Attilio Marino

List of Publications by Year
in descending order

64 papers	2,590 citations	147801 31 h-index	197818 49 g-index
64 all docs	64 docs citations	64 times ranked	3642 citing authors

#	Article	IF	Citations
1	Piezoelectric Nanoparticle-Assisted Wireless Neuronal Stimulation. ACS Nano, 2015, 9, 7678-7689.	14.6	236
2	P(VDFâ€TrFE)/BaTiO₃ Nanoparticle Composite Films Mediate Piezoelectric Stimulation and Promote Differentiation of SHâ€SY5Y Neuroblastoma Cells. Advanced Healthcare Materials, 2016, 5, 1808-1820.	7.6	129
3	Two-Photon Lithography of 3D Nanocomposite Piezoelectric Scaffolds for Cell Stimulation. ACS Applied Materials & Interfaces, 2015, 7, 25574-25579.	8.0	113
4	A 3D Realâ€Scale, Biomimetic, and Biohybrid Model of the Bloodâ€Brain Barrier Fabricated through Twoâ€Photon Lithography. Small, 2018, 14, 1702959.	10.0	104
5	Piezoelectric Nanomaterials Activated by Ultrasound: The Pathway from Discovery to Future Clinical Adoption. ACS Nano, 2021, 15, 11066-11086.	14.6	102
6	The Osteoprint: A bioinspired two-photon polymerized 3-D structure for the enhancement of bone-like cell differentiation. Acta Biomaterialia, 2014, 10, 4304-4313.	8.3	92
7	Two-Photon Polymerization of Sub-micrometric Patterned Surfaces: Investigation of Cell-Substrate Interactions and Improved Differentiation of Neuron-like Cells. ACS Applied Materials & Interfaces, 2013, 5, 13012-13021.	8.0	90
8	Piezoelectric Effects of Materials on Bio-Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 17663-17680.	8.0	87
9	Barium titanate nanoparticles: promising multitasking vectors in nanomedicine. Nanotechnology, 2016, 27, 232001.	2.6	78
10	Ultrasound-Activated Piezoelectric Nanoparticles Inhibit Proliferation of Breast Cancer Cells. Scientific Reports, 2018, 8, 6257.	3.3	78
11	Biomimicry at the nanoscale: current research and perspectives of two-photon polymerization. Nanoscale, 2015, 7, 2841-2850.	5.6	77
12	Piezoelectric nanotransducers: The future of neural stimulation. Nano Today, 2017, 14, 9-12.	11.9	76
13	Piezoelectric barium titanate nanostimulators for the treatment of glioblastoma multiforme. Journal of Colloid and Interface Science, 2019, 538, 449-461.	9.4	75
14	Gold Nanoshell-Mediated Remote Myotube Activation. ACS Nano, 2017, 11, 2494-2508.	14.6	69
15	Gelatin/nanoceria nanocomposite fibers as antioxidant scaffolds for neuronal regeneration. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 386-395.	2.4	69
16	Ultrasound-activated piezoelectric P(VDF-TrFE)/boron nitride nanotube composite films promote differentiation of human SaOS-2 osteoblast-like cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2421-2432.	3.3	69
17	Stimuli-responsive lipid-based magnetic nanovectors increase apoptosis in glioblastoma cells through synergic intracellular hyperthermia and chemotherapy. Nanoscale, 2019, 11, 72-88.	5.6	69
18	Homotypic targeting and drug delivery in glioblastoma cells through cell membrane-coated boron nitride nanotubes. Materials and Design, 2020, 192, 108742.	7.0	69

