Anthony Banks

List of Publications by Year
in descending order

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48 papers	6,554 citations	117453 34 h-index	197535 49 g-index
52 all docs	52 docs citations	52 times ranked	7575 citing authors

#	Article	IF	Citations
1	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. Science Translational Medicine, 2016, 8, 366ra165.	5.8	933
2	Assembly of micro/nanomaterials into complex, three-dimensional architectures by compressive buckling. Science, 2015, 347, 154-159.	6.0	745
3	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. Science, 2019, 363, .	6.0	521
4	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. Science Advances, 2016, 2, e1600418.	4.7	336
5	Wireless bioresorbable electronic system enables sustained nonpharmacological neuroregenerative therapy. Nature Medicine, 2018, 24, 1830-1836.	15.2	331
6	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. Neuron, 2017, 93, 509-521.e3.	3.8	323
7	Skin-interfaced biosensors for advanced wireless physiological monitoring in neonatal and pediatric intensive-care units. Nature Medicine, 2020, 26, 418-429.	15.2	272
8	Miniaturized Batteryâ€Free Wireless Systems for Wearable Pulse Oximetry. Advanced Functional Materials, 2017, 27, 1604373.	7.8	248
9	Battery-free, wireless sensors for full-body pressure and temperature mapping. Science Translational Medicine, 2018, 10, .	5.8	247
10	Epidermal Electronics with Advanced Capabilities in Near-Field Communication. Small, 2015, 11, 906-912.	5.2	224
11	Fully implantable and bioresorbable cardiac pacemakers without leads or batteries. Nature Biotechnology, 2021, 39, 1228-1238.	9.4	163
12	Fully implantable optoelectronic systems for battery-free, multimodal operation in neuroscience research. Nature Electronics, 2018, 1, 652-660.	13.1	157
13	Miniaturized Flexible Electronic Systems with Wireless Power and Nearâ€Field Communication Capabilities. Advanced Functional Materials, 2015, 25, 4761-4767.	7.8	148
14	Stretchable, dynamic covalent polymers for soft, long-lived bioresorbable electronic stimulators designed to facilitate neuromuscular regeneration. Nature Communications, 2020, 11, 5990.	5.8	144
15	Soft, thin skin-mounted power management systems and their use in wireless thermography. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6131-6136.	3.3	139
16	Materials and Device Designs for an Epidermal UV Colorimetric Dosimeter with Near Field Communication Capabilities. Advanced Functional Materials, 2017, 27, 1604465.	7.8	135
17	Soft Core/Shell Packages for Stretchable Electronics. Advanced Functional Materials, 2015, 25, 3698-3704.	7.8	116
18	Photocurable bioresorbable adhesives as functional interfaces between flexible bioelectronic devices and soft biological tissues. Nature Materials, 2021, 20, 1559-1570.	13.3	114

