

Anthony Banks

List of Publications by Year in descending order

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48
papers

6,554
citations

117625

34
h-index

197818

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. <i>Science Translational Medicine</i> , 2016, 8, 366ra165.	12.4	933
2	Assembly of micro/nanomaterials into complex, three-dimensional architectures by compressive buckling. <i>Science</i> , 2015, 347, 154-159.	12.6	745
3	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. <i>Science</i> , 2019, 363, .	12.6	521
4	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. <i>Science Advances</i> , 2016, 2, e1600418.	10.3	336
5	Wireless bioresorbable electronic system enables sustained nonpharmacological neuroregenerative therapy. <i>Nature Medicine</i> , 2018, 24, 1830-1836.	30.7	331
6	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017, 93, 509-521.e3.	8.1	323
7	Skin-interfaced biosensors for advanced wireless physiological monitoring in neonatal and pediatric intensive-care units. <i>Nature Medicine</i> , 2020, 26, 418-429.	30.7	272
8	Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry. <i>Advanced Functional Materials</i> , 2017, 27, 1604373.	14.9	248
9	Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	247
10	Epidermal Electronics with Advanced Capabilities in Near-Field Communication. <i>Small</i> , 2015, 11, 906-912.	10.0	224
11	Fully implantable and bioresorbable cardiac pacemakers without leads or batteries. <i>Nature Biotechnology</i> , 2021, 39, 1228-1238.	17.5	163
12	Fully implantable optoelectronic systems for battery-free, multimodal operation in neuroscience research. <i>Nature Electronics</i> , 2018, 1, 652-660.	26.0	157
13	Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities. <i>Advanced Functional Materials</i> , 2015, 25, 4761-4767.	14.9	148
14	Stretchable, dynamic covalent polymers for soft, long-lived bioresorbable electronic stimulators designed to facilitate neuromuscular regeneration. <i>Nature Communications</i> , 2020, 11, 5990.	12.8	144
15	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, 6131-6136.	7.1	139
16	Materials and Device Designs for an Epidermal UV Colorimetric Dosimeter with Near Field Communication Capabilities. <i>Advanced Functional Materials</i> , 2017, 27, 1604465.	14.9	135
17	Soft Core/Shell Packages for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 3698-3704.	14.9	116
18	Photocurable bioresorbable adhesives as functional interfaces between flexible bioelectronic devices and soft biological tissues. <i>Nature Materials</i> , 2021, 20, 1559-1570.	27.5	114

#	ARTICLE	IF	CITATIONS
19	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.	7.1	110
20	Wireless multilateral devices for optogenetic studies of individual and social behaviors. <i>Nature Neuroscience</i> , 2021, 24, 1035-1045.	14.8	98
21	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , 2017, 158, 2108-2116.	4.2	93
22	Wireless sensors for continuous, multimodal measurements at the skin interface with lower limb prostheses. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	93
23	Wireless, battery-free, flexible, miniaturized dosimeters monitor exposure to solar radiation and to light for phototherapy. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	91
24	A transient, closed-loop network of wireless, body-integrated devices for autonomous electrotherapy. <i>Science</i> , 2022, 376, 1006-1012.	12.6	90
25	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , 2020, 6, eabb1093.	10.3	87
26	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.	12.8	83
27	Ultraminaturized photovoltaic and radio frequency powered optoelectronic systems for wireless optogenetics. <i>Journal of Neural Engineering</i> , 2015, 12, 056002.	3.5	64
28	Differential cardiopulmonary monitoring system for artifact-canceled physiological tracking of athletes, workers, and COVID-19 patients. <i>Science Advances</i> , 2021, 7, .	10.3	55
29	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.	14.9	53
30	Soft, stretchable, epidermal sensor with integrated electronics and photochemistry for measuring personal UV exposures. <i>PLoS ONE</i> , 2018, 13, e0190233.	2.5	43
31	Materials and Wireless Microfluidic Systems for Electronics Capable of Chemical Dissolution on Demand. <i>Advanced Functional Materials</i> , 2015, 25, 1338-1343.	14.9	41
32	Reliable, low-cost, fully integrated hydration sensors for monitoring and diagnosis of inflammatory skin diseases in any environment. <i>Science Advances</i> , 2020, 6, .	10.3	40
33	Wireless Microfluidic Systems for Programmed, Functional Transformation of Transient Electronic Devices. <i>Advanced Functional Materials</i> , 2015, 25, 5100-5106.	14.9	37
34	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , 2018, 12, 4164-4171.	14.6	36
35	Dry Transient Electronic Systems by Use of Materials that Sublime. <i>Advanced Functional Materials</i> , 2017, 27, 1606008.	14.9	34
36	Continuous, noninvasive wireless monitoring of flow of cerebrospinal fluid through shunts in patients with hydrocephalus. <i>Npj Digital Medicine</i> , 2020, 3, 29.	10.9	26

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37	Miniaturized, light-adaptive, wireless dosimeters autonomously monitor exposure to electromagnetic radiation. <i>Science Advances</i> , 2019, 5, eaay2462.	10.3	21
38	Preparation and use of wireless reprogrammable multilateral optogenetic devices for behavioral neuroscience. <i>Nature Protocols</i> , 2022, 17, 1073-1096.	12.0	14
39	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> , 2020, 313, 685-694.	1.9	10
40	Stretchable Electronics: Epidermal Electronics with Advanced Capabilities in Near-Field Communication (<i>Small</i> 8/2015). <i>Small</i> , 2015, 11, 905-905.	10.0	8
41	Epidermal Systems: Soft Core/Shell Packages for Stretchable Electronics (<i>Adv. Funct. Mater.</i> 24/2015). <i>Advanced Functional Materials</i> , 2015, 25, 3697-3697.	14.9	6
42	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.	3.7	6
43	Oximetry: Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry (<i>Adv. Funct. Mater.</i>) <i>Tj ETQq1, 1, 0.7843, 14, rgBT</i>	14.9	4
44	Epidermal Electronics: Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities (<i>Adv. Funct. Mater.</i> 30/2015). <i>Advanced Functional Materials</i> , 2015, 25, 4919-4919.	14.9	3
45	Multifunctional Epidermal Sensor Systems with Ultrathin Encapsulation Packaging for Health Monitoring. <i>Microsystems and Nanosystems</i> , 2016, , 193-205.	0.1	2
46	UV Sensors: Materials and Device Designs for an Epidermal UV Colorimetric Dosimeter with Near Field Communication Capabilities (<i>Adv. Funct. Mater.</i> 2/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	1
47	Electrodes: Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording (<i>Adv. Funct. Mater.</i> 40/2016). <i>Advanced Functional Materials</i> , 2016, 26, 7280-7280.	14.9	0
48	Transient Electronics: Dry Transient Electronic Systems by Use of Materials that Sublime (<i>Adv. Funct.</i>) <i>Tj ETQq0 0 0, rgBT /Overlock 10 Tf</i>	14.9	0