

Takao Someya

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.

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	Highly Precise, Continuous, Long-term Monitoring of Skin Electrical Resistance by Nanomesh Electrodes.. <i>Advanced Healthcare Materials</i> , 2022 , e2102425	10.1	2
290	Ultrathin and Efficient Organic Photovoltaics with Enhanced Air Stability by Suppression of Zinc Element Diffusion.. <i>Advanced Science</i> , 2022 , e2105288	13.6	5
289	Solution-Processed Electron-Transport Layer-free Organic Photovoltaics with Liquid Metal Cathodes.. <i>ACS Applied Materials & Interfaces</i> , 2022 , 14, 14165-14173	9.5	2
288	Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. <i>Small</i> , 2021 , e2104810	11	14
287	Developing the Nondevelopable: Creating Curved-Surface Electronics from Nonstretchable Devices. <i>Advanced Materials</i> , 2021 , e2106683	24	7
286	Smart Face Mask Based on an Ultrathin Pressure Sensor for Wireless Monitoring of Breath Conditions. <i>Advanced Materials</i> , 2021 , e2107758	24	15
285	Organic electronics Axon-Hillock neuromorphic circuit: towards biologically compatible, and physically flexible, integrate-and-fire spiking neural networks. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 104004	3	7
284	Continuous measurement of surface electrical potentials from transplanted cardiomyocyte tissue derived from human-induced pluripotent stem cells under physiological conditions in vivo. <i>Heart and Vessels</i> , 2021 , 36, 899-909	2.1	
283	Electrospun nanofiber-based soft electronics. <i>NPG Asia Materials</i> , 2021 , 13,	10.3	41
282	Self-powered ultraflexible photonic skin for continuous bio-signal detection via air-operation-stable polymer light-emitting diodes. <i>Nature Communications</i> , 2021 , 12, 2234	17.4	34
281	A digital nervous system aiming toward personalized IoT healthcare. <i>Scientific Reports</i> , 2021 , 11, 7757	4.9	5
280	70-2: Sheet-type Image Sensor with Near Infrared Sensitive Organic Photodiode. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 1044-1047	0.5	
279	55-2: Invited Paper: Nanomesh Based on Skin Electronics. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 768-771	0.5	
278	6-2: Invited Paper: An Imager with Organic Photodetectors Based on LTPS-TFT Technology. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 45-48	0.5	
277	Ultraflexible Integrated Organic Electronics for Ultrasensitive Photodetection. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000956	6.8	7
276	High-Transconductance Organic Electrochemical Transistor Fabricated on Ultrathin Films Using Spray Coating. <i>Small Structures</i> , 2021 , 2, 2000088	8.7	9
275	Natural Biopolymer-Based Biocompatible Conductors for Stretchable Bioelectronics. <i>Chemical Reviews</i> , 2021 , 121, 2109-2146	68.1	64

