

Mirella Di Lorenzo

List of Publications by Year in descending order

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42
papers

2,025
citations

257450
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315739
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42
all docs

42
docs citations

42
times ranked

2468
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling Miniature Microbial Fuel Cells with Three-dimensional Anodes. E3S Web of Conferences, 2022, 334, 08005.	0.5	1
2	Modelling the influence of soil properties on performance and bioremediation ability of a pile of soil microbial fuel cells. Electrochimica Acta, 2021, 368, 137568.	5.2	21
3	Microbial fuel cells for in-field water quality monitoring. RSC Advances, 2021, 11, 16307-16317.	3.6	30
4	Self-Powered Detection of Glucose by Enzymatic Glucose/Oxygen Fuel Cells on Printed Circuit Boards. ACS Applied Materials & Interfaces, 2021, 13, 26704-26711.	8.0	15
5	Towards effective energy harvesting from stacks of soil microbial fuel cells. Journal of Power Sources, 2021, 515, 230591.	7.8	7
6	A flow-through microfluidic chip for continuous dielectrophoretic separation of viable and non-viable human T-cells. Electrophoresis, 2021, , .	2.4	5
7	Rapid and on-site simultaneous electrochemical detection of copper, lead and mercury in the Amazon river. Sensors and Actuators B: Chemical, 2020, 307, 127620.	7.8	75
8	A soil microbial fuel cell-based biosensor for dissolved oxygen monitoring in water. Electrochimica Acta, 2020, 362, 137108.	5.2	24
9	Power generation and autonomous glucose detection with an integrated array of abiotic fuel cells on a printed circuit board. Journal of Power Sources, 2020, 472, 228530.	7.8	14
10	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. Applied Energy, 2020, 278, 115680.	10.1	36
11	Ceramic Soil Microbial Fuel Cells Sensors for Early Detection of Eutrophication. , 2020, 60, .		2
12	Pesticide detection by a miniature microbial fuel cell under controlled operational disturbances. Water Science and Technology, 2019, 79, 2231-2241.	2.5	21
13	Electricity generation from untreated fresh digestate with a cost-effective array of floating microbial fuel cells. Chemical Engineering Science, 2019, 198, 108-116.	3.8	26
14	A photosynthetic toxicity biosensor for water. Electrochimica Acta, 2019, 309, 392-401.	5.2	32
15	Effect of Electrode Properties on the Performance of a Photosynthetic Microbial Fuel Cell for Atrazine Detection. Frontiers in Energy Research, 2019, 7, .	2.3	29
16	Electricity generation from moss with light-driven microbial fuel cells. Electrochimica Acta, 2019, 298, 934-942.	5.2	20
17	Assessing the impact of design factors on the performance of two miniature microbial fuel cells. Electrochimica Acta, 2019, 297, 297-306.	5.2	17
18	Engineering Functional Enzyme Bioelectrodes with Conductive Polymeric Films for Sensing Applications. ECS Meeting Abstracts, 2019, , .	0.0	0

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19	Impedimetric paper-based biosensor for the detection of bacterial contamination in water. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 50-58.	7.8	97
20	A screen-printed paper microbial fuel cell biosensor for detection of toxic compounds in water. <i>Biosensors and Bioelectronics</i> , 2018, 102, 49-56.	10.1	139
21	Towards self-powered and autonomous wearable glucose sensor. , 2018, , .		5
22	Enzymatic Fuel Cells: Towards Self-Powered Implantable and Wearable Diagnostics. <i>Biosensors</i> , 2018, 8, 11.	4.7	102
23	Miniature Biological Fuel Cells for Sensing Applications. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
24	Exploring the use of cost-effective membrane materials for Microbial Fuel Cell based sensors. <i>Electrochimica Acta</i> , 2017, 231, 319-326.	5.2	81
25	Electrochemical removal of microalgae with an integrated electrolysis-microbial fuel cell closed-loop system. <i>Separation and Purification Technology</i> , 2017, 183, 373-381.	7.9	14
26	Semiconductor technology in protein kinase research and drug discovery: sensing a revolution. <i>Drug Discovery Today</i> , 2017, 22, 204-209.	6.4	4
27	Towards timely Alzheimer diagnosis: A self-powered amperometric biosensor for the neurotransmitter acetylcholine. <i>Biosensors and Bioelectronics</i> , 2017, 87, 607-614.	10.1	88
28	Towards effective small scale microbial fuel cells for energy generation from urine. <i>Electrochimica Acta</i> , 2016, 192, 89-98.	5.2	120
29	Generating power from transdermal extracts using a multi-electrode miniature enzymatic fuel cell. <i>Biosensors and Bioelectronics</i> , 2016, 78, 411-417.	10.1	23
30	Water Quality Monitoring in Developing Countries; Can Microbial Fuel Cells be the Answer?. <i>Biosensors</i> , 2015, 5, 450-470.	4.7	113
31	Continuous power generation from glucose with two different miniature flow-through enzymatic biofuel cells. <i>Biosensors and Bioelectronics</i> , 2015, 69, 199-205.	10.1	50
32	Plasmonic ruler on field-effect devices for kinase drug discovery applications. <i>Biosensors and Bioelectronics</i> , 2015, 71, 121-128.	10.1	23
33	Protein phosphorylation detection using dual-mode field-effect devices and nanoplasmonic sensors. <i>Scientific Reports</i> , 2015, 5, 8687.	3.3	32
34	Glucose Oxidase Directly Immobilized onto Highly Porous Gold Electrodes for Sensing and Fuel Cell applications. <i>Electrochimica Acta</i> , 2014, 138, 86-92.	5.2	77
35	A small-scale air-cathode microbial fuel cell for on-line monitoring of water quality. <i>Biosensors and Bioelectronics</i> , 2014, 62, 182-188.	10.1	196
36	Protein phosphorylation analysis based on proton release detection: Potential tools for drug discovery. <i>Biosensors and Bioelectronics</i> , 2014, 54, 109-114.	10.1	30

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37	Electrodeposited highly porous gold microelectrodes for the direct electrocatalytic oxidation of aqueous glucose. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 725-729.	7.8	48
38	A Bioartificial Renal Tubule Device Embedding Human Renal Stem/Progenitor Cells. <i>PLoS ONE</i> , 2014, 9, e87496.	2.5	69
39	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.	2.5	32
40	A single-chamber microbial fuel cell as a biosensor for wastewaters. <i>Water Research</i> , 2009, 43, 3145-3154.	11.3	236
41	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.	5.1	27
42	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.	3.1	44