

Giancarlo Forte

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

3,902
citations

218592

26
h-index

128225

60
g-index

81
all docs

81
docs citations

81
times ranked

6912
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular Mechanotransduction: From Tension to Function. <i>Frontiers in Physiology</i> , 2018, 9, 824.	1.3	594
2	YAP regulates cell mechanics by controlling focal adhesion assembly. <i>Nature Communications</i> , 2017, 8, 15321.	5.8	431
3	Hepatocyte Growth Factor Effects on Mesenchymal Stem Cells: Proliferation, Migration, and Differentiation. <i>Stem Cells</i> , 2006, 24, 23-33.	1.4	361
4	Cerium Oxide Nanoparticles Protect Cardiac Progenitor Cells from Oxidative Stress. <i>ACS Nano</i> , 2012, 6, 3767-3775.	7.3	314
5	Multiscale three-dimensional scaffolds for soft tissue engineering via multimodal electrospinning. <i>Acta Biomaterialia</i> , 2010, 6, 1227-1237.	4.1	197
6	Stem Cell Aligned Growth Induced by CeO ₂ Nanoparticles in PLGA Scaffolds with Improved Bioactivity for Regenerative Medicine. <i>Advanced Functional Materials</i> , 2010, 20, 1617-1624.	7.8	168
7	Hippo Pathway Effectors Control Cardiac Progenitor Cell Fate by Acting as Dynamic Sensors of Substrate Mechanics and Nanostructure. <i>ACS Nano</i> , 2014, 8, 2033-2047.	7.3	127
8	Microfluidic Organ/Body-on-a-Chip Devices at the Convergence of Biology and Microengineering. <i>Sensors</i> , 2015, 15, 31142-31170.	2.1	124
9	Potential Applications of Nanocellulose-Containing Materials in the Biomedical Field. <i>Materials</i> , 2017, 10, 977.	1.3	113
10	Criticality of the Biological and Physical Stimuli Array Inducing Resident Cardiac Stem Cell Determination. <i>Stem Cells</i> , 2008, 26, 2093-2103.	1.4	98
11	Substrate Stiffness Modulates Gene Expression and Phenotype in Neonatal Cardiomyocytes <i>in Vitro</i> . <i>Tissue Engineering - Part A</i> , 2012, 18, 1837-1848.	1.6	88
12	Tau Isoforms Imbalance Impairs the Axonal Transport of the Amyloid Precursor Protein in Human Neurons. <i>Journal of Neuroscience</i> , 2017, 37, 58-69.	1.7	78
13	Substrate mechanics controls adipogenesis through YAP phosphorylation by dictating cell spreading. <i>Biomaterials</i> , 2019, 205, 64-80.	5.7	72
14	Small Force, Big Impact: Next Generation Organ-on-a-Chip Systems Incorporating Biomechanical Cues. <i>Frontiers in Physiology</i> , 2018, 9, 1417.	1.3	66
15	Multiscale Analysis of Extracellular Matrix Remodeling in the Failing Heart. <i>Circulation Research</i> , 2021, 128, 24-38.	2.0	60
16	Human Cardiac Progenitor Cell Grafts as Unrestricted Source of Supernumerary Cardiac Cells in Healthy Murine Hearts. <i>Stem Cells</i> , 2011, 29, 2051-2061.	1.4	49
17	Ω ³ -Linolenic Acid-Enriched Diet Prevents Myocardial Damage and Expands Longevity in Cardiomyopathic Hamsters. <i>American Journal of Pathology</i> , 2006, 169, 1913-1924.	1.9	44
18	Substrate stiffness affects skeletal myoblast differentiation <i>in vitro</i> . <i>Science and Technology of Advanced Materials</i> , 2012, 13, 064211.	2.8	43