274	Molecular doping of near-infrared organic photodetectors for photoplethysmogram sensors. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3129-3135	7.1	2
273	Well-rounded devices: the fabrication of electronics on curved surfaces - a review. <i>Materials Horizons</i> , 2021 , 8, 1926-1958	14.4	13
272	Simultaneous measurement of contractile force and field potential of dynamically beating human iPSC cell-derived cardiac cell sheet-tissue with flexible electronics. <i>Lab on A Chip</i> , 2021 , 21, 3899-3909	7.2	1
271	Recent Progress of Flexible Image Sensors for Biomedical Applications. <i>Advanced Materials</i> , 2021 , 33, e2004416	24	41
270	Effect of ionic conduction under dielectric barriers on PEDOT:PSS electrochemical interfaces. <i>Applied Physics Express</i> , 2021 , 14, 031003	2.4	
269	Skin Electronics: Next-Generation Device Platform for Virtual and Augmented Reality. <i>Advanced Functional Materials</i> , 2021 , 31, 2009602	15.6	42
268	Foundry-compatible high-resolution patterning of vertically phase-separated semiconducting films for ultraflexible organic electronics. <i>Nature Communications</i> , 2021 , 12, 4937	17.4	4
267	Skin Electronics: Next-Generation Device Platform for Virtual and Augmented Reality (Adv. Funct. Mater. 39/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170286	15.6	5
266	Robust, self-adhesive, reinforced polymeric nanofilms enabling gas-permeable dry electrodes for long-term application. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	13
265	Photoactive layer formation in the dark for high performance of air-processable organic photovoltaics. <i>JPhys Materials</i> , 2021 , 4, 044016	4.2	1
264	Stretchable organic optoelectronic devices: Design of materials, structures, and applications. <i>Materials Science and Engineering Reports</i> , 2021 , 146, 100631	30.9	11
263	Direct gold bonding for flexible integrated electronics.. <i>Science Advances</i> , 2021 , 7, eabl6228	14.3	5
262	Twin Meander Coil 2021 , 5, 1-21		0
261	Soft sensors for a sensing-actuation system with high bladder voiding efficiency. <i>Science Advances</i> , 2020 , 6, eaba0412	14.3	13
260	Flexible short-channel organic transistors and inverter circuits using top-contact and double-gate structure. <i>Applied Physics Express</i> , 2020 , 13, 061001	2.4	1
259	Suppressing the negative temperature coefficient effect of resistance in polymer composites with positive temperature coefficients of resistance by coating with parylene. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7304-7308	7.1	6
258	The Future of Flexible Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2000765	21.8	149
257	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

256	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> , 2020 , 117, 6391-6397	11.5	30
255	Interconnected Heat-Press-Treated Gold Nanomesh Conductors for Wearable Sensors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1848-1854	5.6	13
254	Nanograting Structured Ultrathin Substrate for Ultraflexible Organic Photovoltaics. <i>Small Methods</i> , 2020 , 4, 1900762	12.8	9
253	A conformable imager for biometric authentication and vital sign measurement. <i>Nature Electronics</i> , 2020 , 3, 113-121	28.4	67
252	An Efficient Ultra-Flexible Photo-Charging System Integrating Organic Photovoltaics and Supercapacitors. <i>Advanced Energy Materials</i> , 2020 , 10, 2000523	21.8	22
251	Efficient and Mechanically Robust Ultraflexible Organic Solar Cells Based on Mixed Acceptors. <i>Joule</i> , 2020 , 4, 128-141	27.8	58
250	Skin Impedance Measurements with Nanomesh Electrodes for Monitoring Skin Hydration. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001322	10.1	15
249	Measurement of optical reflection and temperature changes after blood occlusion using a wearable device. <i>Scientific Reports</i> , 2020 , 10, 11491	4.9	4
248	Nanomesh pressure sensor for monitoring finger manipulation without sensory interference. <i>Science</i> , 2020 , 370, 966-970	33.3	145
247	A durable nanomesh on-skin strain gauge for natural skin motion monitoring with minimum mechanical constraints. <i>Science Advances</i> , 2020 , 6, eabb7043	14.3	61
246	Nanomesh Organic Electrochemical Transistor for Comfortable On-Skin Electrodes with Local Amplifying Function. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3601-3609	4	12
245	Robust metal ion-chelated polymer interfacial layer for ultraflexible non-fullerene organic solar cells. <i>Nature Communications</i> , 2020 , 11, 4508	17.4	73
244	Ultraflexible organic light-emitting diodes for optogenetic nerve stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 21138-21146	11.5	20
243	Organic Photodetectors for Next-Generation Wearable Electronics. <i>Advanced Materials</i> , 2020 , 32, e1902045	24.5	214
242	Ultrathin Organic Electrochemical Transistor with Nonvolatile and Thin Gel Electrolyte for Long-Term Electrophysiological Monitoring. <i>Advanced Functional Materials</i> , 2019 , 29, 1906982	15.6	44
241	Highly Durable Nanofiber-Reinforced Elastic Conductors for Skin-Tight Electronic Textiles. <i>ACS Nano</i> , 2019 , 13, 7905-7912	16.7	64
240	Suppressing Dark Current in Organic Phototransistors through Modulating Electron Injection via a Deep Work Function Electrode. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1054-1058	4	2
239	Materials and structural designs of stretchable conductors. <i>Chemical Society Reviews</i> , 2019 , 48, 2946-2966	38.5	189

