Benjamin C-K Tee

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

51 papers	15,947 citations	34 h-index	53 g-index
53 ext. papers	18,079 ext. citations	15.7 avg, IF	6.66 L-index

#	Paper	IF	Citations
51	Skin-like pressure and strain sensors based on transparent elastic films of carbon nanotubes. *Nature Nanotechnology*, **2011**, 6, 788-92	28.7	2451
50	Highly sensitive flexible pressure sensors with microstructured rubber dielectric layers. *Nature Materials*, **2010**, 9, 859-64	27	2186
49	25th anniversary article: The evolution of electronic skin (e-skin): a brief history, design considerations, and recent progress. *Advanced Materials*, **2013**, 25, 5997-6038	24	1622
48	Flexible polymer transistors with high pressure sensitivity for application in electronic skin and health monitoring. *Nature Communications*, **2013**, 4, 1859	17.4	1446
47	An electrically and mechanically self-healing composite with pressure- and flexion-sensitive properties for electronic skin applications. *Nature Nanotechnology*, **2012**, 7, 825-32	28.7	1094
46	Hierarchical nanostructured conducting polymer hydrogel with high electrochemical activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 9287-92	11.5	850
45	Solution coating of large-area organic semiconductor thin films with aligned single-crystalline domains. *Nature Materials*, **2013**, 12, 665-71	27	770
44	Stretchable organic solar cells. *Advanced Materials*, **2011**, 23, 1771-5	24	692
43	A skin-inspired organic digital mechanoreceptor. *Science*, **2015**, 350, 313-6	33.3	576
42	High-mobility field-effect transistors from large-area solution-grown aligned C60 single crystals. *Journal of the American Chemical Society*, **2012**, 134, 2760-5	16.4	427
41	Electronic Properties of Transparent Conductive Films of PEDOT:PSS on Stretchable Substrates. *Chemistry of Materials*, **2012**, 24, 373-382	9.6	422
40	Transparent, optical, pressure-sensitive artificial skin for large-area stretchable electronics. *Advanced Materials*, **2012**, 24, 3223-7	24	338
39	Continuous wireless pressure monitoring and mapping with ultra-small passive sensors for health monitoring and critical care. *Nature Communications*, **2014**, 5, 5028	17.4	320
38	Tunable Flexible Pressure Sensors using Microstructured Elastomer Geometries for Intuitive Electronics. *Advanced Functional Materials*, **2014**, 24, 5427-5434	15.6	317
37	Chemical and engineering approaches to enable organic field-effect transistors for electronic skin applications. *Accounts of Chemical Research*, **2012**, 45, 361-71	24.3	263
36	Self-healing electronic skins for aquatic environments. *Nature Electronics*, **2019**, 2, 75-82	28.4	240
35	Flow-enhanced solution printing of all-polymer solar cells. *Nature Communications*, **2015**, 6, 7955	17.4	191

