Canan Dagdeviren

List of Publications by Year
in descending order

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42 papers	6,355 citations	279487 23 h-index	315357 38 g-index
42 all docs	42 docs citations	42 times ranked	8825 citing authors

#	Article	IF	Citations
1	Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. Nature Communications, 2013, 4, 1543.	5.8	1,169
2	High performance piezoelectric devices based on aligned arrays of nanofibers of poly(vinylidenefluoride-co-trifluoroethylene). Nature Communications, 2013, 4, 1633.	5.8	1,001
3	Conformable amplified lead zirconate titanate sensors with enhanced piezoelectric response for cutaneous pressure monitoring. Nature Communications, 2014, 5, 4496.	5.8	757
4	Conformal piezoelectric energy harvesting and storage from motions of the heart, lung, and diaphragm. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1927-1932.	3.3	720
5	Recent progress in flexible and stretchable piezoelectric devices for mechanical energy harvesting, sensing and actuation. Extreme Mechanics Letters, 2016, 9, 269-281.	2.0	388
6	Conformal piezoelectric systems for clinical and experimental characterization of soft tissue biomechanics. Nature Materials, 2015, 14, 728-736.	13.3	387
7	Transient, Biocompatible Electronics and Energy Harvesters Based on ZnO. Small, 2013, 9, 3398-3404.	5.2	342
8	Energy Harvesting from the Animal/Human Body for Self-Powered Electronics. Annual Review of Biomedical Engineering, 2017, 19, 85-108.	5.7	285
9	Stretchable Ferroelectric Nanoribbons with Wavy Configurations on Elastomeric Substrates. ACS Nano, 2011, 5, 3326-3332.	7.3	188
10	Recent Progress in Electrochemical pH-Sensing Materials and Configurations for Biomedical Applications. Chemical Reviews, 2019, 119, 5248-5297.	23.0	161
11	Flexible piezoelectric devices for gastrointestinal motility sensing. Nature Biomedical Engineering, 2017, 1, 807-817.	11.6	127
12	A tailored, electronic textile conformable suit for large-scale spatiotemporal physiological sensing in vivo. Npj Flexible Electronics, 2020, 4, .	5.1	102
13	Cooperativity in the Enhanced Piezoelectric Response of Polymer Nanowires. Advanced Materials, 2014, 26, 7574-7580.	11.1	81
14	The Future of Neuroimplantable Devices: A Materials Science and Regulatory Perspective. Advanced Materials, 2020, 32, e1901482.	11.1	74
15	Miniaturized neural system for chronic, local intracerebral drug delivery. Science Translational Medicine, 2018, 10, .	5.8	71
16	Measured Output Voltages of Piezoelectric Devices Depend on the Resistance of Voltmeter. Advanced Functional Materials, 2015, 25, 5320-5325.	7.8	56
17	Decoding of facial strains via conformable piezoelectric interfaces. Nature Biomedical Engineering, 2020, 4, 954-972.	11.6	54
18	Splitting of neutral mechanical plane of conformal, multilayer piezoelectric mechanical energy harvester. Applied Physics Letters, 2015, 107, .	1.5	45

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19	Thin Film Receiver Materials for Deterministic Assembly by Transfer Printing. Chemistry of Materials, 2014, 26, 3502-3507.	3.2	35
20	Catheter-Based Systems With Integrated Stretchable Sensors and Conductors in Cardiac Electrophysiology. Proceedings of the IEEE, 2015, 103, 682-689.	16.4	33
21	Processing Conditions and Aging Effect on the Morphology of PZT Electrospun Nanofibers, and Dielectric Properties of the Resulting 3â€“3 PZT/Polymer Composite. Journal of the American Ceramic Society, 2009, 92, 2566-2570.	1.9	31
22	Electronic Textile Sensors for Decoding Vital Body Signals: Stateâ€ofâ€theâ€Art Review on Characterizations and Recommendations. Advanced Intelligent Systems, 2022, 4, .	3.3	31
23	Dielectric behavior characterization of a fibrousâ€ZnO/PVDF nanocomposite. Polymer Composites, 2010, 31, 1003-1010.	2.3	24
24	Towards personalized medicine: the evolution of imperceptible health-care technologies. Foresight, 2018, 20, 589-601.	1.2	23
25	Shear Piezoelectricity in Poly(vinylidenefluorideâ€coâ€trifluoroethylene): Full Piezotensor Coefficients by Molecular Modeling, Biaxial Transverse Response, and Use in Suspended Energyâ€Harvesting Nanostructures. Advanced Materials, 2016, 28, 7633-7639.	11.1	22
26	The future of bionic dynamos. Science, 2016, 354, 1109-1109.	6.0	21
27	An Analytic Model for Skin Modulus Measurement Via Conformal Piezoelectric Systems. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	1.1	18
28	Focal, remote-controlled, chronic chemical modulation of brain microstructures. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7254-7259.	3.3	18
29	Active Polymeric Composite Membranes for Localized Actuation and Sensing in Microtransfer Printing. Journal of Microelectromechanical Systems, 2015, 24, 1016-1028.	1.7	16
30	Computational models for the determination of depth-dependent mechanical properties of skin with a soft, flexible measurement device. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160225.	1.0	16
31	The universal and easy-to-use standard of voltage measurement for quantifying the performance of piezoelectric devices. Extreme Mechanics Letters, 2017, 15, 10-16.	2.0	15
32	On-Body Piezoelectric Energy Harvesters through Innovative Designs and Conformable Structures. ACS Biomaterials Science and Engineering, 2023, 9, 2070-2086.	2.6	12
33	A Protocol to Characterize pH Sensing Materials and Systems. Small Methods, 2019, 3, 1800265.	4.6	8
34	Experimentally verified finite element modeling and analysis of a conformable piezoelectric sensor. Smart Materials and Structures, 2021, 30, 085017.	1.8	8
35	Ubiquitous conformable systems for imperceptible computing. Foresight, 2022, 24, 75-98.	1.2	7
36	PerForm. , 2018, , .		4

#	Article	IF	Citations
37	Research Resiliency through Lean Labs. Advanced Intelligent Systems, 2020, 2, 2000074.	3.3	3
38	Pb(Zr,Ti)O3 Nanofibers Produced by Electrospinning Process. Materials Research Society Symposia Proceedings, 2008, 1129, 1.	0.1	1
39	Simultaneous recording and marking of brain microstructures. Journal of Neural Engineering, 2020, 17, 044001.	1.8	1
40	Polymer Nanowires: Cooperativity in the Enhanced Piezoelectric Response of Polymer Nanowires (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10	11.1	0
41	Energy Harvesting: Measured Output Voltages of Piezoelectric Devices Depend on the Resistance of Voltmeter (Adv. Funct. Mater. 33/2015). Advanced Functional Materials, 2015, 25, 5404-5404.	7.8	0
42	A new model based on the in-plane deformation for the conformal piezoelectric systems for characterization of soft tissue modulus. Extreme Mechanics Letters, 2022, 55, 101801.	2.0	0