238	Emerging Trends in Flexible Active Multielectrode Arrays. <i>Chemistry of Materials</i> , 2019 , 31, 6347-6358	9.6	28
237	High Operation Stability of Ultraflexible Organic Solar Cells with Ultraviolet-Filtering Substrates. <i>Advanced Materials</i> , 2019 , 31, e1808033	24	28
236	Toward a new generation of smart skins. <i>Nature Biotechnology</i> , 2019 , 37, 382-388	44.5	182
235	Organic Photovoltaics: Toward Self-Powered Wearable Electronics. <i>Proceedings of the IEEE</i> , 2019 , 107, 2137-2154	14.3	32
234	Highly Stretchable Metallic Nanowire Networks Reinforced by the Underlying Randomly Distributed Elastic Polymer Nanofibers via Interfacial Adhesion Improvement. <i>Advanced Materials</i> , 2019 , 31, e1903446	24	56
233	Flexible Electronics: Highly Stretchable Metallic Nanowire Networks Reinforced by the Underlying Randomly Distributed Elastic Polymer Nanofibers via Interfacial Adhesion Improvement (Adv. Mater. 37/2019). <i>Advanced Materials</i> , 2019 , 31, 1970265	24	3
232	A Highly Responsive Organic Image Sensor Based on a Two-Terminal Organic Photodetector with Photomultiplication. <i>Advanced Materials</i> , 2019 , 31, e1903687	24	63
231	Durable Ultraflexible Organic Photovoltaics with Novel Metal-Oxide-Free Cathode. <i>Advanced Functional Materials</i> , 2019 , 29, 1808378	15.6	21
230	Ultrasoft electronics to monitor dynamically pulsing cardiomyocytes. <i>Nature Nanotechnology</i> , 2019 , 14, 156-160	28.7	115
229	Algorithm for evaluating tissue circulation based on spectral changes in wearable photoplethysmography device. <i>Sensing and Bio-Sensing Research</i> , 2019 , 22, 100257	3.3	3
228	Thermally stable, highly efficient, ultraflexible organic photovoltaics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4589-4594	11.5	80
227	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
226	A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700601	6.4	15
225	Transport characteristics in Au/pentacene/Au diodes. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 03EH07		1
224	Transparency-enhancing technology allows three-dimensional assessment of gastrointestinal mucosa: A porcine model. <i>Pathology International</i> , 2018 , 68, 102-108	1.8	14
223	A few-layer molecular film on polymer substrates to enhance the performance of organic devices. <i>Nature Nanotechnology</i> , 2018 , 13, 139-144	28.7	64
222	A Highly Sensitive Capacitive-type Strain Sensor Using Wrinkled Ultrathin Gold Films. <i>Nano Letters</i> , 2018 , 18, 5610-5617	11.5	138
221	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

