

# Mariateresa Tedesco

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,633  
citations

516710

16  
h-index

677142

22  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2233  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissociated cortical networks show spontaneously correlated activity patterns during in vitro development. <i>Brain Research</i> , 2006, 1093, 41-53.	2.2	346
2	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
3	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
4	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
5	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
6	Exosomes From Astrocyte Processes: Signaling to Neurons. <i>Frontiers in Pharmacology</i> , 2019, 10, 1452.	3.5	84
7	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
8	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
9	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
10	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
11	A Neuromorphic Prosthesis to Restore Communication in Neuronal Networks. <i>IScience</i> , 2019, 19, 402-414.	4.1	48
12	Mechanical and morphological properties of living 3T6 cells probed via scanning force microscopy. , 1997, 36, 165-171.		42
13	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
14	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
15	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
16	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
17	Functional Inhibitory Connections Modulate the Electrophysiological Activity Patterns of Cortical-Hippocampal Ensembles. <i>Cerebral Cortex</i> , 2022, 32, 1866-1881.	2.9	18
18	CL316,243, a $\beta_2$ -adrenergic receptor agonist, induces muscle hypertrophy and increased strength. <i>Scientific Reports</i> , 2016, 6, 37504.	3.3	16

#	ARTICLE	IF	CITATIONS
19	Three-dimensionality shapes the dynamics of cortical interconnected to hippocampal networks. Journal of Neural Engineering, 2020, 17, 056044.	3.5	14
20	Interfacing 3D Engineered Neuronal Cultures to Micro-Electrode Arrays: An Innovative <em>In Vitro</em> Experimental Model. Journal of Visualized Experiments, 2015, , e53080.	0.3	12
21	AFM and Fluorescence Microscopy of Single Cells with Simultaneous Mechanical Stimulation via Electrically Stretchable Substrates. Materials, 2021, 14, 4131.	2.9	10
22	Three-Dimensional Microelectrodes Array Based on Vertically Stacked Beads For Mapping Neuronsâ€™ Electrophysiological Activity. , 2019, , .		7
23	The Growth Cones of Living Neurons Probed by the Atomic Force Microscope. Methods in Molecular Biology, 2011, 736, 243-257.	0.9	4
24	3D engineered neural networks coupled to Micro-Electrode based devices: a new experimental model for neurophysiological applications. , 2015, , .		1
25	Simultaneous AFM Investigation of the Single Cardiomyocyte Electro-Chemo-Mechanics During Excitation-Contraction Coupling. Methods in Molecular Biology, 2019, 1886, 355-367.	0.9	1
26	A Novel AFM-MEA Platform for Studying the Real Time Mechano-Electrical Behavior of Cardiac Myocytes. Materials Research Society Symposia Proceedings, 2010, 1261, 40901.	0.1	0
27	In vitro homogeneous and heterogeneous interconnected neuronal cultures: Exploring expressed dynamics and functional connectivity. , 2013, , .		0
28	From MEAs to MOAs: The Next Generation of Bioelectronic Interfaces for Neuronal Cultures. Advances in Neurobiology, 2019, 22, 155-167.	1.8	0