#	Article	IF	Citations
19	Polydopamine Nanoparticles as an Organic and Biodegradable Multitasking Tool for Neuroprotection and Remote Neuronal Stimulation. ACS Applied Materials & Interfaces, 2020, 12, 35782-35798.	8.0	58
20	Multifunctional temozolomide-loaded lipid superparamagnetic nanovectors: dual targeting and disintegration of glioblastoma spheroids by synergic chemotherapy and hyperthermia treatment. Nanoscale, 2019, 11, 21227-21248.	5.6	56
21	Antioxidants and Nanotechnology: Promises and Limits of Potentially Disruptive Approaches in the Treatment of Central Nervous System Diseases. Advanced Healthcare Materials, 2020, 9, e1901589.	7.6	50
22	Cerium oxide nanoparticles: the regenerative redox machine in bioenergetic imbalance. Nanomedicine, 2017, 12, 403-416.	3.3	49
23	Folate-grafted boron nitride nanotubes: Possible exploitation in cancer therapy. International Journal of Pharmaceutics, 2015, 481, 56-63.	5.2	48
24	Smart Materials Meet Multifunctional Biomedical Devices: Current and Prospective Implications for Nanomedicine. Frontiers in Bioengineering and Biotechnology, 2017, 5, 80.	4.1	43
25	Hybrid Magnetic Nanovectors Promote Selective Glioblastoma Cell Death through a Combined Effect of Lysosomal Membrane Permeabilization and Chemotherapy. ACS Applied Materials & Interfaces, 2020, 12, 29037-29055.	8.0	42
26	Acoustic stimulation can induce a selective neural network response mediated by piezoelectric nanoparticles. Journal of Neural Engineering, 2018, 15, 036016.	3.5	38
27	Ultrasound-responsive nutlin-loaded nanoparticles for combined chemotherapy and piezoelectric treatment of glioblastoma cells. Acta Biomaterialia, 2022, 139, 218-236.	8.3	37
28	Remote Control of Cellular Functions: The Role of Smart Nanomaterials in the Medicine of the Future. Advanced Healthcare Materials, 2017, 6, 1700002.	7.6	36
29	Cell Membraneâ€Coated Magnetic Nanocubes with a Homotypic Targeting Ability Increase Intracellular Temperature due to ROS Scavenging and Act as a Versatile Theranostic System for Glioblastoma Multiforme. Advanced Healthcare Materials, 2019, 8, e1900612.	7.6	36
30	Pectin-coated boron nitride nanotubes: In vitro cyto-/immune-compatibility on RAW 264.7 macrophages. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 775-784.	2.4	34
31	Barium titanate nanoparticles and hypergravity stimulation improve differentiation of mesenchymal stem cells into osteoblasts. International Journal of Nanomedicine, 2015, 10, 433.	6.7	32
32	A 3D Biohybrid Realâ€Scale Model of the Brain Cancer Microenvironment for Advanced In Vitro Testing. Advanced Materials Technologies, 2020, 5, 2000540.	5.8	31
33	Nanostructured Brownian Surfaces Prepared through Two-Photon Polymerization: Investigation of Stem Cell Response. ACS Nano, 2014, 8, 11869-11882.	14.6	27
34	In Vitro and Ex Vivo Investigation of the Effects of Polydopamine Nanoparticle Size on Their Antioxidant and Photothermal Properties: Implications for Biomedical Applications. ACS Applied Nano Materials, 2022, 5, 1702-1713.	5.0	26
35	Design, Fabrication, and In Vitro Evaluation of Nanoceria-Loaded Nanostructured Lipid Carriers for the Treatment of Neurological Diseases. ACS Biomaterials Science and Engineering, 2019, 5, 670-682.	5.2	25
36	Advanced Functional Materials and Cellâ€Based Therapies for the Treatment of Ischemic Stroke and Postischemic Stroke Effects. Advanced Functional Materials, 2020, 30, 1906283.	14.9	23