220	Self-Adhesive and Ultra-Conformable, Sub-300 nm Dry Thin-Film Electrodes for Surface Monitoring of Biopotentials. <i>Advanced Functional Materials</i> , 2018 , 28, 1803279	15.6	81
219	Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. <i>Advanced Materials</i> , 2018 , 30, e1802359	24	111
218	Reverse-Offset Printed Ultrathin Ag Mesh for Robust Conformal Transparent Electrodes for High-Performance Organic Photovoltaics. <i>Advanced Materials</i> , 2018 , 30, e1707526	24	48
217	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	
216	Stretchable Structural Color Filters Based on a Metal Insulator Metal Structure. <i>Advanced Optical Materials</i> , 2018 , 6, 1800851	8.1	9
215	Self-powered ultra-flexible electronics via nano-grating-patterned organic photovoltaics. <i>Nature</i> , 2018 , 561, 516-521	50.4	468
214	Dual-gate organic phototransistor with high-gain and linear photoresponse. <i>Nature Communications</i> , 2018 , 9, 4546	17.4	44
213	Nonthrombogenic, stretchable, active multielectrode array for electroanatomical mapping. <i>Science Advances</i> , 2018 , 4, eaau2426	14.3	89
212	Direct writing of anodic oxides for plastic electronics. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	12
211	Transparent Electrodes: Reverse-Offset Printed Ultrathin Ag Mesh for Robust Conformal Transparent Electrodes for High-Performance Organic Photovoltaics (Adv. Mater. 26/2018). <i>Advanced Materials</i> , 2018 , 30, 1870190	24	2
210	Threshold voltage control for organic thin-film transistors using a tri-gate structure with capacitive coupling. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 04CL01	1.4	1
209	Antithrombotic Protein Filter Composed of Hybrid Tissue-Fabric Material has a Long Lifetime. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 1352-1364	4.7	2
208	Imperceptible organic electronics. <i>MRS Bulletin</i> , 2017 , 42, 124-130	3.2	38
207	Printable elastic conductors by in situ formation of silver nanoparticles from silver flakes. <i>Nature Materials</i> , 2017 , 16, 834-840	27	416
206	Enhancing the Performance of Stretchable Conductors for E-Textiles by Controlled Ink Permeation. <i>Advanced Materials</i> , 2017 , 29, 1605848	24	170
205	Programmable Neuron Array Based on a 2-Transistor Multiplier Using Organic Floating-Gate for Intelligent Sensors. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2017 , 7, 81-91	5.2	7
204	Spatial resolution and maximum compensation factor of two-dimensional selective excitation pulses for MRI of objects containing conductive implants. <i>AIP Advances</i> , 2017 , 7, 056726	1.5	
203	Stretchable and waterproof elastomer-coated organic photovoltaics for washable electronic textile applications. <i>Nature Energy</i> , 2017 , 2, 780-785	62.3	270

202	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
201	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
200	Multipoint Tissue Circulation Monitoring with a Flexible Optical Probe. <i>Scientific Reports</i> , 2017 , 7, 9643	4.9	6
199	Inflammation-free, gas-permeable, lightweight, stretchable on-skin electronics with nanomeshes. <i>Nature Nanotechnology</i> , 2017 , 12, 907-913	28.7	555
198	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
197	Recent Progress in the Development of Printed Thin-Film Transistors and Circuits with High-Resolution Printing Technology. <i>Advanced Materials</i> , 2017 , 29, 1602736	24	191
196	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
195	Single laser to multiple optical fiber device for optogenetics-based epidural spinal cord stimulation 2017 ,		2
194	Volatile Components of the Essential Oil of <i>Artemisia montana</i> and Their Sedative Effects. <i>Journal of Oleo Science</i> , 2017 , 66, 843-849	1.6	8
193	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
192	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
191	Ultraflexible organic photonic skin. <i>Science Advances</i> , 2016 , 2, e1501856	14.3	612
190	Ultraflexible organic amplifier with biocompatible gel electrodes. <i>Nature Communications</i> , 2016 , 7, 11425	57.4	139
189	Bioinspired design of a polymer gel sensor for the realization of extracellular Ca(2+) imaging. <i>Scientific Reports</i> , 2016 , 6, 24275	4.9	45
188	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
187	High-Frequency, Conformable Organic Amplifiers. <i>Advanced Materials</i> , 2016 , 28, 3298-304	24	46
186	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
185	A transparent bending-insensitive pressure sensor. <i>Nature Nanotechnology</i> , 2016 , 11, 472-8	28.7	549

