

Anthony Banks

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.

45
papers

4,237
citations

29
h-index

52
g-index

52
ext. papers

5,351
ext. citations

17.4
avg, IF

4.6
L-index

#	Paper	IF	Citations
45	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. <i>Science Translational Medicine</i> , 2016 , 8, 366ra165	17.5	665
44	Materials science. Assembly of micro/nanomaterials into complex, three-dimensional architectures by compressive buckling. <i>Science</i> , 2015 , 347, 154-9	33.3	587
43	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. <i>Science</i> , 2019 , 363,	33.3	316
42	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. <i>Science Advances</i> , 2016 , 2, e1600418	14.3	266
41	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017 , 93, 509-521.e3	13.9	225
40	Epidermal electronics with advanced capabilities in near-field communication. <i>Small</i> , 2015 , 11, 906-12	11	191
39	Wireless bioresorbable electronic system enables sustained nonpharmacological neuroregenerative therapy. <i>Nature Medicine</i> , 2018 , 24, 1830-1836	50.5	190
38	Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry. <i>Advanced Functional Materials</i> , 2017 , 27, 1604373	15.6	182
37	Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	176
36	Skin-interfaced biosensors for advanced wireless physiological monitoring in neonatal and pediatric intensive-care units. <i>Nature Medicine</i> , 2020 , 26, 418-429	50.5	134
35	Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities. <i>Advanced Functional Materials</i> , 2015 , 25, 4761-4767	15.6	114
34	Materials and Device Designs for an Epidermal UV Colorimetric Dosimeter with Near Field Communication Capabilities. <i>Advanced Functional Materials</i> , 2017 , 27, 1604465	15.6	108
33	Soft, thin skin-mounted power management systems and their use in wireless thermography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 6131-6	11.5	108
32	Soft Core/Shell Packages for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2015 , 25, 3698-3704	15.6	98
31	Fully implantable optoelectronic systems for battery-free, multimodal operation in neuroscience research. <i>Nature Electronics</i> , 2018 , 1, 652-660	28.4	92
30	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , 2017 , 158, 2108-2116	8	76
29	Battery-free, lightweight, injectable microsystem for in vivo wireless pharmacology and optogenetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 21427-21437	11.5	61

28	Wireless, battery-free, flexible, miniaturized dosimeters monitor exposure to solar radiation and to light for phototherapy. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	59
27	Stretchable, dynamic covalent polymers for soft, long-lived bioresorbable electronic stimulators designed to facilitate neuromuscular regeneration. <i>Nature Communications</i> , 2020 , 11, 5990	17.4	58
26	Ultraminiaturized photovoltaic and radio frequency powered optoelectronic systems for wireless optogenetics. <i>Journal of Neural Engineering</i> , 2015 , 12, 056002-56002	5	47
25	Ferromagnetic, folded electrode composite as a soft interface to the skin for long-term electrophysiological recording. <i>Advanced Functional Materials</i> , 2016 , 26, 7281-7290	15.6	40
24	Wireless sensors for continuous, multimodal measurements at the skin interface with lower limb prostheses. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	39
23	Fully implantable and bioresorbable cardiac pacemakers without leads or batteries. <i>Nature Biotechnology</i> , 2021 , 39, 1228-1238	44.5	38
22	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , 2020 , 6, eabb1093	14.3	35
21	Materials and Wireless Microfluidic Systems for Electronics Capable of Chemical Dissolution on Demand. <i>Advanced Functional Materials</i> , 2015 , 25, 1338-1343	15.6	34
20	Wireless Microfluidic Systems for Programmed, Functional Transformation of Transient Electronic Devices. <i>Advanced Functional Materials</i> , 2015 , 25, 5100-5106	15.6	32
19	Soft, stretchable, epidermal sensor with integrated electronics and photochemistry for measuring personal UV exposures. <i>PLoS ONE</i> , 2018 , 13, e0190233	3.7	31
18	Wireless multilateral devices for optogenetic studies of individual and social behaviors. <i>Nature Neuroscience</i> , 2021 , 24, 1035-1045	25.5	31
17	Photocurable bioresorbable adhesives as functional interfaces between flexible bioelectronic devices and soft biological tissues. <i>Nature Materials</i> , 2021 , 20, 1559-1570	27	29
16	Dry Transient Electronic Systems by Use of Materials that Sublime. <i>Advanced Functional Materials</i> , 2017 , 27, 1606008	15.6	27
15	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , 2018 , 12, 4164-4171	16.7	23
14	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. <i>Nature Communications</i> , 2021 , 12, 5008	17.4	21
13	Reliable, low-cost, fully integrated hydration sensors for monitoring and diagnosis of inflammatory skin diseases in any environment. <i>Science Advances</i> , 2020 , 6,	14.3	18
12	A transient, closed-loop network of wireless, body-integrated devices for autonomous electrotherapy. <i>Science</i> , 2022 , 376, 1006-1012	33.3	17
11	Continuous, noninvasive wireless monitoring of flow of cerebrospinal fluid through shunts in patients with hydrocephalus. <i>Npj Digital Medicine</i> , 2020 , 3, 29	15.7	14

10	Miniaturized, light-adaptive, wireless dosimeters autonomously monitor exposure to electromagnetic radiation. <i>Science Advances</i> , 2019 , 5, eaay2462	14.3	12
9	Differential cardiopulmonary monitoring system for artifact-canceled physiological tracking of athletes, workers, and COVID-19 patients. <i>Science Advances</i> , 2021 , 7,	14.3	11
8	Stretchable Electronics: Epidermal Electronics with Advanced Capabilities in Near-Field Communication (Small 8/2015). <i>Small</i> , 2015 , 11, 905-905	11	8
7	Epidermal Systems: Soft Core/Shell Packages for Stretchable Electronics (Adv. Funct. Mater. 24/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 3697-3697	15.6	5
6	Oximetry: Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry (Adv. Funct. Mater. 1/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	3
5	Sun exposure reduction by melanoma survivors with wearable sensor providing real-time UV exposure and daily text messages with structured goal setting. <i>Archives of Dermatological Research</i> , 2021 , 313, 685-694	3.3	3
4	Epidermal Electronics: Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities (Adv. Funct. Mater. 30/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 4919-4919	15.6	2
3	Multifunctional Epidermal Sensor Systems with Ultrathin Encapsulation Packaging for Health Monitoring. <i>Microsystems and Nanosystems</i> , 2016 , 193-205	0.4	1
2	Real-Time UV Measurement With a Sun Protection System for Warning Young Adults About Sunburn: Prospective Cohort Study. <i>JMIR MHealth and UHealth</i> , 2021 , 9, e25895	5.5	0
1	Electrodes: Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording (Adv. Funct. Mater. 40/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 7280-7280	15.6	