Jeffrey B-H Tok

List of Publications by Year in Descending Order

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	Reprocessable and Recyclable Polymer Network Electrolytes via Incorporation of Dynamic Covalent Bonds. *Chemistry of Materials*, **2022**, 34, 2393-2399	9.6	7
52	Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics.. *Science*, **2022**, 375, 1411-1417	33.3	29
51	High-brightness all-polymer stretchable LED with charge-trapping dilution.. *Nature*, **2022**, 603, 624-630	50.4	24
50	A tissue-like neurotransmitter sensor for the brain and gut. *Nature*, **2022**, 606, 94-101	50.4	17
49	High-frequency and intrinsically stretchable polymer diodes. *Nature*, **2021**, 600, 246-252	50.4	34
48	Densely Packed and Highly Ordered Carbon Flower Particles for High Volumetric Performance. *Small Science*, **2021**, 1, 2000067		8
47	A design strategy for high mobility stretchable polymer semiconductors. *Nature Communications*, **2021**, 12, 3572	17.4	27
46	A Design Strategy for Intrinsically Stretchable High-Performance Polymer Semiconductors: Incorporating Conjugated Rigid Fused-Rings with Bulky Side Groups. *Journal of the American Chemical Society*, **2021**, 143, 11679-11689	16.4	16
45	Monolithic optical microlithography of high-density elastic circuits. *Science*, **2021**, 373, 88-94	33.3	41
44	Densely Packed and Highly Ordered Carbon Flower Particles for High Volumetric Performance. *Small Science*, **2021**, 1, 2170018		
43	Strain-insensitive intrinsically stretchable transistors and circuits. *Nature Electronics*, **2021**, 4, 143-150	28.4	56
42	Tuning Conjugated Polymer Chain Packing for Stretchable Semiconductors. *Advanced Materials*, **2021**, e2104747	24	10
41	A molecular design approach towards elastic and multifunctional polymer electronics. *Nature Communications*, **2021**, 12, 5701	17.4	14
40	F4-TCNQ as an Additive to Impart Stretchable Semiconductors with High Mobility and Stability. *Advanced Electronic Materials*, **2020**, 6, 2000251	6.4	18
39	A bioinspired stretchable membrane-based compliance sensor. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 11314-11320	11.5	48
38	Tuning the Mechanical Properties of a Polymer Semiconductor by Modulating Hydrogen Bonding Interactions. *Chemistry of Materials*, **2020**, 32, 5700-5714	9.6	37
37	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. *Science*, **2020**, 367, 1372-1376	33.3	70

36	Fully stretchable active-matrix organic light-emitting electrochemical cell array. *Nature Communications*, **2020**, 11, 3362	17.4	47
35	Artificial multimodal receptors based on ion relaxation dynamics. *Science*, **2020**, 370, 961-965	33.3	141
34	Tuning the Self-Healing Response of Poly(dimethylsiloxane)-Based Elastomers. *ACS Applied Polymer Materials*, **2020**, 2, 4127-4139	4.3	21
33	Morphing electronics enable neuromodulation in growing tissue. *Nature Biotechnology*, **2020**, 38, 1031-1036	44.9	79
32	An Ultrastretchable and Self-Healable Nanocomposite Conductor Enabled by Autonomously Percolative Electrical Pathways. *ACS Nano*, **2019**, 13, 6531-6539	16.7	66
31	Characterization of Hydrogen Bonding Formation and Breaking in Semiconducting Polymers under Mechanical Strain. *Macromolecules*, **2019**, 52, 2476-2486	5.5	29
30	Self-healing soft electronics. *Nature Electronics*, **2019**, 2, 144-150	28.4	269
29	A wireless body area sensor network based on stretchable passive tags. *Nature Electronics*, **2019**, 2, 361-368	28.4	258
28	Conjugated Carbon Cyclic Nanorings as Additives for Intrinsically Stretchable Semiconducting Polymers. *Advanced Materials*, **2019**, 31, e1903912	24	57
27	Stretchable self-healable semiconducting polymer film for active-matrix strain-sensing array. *Science Advances*, **2019**, 5, eaav3097	14.3	102
26	An Intrinsically Stretchable High-Performance Polymer Semiconductor with Low Crystallinity. *Advanced Functional Materials*, **2019**, 29, 1905340	15.6	63
25	Modular and Reconfigurable Stretchable Electronic Systems. *Advanced Materials Technologies*, **2019**, 4, 1800417	6.8	27
24	Soft and elastic hydrogel-based microelectronics for localized low-voltage neuromodulation. *Nature Biomedical Engineering*, **2019**, 3, 58-68	19	284
23	Stretchable temperature-sensing circuits with strain suppression based on carbon nanotube transistors. *Nature Electronics*, **2018**, 1, 183-190	28.4	180
22	Skin electronics from scalable fabrication of an intrinsically stretchable transistor array. *Nature*, **2018**, 555, 83-88	50.4	1089
21	Tough and Water-Insensitive Self-Healing Elastomer for Robust Electronic Skin. *Advanced Materials*, **2018**, 30, e1706846	24	523
20	Ionically Conductive Self-Healing Binder for Low Cost Si Microparticles Anodes in Li-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1703138	21.8	153
19	Deformable Organic Nanowire Field-Effect Transistors. *Advanced Materials*, **2018**, 30, 1704401	24	64