184	Temperature-modulated annealing of c-plane sapphire for long-range-ordered atomic steps. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 115302	3	1
183	The rise of plastic bioelectronics. <i>Nature</i> , 2016 , 540, 379-385	50.4	925
182	Enhancement of Closed-Loop Gain of Organic Amplifiers Using Double-Gate Structures. <i>IEEE Electron Device Letters</i> , 2016 , 1-1	4.4	1
181	2016 ,		11
180	A Mechanically Durable and Flexible Organic Rectifying Diode with a Polyethylenimine Ethoxylated Cathode. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600259	6.4	13
179	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> , 2015 , 26, 239-244	3.5	17
178	Printable elastic conductors with a high conductivity for electronic textile applications. <i>Nature Communications</i> , 2015 , 6, 7461	17.4	540
177	Design of radio frequency pulse waveforms for mitigating signal inhomogeneity in magnetic resonance imaging due to metallic implants. <i>Journal of Applied Physics</i> , 2015 , 117, 17A308	2.5	1
176	Study of Randomly Distributed Charge Traps by Measuring Frequency- and Time-Dependence of a DNTT-Based MIS Capacitor. <i>Journal of Display Technology</i> , 2015 , 11, 604-609		
175	Thermal stability of organic transistors with short channel length on ultrathin foils. <i>Organic Electronics</i> , 2015 , 26, 279-284	3.5	6
174	Room temperature direct bonding and debonding of polymer film on glass wafer for fabrication of flexible electronic devices 2015 ,		2
173	Ultra-flexible short-channel organic field-effect transistors. <i>Applied Physics Express</i> , 2015 , 8, 091601	2.4	14
172	Design of small-size pouch motors for rat gait rehabilitation device. <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, 4578-81	0.9	7
171	Ultraflexible, large-area, physiological temperature sensors for multipoint measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14533-8	11.5	247
170	An imperceptible plastic electronic wrap. <i>Advanced Materials</i> , 2015 , 27, 34-40	24	131
169	Ultraflexible organic electronics. <i>MRS Bulletin</i> , 2015 , 40, 1130-1137	3.2	14
168	16.4 Energy-autonomous fever alarm armband integrating fully flexible solar cells, piezoelectric speaker, temperature detector, and 12V organic complementary FET circuits 2015 ,		7
167	Organic thin films. Rational synthesis of organic thin films with exceptional long-range structural integrity. <i>Science</i> , 2015 , 348, 1122-6	33.3	81

166	An MRI-compatible and quantifiable mechanical stimulator for allodynia in a rat model of neuropathic pain. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 4298-301</i>	0.9	1
165	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, 2015, 2015, 3173-6</i>	0.9	0
164	Imperceptible magnetoelectronics. <i>Nature Communications, 2015, 6, 6080</i>	17.4	148
163	Mechanically adaptive organic transistors for implantable electronics. <i>Advanced Materials, 2014, 26, 4967-73</i>	7.3	144
162	Alternating current admittance of DNTT-based metal-insulator-semiconductor capacitors. <i>Journal of Applied Physics, 2014, 115, 093702</i>	2.5	6
161	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, 2014, 1841, 1256-63</i>	5	24
160	Bionic skins using flexible organic devices 2014,		1
159	Flexible, large-area, and distributed organic electronics closely contacted with skin for healthcare applications 2014,		3
158	11.2: Invited Paper: Imperceptible Electronic Skin. <i>Digest of Technical Papers SID International Symposium, 2014, 45, 122-125</i>	0.5	7
157	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, 2014, 2014, 2338-41</i>	0.9	1
156	A strain-absorbing design for tissue-machine interfaces using a tunable adhesive gel. <i>Nature Communications, 2014, 5, 5898</i>	17.4	106
155	An MRI-compatible, ultra-thin, flexible stimulator array for functional neuroimaging by direct stimulation of the rat brain. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 4700-3</i>	0.9	2
154	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,		26
153	Ultrathin, short channel, thermally-stable organic transistors for neural interface systems 2014,		2
152	1 μ 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, 2014, 8, 824-33</i>	5.1	47
151	Insole Pedometer With Piezoelectric Energy Harvester and 2 V Organic Circuits. <i>IEEE Journal of Solid-State Circuits, 2013, 48, 255-264</i>	5.5	57
150	Flexible low-voltage organic transistors with high thermal stability at 250 °C. <i>Advanced Materials, 2013, 25, 3639-44</i>	24	84
149	An ultra-lightweight design for imperceptible plastic electronics. <i>Nature, 2013, 499, 458-63</i>	50.4	1781

