

Denis Scaini

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,952
citations

218381

26
h-index

174990

52
g-index

52
all docs

52
docs citations

52
times ranked

5279
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanotubes might improve neuronal performance by favouring electrical shortcuts. <i>Nature Nanotechnology</i> , 2009, 4, 126-133.	15.6	473
2	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. <i>ACS Nano</i> , 2018, 12, 10582-10620.	7.3	438
3	Graphene-Based Interfaces Do Not Alter Target Nerve Cells. <i>ACS Nano</i> , 2016, 10, 615-623.	7.3	208
4	Graphene Oxide Nanosheets Reshape Synaptic Function in Cultured Brain Networks. <i>ACS Nano</i> , 2016, 10, 4459-4471.	7.3	133
5	Spinal Cord Explants Use Carbon Nanotube Interfaces To Enhance Neurite Outgrowth and To Fortify Synaptic Inputs. <i>ACS Nano</i> , 2012, 6, 2041-2055.	7.3	127
6	From 2D to 3D: novel nanostructured scaffolds to investigate signalling in reconstructed neuronal networks. <i>Scientific Reports</i> , 2015, 5, 9562.	1.6	125
7	Single-layer graphene modulates neuronal communication and augments membrane ion currents. <i>Nature Nanotechnology</i> , 2018, 13, 755-764.	15.6	120
8	$\hat{\pm}$ -Synuclein Amyloids Hijack Prion Protein to Gain Cell Entry, Facilitate Cell-to-Cell Spreading and Block Prion Replication. <i>Scientific Reports</i> , 2017, 7, 10050.	1.6	105
9	Mechanical cues control mutant p53 stability through a mevalonate $\hat{\pm}$ RhoA axis. <i>Nature Cell Biology</i> , 2018, 20, 28-35.	4.6	104
10	3D meshes of carbon nanotubes guide functional reconnection of segregated spinal explants. <i>Science Advances</i> , 2016, 2, e1600087.	4.7	84
11	Quantitative Study of the Effect of Coverage on the Hybridization Efficiency of Surface-Bound DNA Nanostructures. <i>Nano Letters</i> , 2008, 8, 4134-4139.	4.5	64
12	Carbon Nanotube Scaffolds Instruct Human Dendritic Cells: Modulating Immune Responses by Contacts at the Nanoscale. <i>Nano Letters</i> , 2013, 13, 6098-6105.	4.5	54
13	Adhesion to Carbon Nanotube Conductive Scaffolds Forces Action-Potential Appearance in Immature Rat Spinal Neurons. <i>PLoS ONE</i> , 2013, 8, e73621.	1.1	53
14	Mutant p53 induces Golgi tubulo-vesiculation driving a prometastatic secretome. <i>Nature Communications</i> , 2020, 11, 3945.	5.8	52
15	Nanomaterials at the neural interface. <i>Current Opinion in Neurobiology</i> , 2018, 50, 50-55.	2.0	49
16	Advances in Nano Neuroscience: From Nanomaterials to Nanotools. <i>Frontiers in Neuroscience</i> , 2018, 12, 953.	1.4	46
17	PEDOT:PSS Interfaces Support the Development of Neuronal Synaptic Networks with Reduced Neuroglia Response In vitro. <i>Frontiers in Neuroscience</i> , 2015, 9, 521.	1.4	45
18	Enzyme-catalyzed functionalization of poly(L-lactic acid) for drug delivery applications. <i>Process Biochemistry</i> , 2017, 59, 77-83.	1.8	42

