

# Benjamin C-K Tee

## 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.

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	Electronic Skins <b>2022</b> , 181-215		
50	A wireless and battery-free wound infection sensor based on DNA hydrogel. <i>Science Advances</i> , <b>2021</b> , 7, eabj1617	14.3	14
49	Progress and Roadmap for Intelligent Self-Healing Materials in Autonomous Robotics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2002800	24	29
48	Fully transient stretchable fruit-based battery as safe and environmentally friendly power source for wearable electronics. <i>EcoMat</i> , <b>2021</b> , 3, e12073	9.4	17
47	Sensorized Reconfigurable Soft Robotic Gripper System for Automated Food Handling. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 1-12	5.5	3
46	Augmented Reality Interfaces Using Virtual Customization of Microstructured Electronic Skin Sensor Sensitivity Performances. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008650	15.6	13
45	Scaling Metal-Elastomer Composites toward Stretchable Multi-Helical Conductive Paths for Robust Responsive Wearable Health Devices. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100221	10.1	4
44	Super Tough and Self-Healable Poly(dimethylsiloxane) Elastomer via Hydrogen Bonding Association and Its Applications as Triboelectric Nanogenerators. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 31975-31983	9.5	28
43	Osmosis-Powered Hydrogel Microneedles for Microliters of Skin Interstitial Fluid Extraction within Minutes. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901683	10.1	48
42	An Atlas for Large-Area Electronic Skins: From Materials to Systems Design <b>2020</b> ,		3
41	Wireless battery-free body sensor networks using near-field-enabled clothing. <i>Nature Communications</i> , <b>2020</b> , 11, 444	17.4	85
40	A transparent, self-healing and high-dielectric for low-field-emission stretchable optoelectronics. <i>Nature Materials</i> , <b>2020</b> , 19, 182-188	27	114
39	Near-hysteresis-free soft tactile electronic skins for wearables and reliable machine learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 25352-25359	11.5	38
38	Environment-Resilient Graphene Vibrotactile Sensitive Sensors for Machine Intelligence <b>2020</b> , 2, 986-992		12
37	Artificially innervated self-healing foams as synthetic piezo-impedance sensor skins. <i>Nature Communications</i> , <b>2020</b> , 11, 5747	17.4	43
36	Bioinspired Prosthetic Interfaces. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900856	6.8	21
35	Wireless body sensor networks based on metamaterial textiles. <i>Nature Electronics</i> , <b>2019</b> , 2, 243-251	28.4	148

34	Highly conductive 3D metal-rubber composites for stretchable electronic applications. <i>APL Materials</i> , <b>2019</b> , 7, 031508	5.7	13
33	A neuro-inspired artificial peripheral nervous system for scalable electronic skins. <i>Science Robotics</i> , <b>2019</b> , 4,	18.6	115
32	Design and applications of stretchable and self-healable conductors for soft electronics. <i>Nano Convergence</i> , <b>2019</b> , 6, 25	9.2	51
31	Self-healing electronic skins for aquatic environments. <i>Nature Electronics</i> , <b>2019</b> , 2, 75-82	28.4	240
30	Self-Healing Electronic Materials for a Smart and Sustainable Future. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 15331-15345	9.5	122
29	Advancing the frontiers of silk fibroin protein-based materials for futuristic electronics and clinical wound-healing (Invited review). <i>Materials Science and Engineering C</i> , <b>2018</b> , 86, 151-172	8.3	70
28	Soft Electronically Functional Polymeric Composite Materials for a Flexible and Stretchable Digital Future. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802560	24	88
27	Gigahertz Integrated Circuits Based on Complementary Black Phosphorus Transistors. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800274	6.4	19
26	Flow-enhanced solution printing of all-polymer solar cells. <i>Nature Communications</i> , <b>2015</b> , 6, 7955	17.4	191
25	A skin-inspired organic digital mechanoreceptor. <i>Science</i> , <b>2015</b> , 350, 313-6	33.3	576
24	Shape-Controlled, Self-Wrapped Carbon Nanotube 3D Electronics. <i>Advanced Science</i> , <b>2015</b> , 2, 1500103	13.6	27
23	Tuning the threshold voltage of carbon nanotube transistors by n-type molecular doping for robust and flexible complementary circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 4776-81	11.5	157
22	Solution-grown aligned C60 single-crystals for field-effect transistors. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 3617	7.1	42
21	Continuous wireless pressure monitoring and mapping with ultra-small passive sensors for health monitoring and critical care. <i>Nature Communications</i> , <b>2014</b> , 5, 5028	17.4	320
20	Tunable Flexible Pressure Sensors using Microstructured Elastomer Geometries for Intuitive Electronics. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5427-5434	15.6	317
19	Solution coating of large-area organic semiconductor thin films with aligned single-crystalline domains. <i>Nature Materials</i> , <b>2013</b> , 12, 665-71	27	770
18	Flexible polymer transistors with high pressure sensitivity for application in electronic skin and health monitoring. <i>Nature Communications</i> , <b>2013</b> , 4, 1859	17.4	1446
17	25th anniversary article: The evolution of electronic skin (e-skin): a brief history, design considerations, and recent progress. <i>Advanced Materials</i> , <b>2013</b> , 25, 5997-6038	24	1622

16	An electrically and mechanically self-healing composite with pressure- and flexion-sensitive properties for electronic skin applications. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 825-32	28.7	1094
15	High-mobility field-effect transistors from large-area solution-grown aligned C60 single crystals. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2760-5	16.4	427
14	Elastomer-Based Pressure and Strain Sensors <b>2012</b> , 325-353		3
13	Electronic Properties of Transparent Conductive Films of PEDOT:PSS on Stretchable Substrates. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 373-382	9.6	422
12	High-performance transistors and complementary inverters based on solution-grown aligned organic single-crystals. <i>Advanced Materials</i> , <b>2012</b> , 24, 2588-91	24	120
11	Micro-imprinted prism substrate for self-aligned short channel organic transistors on a flexible substrate. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 043301	3.4	11
10	Hierarchical nanostructured conducting polymer hydrogel with high electrochemical activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 9287-92	11.5	850
9	Chemical and engineering approaches to enable organic field-effect transistors for electronic skin applications. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 361-71	24.3	263
8	Transparent, optical, pressure-sensitive artificial skin for large-area stretchable electronics. <i>Advanced Materials</i> , <b>2012</b> , 24, 3223-7	24	338
7	Skin-like pressure and strain sensors based on transparent elastic films of carbon nanotubes. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 788-92	28.7	2451
6	Stretchable organic solar cells. <i>Advanced Materials</i> , <b>2011</b> , 23, 1771-5	24	692
5	Switchable Wettability: Stretchable Organic Solar Cells (Adv. Mater. 15/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, 1770-1770	24	2
4	Highly sensitive flexible pressure sensors with microstructured rubber dielectric layers. <i>Nature Materials</i> , <b>2010</b> , 9, 859-64	27	2186
3	Controlled solution deposition and systematic study of charge-transport anisotropy in single crystal and single-crystal textured TIPS pentacene thin films. <i>Organic Electronics</i> , <b>2009</b> , 10, 696-703	3.5	97
2	Development of a unified framework for calculating molecular weight distribution in diffusion controlled free radical bulk homo-polymerization. <i>Polymer</i> , <b>2005</b> , 46, 539-552	3.9	46
1	Polymer electrophosphorescence devices with high power conversion efficiencies. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2476-2478	3.4	133