148	Ultrathin, highly flexible and stretchable PLEDs. <i>Nature Photonics</i> , 2013 , 7, 811-816	33.9	706
147	Large-area and flexible sensors with organic transistors 2013 ,		2
146	Ultraflexible organic devices for biomedical applications 2013 ,		2
145	Hydrogen-bonded semiconducting pigments for air-stable field-effect transistors. <i>Advanced Materials</i> , 2013 , 25, 1563-9	24	199
144	Building bionic skin. <i>IEEE Spectrum</i> , 2013 , 50, 50-56	1.7	31
143	Breakthroughs in Photonics 2012: Large-Area Ultrathin Photonics. <i>IEEE Photonics Journal</i> , 2013 , 5, 0700805-0700805		
142	Sensitivity of MRI for directly detecting neuronal electrical activities in rat brain slices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 1370-3	0.9	2
141	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> , 2012 , 47, 301-309	5.5	18
140	Pentacene thin film transistor with low threshold voltage and high mobility by inserting a thin metal phthalocyanines interlayer. <i>Science China Technological Sciences</i> , 2012 , 55, 417-420	3.5	4
139	Stretchable organic integrated circuits for large-area electronic skin surfaces. <i>MRS Bulletin</i> , 2012 , 37, 236-245	3.2	110
138	Sheet-Type Flexible Organic Active Matrix Amplifier System Using Pseudo-CMOS Circuits With Floating-Gate Structure. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 3434-3441	2.9	83
137	Simultaneous characterization of mechanical and electrical performances of ultraflexible and stretchable organic integrated circuits 2012 ,		1
136	Deposition-Pressure-Induced Optimization of Molecular Packing for High-Performance Organic Thin-Film Transistors Based on Copper Phthalocyanine. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4287-4292	3.8	16
135	Organic transistors with high thermal stability for medical applications. <i>Nature Communications</i> , 2012 , 3, 723	17.4	237
134	32.3: Invited Paper: Large-Area, Ultraflexible Organic AMLED Pixel Circuits Driven by Printed Organic Floating-Gate Transistors. <i>Digest of Technical Papers SID International Symposium</i> , 2012 , 43, 426-429	0.5	1
133	Flexible low-voltage organic thin-film transistors and circuits based on C10-DNTT. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4273-4277		92
132	Contact resistance and megahertz operation of aggressively scaled organic transistors. <i>Small</i> , 2012 , 8, 73-9	11	196
131	Ultrathin and lightweight organic solar cells with high flexibility. <i>Nature Communications</i> , 2012 , 3, 770	17.4	1234

130	Ambient Electronics. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 100001	1.4	14
129	Organic Pseudo-CMOS Circuits for Low-Voltage Large-Gain High-Speed Operation. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1448-1450	4.4	48
128	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> , 2011 , 46, 285-292	5.5	26
127	High performance foldable polymer thin film transistors with a side gate architecture. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18804		15
126	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> , 2011 , 42, 149-152	0.5	8
125	Human-friendly organic integrated circuits. <i>Materials Today</i> , 2011 , 14, 398-407	21.8	80
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