Takao Someya

List of Publications by Year in descending order

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320 papers	41,834 citations	3325 91 h-index	2274 200 g-index
325 all docs	325 docs citations	325 times ranked	29892 citing authors

#	Article	IF	Citations
1	Materials and Mechanics for Stretchable Electronics. Science, 2010, 327, 1603-1607.	6.0	4,135
2	An ultra-lightweight design for imperceptible plastic electronics. Nature, 2013, 499, 458-463.	13.7	2,133
3	A large-area, flexible pressure sensor matrix with organic field-effect transistors for artificial skin applications. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9966-9970.	3.3	1,725
4	Stretchable active-matrix organic light-emitting diode display using printable elastic conductors. Nature Materials, 2009, 8, 494-499.	13.3	1,620
5	Elastomeric Transistor Stamps: Reversible Probing of Charge Transport in Organic Crystals. Science, 2004, 303, 1644-1646.	6.0	1,559
6	Ultrathin and lightweight organic solar cells with high flexibility. Nature Communications, 2012, 3, 770.	5.8	1,452
7	Conformable, flexible, large-area networks of pressure and thermal sensors with organic transistor active matrixes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12321-12325.	3.3	1,283
8	The rise of plastic bioelectronics. Nature, 2016, 540, 379-385.	13.7	1,280
9	A Rubberlike Stretchable Active Matrix Using Elastic Conductors. Science, 2008, 321, 1468-1472.	6.0	1,265
10	Flexible organic transistors and circuits with extreme bending stability. Nature Materials, 2010, 9, 1015-1022.	13.3	1,142
11	Organic Nonvolatile Memory Transistors for Flexible Sensor Arrays. Science, 2009, 326, 1516-1519.	6.0	888
12	Ultrathin, highly flexible and stretchable PLEDs. Nature Photonics, 2013, 7, 811-816.	15.6	832
13	Inflammation-free, gas-permeable, lightweight, stretchable on-skin electronics with nanomeshes. Nature Nanotechnology, 2017, 12, 907-913.	15.6	820
14	Ultraflexible organic photonic skin. Science Advances, 2016, 2, e1501856.	4.7	788
15	Self-powered ultra-flexible electronics via nano-grating-patterned organic photovoltaics. Nature, 2018, 561, 516-521.	13.7	743
16	Stretchable, Largeâ€area Organic Electronics. Advanced Materials, 2010, 22, 2228-2246.	11.1	692
17	A transparent bending-insensitive pressure sensor. Nature Nanotechnology, 2016, 11, 472-478.	15.6	680
18	Printable elastic conductors with a high conductivity for electronic textile applications. Nature Communications, 2015, 6, 7461.	5.8	677

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19	Printable elastic conductors by in situ formation of silver nanoparticles from silver flakes. Nature Materials, 2017, 16, 834-840.	13.3	578
20	Organic Photodetectors for Nextâ€Generation Wearable Electronics. Advanced Materials, 2020, 32, e1902045.	11.1	401
21	The Future of Flexible Organic Solar Cells. Advanced Energy Materials, 2020, 10, 2000765.	10.2	391
22	Organic transistors manufactured using inkjet technology with subfemtoliter accuracy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4976-4980.	3.3	387
23	Stretchable and waterproof elastomer-coated organic photovoltaics for washable electronic textile applications. Nature Energy, 2017, 2, 780-785.	19.8	369
24	Materials and structural designs of stretchable conductors. Chemical Society Reviews, 2019, 48, 2946-2966.	18.7	367
25	Nanomesh pressure sensor for monitoring finger manipulation without sensory interference. Science, 2020, 370, 966-970.	6.0	361
26	Toward a new generation of smart skins. Nature Biotechnology, 2019, 37, 382-388.	9.4	323
27	Ultraflexible, large-area, physiological temperature sensors for multipoint measurements. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14533-14538.	3.3	313
28	Alcohol Vapor Sensors Based on Single-Walled Carbon Nanotube Field Effect Transistors. Nano Letters, 2003, 3, 877-881.	4.5	308
29	A large-area wireless power-transmission sheet using printed organic transistors and plastic MEMS switches. Nature Materials, 2007, 6, 413-417.	13.3	290
30	Organic transistors with high thermal stability for medical applications. Nature Communications, 2012, 3, 723.	5.8	290
31	Chemical and Physical Sensing by Organic Fieldâ€Effect Transistors and Related Devices. Advanced Materials, 2010, 22, 3799-3811.	11.1	268
32	Integration of Organic FETs With Organic Photodiodes for a Large Area, Flexible, and Lightweight Sheet Image Scanners. IEEE Transactions on Electron Devices, 2005, 52, 2502-2511.	1.6	245
33	Recent Progress in the Development of Printed Thinâ€Film Transistors and Circuits with Highâ€Resolution Printing Technology. Advanced Materials, 2017, 29, 1602736.	11.1	243
34	Room Temperature Lasing at Blue Wavelengths in Gallium Nitride Microcavities. Science, 1999, 285, 1905-1906.	6.0	237
35	Enhancing the Performance of Stretchable Conductors for Eâ€Textiles by Controlled Ink Permeation. Advanced Materials, 2017, 29, 1605848.	11.1	223
36	Hydrogenâ€Bonded Semiconducting Pigments for Airâ€Stable Fieldâ€Effect Transistors. Advanced Materials, 2013, 25, 1563-1569.	11.1	218

