

# Takao Someya

## List of Publications by Citations

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291  
papers

33,042  
citations

79  
h-index

180  
g-index

325  
ext. papers

37,380  
ext. citations

11.7  
avg, IF

7.59  
L-index

#	Paper	IF	Citations
291	Materials and mechanics for stretchable electronics. <i>Science</i> , <b>2010</b> , 327, 1603-7	33.3	3464
290	An ultra-lightweight design for imperceptible plastic electronics. <i>Nature</i> , <b>2013</b> , 499, 458-63	50.4	1781
289	A large-area, flexible pressure sensor matrix with organic field-effect transistors for artificial skin applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 9966-70	11.5	1512
288	Elastomeric transistor stamps: reversible probing of charge transport in organic crystals. <i>Science</i> , <b>2004</b> , 303, 1644-6	33.3	1471
287	Stretchable active-matrix organic light-emitting diode display using printable elastic conductors. <i>Nature Materials</i> , <b>2009</b> , 8, 494-9	27	1425
286	Ultrathin and lightweight organic solar cells with high flexibility. <i>Nature Communications</i> , <b>2012</b> , 3, 770	17.4	1234
285	A rubberlike stretchable active matrix using elastic conductors. <i>Science</i> , <b>2008</b> , 321, 1468-72	33.3	1156
284	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
283	Flexible organic transistors and circuits with extreme bending stability. <i>Nature Materials</i> , <b>2010</b> , 9, 1015-22	27	1012
282	The rise of plastic bioelectronics. <i>Nature</i> , <b>2016</b> , 540, 379-385	50.4	925
281	Organic nonvolatile memory transistors for flexible sensor arrays. <i>Science</i> , <b>2009</b> , 326, 1516-9	33.3	812
280	Ultrathin, highly flexible and stretchable PLEDs. <i>Nature Photonics</i> , <b>2013</b> , 7, 811-816	33.9	706
279	Stretchable, large-area organic electronics. <i>Advanced Materials</i> , <b>2010</b> , 22, 2228-46	24	626
278	Ultraflexible organic photonic skin. <i>Science Advances</i> , <b>2016</b> , 2, e1501856	14.3	612
277	Inflammation-free, gas-permeable, lightweight, stretchable on-skin electronics with nanomeshes. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 907-913	28.7	555
276	A transparent bending-insensitive pressure sensor. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 472-8	28.7	549
275	Printable elastic conductors with a high conductivity for electronic textile applications. <i>Nature Communications</i> , <b>2015</b> , 6, 7461	17.4	540

274	Self-powered ultra-flexible electronics via nano-grating-patterned organic photovoltaics. <i>Nature</i> , <b>2018</b> , 561, 516-521	50.4	468
273	Printable elastic conductors by in situ formation of silver nanoparticles from silver flakes. <i>Nature Materials</i> , <b>2017</b> , 16, 834-840	27	416
272	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
271	Alcohol Vapor Sensors Based on Single-Walled Carbon Nanotube Field Effect Transistors. <i>Nano Letters</i> , <b>2003</b> , 3, 877-881	11.5	276
270	Stretchable and waterproof elastomer-coated organic photovoltaics for washable electronic textile applications. <i>Nature Energy</i> , <b>2017</b> , 2, 780-785	62.3	270
269	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
268	Chemical and physical sensing by organic field-effect transistors and related devices. <i>Advanced Materials</i> , <b>2010</b> , 22, 3799-811	24	250
267	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
266	Organic transistors with high thermal stability for medical applications. <i>Nature Communications</i> , <b>2012</b> , 3, 723	17.4	237
265	. <i>IEEE Transactions on Electron Devices</i> , <b>2005</b> , 52, 2502-2511	2.9	216
264	Organic Photodetectors for Next-Generation Wearable Electronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902045	24.5	214
263	Room temperature lasing at blue wavelengths in gallium nitride microcavities. <i>Science</i> , <b>1999</b> , 285, 1905-6	33.3	203
262	Hydrogen-bonded semiconducting pigments for air-stable field-effect transistors. <i>Advanced Materials</i> , <b>2013</b> , 25, 1563-9	24	199
261	Contact resistance and megahertz operation of aggressively scaled organic transistors. <i>Small</i> , <b>2012</b> , 8, 73-9	11	196
260	Bending experiment on pentacene field-effect transistors on plastic films. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 073511	3.4	194
259	Recent Progress in the Development of Printed Thin-Film Transistors and Circuits with High-Resolution Printing Technology. <i>Advanced Materials</i> , <b>2017</b> , 29, 1602736	24	191
258	Materials and structural designs of stretchable conductors. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 2946-2968	68.5	189
257	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