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19	BDNF impact on synaptic dynamics: extra or intracellular long-term release differently regulates cultured hippocampal synapses. <i>Molecular Brain</i> , 2020, 13, 43.	1.3	42
20	Primate cathelicidin orthologues display different structures and membrane interactions. <i>Biochemical Journal</i> , 2009, 417, 727-735.	1.7	40
21	Cellobiose dehydrogenase functionalized urinary catheter as novel antibiofilm system. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1448-1456.	1.6	34
22	Mapping mechanical properties of living cells at nanoscale using intrinsic nanopipette sample force interactions. <i>Nanoscale</i> , 2021, 13, 6558-6568.	2.8	33
23	Activation of human aortic valve interstitial cells by local stiffness involves YAP-dependent transcriptional signaling. <i>Biomaterials</i> , 2018, 181, 268-279.	5.7	31
24	Exploiting natural polysaccharides to enhance in vitro bio-constructs of primary neurons and progenitor cells. <i>Acta Biomaterialia</i> , 2018, 73, 285-301.	4.1	28
25	Sculpting neurotransmission during synaptic development by 2D nanostructured interfaces. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2521-2532.	1.7	28
26	Electron Transfer Mediating Properties of Hydrocarbons as a Function of Chain Length: A Differential Scanning Conductive Tip Atomic Force Microscopy Investigation. <i>ACS Nano</i> , 2008, 2, 507-515.	7.3	27
27	Enzymatic Functionalization of HMLS-Polyethylene Terephthalate Fabrics Improves the Adhesion to Rubber. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6456-6465.	3.2	27
28	Nanostructures to Engineer 3D Neural Interfaces: Directing Axonal Navigation toward Successful Bridging of Spinal Segments. <i>Advanced Functional Materials</i> , 2018, 28, 1700550.	7.8	26
29	Quantification of Circulating Cancer Biomarkers via Sensitive Topographic Measurements on Single Binder Nanoarrays. <i>ACS Omega</i> , 2017, 2, 2618-2629.	1.6	23
30	Carbon Nanotubes, Directly Grown on Supporting Surfaces, Improve Neuronal Activity in Hippocampal Neuronal Networks. <i>Advanced Biology</i> , 2019, 3, e1800286.	3.0	23
31	Functional rewiring across spinal injuries via biomimetic nanofiber scaffolds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25212-25218.	3.3	23
32	Oriented Immobilization of Prion Protein Demonstrated via Precise Interfacial Nanostructure Measurements. <i>ACS Nano</i> , 2010, 4, 6607-6616.	7.3	21
33	Graphene-Based Nanomaterials for Neuroengineering: Recent Advances and Future Prospective. <i>Advanced Functional Materials</i> , 2021, 31, 2104887.	7.8	21
34	Interfacing Neurons with Nanostructured Electrodes Modulates Synaptic Circuit Features. <i>Advanced Biology</i> , 2020, 4, e2000117.	3.0	17
35	Prion Protein Interaction with Soil Humic Substances: Environmental Implications. <i>PLoS ONE</i> , 2014, 9, e100016.	1.1	16
36	Iron-mediated interaction of alpha synuclein with lipid raft model membranes. <i>Nanoscale</i> , 2020, 12, 7631-7640.	2.8	16

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37	Synthetic prions and other human neurodegenerative proteinopathies. <i>Virus Research</i> , 2015, 207, 25-37.	1.1	15
38	Transparent carbon nanotubes promote the outgrowth of entorhinal dentate projections in lesioned organ slice cultures. <i>Developmental Neurobiology</i> , 2020, 80, 316-331.	1.5	15
39	Short-term angiotensin II treatment regulates cardiac nanomechanics via microtubule modifications. <i>Nanoscale</i> , 2020, 12, 16315-16329.	2.8	15
40	Myoblast Adhesion, Proliferation and Differentiation on Human Elastin-Like Polypeptide (HELP) Hydrogels. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017, 15, 43-53.	0.7	14
41	In vitro myogenesis induced by human recombinant elastin-like proteins. <i>Biomaterials</i> , 2015, 67, 240-253.	5.7	13
42	Polystyrene Nanopillars with Inbuilt Carbon Nanotubes Enable Synaptic Modulation and Stimulation in Interfaced Neuronal Networks. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002121.	1.9	13
43	Tuning Neuronal Circuit Formation in 3D Polymeric Scaffolds by Introducing Graphene at the Bio/Material Interface. <i>Advanced Biology</i> , 2020, 4, 1900233.	3.0	12
44	Atomic force microscopy based nanoassay: a new method to study α -Synuclein-dopamine bioaffinity interactions. <i>Scientific Reports</i> , 2014, 4, 5366.	1.6	10
45	The mechanisms of humic substances self-assembly with biological molecules: The case study of the prion protein. <i>PLoS ONE</i> , 2017, 12, e0188308.	1.1	10
46	Mechanical Stabilization Effect of Water on a Membrane-like System. <i>Journal of the American Chemical Society</i> , 2007, 129, 2636-2641.	6.6	9
47	Biofilms produced by <i>Burkholderia cenocepacia</i> : influence of media and solid supports on composition of matrix exopolysaccharides. <i>Microbiology (United Kingdom)</i> , 2016, 162, 283-294.	0.7	8
48	Hybrid Interfaces Made of Nanotubes and Backbone-Altered Dipeptides Tune Neuronal Network Architecture. <i>ACS Chemical Neuroscience</i> , 2020, 11, 162-172.	1.7	5
49	The Atomic Force Microscopy as a Lithographic Tool: Nanografting of DNA Nanostructures for Biosensing Applications. <i>Methods in Molecular Biology</i> , 2011, 749, 209-221.	0.4	5
50	Carbon Nanotubes Substrates Alleviate Pro-Calcific Evolution in Porcine Valve Interstitial Cells. <i>Nanomaterials</i> , 2021, 11, 2724.	1.9	5
51	Bidirectional Modulation of Neuronal Cells Electrical and Mechanical Properties Through Pristine and Functionalized Graphene Substrates. <i>Frontiers in Neuroscience</i> , 2021, 15, 811348.	1.4	3
52	Substrate roughness influence on the order of nanografted Self-Assembled Monolayers. <i>Chemical Physics Letters</i> , 2022, 803, 139819.	1.2	2