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37	Contact Resistance and Megahertz Operation of Aggressively Scaled Organic Transistors. Small, 2012, 8, 73-79.	5.2	217
38	Flexible Lowâ€Voltage Organic Transistors and Circuits Based on a Highâ€Mobility Organic Semiconductor with Good Air Stability. Advanced Materials, 2010, 22, 982-985.	11.1	213
39	Pseudo-CMOS: A Design Style for Low-Cost and Robust Flexible Electronics. IEEE Transactions on Electron Devices, 2011, 58, 141-150.	1.6	213
40	Bending experiment on pentacene field-effect transistors on plastic films. Applied Physics Letters, 2005, 86, 073511.	1.5	212
41	A Highly Sensitive Capacitive-type Strain Sensor Using Wrinkled Ultrathin Gold Films. Nano Letters, 2018, 18, 5610-5617.	4.5	212
42	Transparent, conformable, active multielectrode array using organic electrochemical transistors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10554-10559.	3.3	201
43	Natural Biopolymer-Based Biocompatible Conductors for Stretchable Bioelectronics. Chemical Reviews, 2021, 121, 2109-2146.	23.0	199
44	Soft, conformable electrical contacts for organic semiconductors: High-resolution plastic circuits by lamination. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10252-10256.	3.3	198
45	Organic Electronics on Banknotes. Advanced Materials, 2011, 23, 654-658.	11.1	197
46	Ultrasoft electronics to monitor dynamically pulsing cardiomyocytes. Nature Nanotechnology, 2019, 14, 156-160.	15.6	195
47	Synthesis, Assembly, and Thin Film Transistors of Dihydrodiazapentacene:Â An Isostructural Motif for Pentacene. Journal of the American Chemical Society, 2003, 125, 10284-10287.	6.6	184
48	Imperceptible magnetoelectronics. Nature Communications, 2015, 6, 6080.	5.8	184
49	Ultraflexible organic amplifier with biocompatible gel electrodes. Nature Communications, 2016, 7, 11425.	5.8	179
50	Ultraflexible Nearâ€Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. Advanced Materials, 2018, 30, e1802359.	11.1	171
51	High mobility of pentacene field-effect transistors with polyimide gate dielectric layers. Applied Physics Letters, 2004, 84, 3789-3791.	1.5	170
52	Dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene (DNTT) thin-film transistors with improved performance and stability. Organic Electronics, 2011, 12, 1370-1375.	1.4	162
53	Mechanically Adaptive Organic Transistors for Implantable Electronics. Advanced Materials, 2014, 26, 4967-4973.	11.1	162
54	Flexible self-charging power sources. Nature Reviews Materials, 2022, 7, 870-886.	23.3	159

