. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902684	24	34
105	Printable Transparent Microelectrodes toward Mechanically and Visually Imperceptible Electronics. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2000093	6	11
104	Fine printing method of silver nanowire electrodes with alignment and accumulation. <i>Nanotechnology</i> , <b>2019</b> , 30, 37LT03	3.4	12
103	CoFeB/MgO-based magnetic tunnel junction directly formed on a flexible substrate. <i>Applied Physics Express</i> , <b>2019</b> , 12, 053001	2.4	22
102	Long-Term Implantable, Flexible, and Transparent Neural Interface Based on Ag/Au Core-Shell Nanowires. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900130	10.1	29
101	An ultraflexible organic differential amplifier for recording electrocardiograms. <i>Nature Electronics</i> , <b>2019</b> , 2, 351-360	28.4	62

100	Highly-ordered Triptycene Modifier Layer Based on Blade Coating for Ultraflexible Organic Transistors. <i>Scientific Reports</i> , <b>2019</b> , 9, 9200	4.9	12
99	Ultralow-Noise Organic Transistors Based on Polymeric Gate Dielectrics with Self-Assembled Modifiers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 41561-41569	9.5	5
98	Flexible CoFeB/MgO-based magnetic tunnel junctions annealed at high temperature (850 °C). <i>Applied Physics Letters</i> , <b>2019</b> , 115, 202401	3.4	9
97	Non-contact Laser Printing of Ag Nanowire-based Electrode with Photodegradable Polymers. <i>Journal of Photopolymer Science and Technology = [Fotopolyma Konwakai Shi]</i> , <b>2019</b> , 32, 429-434	0.7	0
96	A few-layer molecular film on polymer substrates to enhance the performance of organic devices. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 139-144	28.7	64
95	Antithrombotic Protein Filter Composed of Hybrid Tissue-Fabric Material has a Long Lifetime. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 1352-1364	4.7	2
94	Stretchable and transparent electrodes based on patterned silver nanowires by laser-induced forward transfer for non-contacted printing techniques. <i>Nanotechnology</i> , <b>2016</b> , 27, 45LT02	3.4	22
93	Ultraflexible organic amplifier with biocompatible gel electrodes. <i>Nature Communications</i> , <b>2016</b> , 7, 11425-7.4	139	
92	A transparent bending-insensitive pressure sensor. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 472-8	28.7	549
91	Facile fabrication of stretchable Ag nanowire/polyurethane electrodes using high intensity pulsed light. <i>Nano Research</i> , <b>2016</b> , 9, 401-414	10	113
90	Silver Nanowire-Based Stretchable and Transparent Electrodes. <i>Journal of Japan Institute of Electronics Packaging</i> , <b>2016</b> , 19, 228-233	0.1	1
89	Ultraflexible and ultrathin polymeric gate insulator for 2 V organic transistor circuits. <i>Applied Physics Express</i> , <b>2016</b> , 9, 061602	2.4	23
88	Printable elastic conductors with a high conductivity for electronic textile applications. <i>Nature Communications</i> , <b>2015</b> , 6, 7461	17.4	540
87	Study of Randomly Distributed Charge Traps by Measuring Frequency- and Time-Dependence of a DNTT-Based MIS Capacitor. <i>Journal of Display Technology</i> , <b>2015</b> , 11, 604-609		
86	Ultra-flexible short-channel organic field-effect transistors. <i>Applied Physics Express</i> , <b>2015</b> , 8, 091601	2.4	14
85	Ultraflexible, large-area, physiological temperature sensors for multipoint measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14533-8	11.5	247
84	An imperceptible plastic electronic wrap. <i>Advanced Materials</i> , <b>2015</b> , 27, 34-40	24	131
83	Imperceptible magnetoelectronics. <i>Nature Communications</i> , <b>2015</b> , 6, 6080	17.4	148

82	Alternating current admittance of DNNT-based metal-insulator-semiconductor capacitors. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 093702	2.5	6
81	Bionic skins using flexible organic devices <b>2014</b> ,		4
80	11.2: Invited Paper: Imperceptible Electronic Skin. <i>Digest of Technical Papers SID International Symposium</i> , <b>2014</b> , 45, 122-125	0.5	7