256	Soft, conformable electrical contacts for organic semiconductors: high-resolution plastic circuits by lamination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 10252-6	11.5	183
255	Toward a new generation of smart skins. <i>Nature Biotechnology</i> , <b>2019</b> , 37, 382-388	44.5	182
254	Organic electronics on banknotes. <i>Advanced Materials</i> , <b>2011</b> , 23, 654-8	24	174
253	Enhancing the Performance of Stretchable Conductors for E-Textiles by Controlled Ink Permeation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605848	24	170
252	Synthesis, assembly, and thin film transistors of dihydrodiazapentacene: an isostructural motif for pentacene. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 10284-7	16.4	169
251	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
250	High mobility of pentacene field-effect transistors with polyimide gate dielectric layers. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3789-3791	3.4	158
249	The Future of Flexible Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000765	21.8	149
248	Imperceptible magnetoelectronics. <i>Nature Communications</i> , <b>2015</b> , 6, 6080	17.4	148
247	Nanomesh pressure sensor for monitoring finger manipulation without sensory interference. <i>Science</i> , <b>2020</b> , 370, 966-970	33.3	145
246	Mechanically adaptive organic transistors for implantable electronics. <i>Advanced Materials</i> , <b>2014</b> , 26, 4967-4973	21.7	144
245	Ultraflexible organic amplifier with biocompatible gel electrodes. <i>Nature Communications</i> , <b>2016</b> , 7, 11425	17.4	139
244	A Highly Sensitive Capacitive-type Strain Sensor Using Wrinkled Ultrathin Gold Films. <i>Nano Letters</i> , <b>2018</b> , 18, 5610-5617	11.5	138
243	Ultraflexible organic field-effect transistors embedded at a neutral strain position. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 173502	3.4	138
242	Transparent, conformable, active multielectrode array using organic electrochemical transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10554-10559	11.5	133
241	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
240	An imperceptible plastic electronic wrap. <i>Advanced Materials</i> , <b>2015</b> , 27, 34-40	24	131
239	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

238	Vapor sensing with p-dihexylquarterthiophene field-effect transistors: The role of grain boundaries. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 3079-3081	3.4	131
237	. <i>IEEE Transactions on Electron Devices</i> , <b>2009</b> , 56, 1027-1035	2.9	124
236	. <i>IEEE Transactions on Electron Devices</i> , <b>2007</b> , 54, 202-209	2.9	122
235	Nanoscale organic transistors that use source/drain electrodes supported by high resolution rubber stamps. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 793-795	3.4	119
234	Ultrasoft electronics to monitor dynamically pulsing cardiomyocytes. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 156-160	28.7	115
233	Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802359	24	111
232	Contact doping and ultrathin gate dielectrics for nanoscale organic thin-film transistors. <i>Small</i> , <b>2011</b> , 7, 1186-91	11	111
231	Stretchable organic integrated circuits for large-area electronic skin surfaces. <i>MRS Bulletin</i> , <b>2012</b> , 37, 236-245	3.2	110
230	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
229	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
228	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
227	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
226	Integration and Response of Organic Electronics with Aqueous Microfluidics. <i>Langmuir</i> , <b>2002</b> , 18, 5299-5302	3.0	104
225	Correlation between Oligothiophene Thin Film Transistor Morphology and Vapor Responses. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 12563-12568	3.4	102
224	Integration of Organic Electrochemical and Field-Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays. <i>Advanced Materials</i> , <b>2016</b> , 28, 9722-9728	24	101
223	300-nm Imperceptible, Ultraflexible, and Biocompatible e-Skin Fit with Tactile Sensors and Organic Transistors. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500452	6.4	100
222	Highly reflective GaN/Al <sub>0.34</sub> Ga <sub>0.66</sub> N quarter-wave reflectors grown by metal organic chemical vapor deposition. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3653-3655	3.4	94
221	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