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55	Ultraflexible organic field-effect transistors embedded at a neutral strain position. Applied Physics Letters, 2005, 87, 173502.	1.5	158
56	Nonthrombogenic, stretchable, active multielectrode array for electroanatomical mapping. Science Advances, 2018, 4, eaau2426.	4.7	155
57	A durable nanomesh on-skin strain gauge for natural skin motion monitoring with minimum mechanical constraints. Science Advances, 2020, 6, eabb7043.	4.7	155
58	Sheet-Type Braille Displays by Integrating Organic Field-Effect Transistors and Polymeric Actuators. IEEE Transactions on Electron Devices, 2007, 54, 202-209.	1.6	149
59	Organic-transistor-based flexible pressure sensors using ink-jet-printed electrodes and gate dielectric layers. Applied Physics Letters, 2006, 89, 253507.	1.5	145
60	An Imperceptible Plastic Electronic Wrap. Advanced Materials, 2015, 27, 34-40.	11.1	145
61	Robust metal ion-chelated polymer interfacial layer for ultraflexible non-fullerene organic solar cells. Nature Communications, 2020, 11, 4508.	5.8	141
62	Vapor sensing with Î±,Ï‰-dihexylquarterthiophene field-effect transistors: The role of grain boundaries. Applied Physics Letters, 2002, 81, 3079-3081.	1.5	138
63	Selfâ€Adhesive and Ultraâ€Conformable, Subâ€300 nm Dry Thinâ€Film Electrodes for Surface Monitoring of Biopotentials. Advanced Functional Materials, 2018, 28, 1803279.	7.8	136
64	A conformable imager for biometric authentication and vital sign measurement. Nature Electronics, 2020, 3, 113-121.	13.1	134
65	Printed Nonvolatile Memory for a Sheet-Type Communication System. IEEE Transactions on Electron Devices, 2009, 56, 1027-1035.	1.6	131
66	Integration of Organic Electrochemical and Fieldâ€Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays. Advanced Materials, 2016, 28, 9722-9728.	11.1	131
67	Nanoscale organic transistors that use source/drain electrodes supported by high resolution rubber stamps. Applied Physics Letters, 2003, 82, 793-795.	1.5	129
68	A 4 V Operation, Flexible Braille Display Using Organic Transistors, Carbon Nanotube Actuators, and Organic Static Randomâ€Access Memory. Advanced Functional Materials, 2011, 21, 4019-4027.	7.8	128
69	Electrospun nanofiber-based soft electronics. NPG Asia Materials, 2021, 13, .	3.8	127
70	Stretchable organic integrated circuits for large-area electronic skin surfaces. MRS Bulletin, 2012, 37, 236-245.	1.7	124
71	A Highly Responsive Organic Image Sensor Based on a Twoâ€Terminal Organic Photodetector with Photomultiplication. Advanced Materials, 2019, 31, e1903687.	11.1	123
72	Contact Doping and Ultrathin Gate Dielectrics for Nanoscale Organic Thinâ€Film Transistors. Small, 2011, 7, 1186-1191.	5.2	122

