Canan Dagdeviren

List of Publications by Year in Descending Order

41 papers	4,908 citations	22 h-index	42 g-index
42 ext. papers	5,623 ext. citations	13 avg, IF	5.37 L-index

#	Paper	IF	Citations
41	On-Body Piezoelectric Energy Harvesters through Innovative Designs and Conformable Structures. *ACS Biomaterials Science and Engineering*, **2021**,	5.5	3
40	Experimentally verified finite element modeling and analysis of a conformable piezoelectric sensor. *Smart Materials and Structures*, **2021**, 30, 085017	3.4	1
39	Ubiquitous conformable systems for imperceptible computing. *Foresight*, **2021**, ahead-of-print,	2.1	2
38	Research Resiliency through Lean Labs. *Advanced Intelligent Systems*, **2020**, 2, 2000074	6	1
37	Simultaneous recording and marking of brain microstructures. *Journal of Neural Engineering*, **2020**, 17, 044001	5	0
36	Decoding of facial strains via conformable piezoelectric interfaces. *Nature Biomedical Engineering*, **2020**, 4, 954-972	19	24
35	The Future of Neuroimplantable Devices: A Materials Science and Regulatory Perspective. *Advanced Materials*, **2020**, 32, e1901482	24	39
34	A tailored, electronic textile conformable suit for large-scale spatiotemporal physiological sensing in vivo. *Npj Flexible Electronics*, **2020**, 4,	10.7	39
33	Recent Progress in Electrochemical pH-Sensing Materials and Configurations for Biomedical Applications. *Chemical Reviews*, **2019**, 119, 5248-5297	68.1	86
32	A Protocol to Characterize pH Sensing Materials and Systems. *Small Methods*, **2019**, 3, 1800265	12.8	5
31	Miniaturized neural system for chronic, local intracerebral drug delivery. *Science Translational Medicine*, **2018**, 10,	17.5	46
30	Towards personalized medicine: the evolution of imperceptible health-care technologies. *Foresight*, **2018**, 20, 589-601	2.1	15
29	PerForm **2018**,		1
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	11.5	9
27	Energy Harvesting from the Animal/Human Body for Self-Powered Electronics. *Annual Review of Biomedical Engineering*, **2017**, 19, 85-108	12	227
26	The universal and easy-to-use standard of voltage measurement for quantifying the performance of piezoelectric devices. *Extreme Mechanics Letters*, **2017**, 15, 10-16	3.9	11
25	Flexible piezoelectric devices for gastrointestinal motility sensing. *Nature Biomedical Engineering*, **2017**, 1, 807-817	19	81

24	Shear Piezoelectricity in Poly(vinylidenefluoride-co-trifluoroethylene): Full Piezotensor Coefficients by Molecular Modeling, Biaxial Transverse Response, and Use in Suspended Energy-Harvesting Nanostructures. *Advanced Materials*, **2016**, 28, 7633-9	24	19
23	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	2.4	13
22	Recent progress in flexible and stretchable piezoelectric devices for mechanical energy harvesting, sensing and actuation. *Extreme Mechanics Letters*, **2016**, 9, 269-281	3.9	281
21	The future of bionic dynamos. *Science*, **2016**, 354, 1109	33.3	16
20	. *Journal of Microelectromechanical Systems*, **2015**, 24, 1016-1028	2.5	13
19	Splitting of neutral mechanical plane of conformal, multilayer piezoelectric mechanical energy harvester. *Applied Physics Letters*, **2015**, 107, 041905	3.4	31
18	Measured Output Voltages of Piezoelectric Devices Depend on the Resistance of Voltmeter. *Advanced Functional Materials*, **2015**, 25, 5320-5325	15.6	41
17	Conformal piezoelectric systems for clinical and experimental characterization of soft tissue biomechanics. *Nature Materials*, **2015**, 14, 728-36	27	310
16	Catheter-Based Systems With Integrated Stretchable Sensors and Conductors in Cardiac Electrophysiology. *Proceedings of the IEEE*, **2015**, 103, 682-689	14.3	28
15	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	15.6	
14	An Analytic Model for Skin Modulus Measurement Via Conformal Piezoelectric Systems. *Journal of Applied Mechanics, Transactions ASME*, **2015**, 82,	2.7	17
13	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, 1927-32	11.5	584
12	Conformable amplified lead zirconate titanate sensors with enhanced piezoelectric response for cutaneous pressure monitoring. *Nature Communications*, **2014**, 5, 4496	17.4	571
11	Thin Film Receiver Materials for Deterministic Assembly by Transfer Printing. *Chemistry of Materials* , **2014**, 26, 3502-3507	9.6	32
10	Polymer Nanowires: Cooperativity in the Enhanced Piezoelectric Response of Polymer Nanowires (Adv. Mater. 45/2014). *Advanced Materials*, **2014**, 26, 7573-7573	24	
9	Cooperativity in the enhanced piezoelectric response of polymer nanowires. *Advanced Materials*, **2014**, 26, 7574-80	24	68
8	Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. *Nature Communications*, **2013**, 4, 1543	17.4	978
7	High performance piezoelectric devices based on aligned arrays of nanofibers of poly(vinylidenefluoride-co-trifluoroethylene). *Nature Communications*, **2013**, 4, 1633	17.4	821

6	Transient, biocompatible electronics and energy harvesters based on ZnO. *Small*, **2013**, 9, 3398-404	11	280
5	Stretchable ferroelectric nanoribbons with wavy configurations on elastomeric substrates. *ACS Nano*, **2011**, 5, 3326-32	16.7	162
4	Dielectric behavior characterization of a fibrous-ZnO/PVDF nanocomposite. *Polymer Composites*, **2010**, 31, 1003-1010	3	22
3	Processing Conditions and Aging Effect on the Morphology of PZT Electrospun Nanofibers, and Dielectric Properties of the Resulting 3□ PZT/Polymer Composite. *Journal of the American Ceramic Society*, **2009**, 92, 2566-2570	3.8	28
2	Pb(Zr,Ti)O3 nanofibers produced by electrospinning process. *Materials Research Society Symposia Proceedings*, **2008**, 1129, 1		0
1	Electronic Textile Sensors for Decoding Vital Body Signals: State-of-the-Art Review on Characterizations and Recommendations. *Advanced Intelligent Systems*,2100223	6	3