Denis Scaini

List of Publications by Year
in descending order

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	Substrate roughness influence on the order of nanografted Self-Assembled Monolayers. Chemical Physics Letters, 2022, 803, 139819.	1.2	2
2	Mapping mechanical properties of living cells at nanoscale using intrinsic nanopipetteâ€“sample force interactions. Nanoscale, 2021, 13, 6558-6568.	2.8	33
3	Polystyrene Nanopillars with Inbuilt Carbon Nanotubes Enable Synaptic Modulation and Stimulation in Interfaced Neuronal Networks. Advanced Materials Interfaces, 2021, 8, 2002121.	1.9	13
4	Grapheneâ€Based Nanomaterials for Neuroengineering: Recent Advances and Future Prospective. Advanced Functional Materials, 2021, 31, 2104887.	7.8	21
5	Carbon Nanotubes Substrates Alleviate Pro-Calcific Evolution in Porcine Valve Interstitial Cells. Nanomaterials, 2021, 11, 2724.	1.9	5
6	Bidirectional Modulation of Neuronal Cells Electrical and Mechanical Properties Through Pristine and Functionalized Graphene Substrates. Frontiers in Neuroscience, 2021, 15, 811348.	1.4	3
7	Transparent carbon nanotubes promote the outgrowth of enthorinoâ€dentate projections in lesioned organ slice cultures. Developmental Neurobiology, 2020, 80, 316-331.	1.5	15
8	Hybrid Interfaces Made of Nanotubes and Backbone-Altered Dipeptides Tune Neuronal Network Architecture. ACS Chemical Neuroscience, 2020, 11, 162-172.	1.7	5
9	Mutant p53 induces Golgi tubulo-vesiculation driving a prometastatic secretome. Nature Communications, 2020, 11, 3945.	5.8	52
10	Short-term angiotensin II treatment regulates cardiac nanomechanicsviamicrotubule modifications. Nanoscale, 2020, 12, 16315-16329.	2.8	15
11	Interfacing Neurons with Nanostructured Electrodes Modulates Synaptic Circuit Features. Advanced Biology, 2020, 4, e2000117.	3.0	17
12	BDNF impact on synaptic dynamics: extra or intracellular long-term release differently regulates cultured hippocampal synapses. Molecular Brain, 2020, 13, 43.	1.3	42
13	Tuning Neuronal Circuit Formation in 3D Polymeric Scaffolds by Introducing Graphene at the Bio/Material Interface. Advanced Biology, 2020, 4, 1900233.	3.0	12
14	Iron-mediated interaction of alpha synuclein with lipid raft model membranes. Nanoscale, 2020, 12, 7631-7640.	2.8	16
15	Functional rewiring across spinal injuries via biomimetic nanofiber scaffolds. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25212-25218.	3.3	23
16	Carbon Nanotubes, Directly Grown on Supporting Surfaces, Improve Neuronal Activity in Hippocampal Neuronal Networks. Advanced Biology, 2019, 3, e1800286.	3.0	23
17	Exploiting natural polysaccharides to enhance in vitro bio-constructs of primary neurons and progenitor cells. Acta Biomaterialia, 2018, 73, 285-301.	4.1	28
18	Nanomaterials at the neural interface. Current Opinion in Neurobiology, 2018, 50, 50-55.	2.0	49