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73	Self-powered ultraflexible photonic skin for continuous bio-signal detection via air-operation-stable polymer light-emitting diodes. Nature Communications, 2021, 12, 2234.	5.8	121
74	Cut-and-paste customization of organic FET integrated circuit and its application to electronic artificial skin. IEEE Journal of Solid-State Circuits, 2005, 40, 177-185.	3.5	120
75	A strain-absorbing design for tissueâ€“machine interfaces using a tunable adhesive gel. Nature Communications, 2014, 5, 5898.	5.8	120
76	300â€nm Imperceptible, Ultraflexible, and Biocompatible eâ€Skin Fit with Tactile Sensors and Organic Transistors. Advanced Electronic Materials, 2016, 2, 1500452.	2.6	120
77	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. Applied Physics Letters, 2009, 95, .	1.5	117
78	Recent Progress of Flexible Image Sensors for Biomedical Applications. Advanced Materials, 2021, 33, e2004416.	11.1	117
79	Integration and Response of Organic Electronics with Aqueous Microfluidics. Langmuir, 2002, 18, 5299-5302.	1.6	116
80	Control of threshold voltage of organic field-effect transistors with double-gate structures. Applied Physics Letters, 2005, 87, 023509.	1.5	111
81	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.	3.3	110
82	Highly reflective GaN/Al0.34Ga0.66N quarter-wave reflectors grown by metal organic chemical vapor deposition. Applied Physics Letters, 1998, 73, 3653-3655.	1.5	109
83	Correlation between Oligothiophene Thin Film Transistor Morphology and Vapor Responses. Journal of Physical Chemistry B, 2002, 106, 12563-12568.	1.2	109
84	Rational synthesis of organic thin films with exceptional long-range structural integrity. Science, 2015, 348, 1122-1126.	6.0	107
85	Thermally stable, highly efficient, ultraflexible organic photovoltaics. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4589-4594.	3.3	106
86	Highly Stretchable Metallic Nanowire Networks Reinforced by the Underlying Randomly Distributed Elastic Polymer Nanofibers via Interfacial Adhesion Improvement. Advanced Materials, 2019, 31, e1903446.	11.1	106
87	Highly Durable Nanofiber-Reinforced Elastic Conductors for Skin-Tight Electronic Textiles. ACS Nano, 2019, 13, 7905-7912.	7.3	103
88	Flexible Lowâ€Voltage Organic Transistors with High Thermal Stability at 250 Â°C. Advanced Materials, 2013, 25, 3639-3644.	11.1	101
89	Efficient and Mechanically Robust Ultraflexible Organic Solar Cells Based on Mixed Acceptors. Joule, 2020, 4, 128-141.	11.7	101
90	Skin Electronics: Nextâ€Generation Device Platform for Virtual and Augmented Reality. Advanced Functional Materials, 2021, 31, 2009602.	7.8	100

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91	Flexible low-voltage organic thin-film transistors and circuits based on C₁₀-DNTT. Journal of Materials Chemistry, 2012, 22, 4273-4277.	6.7	99
92	Sheet-Type Flexible Organic Active Matrix Amplifier System Using Pseudo-CMOS Circuits With Floating-Gate Structure. IEEE Transactions on Electron Devices, 2012, 59, 3434-3441.	1.6	97
93	Human-friendly organic integrated circuits. Materials Today, 2011, 14, 398-407.	8.3	89
94	Large-Area Flexible Ultrasonic Imaging System With an Organic Transistor Active Matrix. IEEE Transactions on Electron Devices, 2010, 57, 995-1002.	1.6	85
95	Skin bioelectronics towards long-term, continuous health monitoring. Chemical Society Reviews, 2022, 51, 3759-3793.	18.7	85
96	A few-layer molecular film on polymer substrates to enhance the performance of organic devices. Nature Nanotechnology, 2018, 13, 139-144.	15.6	84
97	Direct inkjet printing of silver electrodes on organic semiconductors for thin-film transistors with top contact geometry. Applied Physics Letters, 2008, 93, .	1.5	83
98	Ultrathin Organic Electrochemical Transistor with Nonvolatile and Thin Gel Electrolyte for Longâ€Term Electrophysiological Monitoring. Advanced Functional Materials, 2019, 29, 1906982.	7.8	79
99	Dual-gate organic phototransistor with high-gain and linear photoresponse. Nature Communications, 2018, 9, 4546.	5.8	76
100	Suppression of DC bias stress-induced degradation of organic field-effect transistors using postannealing effects. Applied Physics Letters, 2005, 87, 073505.	1.5	75
101	Smart Face Mask Based on an Ultrathin Pressure Sensor for Wireless Monitoring of Breath Conditions. Advanced Materials, 2022, 34, e2107758.	11.1	75
102	Insole Pedometer With Piezoelectric Energy Harvester and 2 V Organic Circuits. IEEE Journal of Solid-State Circuits, 2013, 48, 255-264.	3.5	74
103	Lasing Emission from an In0.1Ga0.9N Vertical Cavity Surface Emitting Laser. Japanese Journal of Applied Physics, 1998, 37, L1424-L1426.	0.8	73
104	An Organic FET SRAM With Back Gate to Increase Static Noise Margin and Its Application to Braille Sheet Display. IEEE Journal of Solid-State Circuits, 2007, 42, 93-100.	3.5	72
105	Organic Pseudo-CMOS Circuits for Low-Voltage Large-Gain High-Speed Operation. IEEE Electron Device Letters, 2011, 32, 1448-1450.	2.2	61
106	1 <formula formulatype="inline"><tex Notation="TeX">mu</tex></formula>m-Thickness Ultra-Flexible and High Electrode-Density Surface Electromyogram Measurement Sheet With 2 V Organic Transistors for Prosthetic Hand Control. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 824-833.	2.7	60
107	Reverseâ€Offset Printed Ultrathin Ag Mesh for Robust Conformal Transparent Electrodes for Highâ€Performance Organic Photovoltaics. Advanced Materials, 2018, 30, e1707526.	11.1	59
108	Pentacene field-effect transistors on plastic films operating at high temperature above 100Â°C. Applied Physics Letters, 2004, 85, 3902-3904.	1.5	58

