

Arwa Fraiwan

List of Publications by Year in descending order

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31
papers

1,029
citations

516710

16
h-index

677142

22
g-index

31
all docs

31
docs citations

31
times ranked

1257
citing authors

#	ARTICLE	IF	CITATIONS
1	Paper-based batteries: A review. Biosensors and Bioelectronics, 2014, 54, 640-649.	10.1	207
2	A paper-based microbial fuel cell: Instant battery for disposable diagnostic devices. Biosensors and Bioelectronics, 2013, 49, 410-414.	10.1	128
3	A 3D paper-based enzymatic fuel cell for self-powered, low-cost glucose monitoring. Biosensors and Bioelectronics, 2016, 79, 193-197.	10.1	91
4	A stackable, two-chambered, paper-based microbial fuel cell. Biosensors and Bioelectronics, 2016, 83, 27-32.	10.1	74
5	Bacteria-powered battery on paper. Physical Chemistry Chemical Physics, 2014, 16, 26288-26293.	2.8	64
6	Fast and sensitive water quality assessment: A 1/4L-scale microbial fuel cell-based biosensor integrated with an air-bubble trap and electrochemical sensing functionality. Sensors and Actuators B: Chemical, 2016, 226, 191-195.	7.8	59
7	A Multinode Paper-Based Microbial Fuel Cell: A Potential Power Source for Disposable Biosensors. IEEE Sensors Journal, 2014, 14, 3385-3390.	4.7	53
8	Emerging point-of-care technologies for sickle cell disease screening and monitoring. Expert Review of Medical Devices, 2016, 13, 1073-1093.	2.8	49
9	A disposable power source in resource-limited environments: A paper-based biobattery generating electricity from wastewater. Biosensors and Bioelectronics, 2016, 85, 190-197.	10.1	42
10	Paper-based microchip electrophoresis for point-of-care hemoglobin testing. Analyst, The, 2020, 145, 2525-2542.	3.5	39
11	Microbial Powerâ€Generating Capabilities on Microâ€Nanoâ€Structured Anodes in Microâ€Sized Microbial Fuel Cells. Fuel Cells, 2014, 14, 801-809.	2.4	36
12	Enhanced Performance of Microâ€Electroâ€Mechanicalâ€Systems (MEMS) Microbial Fuel Cells Using Electrospun Microfibrous Anode and Optimizing Operation. Fuel Cells, 2013, 13, 336-341.	2.4	32
13	Bacterial growth and respiration in laminar flow microbial fuel cells. Journal of Renewable and Sustainable Energy, 2014, 6, .	2.0	26
14	Hydrogen Sensing Using Thin-Film Perfect Light Absorber. ACS Photonics, 2019, 6, 1889-1894.	6.6	25
15	A paper-based cantilever array sensor: Monitoring volatile organic compounds with naked eye. Talanta, 2016, 158, 57-62.	5.5	23
16	Clinical Testing of Hemechip in Nigeria for Point-of-Care Screening of Sickle Cell Disease. Blood, 2018, 132, 1095-1095.	1.4	20
17	A Microsized Microbial Solar Cell: A demonstration of photosynthetic bacterial electrogenic capabilities. IEEE Nanotechnology Magazine, 2014, 8, 24-29.	1.3	18
18	Hydrogen gas sensing using aluminum doped ZnO metasurfaces. Nanoscale Advances, 2020, 2, 3452-3459.	4.6	11

#	ARTICLE	IF	CITATIONS
19	Effects of light on the performance of electricity-producing bacteria in a miniaturized microbial fuel cell array. Journal of Renewable and Sustainable Energy, 2014, 6, 063110.	2.0	6
20	Ultrathin-film optical coating for angle-independent remote hydrogen sensing. Measurement Science and Technology, 2020, 31, 115201.	2.6	6
21	International Multi-Site Clinical Validation of Point-of-Care Microchip Electrophoresis Test for Hemoglobin Variant Identification. Blood, 2019, 134, 3373-3373.	1.4	5
22	A multi-anode paper-based microbial fuel cell for disposable biosensors. , 2013, , .		3
23	Advancing Healthcare Outcomes for Sickle Cell Disease in Nigeria Using Mobile Health Tools. Blood, 2019, 134, 2173-2173.	1.4	3
24	A micro-sized microbial fuel cell with electrochemical sensing functionality. , 2014, , .		2
25	A paper-based bacteria-powered battery having high power generation. , 2014, , .		2
26	Direct visualization of electrogenic bacteria in a microfabricated microbial fuel cell. , 2013, , .		1
27	A micro-sized microbial solar cell. , 2014, , .		1
28	A miniaturized parallel analyses platform for rapid electrochemical discoveries of microbial activities. , 2014, , .		1
29	A biomicrosystem for simultaneous optical and electrochemical monitoring of electroactive microbial biofilm. , 2015, , .		1
30	Point-of-Care Microchip Electrophoresis Test for Glycosylated Hemoglobin. , 2022, , .		1
31	Live Demonstration: HemeChip - A Portable Microchip Electrophoresis Technology for Point-of-Care Sickle Cell Disease Screening. , 2018, , .		0