79	A strain-absorbing design for tissue-machine interfaces using a tunable adhesive gel. <i>Nature Communications</i> , <b>2014</b> , 5, 5898	17.4	106
78	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> , <b>2014</b> , 8, 824-33	5.1	47
77	Insole Pedometer With Piezoelectric Energy Harvester and 2 V Organic Circuits. <i>IEEE Journal of Solid-State Circuits</i> , <b>2013</b> , 48, 255-264	5.5	57
76	Flexible low-voltage organic transistors with high thermal stability at 250 °C. <i>Advanced Materials</i> , <b>2013</b> , 25, 3639-44	24	84
75	An ultra-lightweight design for imperceptible plastic electronics. <i>Nature</i> , <b>2013</b> , 499, 458-63	50.4	1781
74	Ultrathin, highly flexible and stretchable PLEDs. <i>Nature Photonics</i> , <b>2013</b> , 7, 811-816	33.9	706
73	Ultraflexible organic devices for biomedical applications <b>2013</b> ,		2
72	Breakthroughs in Photonics 2012: Large-Area Ultrathin Photonics. <i>IEEE Photonics Journal</i> , <b>2013</b> , 5, 0700805-0700805	805	0700805
71	A 100-V AC Energy Meter Integrating 20-V Organic CMOS Digital and Analog Circuits With a Floating Gate for Process Variation Compensation and a 100-V Organic pMOS Rectifier. <i>IEEE Journal of Solid-State Circuits</i> , <b>2012</b> , 47, 301-309	5.5	18
70	Stretchable organic integrated circuits for large-area electronic skin surfaces. <i>MRS Bulletin</i> , <b>2012</b> , 37, 236-245	3.2	110
69	Sheet-Type Flexible Organic Active Matrix Amplifier System Using Pseudo-CMOS Circuits With Floating-Gate Structure. <i>IEEE Transactions on Electron Devices</i> , <b>2012</b> , 59, 3434-3441	2.9	83
68	Simultaneous characterization of mechanical and electrical performances of ultraflexible and stretchable organic integrated circuits <b>2012</b> ,		1
67	32.3: Invited Paper: Large-Area, Ultraflexible Organic AMOLED Pixel Circuits Driven by Printed Organic Floating-Gate Transistors. <i>Digest of Technical Papers SID International Symposium</i> , <b>2012</b> , 43, 426-429	0.5	1
66	Stretchable Organic Transistors <b>2012</b> , 271-285		2
65	Organic Integrated Circuits for EMI Measurement <b>2012</b> , 431-448		

64	Picoliter and Subfemtoliter Ink-Jet Technologies for Organic Transistors <b>2012</b> , 255-280		
63	Flexible low-voltage organic thin-film transistors and circuits based on C10-DNTT. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 4273-4277		92
62	Ultrathin and lightweight organic solar cells with high flexibility. <i>Nature Communications</i> , <b>2012</b> , 3, 770	17.4	1234
61	Ambient Electronics. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 100001	1.4	14
60	Stretchable Electronics. <i>Nippon Gomu Kyokaishi</i> , <b>2012</b> , 85, 101-106	0	1
59	Ambient Electronics. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 100001	1.4	31
58	Organic Pseudo-CMOS Circuits for Low-Voltage Large-Gain High-Speed Operation. <i>IEEE Electron Device Letters</i> , <b>2011</b> , 32, 1448-1450	4.4	48
57	User Customizable Logic Paper (UCLP) With Sea-Of Transmission-Gates (SOTG) of 2-V Organic CMOS and Ink-Jet Printed Interconnects. <i>IEEE Journal of Solid-State Circuits</i> , <b>2011</b> , 46, 285-292	5.5	26
56	High performance foldable polymer thin film transistors with a side gate architecture. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 18804		15
55	22.1: Invited Paper: Stretchable and Foldable Displays using Organic Transistors with High Mechanical Stability. <i>Digest of Technical Papers SID International Symposium</i> , <b>2011</b> , 42, 276-279	0.5	1
54	13.2: A Floating-Gate OTFT-Driven AMOLED Pixel Circuit for Variation and Degradation Compensation in Large-Sized Flexible Displays. <i>Digest of Technical Papers SID International Symposium</i> , <b>2011</b> , 42, 149-152	0.5	8
53	Human-friendly organic integrated circuits. <i>Materials Today</i> , <b>2011</b> , 14, 398-407	21.8	80