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109	On-skin paintable biogel for long-term high-fidelity electroencephalogram recording. Science Advances, 2022, 8, .	4.7	58
110	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, .	3.3	57
111	Control of threshold voltage in low-voltage organic complementary inverter circuits with floating gate structures. Applied Physics Letters, 2011, 98, .	1.5	56
112	Organic Photovoltaics: Toward Self-Powered Wearable Electronics. Proceedings of the IEEE, 2019, 107, 2137-2154.	16.4	56
113	Highly efficient organic photovoltaics with enhanced stability through the formation of doping-induced stable interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6391-6397.	3.3	53
114	Bioinspired design of a polymer gel sensor for the realization of extracellular Ca2+ imaging. Scientific Reports, 2016, 6, 24275.	1.6	52
115	Organic Semiconductor Devices with Enhanced Field and Environmental Responses for Novel Applications. MRS Bulletin, 2008, 33, 690-696.	1.7	50
116	Highâ€Frequency, Conformable Organic Amplifiers. Advanced Materials, 2016, 28, 3298-3304.	11.1	49
117	Thermal stability of organic thin-film transistors with self-assembled monolayer dielectrics. Applied Physics Letters, 2010, 96, 053302.	1.5	48
118	Stretchable organic optoelectronic devices: Design of materials, structures, and applications. Materials Science and Engineering Reports, 2021, 146, 100631.	14.8	48
119	Reduction in operation voltage of complementary organic thin-film transistor inverter circuits using double-gate structures. Applied Physics Letters, 2007, 90, 093504.	1.5	46
120	An Efficient Ultraâ€Flexible Photoâ€Charging System Integrating Organic Photovoltaics and Supercapacitors. Advanced Energy Materials, 2020, 10, 2000523.	10.2	46
121	Tiny lamps to illuminate the body. Nature Materials, 2010, 9, 879-880.	13.3	44
122	High Operation Stability of Ultraflexible Organic Solar Cells with Ultravioletâ€Filtering Substrates. Advanced Materials, 2019, 31, e1808033.	11.1	44
123	Skin Impedance Measurements with Nanomesh Electrodes for Monitoring Skin Hydration. Advanced Healthcare Materials, 2020, 9, e2001322.	3.9	44
124	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.	3.3	44
125	Biomedical devices go wild. Science Advances, 2018, 4, eaav1889.	4.7	43
126	Emerging Trends in Flexible Active Multielectrode Arrays. Chemistry of Materials, 2019, 31, 6347-6358.	3.2	43

