Alex L Chortos

List of Publications by Year
in descending order

35 papers	14,923 citations	172207 29 h-index	360668 35 g-index
36 all docs	36 docs citations	36 times ranked	15229 citing authors

#	Article	IF	Citations
1	25th Anniversary Article: The Evolution of Electronic Skin (Eâ€Skin): A Brief History, Design Considerations, and Recent Progress. Advanced Materials, 2013, 25, 5997-6038.	11.1	2,001
2	Pursuing prosthetic electronic skin. Nature Materials, 2016, 15, 937-950.	13.3	1,821
3	An ultra-sensitive resistive pressure sensor based on hollow-sphere microstructure induced elasticity in conducting polymer film. Nature Communications, 2014, 5, 3002.	5.8	1,225
4	Intrinsically stretchable and healable semiconducting polymer for organic transistors. Nature, 2016, 539, 411-415.	13.7	1,030
5	A bioinspired flexible organic artificial afferent nerve. Science, 2018, 360, 998-1003.	6.0	982
6	A chameleon-inspired stretchable electronic skin with interactive colour changing controlled by tactile sensing. Nature Communications, 2015, 6, 8011.	5.8	749
7	A skin-inspired organic digital mechanoreceptor. Science, 2015, 350, 313-316.	6.0	708
8	Highly Skinâ€Conformal Microhairy Sensor for Pulse Signal Amplification. Advanced Materials, 2015, 27, 634-640.	11.1	621
9	A hierarchically patterned, bioinspired e-skin able to detect the direction of applied pressure for robotics. Science Robotics, 2018, 3, .	9.9	568
10	A Sensitive and Biodegradable Pressure Sensor Array for Cardiovascular Monitoring. Advanced Materials, 2015, 27, 6954-6961.	11.1	544
11	Hybrid 3D Printing of Soft Electronics. Advanced Materials, 2017, 29, 1703817.	11.1	501
12	Skin-inspired electronic devices. Materials Today, 2014, 17, 321-331.	8.3	487
13	A stretchable and biodegradable strain and pressure sensor for orthopaedic application. Nature Electronics, 2018, 1, 314-321.	13.1	469
14	Stretchable Self-Healing Polymeric Dielectrics Cross-Linked Through Metalâ€"Ligand Coordination. Journal of the American Chemical Society, 2016, 138, 6020-6027.	6.6	453
15	Tunable Flexible Pressure Sensors using Microstructured Elastomer Geometries for Intuitive Electronics. Advanced Functional Materials, 2014, 24, 5427-5434.	7.8	424
16	Continuous wireless pressure monitoring and mapping with ultra-small passive sensors for health monitoring and critical care. Nature Communications, 2014, 5, 5028.	5.8	418
17	A Threeâ€Dimensionally Interconnected Carbon Nanotubeâ€"Conducting Polymer Hydrogel Network for Highâ€Performance Flexible Battery Electrodes. Advanced Energy Materials, 2014, 4, 1400207.	10.2	280
18	Stretchable temperature-sensing circuits with strain suppression based on carbon nanotube transistors. Nature Electronics, 2018, 1, 183-190.	13.1	263

#	Article	IF	Citations
19	Mechanically Durable and Highly Stretchable Transistors Employing Carbon Nanotube Semiconductor and Electrodes. Advanced Materials, 2016, 28, 4441-4448.	11.1	234
20	Ultratransparent and stretchable graphene electrodes. Science Advances, 2017, 3, e1700159.	4.7	231
21	Highly Stretchable Transistors Using a Microcracked Organic Semiconductor. Advanced Materials, 2014, 26, 4253-4259.	11.1	200
22	3D Printing of Interdigitated Dielectric Elastomer Actuators. Advanced Functional Materials, 2020, 30, 1907375.	7.8	132
23	Microstructural origin of resistanceâ€"strain hysteresis in carbon nanotube thin film conductors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1986-1991.	3.3	107
24	A Rapid and Facile Soft Contact Lamination Method: Evaluation of Polymer Semiconductors for Stretchable Transistors. Chemistry of Materials, 2014, 26, 4544-4551.	3.2	101
25	Capacitance Characterization of Elastomeric Dielectrics for Applications in Intrinsically Stretchable Thin Film Transistors. Advanced Functional Materials, 2016, 26, 4680-4686.	7.8	77
26	Control Strategies for Soft Robot Systems. Advanced Intelligent Systems, 2022, 4, .	3.3	64
27	Printing Reconfigurable Bundles of Dielectric Elastomer Fibers. Advanced Functional Materials, 2021, 31, 2010643.	7.8	63
28	Investigating Limiting Factors in Stretchable All-Carbon Transistors for Reliable Stretchable Electronics. ACS Nano, 2017, 11, 7925-7937.	7.3	52
29	Universal Selective Dispersion of Semiconducting Carbon Nanotubes from Commercial Sources Using a Supramolecular Polymer. ACS Nano, 2017, 11, 5660-5669.	7.3	47
30	Voltage-controlled morphing of dielectric elastomer circular sheets into conical surfaces. Extreme Mechanics Letters, 2019, 30, 100504.	2.0	30
31	Photoswitchable Covalent Adaptive Networks Based on Thiolâ€"Ene Elastomers. ACS Applied Materials & Interfaces, 2022, 14, 4552-4561.	4.0	15
32	Pressure Sensors: A Sensitive and Biodegradable Pressure Sensor Array for Cardiovascular Monitoring (Adv. Mater. 43/2015). Advanced Materials, 2015, 27, 6953-6953.	11.1	11
33	Extrusion <scp>3D</scp> printing of conjugated polymers. Journal of Polymer Science, 2022, 60, 486-503.	2.0	6
34	Fully biodegradable pressure sensor, viscoelastic behavior of PGS dielectric elastomer upon degradation. , 2015, , .		4
35	Design of Fully Controllable and Continuous Programmable Surface Based on Machine Learning. IEEE Robotics and Automation Letters, 2022, 7, 549-556.	3.3	3