34	Tuning the threshold voltage of carbon nanotube transistors by n-type molecular doping for robust and flexible complementary circuits. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 4776-81	11.5	157
33	Wireless body sensor networks based on metamaterial textiles. *Nature Electronics*, **2019**, 2, 243-251	28.4	148
32	Polymer electrophosphorescence devices with high power conversion efficiencies. *Applied Physics Letters*, **2004**, 84, 2476-2478	3.4	133
31	Self-Healing Electronic Materials for a Smart and Sustainable Future. *ACS Applied Materials & Interfaces*, **2018**, 10, 15331-15345	9.5	122
30	High-performance transistors and complementary inverters based on solution-grown aligned organic single-crystals. *Advanced Materials*, **2012**, 24, 2588-91	24	120
29	A neuro-inspired artificial peripheral nervous system for scalable electronic skins. *Science Robotics*, **2019**, 4,	18.6	115
28	A transparent, self-healing and high-□dielectric for low-field-emission stretchable optoelectronics. *Nature Materials*, **2020**, 19, 182-188	27	114
27	Controlled solution deposition and systematic study of charge-transport anisotropy in single crystal and single-crystal textured TIPS pentacene thin films. *Organic Electronics*, **2009**, 10, 696-703	3.5	97
26	Soft Electronically Functional Polymeric Composite Materials for a Flexible and Stretchable Digital Future. *Advanced Materials*, **2018**, 30, e1802560	24	88
25	Wireless battery-free body sensor networks using near-field-enabled clothing. *Nature Communications*, **2020**, 11, 444	17.4	85
24	Advancing the frontiers of silk fibroin protein-based materials for futuristic electronics and clinical wound-healing (Invited review). *Materials Science and Engineering C*, **2018**, 86, 151-172	8.3	70
23	Design and applications of stretchable and self-healable conductors for soft electronics. *Nano Convergence*, **2019**, 6, 25	9.2	51
22	Osmosis-Powered Hydrogel Microneedles for Microliters of Skin Interstitial Fluid Extraction within Minutes. *Advanced Healthcare Materials*, **2020**, 9, e1901683	10.1	48
21	Development of a unified framework for calculating molecular weight distribution in diffusion controlled free radical bulk homo-polymerization. *Polymer*, **2005**, 46, 539-552	3.9	46
20	Artificially innervated self-healing foams as synthetic piezo-impedance sensor skins. *Nature Communications*, **2020**, 11, 5747	17.4	43
19	Solution-grown aligned C60 single-crystals for field-effect transistors. *Journal of Materials Chemistry C*, **2014**, 2, 3617	7.1	42
18	Near-hysteresis-free soft tactile electronic skins for wearables and reliable machine learning. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 25352-25359	11.5	38
17	Progress and Roadmap for Intelligent Self-Healing Materials in Autonomous Robotics. *Advanced Materials*, **2021**, 33, e2002800	24	29

16	Super Tough and Self-Healable Poly(dimethylsiloxane) Elastomer via Hydrogen Bonding Association and Its Applications as Triboelectric Nanogenerators. *ACS Applied Materials & Interfaces*, **2020**, 12, 31975-31983	9.5	28
15	Shape-Controlled, Self-Wrapped Carbon Nanotube 3D Electronics. *Advanced Science*, **2015**, 2, 1500103	13.6	27
14	Bioinspired Prosthetic Interfaces. *Advanced Materials Technologies*, **2020**, 5, 1900856	6.8	21
13	Gigahertz Integrated Circuits Based on Complementary Black Phosphorus Transistors. *Advanced Electronic Materials*, **2018**, 4, 1800274	6.4	19
12	Fully transient stretchable fruit-based battery as safe and environmentally friendly power source for wearable electronics. *EcoMat*, **2021**, 3, e12073	9.4	17
11	A wireless and battery-free wound infection sensor based on DNA hydrogel. *Science Advances*, **2021** , 7, eabj1617	14.3	14
10	Highly conductive 3D metal-rubber composites for stretchable electronic applications. *APL Materials*, **2019**, 7, 031508	5.7	13
9	Augmented Reality Interfaces Using Virtual Customization of Microstructured Electronic Skin Sensor Sensitivity Performances. *Advanced Functional Materials*, **2021**, 31, 2008650	15.6	13
8	Environment-Resilient Graphene Vibrotactile Sensitive Sensors for Machine Intelligence **2020**, 2, 986-992		12
7	Micro-imprinted prism substrate for self-aligned short channel organic transistors on a flexible substrate. *Applied Physics Letters*, **2012**, 100, 043301	3.4	11
6	Scaling Metal-Elastomer Composites toward Stretchable Multi-Helical Conductive Paths for Robust Responsive Wearable Health Devices. *Advanced Healthcare Materials*, **2021**, 10, e2100221	10.1	4
5	Elastomer-Based Pressure and Strain Sensors **2012**, 325-353		3
4	An Atlas for Large-Area Electronic Skins: From Materials to Systems Design **2020**,		3
3	Sensorized Reconfigurable Soft Robotic Gripper System for Automated Food Handling. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-12	5.5	3
2	Switchable Wettability: Stretchable Organic Solar Cells (Adv. Mater. 15/2011). *Advanced Materials*, **2011**, 23, 1770-1770	24	2
1	Electronic Skins **2022**, 181-215		