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127	Imperceptible organic electronics. MRS Bulletin, 2017, 42, 124-130.	1.7	42
128	Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. Small, 2022, 18, e2104810.	5.2	42
129	Well-rounded devices: the fabrication of electronics on curved surfaces â€“ a review. Materials Horizons, 2021, 8, 1926-1958.	6.4	39
130	Observation of enhanced spontaneous emission coupling factor in nitride-based vertical-cavity surface-emitting laser. Applied Physics Letters, 2002, 80, 722-724.	1.5	36
131	Building bionic skin. IEEE Spectrum, 2013, 50, 50-56.	0.5	36
132	Low operating voltage organic transistors and circuits with anodic titanium oxide and phosphonic acid self-assembled monolayer dielectrics. Organic Electronics, 2017, 40, 58-64.	1.4	36
133	Vacuum Ultraviolet Treatment of Selfâ€Assembled Monolayers: A Tool for Understanding Growth and Tuning Charge Transport in Organic Fieldâ€Effect Transistors. Advanced Materials, 2016, 28, 2049-2054.	11.1	35
134	Tightly confined oneâ€dimensional states in Tâ€shaped GaAs edge quantum wires with AlAs barriers. Applied Physics Letters, 1995, 66, 3672-3673.	1.5	34
135	Submillimeter radius bendable organic field-effect transistors. Journal of Non-Crystalline Solids, 2006, 352, 1769-1773.	1.5	34
136	User Customizable Logic Paper (UCLP) With Sea-Of Transmission-Gates (SOTG) of 2-V Organic CMOS and Ink-Jet Printed Interconnects. IEEE Journal of Solid-State Circuits, 2011, 46, 285-292.	3.5	34
137	Durable Ultraflexible Organic Photovoltaics with Novel Metalâ€Oxideâ€Free Cathode. Advanced Functional Materials, 2019, 29, 1808378.	7.8	34
138	30.3 Organic-transistor-based 2kV ESD-tolerant flexible wet sensor sheet for biomedical applications with wireless power and data transmission using 13.56MHz magnetic resonance. , 2014, , .		33
139	Conductance measurement of single-walled carbon nanotubes in aqueous environment. Applied Physics Letters, 2003, 82, 2338-2340.	1.5	32
140	A thermally resistant and air-stable n-type organic semiconductor: Naphthalene diimide of 3,5-bis-trifluoromethyl aniline. Synthetic Metals, 2009, 159, 2117-2121.	2.1	32
141	Low-voltage organic transistor with subfemtoliter inkjet source-drain contacts. MRS Communications, 2011, 1, 3-6.	0.8	32
142	Cyclic phosphatidic acid and lysophosphatidic acid induce hyaluronic acid synthesis via CREB transcription factor regulation in human skin fibroblasts. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1256-1263.	1.2	32
143	Soft sensors for a sensing-actuation system with high bladder voiding efficiency. Science Advances, 2020, 6, eaba0412.	4.7	32
144	Self-Excited Vibration of a Rotating Hollow Shaft Partially Filled with Liquid. Journal of Mechanical Design, 1980, 102, 185-192.	0.1	31

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145	Air-Stable Operation of Organic Field-Effect Transistors on Plastic Films Using Organic/Metallic Hybrid Passivation Layers. Japanese Journal of Applied Physics, 2007, 46, 4300.	0.8	31
146	Printed shadow masks for organic transistors. Applied Physics Letters, 2007, 91, 133502.	1.5	31
147	Hall effect measurements using polycrystalline pentacene field-effect transistors on plastic films. Applied Physics Letters, 2006, 88, 253508.	1.5	28
148	Integrated sensor and electronics processing for <10?8 "iMEMS" inertial measurement unit components. , 0, , .		27
149	Bending Effect of Organic Field-Effect Transistors with Polyimide Gate Dielectric Layers. Japanese Journal of Applied Physics, 2005, 44, 2841-2843.	0.8	27
150	Low operation voltage of inkjet-printed plastic sheet-type micromechanical switches. Applied Physics Letters, 2008, 92, .	1.5	27
151	Stretchable EMI Measurement Sheet With 8 $imes$ 8 Coil Array, 2 V Organic CMOS Decoder, and 0.18$ mu$m Silicon CMOS LSIs for Electric and Magnetic Field Detection. IEEE Journal of Solid-State Circuits, 2010, 45, 249-259.	3.5	27
152	Ultraflexible Transparent Oxide/Metal/Oxide Stack Electrode with Low Sheet Resistance for Electrophysiological Measurements. ACS Applied Materials & Interfaces, 2017, 9, 34744-34750.	4.0	27
153	Nanomesh Organic Electrochemical Transistor for Comfortable On-Skin Electrodes with Local Amplifying Function. ACS Applied Electronic Materials, 2020, 2, 3601-3609.	2.0	26
154	A large-area flexible wireless power transmission sheet using printed plastic MEMS switches and organic field-effect transistors. , 2006, , .		25
155	Direct gold bonding for flexible integrated electronics. Science Advances, 2021, 7, eabl6228.	4.7	25
156	Effects of annealing on pentacene field-effect transistors using polyimide gate dielectric layers. Journal of Applied Physics, 2006, 100, 024513.	1.1	24
157	Effects of annealing on electronic and structural characteristics of pentacene thin-film transistors on polyimide gate dielectrics. Applied Physics Letters, 2009, 95, .	1.5	24
158	Ultrathin and Efficient Organic Photovoltaics with Enhanced Air Stability by Suppression of Zinc Element Diffusion. Advanced Science, 2022, 9, e2105288.	5.6	24
159	A Monolithically Processed Rectifying Pixel for Highâ€Resolution Organic Imagers. Advanced Electronic Materials, 2018, 4, 1700601.	2.6	22
160	Developing the Nondevelopable: Creating Curvedâ€Surface Electronics from Nonstretchable Devices. Advanced Materials, 2022, 34, e2106683.	11.1	22
161	Cut-and-paste organic FET customized ICs for application to artificial skin. , 0, , .		21
162	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. IEEE Journal of Solid-State Circuits, 2012, 47, 301-309.	3.5	21

