

Mirella Di Lorenzo

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,025
citations

257101

24
h-index

315357

38
g-index

42
all docs

42
docs citations

42
times ranked

2468
citing authors

#	ARTICLE	IF	CITATIONS
1	A single-chamber microbial fuel cell as a biosensor for wastewaters. <i>Water Research</i> , 2009, 43, 3145-3154.	5.3	236
2	A small-scale air-cathode microbial fuel cell for on-line monitoring of water quality. <i>Biosensors and Bioelectronics</i> , 2014, 62, 182-188.	5.3	196
3	A screen-printed paper microbial fuel cell biosensor for detection of toxic compounds in water. <i>Biosensors and Bioelectronics</i> , 2018, 102, 49-56.	5.3	139
4	Towards effective small scale microbial fuel cells for energy generation from urine. <i>Electrochimica Acta</i> , 2016, 192, 89-98.	2.6	120
5	Water Quality Monitoring in Developing Countries; Can Microbial Fuel Cells be the Answer?. <i>Biosensors</i> , 2015, 5, 450-470.	2.3	113
6	Enzymatic Fuel Cells: Towards Self-Powered Implantable and Wearable Diagnostics. <i>Biosensors</i> , 2018, 8, 11.	2.3	102
7	Impedimetric paper-based biosensor for the detection of bacterial contamination in water. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 50-58.	4.0	97
8	Towards timely Alzheimer diagnosis: A self-powered amperometric biosensor for the neurotransmitter acetylcholine. <i>Biosensors and Bioelectronics</i> , 2017, 87, 607-614.	5.3	88
9	Exploring the use of cost-effective membrane materials for Microbial Fuel Cell based sensors. <i>Electrochimica Acta</i> , 2017, 231, 319-326.	2.6	81
10	Glucose Oxidase Directly Immobilized onto Highly Porous Gold Electrodes for Sensing and Fuel Cell applications. <i>Electrochimica Acta</i> , 2014, 138, 86-92.	2.6	77
11	Rapid and on-site simultaneous electrochemical detection of copper, lead and mercury in the Amazon river. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127620.	4.0	75
12	A Bioartificial Renal Tubule Device Embedding Human Renal Stem/Progenitor Cells. <i>PLoS ONE</i> , 2014, 9, e87496.	1.1	69
13	Continuous power generation from glucose with two different miniature flow-through enzymatic biofuel cells. <i>Biosensors and Bioelectronics</i> , 2015, 69, 199-205.	5.3	50
14	Electrodeposited highly porous gold microelectrodes for the direct electrocatalytic oxidation of aqueous glucose. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 725-729.	4.0	48
15	Heterologous Production of Functional Forms of <i>Rhizopus oryzae</i> Lipase in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 8974-8977.	1.4	44
16	Development of a functional stack of soil microbial fuel cells to power a water treatment reactor: From the lab to field trials in North East Brazil. <i>Applied Energy</i> , 2020, 278, 115680.	5.1	36
17	A single chamber packed bed microbial fuel cell biosensor for measuring organic content of wastewater. <i>Water Science and Technology</i> , 2009, 60, 2879-2887.	1.2	32
18	Protein phosphorylation detection using dual-mode field-effect devices and nanoplasmonic sensors. <i>Scientific Reports</i> , 2015, 5, 8687.	1.6	32

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19	A photosynthetic toxicity biosensor for water. <i>Electrochimica Acta</i> , 2019, 309, 392-401.	2.6	32
20	Protein phosphorylation analysis based on proton release detection: Potential tools for drug discovery. <i>Biosensors and Bioelectronics</i> , 2014, 54, 109-114.	5.3	30
21	Microbial fuel cells for in-field water quality monitoring. <i>RSC Advances</i> , 2021, 11, 16307-16317.	1.7	30
22	Effect of Electrode Properties on the Performance of a Photosynthetic Microbial Fuel Cell for Atrazine Detection. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	29
23	Continuous Feed Microbial Fuel Cell Using An Air Cathode and A Disc Anode Stack for Wastewater Treatment. <i>Energy & Fuels</i> , 2009, 23, 5707-5716.	2.5	27
24	Electricity generation from untreated fresh digestate with a cost-effective array of floating microbial fuel cells. <i>Chemical Engineering Science</i> , 2019, 198, 108-116.	1.9	26
25	A soil microbial fuel cell-based biosensor for dissolved oxygen monitoring in water. <i>Electrochimica Acta</i> , 2020, 362, 137108.	2.6	24
26	Plasmonic ruler on field-effect devices for kinase drug discovery applications. <i>Biosensors and Bioelectronics</i> , 2015, 71, 121-128.	5.3	23
27	Generating power from transdermal extracts using a multi-electrode miniature enzymatic fuel cell. <i>Biosensors and Bioelectronics</i> , 2016, 78, 411-417.	5.3	23
28	Pesticide detection by a miniature microbial fuel cell under controlled operational disturbances. <i>Water Science and Technology</i> , 2019, 79, 2231-2241.	1.2	21
29	Modelling the influence of soil properties on performance and bioremediation ability of a pile of soil microbial fuel cells. <i>Electrochimica Acta</i> , 2021, 368, 137568.	2.6	21
30	Electricity generation from moss with light-driven microbial fuel cells. <i>Electrochimica Acta</i> , 2019, 298, 934-942.	2.6	20
31	Assessing the impact of design factors on the performance of two miniature microbial fuel cells. <i>Electrochimica Acta</i> , 2019, 297, 297-306.	2.6	17
32	Self-Powered Detection of Glucose by Enzymatic Glucose/Oxygen Fuel Cells on Printed Circuit Boards. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26704-26711.	4.0	15
33	Electrochemical removal of microalgae with an integrated electrolysis-microbial fuel cell closed-loop system. <i>Separation and Purification Technology</i> , 2017, 183, 373-381.	3.9	14
34	Power generation and autonomous glucose detection with an integrated array of abiotic fuel cells on a printed circuit board. <i>Journal of Power Sources</i> , 2020, 472, 228530.	4.0	14
35	Towards effective energy harvesting from stacks of soil microbial fuel cells. <i>Journal of Power Sources</i> , 2021, 515, 230591.	4.0	7
36	Towards self-powered and autonomous wearable glucose sensor. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
37	A flow-through microfluidic chip for continuous dielectrophoretic separation of viable and non-viable human T cells. Electrophoresis, 2021, , .	1.3	5
38	Semiconductor technology in protein kinase research and drug discovery: sensing a revolution. Drug Discovery Today, 2017, 22, 204-209.	3.2	4
39	Ceramic Soil Microbial Fuel Cells Sensors for Early Detection of Eutrophication. , 2020, 60, .		2
40	Modelling Miniature Microbial Fuel Cells with Three-dimensional Anodes. E3S Web of Conferences, 2022, 334, 08005.	0.2	1
41	Miniature Biological Fuel Cells for Sensing Applications. ECS Meeting Abstracts, 2018, , .	0.0	0
42	Engineering Functional Enzyme Bioelectrodes with Conductive Polymeric Films for Sensing Applications. ECS Meeting Abstracts, 2019, , .	0.0	0