

Mariateresa Tedesco

List of Publications by Year in descending order

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28
papers

1,633
citations

516710

16
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677142

22
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28
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28
docs citations

28
times ranked

2233
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Inhibitory Connections Modulate the Electrophysiological Activity Patterns of Cortical-Hippocampal Ensembles. <i>Cerebral Cortex</i> , 2022, 32, 1866-1881.	2.9	18
2	AFM and Fluorescence Microscopy of Single Cells with Simultaneous Mechanical Stimulation via Electrically Stretchable Substrates. <i>Materials</i> , 2021, 14, 4131.	2.9	10
3	Three-dimensionality shapes the dynamics of cortical interconnected to hippocampal networks. <i>Journal of Neural Engineering</i> , 2020, 17, 056044.	3.5	14
4	Three-Dimensional Microelectrodes Array Based on Vertically Stacked Beads For Mapping Neurons's Electrophysiological Activity. , 2019, , .		7
5	A Neuromorphic Prosthesis to Restore Communication in Neuronal Networks. <i>IScience</i> , 2019, 19, 402-414.	4.1	48
6	From MEAs to MOAs: The Next Generation of Bioelectronic Interfaces for Neuronal Cultures. <i>Advances in Neurobiology</i> , 2019, 22, 155-167.	1.8	0
7	Exosomes From Astrocyte Processes: Signaling to Neurons. <i>Frontiers in Pharmacology</i> , 2019, 10, 1452.	3.5	84
8	Simultaneous AFM Investigation of the Single Cardiomyocyte Electro-Chemo-Mechanics During Excitation-Contraction Coupling. <i>Methods in Molecular Biology</i> , 2019, 1886, 355-367.	0.9	1
9	Acoustic stimulation can induce a selective neural network response mediated by piezoelectric nanoparticles. <i>Journal of Neural Engineering</i> , 2018, 15, 036016.	3.5	38
10	CL316,243, a β_2 -adrenergic receptor agonist, induces muscle hypertrophy and increased strength. <i>Scientific Reports</i> , 2016, 6, 37504.	3.3	16
11	Interfacing 3D Engineered Neuronal Cultures to Micro-Electrode Arrays: An Innovative <i>In Vitro</i> Experimental Model. <i>Journal of Visualized Experiments</i> , 2015, , e53080.	0.3	12
12	3D engineered neural networks coupled to Micro-Electrode based devices: a new experimental model for neurophysiological applications. , 2015, , .		1
13	Network dynamics of 3D engineered neuronal cultures: a new experimental model for in-vitro electrophysiology. <i>Scientific Reports</i> , 2014, 4, 5489.	3.3	153
14	In vitro homogeneous and heterogeneous interconnected neuronal cultures: Exploring expressed dynamics and functional connectivity. , 2013, , .		0
15	In vitro large-scale experimental and theoretical studies for the realization of bi-directional brain-prostheses. <i>Frontiers in Neural Circuits</i> , 2013, 7, 40.	2.8	72
16	Multiscale functional connectivity estimation on low-density neuronal cultures recorded by high-density CMOS Micro Electrode Arrays. <i>Journal of Neuroscience Methods</i> , 2012, 207, 161-171.	2.5	60
17	Cortical cultures coupled to Micro-Electrode Arrays: A novel approach to perform in vitro excitotoxicity testing. <i>Neurotoxicology and Teratology</i> , 2012, 34, 116-127.	2.4	93
18	A new integrated system combining atomic force microscopy and micro-electrode array for measuring the mechanical properties of living cardiac myocytes. <i>Biomedical Microdevices</i> , 2011, 13, 613-621.	2.8	31

#	ARTICLE	IF	CITATIONS
19	The Growth Cones of Living Neurons Probed by the Atomic Force Microscope. <i>Methods in Molecular Biology</i> , 2011, 736, 243-257.	0.9	4
20	A Novel AFM-MEA Platform for Studying the Real Time Mechano-Electrical Behavior of Cardiac Myocytes. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1261, 40901.	0.1	0
21	Experimental investigation on spontaneously active hippocampal cultures recorded by means of high-density MEAs: analysis of the spatial resolution effects. <i>Frontiers in Neuroengineering</i> , 2010, 3, 4.	4.8	34
22	Opposite Changes in Glutamatergic and GABAergic Transmission Underlie the Diffuse Hyperexcitability of Synapsin I Deficient Cortical Networks. <i>Cerebral Cortex</i> , 2009, 19, 1422-1439.	2.9	106
23	Active pixel sensor array for high spatio-temporal resolution electrophysiological recordings from single cell to large scale neuronal networks. <i>Lab on A Chip</i> , 2009, 9, 2644.	6.0	300
24	An automated microdrop delivery system for neuronal network patterning on microelectrode arrays. <i>Journal of Neuroscience Methods</i> , 2007, 161, 88-95.	2.5	35
25	Dissociated cortical networks show spontaneously correlated activity patterns during in vitro development. <i>Brain Research</i> , 2006, 1093, 41-53.	2.2	346
26	Imaging and elasticity measurements of the sarcolemma of fully differentiated skeletal muscle fibres. <i>Microscopy Research and Technique</i> , 2005, 67, 27-35.	2.2	53
27	A simple microfluidic system for patterning populations of neurons on silicon micromachined substrates. <i>Journal of Neuroscience Methods</i> , 1999, 87, 35-44.	2.5	55
28	Mechanical and morphological properties of living 3T6 cells probed via scanning force microscopy. , 1997, 36, 165-171.		42