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163	High-resolution spatial control of the threshold voltage of organic transistors by microcontact printing of alkyl and fluoroalkylphosphonic acid self-assembled monolayers. Organic Electronics, 2015, 26, 239-244.	1.4	21
164	Transparencyâ€enhancing technology allows threeâ€dimensional assessment of gastrointestinal mucosa: A porcine model. Pathology International, 2018, 68, 102-108.	0.6	21
165	A mechanical switch device made of a polyimide-coated microfibrillated cellulose sheet. Journal of Micromechanics and Microengineering, 2009, 19, 055006.	1.5	19
166	Foundry-compatible high-resolution patterning of vertically phase-separated semiconducting films for ultraflexible organic electronics. Nature Communications, 2021, 12, 4937.	5.8	19
167	Skin Electronics: Nextâ€Generation Device Platform for Virtual and Augmented Reality (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT /Overl	7.8	19
168	Printed skin-like large-area flexible sensors and actuators. Procedia Chemistry, 2009, 1, 9-12.	0.7	18
169	High performance foldable polymer thin film transistors with a side gate architecture. Journal of Materials Chemistry, 2011, 21, 18804.	6.7	18
170	Lowâ€Power Monolithically Stacked Organic Photodiodeâ€Blocking Diode Imager by Turnâ€On Voltage Engineering. Advanced Electronic Materials, 2018, 4, 1800311.	2.6	18
171	Interconnected Heat-Press-Treated Gold Nanomesh Conductors for Wearable Sensors. ACS Applied Nano Materials, 2020, 3, 1848-1854.	2.4	18
172	Nanograting Structured Ultrathin Substrate for Ultraflexible Organic Photovoltaics. Small Methods, 2020, 4, 1900762.	4.6	18
173	Photorefractive multiple quantum wells at 1064â€‰â€‰nm. Optics Letters, 2001, 26, 22.	1.7	17
174	A field-cycle-induced high-dielectric phase in ferroelectric copolymer. Journal of Applied Physics, 2010, 107, 114506.	1.1	17
175	Deposition-Pressure-Induced Optimization of Molecular Packing for High-Performance Organic Thin-Film Transistors Based on Copper Phthalocyanine. Journal of Physical Chemistry C, 2012, 116, 4287-4292.	1.5	17
176	Ultraflexible organic electronics. MRS Bulletin, 2015, 40, 1130-1137.	1.7	17
177	Ultra-flexible short-channel organic field-effect transistors. Applied Physics Express, 2015, 8, 091601.	1.1	17
178	Detection of oxygen incorporated in molecularâ€beam epitaxy grown GaAsâ€onâ€AlAs interfaces and AlAs layers by secondary ion mass spectrometry. Applied Physics Letters, 1993, 63, 1924-1926.	1.5	16
179	Ambient Electronics. Japanese Journal of Applied Physics, 2012, 51, 100001.	0.8	16
180	Direct writing of anodic oxides for plastic electronics. Npj Flexible Electronics, 2018, 2, .	5.1	16

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