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37	Liposomes loaded with polyphenol-rich grape pomace extracts protect from neurodegeneration in a rotenone-based in vitro model of Parkinson's disease. Biomaterials Science, 2021, 9, 8171-8188.	5.4	18
38	Evaluation of the effects of boron nitride nanotubes functionalized with gum arabic on the differentiation of rat mesenchymal stem cells. RSC Advances, 2015, 5, 45431-45438.	3.6	17
39	A soft, stretchable and conductive biointerface for cell mechanobiology. Biomedical Microdevices, 2015, 17, 46.	2.8	17
40	Deterministic control of mean alignment and elongation of neuron-like cells by grating geometry: a computational approach. Integrative Biology (United Kingdom), 2015, 7, 1242-1252.	1.3	17
41	Hypergravity As a Tool for Cell Stimulation: Implications in Biomedicine. Frontiers in Astronomy and Space Sciences, 2016, 3, .	2.8	17
42	Topographical and Electrical Stimulation of Neuronal Cells through Microwrinkled Conducting Polymer Biointerfaces. Macromolecular Bioscience, 2017, 17, 1700128.	4.1	17
43	Modulation of gene expression in rat muscle cells following treatment with nanoceria in different gravity regimes. Nanomedicine, 2018, 13, 2821-2833.	3.3	14
44	Smart diagnostic nano-agents for cerebral ischemia. Journal of Materials Chemistry B, 2020, 8, 6233-6251.	5.8	10
45	In vitro study of polydopamine nanoparticles as protective antioxidant agents in fibroblasts derived from ARSACS patients. Biomaterials Science, 2022, 10, 3770-3792.	5.4	10
46	Combined Effects of Electrical Stimulation and Protein Coatings on Myotube Formation in a Soft Porous Scaffold. Annals of Biomedical Engineering, 2020, 48, 734-746.	2.5	9
47	A Tph2^{GFP} Reporter Stem Cell Line To Model in Vitro and in Vivo Serotonergic Neuron Development and Function. ACS Chemical Neuroscience, 2017, 8, 1043-1052.	3.5	8
48	Chlorophyll derivatives enhance invertebrate red-light and ultraviolet phototaxis. Scientific Reports, 2017, 7, 3374.	3.3	8
49	ADAM22/LGI1 complex as a new actionable target for breast cancer brain metastasis. BMC Medicine, 2020, 18, 349.	5.5	8
50	Modulation of anti-angiogenic activity using ultrasound-activated nutlin-loaded piezoelectric nanovectors. Materials Today Bio, 2022, 13, 100196.	5.5	8
51	Titanium dioxide nanotube arrays coated with laminin enhance C2C12 skeletal myoblast adhesion and differentiation. RSC Advances, 2016, 6, 18502-18514.	3.6	7
52	Probing the Ultrastructure of Spheroids and Their Uptake of Magnetic Nanoparticles by FIBâ€“SEM. Advanced Materials Technologies, 2020, 5, 1900687.	5.8	7
53	Porous Optically Transparent Cellulose Acetate Scaffolds for Biomimetic Blood-Brain Barrierin vitro Models. Frontiers in Bioengineering and Biotechnology, 2021, 9, 630063.	4.1	7
54	Evaluation of the therapeutic potential of resveratrol-loaded nanostructured lipid carriers on autosomal recessive spastic ataxia of Charlevoix-Saguenay patient-derived fibroblasts. Materials and Design, 2021, 209, 110012.	7.0	6

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55	Nanomaterial-Assisted Acoustic Neural Stimulation. , 2020, , 347-363.		4
56	Biomedicine: A 3D Realâ€Scale, Biomimetic, and Biohybrid Model of the Bloodâ€Brain Barrier Fabricated through Twoâ€Photon Lithography (Small 6/2018). Small, 2018, 14, 1870024.	10.0	3
57	Boron nitride nanotubes in nanomedicine: historical and future perspectives. , 2016, , 201-217.		2
58	Editorial: Advanced Theranostic Nanomedicine in Oncology. Frontiers in Bioengineering and Biotechnology, 2020, 8, 142.	4.1	2
59	Smart Inorganic Nanoparticles for Wireless Cell Stimulation. , 2018, , 189-198.		1
60	Neuronal Alignment and Outgrowth on Microwrinkled Conducting Polymer Substrates. Materials Research Society Symposia Proceedings, 2015, 1795, 13-18.	0.1	0
61	Modulation of cellular responses: The two-photon polymerization approach in the control of the physical micro/nanoenvironment. , 2015, 2015, 1865-8.		0
62	Assessment of the Effects of a Wireless Neural Stimulation Mediated by Piezoelectric Nanoparticles. Neuromethods, 2018, , 109-120.	0.3	0
63	Microfluidic Systems: A 3D Biohybrid Realâ€Scale Model of the Brain Cancer Microenvironment for Advanced In Vitro Testing (Adv. Mater. Technol. 10/2020). Advanced Materials Technologies, 2020, 5, 2070063.	5.8	0
64	Biointerfaces: Probing the Ultrastructure of Spheroids and Their Uptake of Magnetic Nanoparticles by FIBâ€“SEM (Adv. Mater. Technol. 3/2020). Advanced Materials Technologies, 2020, 5, 2070015.	5.8	0