

Canan Dagdeviren

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

4,908
citations

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h-index

42
g-index

42
ext. papers

5,623
ext. citations

13
avg, IF

5.37
L-index

#	Paper	IF	Citations
41	Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. <i>Nature Communications</i> , 2013 , 4, 1543	17.4	978
40	High performance piezoelectric devices based on aligned arrays of nanofibers of poly(vinylidene fluoride-co-trifluoroethylene). <i>Nature Communications</i> , 2013 , 4, 1633	17.4	821
39	Conformal piezoelectric energy harvesting and storage from motions of the heart, lung, and diaphragm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1927-32	11.5	584
38	Conformable amplified lead zirconate titanate sensors with enhanced piezoelectric response for cutaneous pressure monitoring. <i>Nature Communications</i> , 2014 , 5, 4496	17.4	571
37	Conformal piezoelectric systems for clinical and experimental characterization of soft tissue biomechanics. <i>Nature Materials</i> , 2015 , 14, 728-36	27	310
36	Recent progress in flexible and stretchable piezoelectric devices for mechanical energy harvesting, sensing and actuation. <i>Extreme Mechanics Letters</i> , 2016 , 9, 269-281	3.9	281
35	Transient, biocompatible electronics and energy harvesters based on ZnO. <i>Small</i> , 2013 , 9, 3398-404	11	280
34	Energy Harvesting from the Animal/Human Body for Self-Powered Electronics. <i>Annual Review of Biomedical Engineering</i> , 2017 , 19, 85-108	12	227
33	Stretchable ferroelectric nanoribbons with wavy configurations on elastomeric substrates. <i>ACS Nano</i> , 2011 , 5, 3326-32	16.7	162
32	Recent Progress in Electrochemical pH-Sensing Materials and Configurations for Biomedical Applications. <i>Chemical Reviews</i> , 2019 , 119, 5248-5297	68.1	86
31	Flexible piezoelectric devices for gastrointestinal motility sensing. <i>Nature Biomedical Engineering</i> , 2017 , 1, 807-817	19	81
30	Cooperativity in the enhanced piezoelectric response of polymer nanowires. <i>Advanced Materials</i> , 2014 , 26, 7574-80	24	68
29	Miniaturized neural system for chronic, local intracerebral drug delivery. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	46
28	Measured Output Voltages of Piezoelectric Devices Depend on the Resistance of Voltmeter. <i>Advanced Functional Materials</i> , 2015 , 25, 5320-5325	15.6	41
27	The Future of Neuroimplantable Devices: A Materials Science and Regulatory Perspective. <i>Advanced Materials</i> , 2020 , 32, e1901482	24	39
26	A tailored, electronic textile conformable suit for large-scale spatiotemporal physiological sensing in vivo. <i>Npj Flexible Electronics</i> , 2020 , 4,	10.7	39
25	Thin Film Receiver Materials for Deterministic Assembly by Transfer Printing. <i>Chemistry of Materials</i> , 2014 , 26, 3502-3507	9.6	32

24	Splitting of neutral mechanical plane of conformal, multilayer piezoelectric mechanical energy harvester. <i>Applied Physics Letters</i> , 2015 , 107, 041905	3.4	31
23	Catheter-Based Systems With Integrated Stretchable Sensors and Conductors in Cardiac Electrophysiology. <i>Proceedings of the IEEE</i> , 2015 , 103, 682-689	14.3	28
22	Processing Conditions and Aging Effect on the Morphology of PZT Electrospun Nanofibers, and Dielectric Properties of the Resulting 3B PZT/Polymer Composite. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2566-2570	3.8	28
21	Decoding of facial strains via conformable piezoelectric interfaces. <i>Nature Biomedical Engineering</i> , 2020 , 4, 954-972	19	24
20	Dielectric behavior characterization of a fibrous-ZnO/PVDF nanocomposite. <i>Polymer Composites</i> , 2010 , 31, 1003-1010	3	22
19	Shear Piezoelectricity in Poly(vinylidene fluoride-co-trifluoroethylene): Full Piezotensor Coefficients by Molecular Modeling, Biaxial Transverse Response, and Use in Suspended Energy-Harvesting Nanostructures. <i>Advanced Materials</i> , 2016 , 28, 7633-9	24	19
18	An Analytic Model for Skin Modulus Measurement Via Conformal Piezoelectric Systems. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015 , 82,	2.7	17
17	The future of bionic dynamos. <i>Science</i> , 2016 , 354, 1109	33.3	16
16	Towards personalized medicine: the evolution of imperceptible health-care technologies. <i>Foresight</i> , 2018 , 20, 589-601	2.1	15
15	. <i>Journal of Microelectromechanical Systems</i> , 2015 , 24, 1016-1028	2.5	13
14	Computational models for the determination of depth-dependent mechanical properties of skin with a soft, flexible measurement device. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160225	2.4	13
13	The universal and easy-to-use standard of voltage measurement for quantifying the performance of piezoelectric devices. <i>Extreme Mechanics Letters</i> , 2017 , 15, 10-16	3.9	11
12	Focal, remote-controlled, chronic chemical modulation of brain microstructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7254-7259	11.5	9
11	A Protocol to Characterize pH Sensing Materials and Systems. <i>Small Methods</i> , 2019 , 3, 1800265	12.8	5
10	Electronic Textile Sensors for Decoding Vital Body Signals: State-of-the-Art Review on Characterizations and Recommendations. <i>Advanced Intelligent Systems</i> , 2100223	6	3
9	On-Body Piezoelectric Energy Harvesters through Innovative Designs and Conformable Structures. <i>ACS Biomaterials Science and Engineering</i> , 2021 ,	5.5	3
8	Ubiquitous conformable systems for imperceptible computing. <i>Foresight</i> , 2021 , ahead-of-print,	2.1	2
7	Research Resiliency through Lean Labs. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000074	6	1

6	Experimentally verified finite element modeling and analysis of a conformable piezoelectric sensor. <i>Smart Materials and Structures</i> , 2021 , 30, 085017	3.4	1
5	PerForm 2018 ,		1
4	Simultaneous recording and marking of brain microstructures. <i>Journal of Neural Engineering</i> , 2020 , 17, 044001	5	0
3	Pb(Zr,Ti)O ₃ nanofibers produced by electrospinning process. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1129, 1		0
2	Energy Harvesting: Measured Output Voltages of Piezoelectric Devices Depend on the Resistance of Voltmeter (Adv. Funct. Mater. 33/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 5404-5404	15.6	
1	Polymer Nanowires: Cooperativity in the Enhanced Piezoelectric Response of Polymer Nanowires (Adv. Mater. 45/2014). <i>Advanced Materials</i> , 2014 , 26, 7573-7573	24	