52	Pseudo-CMOS: A Design Style for Low-Cost and Robust Flexible Electronics. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 141-150	2.9	162
51	A 4 V Operation, Flexible Braille Display Using Organic Transistors, Carbon Nanotube Actuators, and Organic Static Random-Access Memory. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 4019-4027	15.6	109
50	Study of Organic Thin-Film Transistors Under Electrostatic Discharge Stresses. <i>IEEE Electron Device Letters</i> , <b>2011</b> , 32, 967-969	4.4	9
49	Dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene (DNTT) thin-film transistors with improved performance and stability. <i>Organic Electronics</i> , <b>2011</b> , 12, 1370-1375	3.5	132
48	Control of threshold voltage in low-voltage organic complementary inverter circuits with floating gate structures. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 193302	3.4	49
47	Low-voltage organic transistor with subfemtoliter inkjet source-drain contacts. <i>MRS Communications</i> , <b>2011</b> , 1, 3-6	2.7	29

46	Spatial control of the threshold voltage of low-voltage organic transistors by microcontact printing of alkyl- and fluoroalkyl-phosphonic acids. <i>MRS Communications</i> , <b>2011</b> , 1, 33-36	2.7	7
45	Sheet-type organic active matrix amplifier system using Vth-tunable, pseudo-CMOS circuits with floating-gate structure <b>2011</b> ,		1
44	Flexible organic transistors and circuits with extreme bending stability. <i>Nature Materials</i> , <b>2010</b> , 9, 1015-22		1012
43	Pseudo-CMOS: A novel design style for flexible electronics <b>2010</b> ,		7
42	Thermal stability of organic thin-film transistors with self-assembled monolayer dielectrics. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 053302	3.4	45
41	A field-cycle-induced high-dielectric phase in ferroelectric copolymer. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 114506	2.5	17
40	Stretchable EMI Measurement Sheet With 8 $\times$ 8 Coil Array, 2 V Organic CMOS Decoder, and 0.18 $\mu\text{m}$ Silicon CMOS LSIs for Electric and Magnetic Field Detection. <i>IEEE Journal of Solid-State Circuits</i> , <b>2010</b> , 45, 249-259	5.5	21
39	Flexible low-voltage organic transistors and circuits based on a high-mobility organic semiconductor with good air stability. <i>Advanced Materials</i> , <b>2010</b> , 22, 982-5	24	189
38	Stretchable, large-area organic electronics. <i>Advanced Materials</i> , <b>2010</b> , 22, 2228-46	24	626
37	Effects of the alkyl chain length in phosphonic acid self-assembled monolayer gate dielectrics on the performance and stability of low-voltage organic thin-film transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 203301	3.4	106
36	Stretchable active-matrix organic light-emitting diode display using printable elastic conductors. <i>Nature Materials</i> , <b>2009</b> , 8, 494-9	27	1425
35	A flexible EMI measurement sheet to measure electric and magnetic fields separately with distributed antennas and LSIs <b>2009</b> ,		2
34	A 107-pJ/bit 100-kb/s 0.18- $\mu\text{m}$ Capacitive-Coupling Transceiver With Data Edge Signaling and DC Power-Free Pulse Detector for Printable Communication Sheet. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2009</b> , 56, 2511-2518	3.9	3
33	Organic nonvolatile memory transistors for flexible sensor arrays. <i>Science</i> , <b>2009</b> , 326, 1516-9	33.3	812
32	A rubberlike stretchable active matrix using elastic conductors. <i>Science</i> , <b>2008</b> , 321, 1468-72	33.3	1156
31	Stretchable, printable organic transistor integrated circuits for large-area sensors and displays <b>2008</b> ,		1
30	A large-area, flexible, ultrasonic imaging system with a printed organic transistor active matrix <b>2008</b> ,		6
29	Organic transistors manufactured using inkjet technology with subfemtoliter accuracy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 4976-80	11.5	357

28	Plastic complementary microelectromechanical switches. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 023305	3-4	11
