

# Emanuele L Sciuto

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

451  
citations

686830

13  
h-index

713013

21  
g-index

32  
all docs

32  
docs citations

32  
times ranked

374  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon Dots: An Innovative Tool for Drug Delivery in Brain Tumors. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11783.	1.8	54
2	A novel miniaturized biofilter based on silicon micropillars for nucleic acid extraction. <i>Analyst, The</i> , 2017, 142, 140-146.	1.7	45
3	An innovative chemical strategy for PCR-free genetic detection of pathogens by an integrated electrochemical biosensor. <i>Analyst, The</i> , 2017, 142, 2090-2093.	1.7	39
4	Si Photomultipliers for Bio-Sensing Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 335-341.	1.9	29
5	Miniaturized electrochemical biosensor based on whole cell for heavy metal ions detection in water. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1456-1465.	1.7	27
6	Functionalization of Bulk SiO <sub>2</sub> Surface with Biomolecules for Sensing Applications: Structural and Functional Characterizations. <i>Chemosensors</i> , 2018, 6, 59.	1.8	26
7	Photo-physical characterization of fluorophore Ru(bpy) <sub>3</sub> <sup>2+</sup> for optical biosensing applications. <i>Sensing and Bio-Sensing Research</i> , 2015, 6, 67-71.	2.2	23
8	An integrated biosensor platform for extraction and detection of nucleic acids. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1554-1561.	1.7	22
9	Environmental Management of Legionella in Domestic Water Systems: Consolidated and Innovative Approaches for Disinfection Methods and Risk Assessment. <i>Microorganisms</i> , 2021, 9, 577.	1.6	21
10	Silicon nitride surfaces as active substrate for electrical DNA biosensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 492-502.	4.0	18
11	SiPM as miniaturised optical biosensor for DNA-microarray applications. <i>Sensing and Bio-Sensing Research</i> , 2015, 6, 95-98.	2.2	17
12	Biosensors in Monitoring Water Quality and Safety: An Example of a Miniaturizable Whole-Cell Based Sensor for Hg <sup>2+</sup> Optical Detection in Water. <i>Water (Switzerland)</i> , 2019, 11, 1986.	1.2	17
13	Miniaturized and multi-purpose electrochemical sensing device based on thin Ni oxides. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 10-19.	4.0	16
14	Physicochemical Characterization and Antibacterial Properties of Carbon Dots from Two Mediterranean Olive Solid Waste Cultivars. <i>Nanomaterials</i> , 2022, 12, 885.	1.9	14
15	Ultrasensitive PCR-Free detection of whole virus genome by electrochemiluminescence. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114165.	5.3	12
16	Antimicrobial s-PBC Coatings for Innovative Multifunctional Water Filters. <i>Molecules</i> , 2020, 25, 5196.	1.7	11
17	Nucleic Acids Analytical Methods for Viral Infection Diagnosis: State-of-the-Art and Future Perspectives. <i>Biomolecules</i> , 2021, 11, 1585.	1.8	11
18	Development of Si-based electrical biosensors: Simulations and first experimental results. <i>Sensing and Bio-Sensing Research</i> , 2015, 6, 72-78.	2.2	10

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19	Innovative Antibiofilm Smart Surface against Legionella for Water Systems. <i>Microorganisms</i> , 2022, 10, 870.	1.6	8
20	Study of a Miniaturizable System for Optical Sensing Application to Human Cells. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 975.	1.3	7
21	Sulfide Species Optical Monitoring by a Miniaturized Silicon Photomultiplier. <i>Sensors</i> , 2018, 18, 727.	2.1	6
22	Molecular Fingerprinting of the Omicron Variant Genome of SARS-CoV-2 by SERS Spectroscopy. <i>Nanomaterials</i> , 2022, 12, 2134.	1.9	5
23	CY5 fluorescence measured with silicon photomultipliers. , 2014, , .		4
24	Silicon photomultipliers applications to biosensors. , 2014, , .		4
25	The MC1R single nucleotide polymorphisms identification by DNA-microarray on miniaturized silicon chip. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130514.	4.0	4
26	A Miniaturized Microbe-Silicon-Chip Based on Bioluminescent Engineered Escherichia coli for the Evaluation of Water Quality and Safety. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7580.	1.2	1
27	Miniaturized electrochemical cells for sensing applications: Silicon device containing three planar microelectrodes for electrochemical sensing. , 2017, , .		0
28	Electrochemical biosensor for PCR free nucleic acids detection: A novel biosensor containing three planar microelectrodes for melocular diagnostic applications. , 2017, , .		0
29	An Innovative Optical Chem-Sensor Based on a Silicon Photomultipliers for the Sulfide Monitoring. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 75-81.	0.3	0
30	Nickel Based Biosensor for Biomolecules Recognition. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 105-109.	0.3	0
31	A Novel Lab-on-Disk System for Pathogen Nucleic Acids Analysis in Infectious Diseases. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 117-124.	0.3	0
32	Innovative Lab-on-Disk Technology for Rapid and Integrated Analysis of Pathogen Nucleic Acids. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 215-220.	0.3	0