18	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. *Journal of the American Chemical Society*, **2018**, 140, 5280-5289	16.4	312
17	An integrated self-healable electronic skin system fabricated via dynamic reconstruction of a nanostructured conducting network. *Nature Nanotechnology*, **2018**, 13, 1057-1065	28.7	510
16	Stretchable organic optoelectronic sensorimotor synapse. *Science Advances*, **2018**, 4, eaat7387	14.3	228
15	Soft conductive micropillar electrode arrays for biologically relevant electrophysiological recording. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 11718-11723	11.5	49
14	Effect of Nonconjugated Spacers on Mechanical Properties of Semiconducting Polymers for Stretchable Transistors. *Advanced Functional Materials*, **2018**, 28, 1804222	15.6	75
13	An Elastic Autonomous Self-Healing Capacitive Sensor Based on a Dynamic Dual Crosslinked Chemical System. *Advanced Materials*, **2018**, 30, e1801435	24	185
12	Enhanced Charge Transport and Stability Conferred by Iron(III)-Coordination in a Conjugated Polymer Thin-Film Transistors. *Advanced Electronic Materials*, **2018**, 4, 1800239	6.4	9
11	Highly stretchable polymer semiconductor films through the nanoconfinement effect. *Science*, **2017**, 355, 59-64	33.3	651
10	Biocompatible and totally disintegrable semiconducting polymer for ultrathin and ultralightweight transient electronics. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 5107-5112	11.5	255
9	Effects of Molecular Structure and Packing Order on the Stretchability of Semicrystalline Conjugated Poly(Tetrathienoacene-diketopyrrolopyrrole) Polymers. *Advanced Electronic Materials*, **2017**, 3, 1600311	6.4	66
8	Intrinsically stretchable and healable semiconducting polymer for organic transistors. *Nature*, **2016**, 539, 411-415	50.4	779
7	A chameleon-inspired stretchable electronic skin with interactive colour changing controlled by tactile sensing. *Nature Communications*, **2015**, 6, 8011	17.4	567
6	Effect of Non-Chlorinated Mixed Solvents on Charge Transport and Morphology of Solution-Processed Polymer Field-Effect Transistors. *Advanced Functional Materials*, **2014**, 24, 3524-3534	15.6	73
5	A flexible bimodal sensor array for simultaneous sensing of pressure and temperature. *Advanced Materials*, **2014**, 26, 796-804	24	312
4	A Rapid and Facile Soft Contact Lamination Method: Evaluation of Polymer Semiconductors for Stretchable Transistors. *Chemistry of Materials*, **2014**, 26, 4544-4551	9.6	82
3	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
2	Recent advances in flexible and stretchable electronics, sensors and power sources. *Science China Chemistry*, **2012**, 55, 718-725	7.9	45
1	Topological supramolecular network enabled highly conductive and stretchable organic bioelectronics		1