Arwa Fraiwan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6102018/publications.pdf

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31 papers	1,029 citations	516215 16 h-index	676716 22 g-index
31 all docs	31 docs citations	31 times ranked	1257 citing authors

#	Article	IF	Citations
1	Point-of-Care Microchip Electrophoresis Test for Glycosylated Hemoglobin. , 2022, , .		1
2	Hydrogen gas sensing using aluminum doped ZnO metasurfaces. Nanoscale Advances, 2020, 2, 3452-3459.	2.2	11
3	Paper-based microchip electrophoresis for point-of-care hemoglobin testing. Analyst, The, 2020, 145, 2525-2542.	1.7	39
4	Ultrathin-film optical coating for angle-independent remote hydrogen sensing. Measurement Science and Technology, 2020, 31, 115201.	1.4	6
5	Hydrogen Sensing Using Thin-Film Perfect Light Absorber. ACS Photonics, 2019, 6, 1889-1894.	3.2	25
6	International Multi-Site Clinical Validation of Point-of-Care Microchip Electrophoresis Test for Hemoglobin Variant Identification. Blood, 2019, 134, 3373-3373.	0.6	5
7	Advancing Healthcare Outcomes for Sickle Cell Disease in Nigeria Using Mobile Health Tools. Blood, 2019, 134, 2173-2173.	0.6	3
8	Live Demonstration: HemeChip - A Portable Microchip Electrophoresis Technology for Point-of-Care Sickle Cell Disease Screening. , 2018, , .		0
9	Clinical Testing of Hemechip in Nigeria for Point-of-Care Screening of Sickle Cell Disease. Blood, 2018, 132, 1095-1095.	0.6	20
10	A paper-based cantilever array sensor: Monitoring volatile organic compounds with naked eye. Talanta, 2016, 158, 57-62.	2.9	23
11	A stackable, two-chambered, paper-based microbial fuel cell. Biosensors and Bioelectronics, 2016, 83, 27-32.	5.3	74
12	Emerging point-of-care technologies for sickle cell disease screening and monitoring. Expert Review of Medical Devices, 2016, 13, 1073-1093.	1.4	49
13	A disposable power source in resource-limited environments: A paper-based biobattery generating electricity from wastewater. Biosensors and Bioelectronics, 2016, 85, 190-197.	5.3	42
14	A 3D paper-based enzymatic fuel cell for self-powered, low-cost glucose monitoring. Biosensors and Bioelectronics, 2016, 79, 193-197.	5.3	91
15	Fast and sensitive water quality assessment: A Î¼L-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.	4.0	59
16	A biomicrosystem for simultaneous optical and electrochemical monitoring of electroactive microbial biofilm. , 2015, , .		1
17	Bacterial growth and respiration in laminar flow microbial fuel cells. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	26
18	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.	0.8	6

#	Article	IF	Citations
19	A micro-sized microbial fuel cell with electrochemical sensing functionality. , 2014, , .		2
20	A micro-sized microbial solar cell. , 2014, , .		1
21	A miniaturized parallel analyses platform for rapid electrochemical discoveries of microbial activities. , 2014, , .		1
22	Paper-based batteries: A review. Biosensors and Bioelectronics, 2014, 54, 640-649.	5.3	207
23	Bacteria-powered battery on paper. Physical Chemistry Chemical Physics, 2014, 16, 26288-26293.	1.3	64
24	A paper-based bacteria-powered battery having high power generation. , 2014, , .		2
25	A Multianode Paper-Based Microbial Fuel Cell: A Potential Power Source for Disposable Biosensors. IEEE Sensors Journal, 2014, 14, 3385-3390.	2.4	53
26	A Microsized Microbial Solar Cell: A demonstration of photosynthetic bacterial electrogenic capabilities. IEEE Nanotechnology Magazine, 2014, 8, 24-29.	0.9	18
27	Microbial Powerâ€Generating Capabilities on Microâ€/Nanoâ€Structured Anodes in Microâ€Sized Microbial Fuel Cells. Fuel Cells, 2014, 14, 801-809.	1.5	36
28	A paper-based microbial fuel cell: Instant battery for disposable diagnostic devices. Biosensors and Bioelectronics, 2013, 49, 410-414.	5.3	128
29	A multi-anode paper-based microbial fuel cell for disposable biosensors. , 2013, , .		3
30	Direct visualization of electrogenic becteria in a microfabricated microbial fuel cell. , 2013, , .		1
31	Enhanced Performance of Microâ€Electroâ€Mechanicalâ€Systems (MEMS) Microbial Fuel Cells Using Electrospun Microfibrous Anode and Optimizing Operation. Fuel Cells, 2013, 13, 336-341.	1.5	32