

# Jeffrey B-H Tok

## List of Publications by Citations

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53  
papers

9,823  
citations

37  
h-index

57  
g-index

57  
ext. papers

12,356  
ext. citations

21.7  
avg, IF

6.24  
L-index

#	Paper	IF	Citations
53	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
52	Skin electronics from scalable fabrication of an intrinsically stretchable transistor array. <i>Nature</i> , <b>2018</b> , 555, 83-88	50.4	1089
51	Intrinsically stretchable and healable semiconducting polymer for organic transistors. <i>Nature</i> , <b>2016</b> , 539, 411-415	50.4	779
50	Highly stretchable polymer semiconductor films through the nanoconfinement effect. <i>Science</i> , <b>2017</b> , 355, 59-64	33.3	651
49	A chameleon-inspired stretchable electronic skin with interactive colour changing controlled by tactile sensing. <i>Nature Communications</i> , <b>2015</b> , 6, 8011	17.4	567
48	Tough and Water-Insensitive Self-Healing Elastomer for Robust Electronic Skin. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706846	24	523
47	An integrated self-healable electronic skin system fabricated via dynamic reconstruction of a nanostructured conducting network. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 1057-1065	28.7	510
46	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 5280-5289	16.4	312
45	A flexible bimodal sensor array for simultaneous sensing of pressure and temperature. <i>Advanced Materials</i> , <b>2014</b> , 26, 796-804	24	312
44	Soft and elastic hydrogel-based microelectronics for localized low-voltage neuromodulation. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 58-68	19	284
43	Self-healing soft electronics. <i>Nature Electronics</i> , <b>2019</b> , 2, 144-150	28.4	269
42	A wireless body area sensor network based on stretchable passive tags. <i>Nature Electronics</i> , <b>2019</b> , 2, 361-368	28.4	258
41	Biocompatible and totally disintegrable semiconducting polymer for ultrathin and ultralightweight transient electronics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 5107-5112	11.5	255
40	Stretchable organic optoelectronic sensorimotor synapse. <i>Science Advances</i> , <b>2018</b> , 4, eaat7387	14.3	228
39	An Elastic Autonomous Self-Healing Capacitive Sensor Based on a Dynamic Dual Crosslinked Chemical System. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801435	24	185
38	Stretchable temperature-sensing circuits with strain suppression based on carbon nanotube transistors. <i>Nature Electronics</i> , <b>2018</b> , 1, 183-190	28.4	180
37	Ionically Conductive Self-Healing Binder for Low Cost Si Microparticles Anodes in Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703138	21.8	153

36	Artificial multimodal receptors based on ion relaxation dynamics. <i>Science</i> , <b>2020</b> , 370, 961-965	33.3	141
35	Stretchable self-healable semiconducting polymer film for active-matrix strain-sensing array. <i>Science Advances</i> , <b>2019</b> , 5, eaav3097	14.3	102
34	A Rapid and Facile Soft Contact Lamination Method: Evaluation of Polymer Semiconductors for Stretchable Transistors. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4544-4551	9.6	82
33	Morphing electronics enable neuromodulation in growing tissue. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 1031-1036	14.5	79
32	Effect of Nonconjugated Spacers on Mechanical Properties of Semiconducting Polymers for Stretchable Transistors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804222	15.6	75
31	Effect of Non-Chlorinated Mixed Solvents on Charge Transport and Morphology of Solution-Processed Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3524-3534	15.6	73
30	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. <i>Science</i> , <b>2020</b> , 367, 1372-1376	33.3	70
29	Effects of Molecular Structure and Packing Order on the Stretchability of Semicrystalline Conjugated Poly(Tetrathienoacene-diketopyrrolopyrrole) Polymers. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600311	6.4	66
28	An Ultrastretchable and Self-Healable Nanocomposite Conductor Enabled by Autonomously Percolative Electrical Pathways. <i>ACS Nano</i> , <b>2019</b> , 13, 6531-6539	16.7	66
27	Deformable Organic Nanowire Field-Effect Transistors. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704401	24	64
26	An Intrinsically Stretchable High-Performance Polymer Semiconductor with Low Crystallinity. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905340	15.6	63
25	Conjugated Carbon Cyclic Nanorings as Additives for Intrinsically Stretchable Semiconducting Polymers. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903912	24	57
24	Strain-insensitive intrinsically stretchable transistors and circuits. <i>Nature Electronics</i> , <b>2021</b> , 4, 143-150	28.4	56
23	Soft conductive micropillar electrode arrays for biologically relevant electrophysiological recording. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 11718-11723	11.5	49
22	A bioinspired stretchable membrane-based compliance sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 11314-11320	11.5	48
21	Fully stretchable active-matrix organic light-emitting electrochemical cell array. <i>Nature Communications</i> , <b>2020</b> , 11, 3362	17.4	47
20	Recent advances in flexible and stretchable electronics, sensors and power sources. <i>Science China Chemistry</i> , <b>2012</b> , 55, 718-725	7.9	45
19	Monolithic optical microlithography of high-density elastic circuits. <i>Science</i> , <b>2021</b> , 373, 88-94	33.3	41

