

Michele Di Lauro

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

706
citations

567144

15
h-index

552653

26
g-index

28
all docs

28
docs citations

28
times ranked

852
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrolyte-gated organic synapse transistor interfaced with neurons. <i>Organic Electronics</i> , 2016, 38, 21-28.	1.4	69
2	EGOFET Peptide Aptasensor for Label-Free Detection of Inflammatory Cytokines in Complex Fluids. <i>Advanced Biology</i> , 2018, 2, 1700072.	3.0	63
3	Biorecognition in Organic Field Effect Transistors Biosensors: The Role of the Density of States of the Organic Semiconductor. <i>Analytical Chemistry</i> , 2016, 88, 12330-12338.	3.2	58
4	Label free detection of plant viruses with organic transistor biosensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 150-156.	4.0	55
5	Electrodeposited PEDOT:Nafion Composite for Neural Recording and Stimulation. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900765.	3.9	51
6	Label-free detection of interleukin-6 using electrolyte gated organic field effect transistors. <i>Biointerphases</i> , 2017, 12, 05F401.	0.6	46
7	Label free urea biosensor based on organic electrochemical transistors. <i>Flexible and Printed Electronics</i> , 2018, 3, 024001.	1.5	43
8	Scaling of capacitance of PEDOT:PSS: volume vs. area. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11252-11262.	2.7	42
9	Specific Dopamine Sensing Based on Short-Term Plasticity Behavior of a Whole Organic Artificial Synapse. <i>ACS Sensors</i> , 2017, 2, 1756-1760.	4.0	35
10	Harnessing Selectivity and Sensitivity in Electronic Biosensing: A Novel Lab-on-Chip Multigate Organic Transistor. <i>Analytical Chemistry</i> , 2020, 92, 9330-9337.	3.2	33
11	Poly(3,4-ethylenedioxythiophene)-Based Neural Interfaces for Recording and Stimulation: Fundamental Aspects and In Vivo Applications. <i>Advanced Science</i> , 2022, 9, e2104701.	5.6	32
12	Liquid-Gated Organic Electronic Devices Based on High-Performance Solution-Processed Molecular Semiconductor. <i>Advanced Electronic Materials</i> , 2017, 3, 1700159.	2.6	28
13	Neuromorphic Organic Devices that Specifically Discriminate Dopamine from Its Metabolites by Nonspecific Interactions. <i>Advanced Functional Materials</i> , 2020, 30, 2002141.	7.8	21
14	A Bacterial Photosynthetic Enzymatic Unit Modulating Organic Transistors with Light. <i>Advanced Electronic Materials</i> , 2020, 6, 1900888.	2.6	19
15	The Substrate is a pH-Controlled Second Gate of Electrolyte-Gated Organic Field-Effect Transistor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31783-31790.	4.0	17
16	Tunable Short-Term Plasticity Response in Three-Terminal Organic Neuromorphic Devices. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1849-1854.	2.0	16
17	Water-Based PEDOT:Nafion Dispersion for Organic Bioelectronics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29807-29817.	4.0	13
18	Tribological response of laser-textured steel pins with low-dimensional micrometric patterns. <i>Tribology International</i> , 2020, 149, 105548.	3.0	9

#	ARTICLE	IF	CITATIONS
19	Electrowetting of Nitro-Functionalized Oligoarylene Thiols Self-Assembled on Polycrystalline Gold. ACS Applied Materials & Interfaces, 2015, 7, 3902-3909.	4.0	8
20	Whole organic electronic synapses for dopamine detection. , 2016, , .		8
21	Photophysical Characterization and Recognition Behaviour of a Bis(dansylated) Polyoxometalate. European Journal of Inorganic Chemistry, 2016, 2016, 3405-3410.	1.0	7
22	A Novel Biasing Scheme of Electrolyte-Gated Organic Transistors for Safe In Vivo Amplification of Electrophysiological Signals. Advanced Materials Interfaces, 2022, 9, .	1.9	7
23	Photovoltage generation in enzymatic bio-hybrid architectures. MRS Advances, 2020, 5, 985-990.	0.5	6
24	Flexible Neural Interfaces Based on 3D PEDOT:PSS Micropillar Arrays. Advanced Materials Interfaces, 2022, 9, .	1.9	6
25	Exploiting interfacial phenomena in organic bioelectronics: Conformable devices for bidirectional communication with living systems. Colloids and Surfaces B: Biointerfaces, 2018, 168, 143-147.	2.5	5
26	Implantable Organic Artificial Synapses Exhibiting Crossover between Depressive and Facilitative Plasticity Response. Advanced Electronic Materials, 0, , 2100755.	2.6	5
27	Accurate ro-vibrational rest frequencies of DC4H at infrared and millimetre wavelengths. Astronomy and Astrophysics, 2013, 549, A38.	2.1	2
28	Neuromorphic Organic Devices: Neuromorphic Organic Devices that Specifically Discriminate Dopamine from Its Metabolites by Nonspecific Interactions (Adv. Funct. Mater. 28/2020). Advanced Functional Materials, 2020, 30, 2070187.	7.8	2