220	Control of threshold voltage of organic field-effect transistors with double-gate structures. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 023509	3.4	91
219	Nonthrombogenic, stretchable, active multielectrode array for electroanatomical mapping. <i>Science Advances</i> , <b>2018</b> , 4, eaau2426	14.3	89
218	Flexible low-voltage organic transistors with high thermal stability at 250 °C. <i>Advanced Materials</i> , <b>2013</b> , 25, 3639-44	24	84
217	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
216	Self-Adhesive and Ultra-Conformable, Sub-300 nm Dry Thin-Film Electrodes for Surface Monitoring of Biopotentials. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803279	15.6	81
215	Organic thin films. Rational synthesis of organic thin films with exceptional long-range structural integrity. <i>Science</i> , <b>2015</b> , 348, 1122-6	33.3	81
214	Thermally stable, highly efficient, ultraflexible organic photovoltaics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 4589-4594	11.5	80
213	Human-friendly organic integrated circuits. <i>Materials Today</i> , <b>2011</b> , 14, 398-407	21.8	80
212	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
211	Robust metal ion-chelated polymer interfacial layer for ultraflexible non-fullerene organic solar cells. <i>Nature Communications</i> , <b>2020</b> , 11, 4508	17.4	73
210	Suppression of DC bias stress-induced degradation of organic field-effect transistors using postannealing effects. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 073505	3.4	71
209	. <i>IEEE Transactions on Electron Devices</i> , <b>2010</b> , 57, 995-1002	2.9	70
208	A conformable imager for biometric authentication and vital sign measurement. <i>Nature Electronics</i> , <b>2020</b> , 3, 113-121	28.4	67
207	Lasing Emission from an In <sub>0.1</sub> Ga <sub>0.9</sub> N Vertical Cavity Surface Emitting Laser. <i>Japanese Journal of Applied Physics</i> , <b>1998</b> , 37, L1424-L1426	1.4	65
206	Highly Durable Nanofiber-Reinforced Elastic Conductors for Skin-Tight Electronic Textiles. <i>ACS Nano</i> , <b>2019</b> , 13, 7905-7912	16.7	64
205	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
204	Natural Biopolymer-Based Biocompatible Conductors for Stretchable Bioelectronics. <i>Chemical Reviews</i> , <b>2021</b> , 121, 2109-2146	68.1	64
203	A Highly Responsive Organic Image Sensor Based on a Two-Terminal Organic Photodetector with Photomultiplication. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903687	24	63

202	A durable nanomesh on-skin strain gauge for natural skin motion monitoring with minimum mechanical constraints. <i>Science Advances</i> , <b>2020</b> , 6, eabb7043	14.3	61
201	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
200	Efficient and Mechanically Robust Ultraflexible Organic Solar Cells Based on Mixed Acceptors. <i>Joule</i> , <b>2020</b> , 4, 128-141	27.8	58
199	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
198	Highly Stretchable Metallic Nanowire Networks Reinforced by the Underlying Randomly Distributed Elastic Polymer Nanofibers via Interfacial Adhesion Improvement. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903446	24	56
197	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
196	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> , <b>2020</b> , 117, 7063-7070	11.5	53
195	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
194	Reverse-Offset Printed Ultrathin Ag Mesh for Robust Conformal Transparent Electrodes for High-Performance Organic Photovoltaics. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707526	24	48
193	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
192	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> , <b>2014</b> , 8, 824-33	5.1	47
191	High-Frequency, Conformable Organic Amplifiers. <i>Advanced Materials</i> , <b>2016</b> , 28, 3298-304	24	46
190	Organic Semiconductor Devices with Enhanced Field and Environmental Responses for Novel Applications. <i>MRS Bulletin</i> , <b>2008</b> , 33, 690-696	3.2	46
189	Bioinspired design of a polymer gel sensor for the realization of extracellular Ca(2+) imaging. <i>Scientific Reports</i> , <b>2016</b> , 6, 24275	4.9	45
188	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
187	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
186	Ultrathin Organic Electrochemical Transistor with Nonvolatile and Thin Gel Electrolyte for Long-Term Electrophysiological Monitoring. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1906982	15.6	44
185	Dual-gate organic phototransistor with high-gain and linear photoresponse. <i>Nature Communications</i> , <b>2018</b> , 9, 4546	17.4	44