18	Tuning the Mechanical Properties of a Polymer Semiconductor by Modulating Hydrogen Bonding Interactions. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5700-5714	9.6	37
17	High-frequency and intrinsically stretchable polymer diodes. <i>Nature</i> , <b>2021</b> , 600, 246-252	50.4	34
16	Characterization of Hydrogen Bonding Formation and Breaking in Semiconducting Polymers under Mechanical Strain. <i>Macromolecules</i> , <b>2019</b> , 52, 2476-2486	5.5	29
15	Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics.. <i>Science</i> , <b>2022</b> , 375, 1411-1417	33.3	29
14	A design strategy for high mobility stretchable polymer semiconductors. <i>Nature Communications</i> , <b>2021</b> , 12, 3572	17.4	27
13	Modular and Reconfigurable Stretchable Electronic Systems. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800417	6.8	27
12	High-brightness all-polymer stretchable LED with charge-trapping dilution.. <i>Nature</i> , <b>2022</b> , 603, 624-630	50.4	24
11	Tuning the Self-Healing Response of Poly(dimethylsiloxane)-Based Elastomers. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 4127-4139	4.3	21
10	F4-TCNQ as an Additive to Impart Stretchable Semiconductors with High Mobility and Stability. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000251	6.4	18
9	A tissue-like neurotransmitter sensor for the brain and gut. <i>Nature</i> , <b>2022</b> , 606, 94-101	50.4	17
8	A Design Strategy for Intrinsically Stretchable High-Performance Polymer Semiconductors: Incorporating Conjugated Rigid Fused-Rings with Bulky Side Groups. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 11679-11689	16.4	16
7	A molecular design approach towards elastic and multifunctional polymer electronics. <i>Nature Communications</i> , <b>2021</b> , 12, 5701	17.4	14
6	Tuning Conjugated Polymer Chain Packing for Stretchable Semiconductors. <i>Advanced Materials</i> , <b>2021</b> , e2104747	24	10
5	Enhanced Charge Transport and Stability Conferred by Iron(III)-Coordination in a Conjugated Polymer Thin-Film Transistors. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800239	6.4	9
4	Densely Packed and Highly Ordered Carbon Flower Particles for High Volumetric Performance. <i>Small Science</i> , <b>2021</b> , 1, 2000067		8
3	Reprocessable and Recyclable Polymer Network Electrolytes via Incorporation of Dynamic Covalent Bonds. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 2393-2399	9.6	7
2	Topological supramolecular network enabled highly conductive and stretchable organic bioelectronics		1
1	Densely Packed and Highly Ordered Carbon Flower Particles for High Volumetric Performance. <i>Small Science</i> , <b>2021</b> , 1, 2170018		

