## Amay J Bandodkar

## List of Publications by Year in Descending Order

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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.

60 9,061 43 63 g-index

63 10,644 12.1 6.65 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
60	Soft, skin-interfaced sweat stickers for cystic fibrosis diagnosis and management. <i>Science Translational Medicine</i> , <b>2021</b> , 13,	17.5	21
59	Rapid Capture and Extraction of Sweat for Regional Rate and Cytokine Composition Analysis Using a Wearable Soft Microfluidic System. <i>Journal of Investigative Dermatology</i> , <b>2021</b> , 141, 433-437.e3	4.3	7
58	Three-dimensional, multifunctional neural interfaces for cortical spheroids and engineered assembloids. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	38
57	Donl Sweat It: The Quest for Wearable Stress Sensors. <i>Matter</i> , <b>2020</b> , 2, 795-797	12.7	4
56	Skin-interfaced soft microfluidic systems with modular and reusable electronics for capacitive sensing of sweat loss, rate and conductivity. <i>Lab on A Chip</i> , <b>2020</b> , 20, 4391-4403	7.2	9
55	Sweat-activated biocompatible batteries for epidermal electronic and microfluidic systems. <i>Nature Electronics</i> , <b>2020</b> , 3, 554-562	28.4	48
54	Recent advances in neurotechnologies with broad potential for neuroscience research. <i>Nature Neuroscience</i> , <b>2020</b> , 23, 1522-1536	25.5	42
53	Modeling, design guidelines, and detection limits of self-powered enzymatic biofuel cell-based sensors. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 168, 112493	11.8	12
52	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , <b>2020</b> , 6, eabb1093	14.3	35
51	Bio-Integrated Wearable Systems: A Comprehensive Review. <i>Chemical Reviews</i> , <b>2019</b> , 119, 5461-5533	68.1	496
50	Soft, Skin-Integrated Multifunctional Microfluidic Systems for Accurate Colorimetric Analysis of Sweat Biomarkers and Temperature. <i>ACS Sensors</i> , <b>2019</b> , 4, 379-388	9.2	134
49	Waterproof, electronics-enabled, epidermal microfluidic devices for sweat collection, biomarker analysis, and thermography in aquatic settings. <i>Science Advances</i> , <b>2019</b> , 5, eaau6356	14.3	142
48	Soft, Skin-Interfaced Microfluidic Systems with Passive Galvanic Stopwatches for Precise Chronometric Sampling of Sweat. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902109	24	42
47	Passive sweat collection and colorimetric analysis of biomarkers relevant to kidney disorders using a soft microfluidic system. <i>Lab on A Chip</i> , <b>2019</b> , 19, 1545-1555	7.2	91
46	Body-Interfaced Chemical Sensors for Noninvasive Monitoring and Analysis of Biofluids. <i>Trends in Chemistry</i> , <b>2019</b> , 1, 559-571	14.8	47
45	Wearable Sensors for Biochemical Sweat Analysis. Annual Review of Analytical Chemistry, <b>2019</b> , 12, 1-22	12.5	157
44	Resettable skin interfaced microfluidic sweat collection devices with chemesthetic hydration feedback. <i>Nature Communications</i> , <b>2019</b> , 10, 5513	17.4	39

## (2016-2019)

43	Battery-free, skin-interfaced microfluidic/electronic systems for simultaneous electrochemical, colorimetric, and volumetric analysis of sweat. <i>Science Advances</i> , <b>2019</b> , 5, eaav3294	14.3	299
42	Super-Absorbent Polymer Valves and Colorimetric Chemistries for Time-Sequenced Discrete Sampling and Chloride Analysis of Sweat via Skin-Mounted Soft Microfluidics. <i>Small</i> , <b>2018</b> , 14, e170333	4 <sup>11</sup>	81
41	Re-usable electrochemical glucose sensors integrated into a smartphone platform. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 101, 181-187	11.8	70
40	A fluorometric skin-interfaced microfluidic device and smartphone imaging module for in situ quantitative analysis of sweat chemistry. <i>Lab on A Chip</i> , <b>2018</b> , 18, 2178-2186	7.2	113
39	Soft, Skin-Interfaced Microfluidic Systems with Wireless, Battery-Free Electronics for Digital, Real-Time Tracking of Sweat Loss and Electrolyte Composition. <i>Small</i> , <b>2018</b> , 14, e1802876	11	66
38	A stretchable and screen-printed electrochemical sensor for glucose determination in human perspiration. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 91, 885-891	11.8	201
37	Merging of Thin- and Thick-Film Fabrication Technologies: Toward Soft Stretchable <b>B</b> land <b>B</b> ridge Devices. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600284	6.8	57
36	Soft, stretchable, high power density electronic skin-based biofuel cells for scavenging energy from human sweat. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1581-1589	35.4	225
35	Soft, skin-mounted microfluidic systems for measuring secretory fluidic pressures generated at the surface of the skin by eccrine sweat glands. <i>Lab on A Chip</i> , <b>2017</b> , 17, 2572-2580	7.2	93
34	Advanced Materials for Printed Wearable Electrochemical Devices: A Review. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600260	6.4	290
33	Review Wearable Biofuel Cells: Past, Present and Future. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, H3007-H3014	3.9	76
32	Noninvasive Alcohol Monitoring Using a Wearable Tattoo-Based Iontophoretic-Biosensing System. <i>ACS Sensors</i> , <b>2016</b> , 1, 1011-1019	9.2	350
31	Wearable chemical sensors: Opportunities and challenges 2016,		11
30	A wearable chemical-electrophysiological hybrid biosensing system for real-time health and fitness monitoring. <i>Nature Communications</i> , <b>2016</b> , 7, 11650	17.4	510
29	All-printed magnetically self-healing electrochemical devices. <i>Science Advances</i> , <b>2016</b> , 2, e1601465	14.3	81
28	Wearable Biofuel Cells: A Review. <i>Electroanalysis</i> , <b>2016</b> , 28, 1188-1200	3	126
27	Highly Stretchable Fully-Printed CNT-Based Electrochemical Sensors and Biofuel Cells: Combining Intrinsic and Design-Induced Stretchability. <i>Nano Letters</i> , <b>2016</b> , 16, 721-7	11.5	229
26	Wearable Chemical Sensors: Present Challenges and Future Prospects. <i>ACS Sensors</i> , <b>2016</b> , 1, 464-482	9.2	469