184	Skin Electronics: Next-Generation Device Platform for Virtual and Augmented Reality. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009602	15.6	42
183	Electrospun nanofiber-based soft electronics. <i>NPG Asia Materials</i> , <b>2021</b> , 13,	10.3	41
182	Recent Progress of Flexible Image Sensors for Biomedical Applications. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004416	24	41
181	Imperceptible organic electronics. <i>MRS Bulletin</i> , <b>2017</b> , 42, 124-130	3.2	38
180	Self-powered ultraflexible photonic skin for continuous bio-signal detection via air-operation-stable polymer light-emitting diodes. <i>Nature Communications</i> , <b>2021</b> , 12, 2234	17.4	34
179	Organic Photovoltaics: Toward Self-Powered Wearable Electronics. <i>Proceedings of the IEEE</i> , <b>2019</b> , 107, 2137-2154	14.3	32
178	Tightly confined one-dimensional states in T-shaped GaAs edge quantum wires with AlAs barriers. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 3672-3673	3.4	32
177	Low operating voltage organic transistors and circuits with anodic titanium oxide and phosphonic acid self-assembled monolayer dielectrics. <i>Organic Electronics</i> , <b>2017</b> , 40, 58-64	3.5	31
176	Building bionic skin. <i>IEEE Spectrum</i> , <b>2013</b> , 50, 50-56	1.7	31
175	Highly efficient organic photovoltaics with enhanced stability through the formation of doping-induced stable interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 6391-6397	11.5	30
174	Observation of enhanced spontaneous emission coupling factor in nitride-based vertical-cavity surface-emitting laser. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 722-724	3.4	30
173	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> , <b>2016</b> , 28, 2049-54	24	29
172	A thermally resistant and air-stable n-type organic semiconductor: Naphthalene diimide of 3,5-bis-trifluoromethyl aniline. <i>Synthetic Metals</i> , <b>2009</b> , 159, 2117-2121	3.6	29
171	Low-voltage organic transistor with subfemtoliter inkjet source-drain contacts. <i>MRS Communications</i> , <b>2011</b> , 1, 3-6	2.7	29
170	Air-Stable Operation of Organic Field-Effect Transistors on Plastic Films Using Organic/Metallic Hybrid Passivation Layers. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 4300-4306	1.4	29
169	Emerging Trends in Flexible Active Multielectrode Arrays. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6347-6358	9.6	28
168	High Operation Stability of Ultraflexible Organic Solar Cells with Ultraviolet-Filtering Substrates. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808033	24	28
167	Printed shadow masks for organic transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 133502	3.4	28



166	Submillimeter radius bendable organic field-effect transistors. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1769-1773	3.9	28
165	Conductance measurement of single-walled carbon nanotubes in aqueous environment. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2338-2340	3.4	28
164	Self-Excited Vibration of a Rotating Hollow Shaft Partially Filled with Liquid. <i>Journal of Mechanical Design</i> , <b>1980</b> , 102, 185-192		27
163	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 <b>2014</b> ,		26
162	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
161	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
160	Low operation voltage of inkjet-printed plastic sheet-type micromechanical switches. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 053302	3.4	25
159	Bending Effect of Organic Field-Effect Transistors with Polyimide Gate Dielectric Layers. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 2841-2843	1.4	25
158	Cyclic phosphatidic acid and lysophosphatidic acid induce hyaluronic acid synthesis via CREB transcription factor regulation in human skin fibroblasts. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2014</b> , 1841, 1256-63	5	24
157	Effects of annealing on electronic and structural characteristics of pentacene thin-film transistors on polyimide gate dielectrics. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 023302	3.4	24
156	Effects of annealing on pentacene field-effect transistors using polyimide gate dielectric layers. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 024513	2.5	23
155	An Efficient Ultra-Flexible Photo-Charging System Integrating Organic Photovoltaics and Supercapacitors. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000523	21.8	22
154	Ultraflexible Transparent Oxide/Metal/Oxide Stack Electrode with Low Sheet Resistance for Electrophysiological Measurements. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34744-34750	9.5	21
153	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
152	Durable Ultraflexible Organic Photovoltaics with Novel Metal-Oxide-Free Cathode. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808378	15.6	21
151	Ultraflexible organic light-emitting diodes for optogenetic nerve stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 21138-21146	11.5	20
150	Flexible self-charging power sources. <i>Nature Reviews Materials</i> ,	73.3	20
149	Cut-and-paste organic FET customized ICs for application to artificial skin		19

148	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
147	Printed skin-like large-area flexible sensors and actuators. <i>Procedia Chemistry</i> , <b>2009</b> , 1, 9-12		18
146	A mechanical switch device made of a polyimide-coated microfibrillated cellulose sheet. <i>Journal of Micromechanics and Microengineering</i> , <b>2009</b> , 19, 055006	2	18
145	High-resolution spatial control of the threshold voltage of organic transistors by microcontact printing of alkyl and fluoroalkylphosphonic acid self-assembled monolayers. <i>Organic Electronics</i> , <b>2015</b> , 26, 239-244	3.5	17
144	A field-cycle-induced high-dielectric phase in ferroelectric copolymer. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 114506	2.5	17
143	A large-area flexible wireless power transmission sheet using printed plastic MEMS switches and organic field-effect transistors <b>2006</b> ,		17
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