27	Direct inkjet printing of silver electrodes on organic semiconductors for thin-film transistors with top contact geometry. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 043303	3-4	74
26	Low operation voltage of inkjet-printed plastic sheet-type micromechanical switches. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 053302	3-4	25
25	Printed Organic Transistors for Large-Area Electronics <b>2007</b> ,		8
24	A large-area wireless power-transmission sheet using printed organic transistors and plastic MEMS switches. <i>Nature Materials</i> , <b>2007</b> , 6, 413-7	27	268
23	Reduction in operation voltage of complementary organic thin-film transistor inverter circuits using double-gate structures. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 093504	3-4	45
22	Printed shadow masks for organic transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 133502	3-4	28
21	Communication sheets using printed organic nonvolatile memories <b>2007</b> ,		5
20	An Organic FET SRAM With Back Gate to Increase Static Noise Margin and Its Application to Braille Sheet Display. <i>IEEE Journal of Solid-State Circuits</i> , <b>2007</b> , 42, 93-100	5-5	59
19	Temperature dependence of Hall effects in organic thin-film transistors on plastic films. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 133516	3-4	12
18	Electrical Characteristics of Pentacene Thin Film Transistors in Volatile Compound Vapors. <i>Molecular Crystals and Liquid Crystals</i> , <b>2006</b> , 462, 29-36	0-5	3
17	Hall effect measurements using polycrystalline pentacene field-effect transistors on plastic films. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 253508	3-4	26
16	Low Power and Flexible Braille Sheet Display with Organic FETs and Plastic Actuators <b>2006</b> ,		3
15	Organic-transistor-based flexible pressure sensors using ink-jet-printed electrodes and gate dielectric layers. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 253507	3-4	131
14	A 3-D-Stack Organic Sheet-Type Scanner with Double-Wordline and Double-Bitline Structure. <i>IEEE Sensors Journal</i> , <b>2006</b> , 6, 1209-1217	4	11
13	Organic Transistor Integrated Circuits for Large-Area Sensors. <i>Molecular Crystals and Liquid Crystals</i> , <b>2006</b> , 444, 13-22	0-5	3
12	Large-area Electronics Based on Organic Transistors <b>2006</b> ,		6
11	A large-area flexible wireless power transmission sheet using printed plastic MEMS switches and organic field-effect transistors <b>2006</b> ,		17

10	Cut-and-paste customization of organic FET integrated circuit and its application to electronic artificial skin. <i>IEEE Journal of Solid-State Circuits</i> , <b>2005</b> , 40, 177-185	5.5	107
9	Conformable, flexible, large-area networks of pressure and thermal sensors with organic transistor active matrixes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 12321-5	11.5	1139
8	Recent advances in applications of organic integrated circuits for large-area electronics <b>2005</b> ,		1
7	Ultraflexible organic field-effect transistors embedded at a neutral strain position. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 173502	3.4	138
6	High-Temperature Operation of Pentacene Field-Effect Transistors with Polyimide Gate Insulators. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 871, 1		
5	Pentacene field-effect transistors on plastic films operating at high temperature above 100°C. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3902-3904	3.4	54
4	Organic field-effect transistors with bending radius down to 1 mm. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 814, 231		1
3	A flexible, lightweight Braille sheet display with plastic actuators driven by an organic field-effect transistor active matrix		6
2	Flexible, large-area sensors and actuators with organic transistor integrated circuits		1
1	A large-area, flexible, and lightweight sheet image scanner integrated with organic field-effect transistors and organic photodiodes		9