25	Tattoo-Based Wearable Electrochemical Devices: A Review. <i>Electroanalysis</i> , <b>2015</b> , 27, 562-572	3	222
24	All-printed stretchable electrochemical devices. <i>Advanced Materials</i> , <b>2015</b> , 27, 3060-5	24	150
23	Tattoo-based noninvasive glucose monitoring: a proof-of-concept study. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 394-8	7.8	434
22	Wearable temporary tattoo sensor for real-time trace metal monitoring in human sweat. <i>Electrochemistry Communications</i> , <b>2015</b> , 51, 41-45	5.1	156
21	Self-Healing Inks for Autonomous Repair of Printable Electrochemical Devices. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1500289	6.4	40
20	Biocompatible enzymatic roller pens for direct writing of biocatalytic materials: "do-it-yourself" electrochemical biosensors. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1215-24	10.1	50
19	Non-invasive wearable electrochemical sensors: a review. <i>Trends in Biotechnology</i> , <b>2014</b> , 32, 363-71	15.1	752
18	Epidermal tattoo potentiometric sodium sensors with wireless signal transduction for continuous non-invasive sweat monitoring. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 603-9	11.8	326
17	Wearable textile biofuel cells for powering electronics. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1818	4- <b>18</b> 18!	9 119
16	An epidermal alkaline rechargeable Ag⁄In printable tattoo battery for wearable electronics. Journal of Materials Chemistry A, <b>2014</b> , 2, 15788-15795	13	112
15	Microneedle-based self-powered glucose sensor. <i>Electrochemistry Communications</i> , <b>2014</b> , 47, 58-62	5.1	118
14	Non-invasive mouthguard biosensor for continuous salivary monitoring of metabolites. <i>Analyst, The</i> , <b>2014</b> , 139, 1632-6	5	236
13	Solid-state Forensic Finger sensor for integrated sampling and detection of gunshot residue and explosives: towards 'Lab-on-a-finger'. <i>Analyst, The</i> , <b>2013</b> , 138, 5288-95	5	57
12	A potentiometric tattoo sensor for monitoring ammonium in sweat. <i>Analyst, The</i> , <b>2013</b> , 138, 7031-8	5	212
11	Tattoo-based potentiometric ion-selective sensors for epidermal pH monitoring. <i>Analyst, The</i> , <b>2013</b> , 138, 123-8	5	248
10	Electrochemical tattoo biosensors for real-time noninvasive lactate monitoring in human perspiration. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6553-60	7.8	539
9	Epidermal biofuel cells: energy harvesting from human perspiration. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 7233-6	16.4	223
8	Epidermal Biofuel Cells: Energy Harvesting from Human Perspiration. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 7374-7377	3.6	9

## LIST OF PUBLICATIONS

7	Electrochemical sensing based on printable temporary transfer tattoos. <i>Chemical Communications</i> , <b>2012</b> , 48, 6794-6	5.8	128
6	Stamp transfer electrodes for electrochemical sensing on non-planar and oversized surfaces. <i>Analyst, The</i> , <b>2012</b> , 137, 1570-5	5	54
5	Bwipe and Scantintegration of sampling and analysis of gunshot metal residues at screen-printed electrodes. <i>Electrochemistry Communications</i> , <b>2012</b> , 23, 52-55	5.1	25
4	Fundamentals and application of ordered molecular assemblies to affinity biosensing. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 1363-402	58.5	80
3	Can peroxygenase and microperoxidase substitute cytochrome P450 in biosensors. <i>Bioanalytical Reviews</i> , <b>2011</b> , 3, 67-94	1	9
2	Nanostructured conducting polymer based reagentless capacitive immunosensor. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 63-70	3.7	15
1	Low density lipoprotein detection based on antibody immobilized self-assembled monolayer: investigations of kinetic and thermodynamic properties. <i>Journal of Physical Chemistry B.</i> <b>2009</b> , 113, 144	03:412	34