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19	Mechanical cues control mutant p53 stability through a mevalonateâ€“RhoA axis. Nature Cell Biology, 2018, 20, 28-35.	4.6	104
20	Nanostructures to Engineer 3D Neuralâ€Interfaces: Directing Axonal Navigation toward Successful Bridging of Spinal Segments. Advanced Functional Materials, 2018, 28, 1700550.	7.8	26
21	Sculpting neurotransmission during synaptic development by 2D nanostructured interfaces. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2521-2532.	1.7	28
22	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. ACS Nano, 2018, 12, 10582-10620.	7.3	438
23	Activation of human aortic valve interstitial cells by local stiffness involves YAP-dependent transcriptional signaling. Biomaterials, 2018, 181, 268-279.	5.7	31
24	Single-layer graphene modulates neuronal communication and augments membrane ion currents. Nature Nanotechnology, 2018, 13, 755-764.	15.6	120
25	Advances in Nano Neuroscience: From Nanomaterials to Nanotools. Frontiers in Neuroscience, 2018, 12, 953.	1.4	46
26	Quantification of Circulating Cancer Biomarkers via Sensitive Topographic Measurements on Single Binder Nanoarrays. ACS Omega, 2017, 2, 2618-2629.	1.6	23
27	Î±-Synuclein Amyloids Hijack Prion Protein to Gain Cell Entry, Facilitate Cell-to-Cell Spreading and Block Prion Replication. Scientific Reports, 2017, 7, 10050.	1.6	105
28	Enzymatic Functionalization of HMLS-Polyethylene Terephthalate Fabrics Improves the Adhesion to Rubber. ACS Sustainable Chemistry and Engineering, 2017, 5, 6456-6465.	3.2	27
29	Enzyme-catalyzed functionalization of poly(L-lactic acid) for drug delivery applications. Process Biochemistry, 2017, 59, 77-83.	1.8	42
30	Myoblast Adhesion, Proliferation and Differentiation on Human Elastin-Like Polypeptide (HELP) Hydrogels. Journal of Applied Biomaterials and Functional Materials, 2017, 15, 43-53.	0.7	14
31	The mechanisms of humic substances self-assembly with biological molecules: The case study of the prion protein. PLoS ONE, 2017, 12, e0188308.	1.1	10
32	Cellobiose dehydrogenase functionalized urinary catheter as novel antibiofilm system. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1448-1456.	1.6	34
33	Graphene Oxide Nanosheets Reshape Synaptic Function in Cultured Brain Networks. ACS Nano, 2016, 10, 4459-4471.	7.3	133
34	3D meshes of carbon nanotubes guide functional reconnection of segregated spinal explants. Science Advances, 2016, 2, e1600087.	4.7	84
35	Graphene-Based Interfaces Do Not Alter Target Nerve Cells. ACS Nano, 2016, 10, 615-623.	7.3	208
36	Biofilms produced by Burkholderia cenocepacia: influence of media and solid supports on composition of matrix exopolysaccharides. Microbiology (United Kingdom), 2016, 162, 283-294.	0.7	8

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37	InÂvitro myogenesis induced by human recombinant elastin-like proteins. Biomaterials, 2015, 67, 240-253.	5.7	13
38	From 2D to 3D: novel nanostructured scaffolds to investigate signalling in reconstructed neuronal networks. Scientific Reports, 2015, 5, 9562.	1.6	125
39	Synthetic prions and other human neurodegenerative proteinopathies. Virus Research, 2015, 207, 25-37.	1.1	15
40	PEDOT:PSS Interfaces Support the Development of Neuronal Synaptic Networks with Reduced Neuroglia Response In vitro. Frontiers in Neuroscience, 2015, 9, 521.	1.4	45
41	Prion Protein Interaction with Soil Humic Substances: Environmental Implications. PLoS ONE, 2014, 9, e100016.	1.1	16
42	Atomic force microscopy based nanoassay: a new method to study Î±-Synuclein-dopamine bioaffinity interactions. Scientific Reports, 2014, 4, 5366.	1.6	10
43	Carbon Nanotube Scaffolds Instruct Human Dendritic Cells: Modulating Immune Responses by Contacts at the Nanoscale. Nano Letters, 2013, 13, 6098-6105.	4.5	54
44	Adhesion to Carbon Nanotube Conductive Scaffolds Forces Action-Potential Appearance in Immature Rat Spinal Neurons. PLoS ONE, 2013, 8, e73621.	1.1	53
45	Spinal Cord Explants Use Carbon Nanotube Interfaces To Enhance Neurite Outgrowth and To Fortify Synaptic Inputs. ACS Nano, 2012, 6, 2041-2055.	7.3	127
46	The Atomic Force Microscopy as a Lithographic Tool: Nanografting of DNA Nanostructures for Biosensing Applications. Methods in Molecular Biology, 2011, 749, 209-221.	0.4	5
47	Oriented Immobilization of Prion Protein DemonstratedviaPrecise Interfacial Nanostructure Measurements. ACS Nano, 2010, 4, 6607-6616.	7.3	21
48	Carbon nanotubes might improve neuronal performance by favouring electrical shortcuts. Nature Nanotechnology, 2009, 4, 126-133.	15.6	473
49	Primate cathelicidin orthologues display different structures and membrane interactions. Biochemical Journal, 2009, 417, 727-735.	1.7	40
50	Quantitative Study of the Effect of Coverage on the Hybridization Efficiency of Surface-Bound DNA Nanostructures. Nano Letters, 2008, 8, 4134-4139.	4.5	64
51	Electron Transfer Mediating Properties of Hydrocarbons as a Function of Chain Length: A Differential Scanning Conductive Tip Atomic Force Microscopy Investigation. ACS Nano, 2008, 2, 507-515.	7.3	27
52	Mechanical Stabilization Effect of Water on a Membrane-like System. Journal of the American Chemical Society, 2007, 129, 2636-2641.	6.6	9