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19	Battery-free, lightweight, injectable microsystem for in vivo wireless pharmacology and optogenetics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21427-21437.	3.3	110
20	Wireless multilateral devices for optogenetic studies of individual and social behaviors. Nature Neuroscience, 2021, 24, 1035-1045.	7.1	98
21	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. Pain, 2017, 158, 2108-2116.	2.0	93
22	Wireless sensors for continuous, multimodal measurements at the skin interface with lower limb prostheses. Science Translational Medicine, 2020, 12, .	5.8	93
23	Wireless, battery-free, flexible, miniaturized dosimeters monitor exposure to solar radiation and to light for phototherapy. Science Translational Medicine, 2018, 10, .	5.8	91
24	A transient, closed-loop network of wireless, body-integrated devices for autonomous electrotherapy. Science, 2022, 376, 1006-1012.	6.0	90
25	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. Science Advances, 2020, 6, eabb1093.	4.7	87
26	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. Nature Communications, 2021, 12, 5008.	5.8	83
27	Ultraminiaturized photovoltaic and radio frequency powered optoelectronic systems for wireless optogenetics. Journal of Neural Engineering, 2015, 12, 056002.	1.8	64
28	Differential cardiopulmonary monitoring system for artifact-canceled physiological tracking of athletes, workers, and COVID-19 patients. Science Advances, 2021, 7, .	4.7	55
29	Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Longâ€Term Electrophysiological Recording. Advanced Functional Materials, 2016, 26, 7281-7290.	7.8	53
30	Soft, stretchable, epidermal sensor with integrated electronics and photochemistry for measuring personal UV exposures. PLoS ONE, 2018, 13, e0190233.	1.1	43
31	Materials and Wireless Microfluidic Systems for Electronics Capable of Chemical Dissolution on Demand. Advanced Functional Materials, 2015, 25, 1338-1343.	7.8	41
32	Reliable, low-cost, fully integrated hydration sensors for monitoring and diagnosis of inflammatory skin diseases in any environment. Science Advances, 2020, 6, .	4.7	40
33	Wireless Microfluidic Systems for Programmed, Functional Transformation of Transient Electronic Devices. Advanced Functional Materials, 2015, 25, 5100-5106.	7.8	37
34	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. ACS Nano, 2018, 12, 4164-4171.	7.3	36
35	Dry Transient Electronic Systems by Use of Materials that Sublime. Advanced Functional Materials, 2017, 27, 1606008.	7.8	34
36	Continuous, noninvasive wireless monitoring of flow of cerebrospinal fluid through shunts in patients with hydrocephalus. Npj Digital Medicine, 2020, 3, 29.	5.7	26

#	Article	IF	Citations
37	Miniaturized, light-adaptive, wireless dosimeters autonomously monitor exposure to electromagnetic radiation. Science Advances, 2019, 5, eaay2462.	4.7	21
38	Preparation and use of wireless reprogrammable multilateral optogenetic devices for behavioral neuroscience. Nature Protocols, 2022, 17, 1073-1096.	5.5	14
39	Sun exposure reduction by melanoma survivors with wearable sensor providing real-time UV exposure and daily text messages with structured goal setting. Archives of Dermatological Research, 2020, 313, 685-694.	1.1	10
40	Stretchable Electronics: Epidermal Electronics with Advanced Capabilities in Near-Field Communication (Small 8/2015). Small, 2015, 11, 905-905.	5.2	8
41	Epidermal Systems: Soft Core/Shell Packages for Stretchable Electronics (Adv. Funct. Mater. 24/2015). Advanced Functional Materials, 2015, 25, 3697-3697.	7.8	6
42	Real-Time UV Measurement With a Sun Protection System for Warning Young Adults About Sunburn: Prospective Cohort Study. JMIR MHealth and UHealth, 2021, 9, e25895.	1.8	6
43	Oximetry: Miniaturized Batteryâ€Free Wireless Systems for Wearable Pulse Oximetry (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT	7.8	4
44	Epidermal Electronics: Miniaturized Flexible Electronic Systems with Wireless Power and Nearâ€Field Communication Capabilities (Adv. Funct. Mater. 30/2015). Advanced Functional Materials, 2015, 25, 4919-4919.	7.8	3
45	Multifunctional Epidermal Sensor Systems with Ultrathin Encapsulation Packaging for Health Monitoring. Microsystems and Nanosystems, 2016, , 193-205.	0.1	2
46	UV Sensors: Materials and Device Designs for an Epidermal UV Colorimetric Dosimeter with Near Field Communication Capabilities (Adv. Funct. Mater. 2/2017). Advanced Functional Materials, 2017, 27, .	7.8	1
47	Electrodes: Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Longâ€Term Electrophysiological Recording (Adv. Funct. Mater. 40/2016). Advanced Functional Materials, 2016, 26, 7280-7280.	7.8	0
48	Transient Electronics: Dry Transient Electronic Systems by Use of Materials that Sublime (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	7.8	0