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19	The Role of the Transcription Factor E2F1 in Hepatocellular Carcinoma. <i>Current Drug Delivery</i> , 2016, 13, 1-1.	0.8	42
20	Dystrophin Deficiency Leads to Genomic Instability in Human Pluripotent Stem Cells via NO Synthase-Induced Oxidative Stress. <i>Cells</i> , 2019, 8, 53.	1.8	37
21	Cardiac progenitor cells: Potency and control. <i>Journal of Cellular Physiology</i> , 2010, 224, 590-600.	2.0	36
22	Cooperation of Biological and Mechanical Signals in Cardiac Progenitor Cell Differentiation. <i>Advanced Materials</i> , 2011, 23, 514-518.	11.1	34
23	<p>The Effect of Mindfulness-Based Stress Reduction (MBSR) on Depression, Cognition, and Immunity in Mild Cognitive Impairment: A Pilot Feasibility Study</p>. <i>Clinical Interventions in Aging</i> , 2020, Volume 15, 1365-1381.	1.3	34
24	YAP&€“TEAD1 control of cytoskeleton dynamics and intracellular tension guides human pluripotent stem cell mesoderm specification. <i>Cell Death and Differentiation</i> , 2021, 28, 1193-1207.	5.0	33
25	Agonist monoclonal antibodies against HGF receptor protect cardiac muscle cells from apoptosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1155-H1165.	1.5	31
26	Comparison of two human organoid models of lung and intestinal inflammation reveals Toll&€“like receptor signalling activation and monocyte recruitment. <i>Clinical and Translational Immunology</i> , 2020, 9, e1131.	1.7	31
27	A Xenogeneic-Free Protocol for Isolation and Expansion of Human Adipose Stem Cells for Clinical Uses. <i>PLoS ONE</i> , 2013, 8, e67870.	1.1	29
28	Effect of Lamivudine on Transmission of Human T-Cell Lymphotropic Virus Type 1 to Adult Peripheral Blood Mononuclear Cells In Vitro. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 3080-3083.	1.4	28
29	Thick Soft Tissue Reconstruction on Highly Perfusive Biodegradable Scaffolds. <i>Macromolecular Bioscience</i> , 2010, 10, 127-138.	2.1	27
30	Biomaterial and implant induced ossification: in vitro and in vivo findings. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1157-1168.	1.3	26
31	Novel Lipid and Polymeric Materials as Delivery Systems for Nucleic Acid Based Drugs. <i>Current Drug Metabolism</i> , 2015, 16, 427-452.	0.7	26
32	An Omega-3 Fatty Acid-Enriched Diet Prevents Skeletal Muscle Lesions in a Hamster Model of Dystrophy. <i>American Journal of Pathology</i> , 2010, 177, 2176-2184.	1.9	25
33	Strategies to optimize siRNA delivery to hepatocellular carcinoma cells. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 797-810.	2.4	25
34	Systemic Delivery of Bone Marrow-Derived Mesenchymal Stromal Cells Diminishes Neuropathology in a Mouse Model of Krabbe's Disease. <i>Stem Cells</i> , 2011, 29, 1738-1751.	1.4	24
35	A multistep procedure to prepare pre-vascularized cardiac tissue constructs using adult stem cells, dynamic cell cultures, and porous scaffolds. <i>Frontiers in Physiology</i> , 2014, 5, 210.	1.3	23
36	Tuning hierarchical architecture of 3D polymeric scaffolds for cardiac tissue engineering. <i>Journal of Experimental Nanoscience</i> , 2008, 3, 97-110.	1.3	22

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37	Stem cell activation sustains hereditary hypertrophy in hamster cardiomyopathy. <i>Journal of Pathology</i> , 2005, 205, 397-407.	2.1	21
38	Mesenchymal stem cell adhesion but not plasticity is affected by high substrate stiffness. <i>Science and Technology of Advanced Materials</i> , 2012, 13, 064205.	2.8	20
39	High CD4 ⁺ CD8 ⁻ ratio identifies an at-risk population susceptible to lethal COVID-19. <i>Scandinavian Journal of Immunology</i> , 2022, 95, e13125.	1.3	19
40	Polymer-Mediated Delivery of siRNAs to Hepatocellular Carcinoma: Variables Affecting Specificity and Effectiveness. <i>Molecules</i> , 2018, 23, 777.	1.7	18
41	Strategies for Delivery of siRNAs to Ovarian Cancer Cells. <i>Pharmaceutics</i> , 2019, 11, 547.	2.0	18
42	A primer to traction force microscopy. <i>Journal of Biological Chemistry</i> , 2022, 298, 101867.	1.6	18
43	Interfacing Sca-1 ^{pos} Mesenchymal Stem Cells with Biocompatible Scaffolds with Different Chemical Composition and Geometry. <i>Journal of Biomedicine and Biotechnology</i> , 2009, 2009, 1-10.	3.0	17
44	IL-12 involvement in myogenic differentiation of C2C12 in vitro. <i>Biomaterials Science</i> , 2015, 3, 469-479.	2.6	16
45	A Simple Vacuum-Based Microfluidic Technique to Establish High-Throughput Organ-on-a-Chip and 3D Cell Cultures at the Microscale. <i>Advanced Materials Technologies</i> , 2019, 4, 1800319.	3.0	15
46	Evidence for discrete modes of YAP1 signaling via mRNA splice isoforms in development and diseases. <i>Genomics</i> , 2021, 113, 1349-1365.	1.3	14
47	Towards the Generation of Patient-Specific Patches for Cardiac Repair. <i>Stem Cell Reviews and Reports</i> , 2013, 9, 313-325.	5.6	13
48	Stable Phenotype and Function of Immortalized Lin ⁻ Sca-1 ⁺ Cardiac Progenitor Cells in Long-Term Culture: A Step Closer to Standardization. <i>Stem Cells and Development</i> , 2014, 23, 1012-1026.	1.1	13
49	Combining Nanomaterials and Developmental Pathways to Design New Treatments for Cardiac Regeneration: The Pulsing Heart of Advanced Therapies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 323.	2.0	13
50	Short Communication: Telomerase Activity of Human Peripheral Blood Mononuclear Cells in the Course of HTLV Type 1 Infection in Vitro. <i>AIDS Research and Human Retroviruses</i> , 2002, 18, 249-251.	0.5	12
51	Tau Isoforms Imbalance Impairs the Axonal Transport of the Amyloid Precursor Protein in Human Neurons. <i>Journal of Neuroscience</i> , 2017, 37, 58-69.	1.7	12
52	Transforming the Chemical Structure and Bio-Nano Activity of Doxorubicin by Ultrasound for Selective Killing of Cancer Cells. <i>Advanced Materials</i> , 2022, 34, e2107964.	11.1	12
53	Calcineurin inhibitors reduce NFAT-dependent expression of antifungal pentraxin-3 by human monocytes. <i>Journal of Leukocyte Biology</i> , 2020, 107, 497-508.	1.5	11
54	Adult Stem Cells and Biocompatible Scaffolds as Smart Drug Delivery Tools for Cardiac Tissue Repair. <i>Current Medicinal Chemistry</i> , 2013, 20, 3429-3447.	1.2	11

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55	Self-Renewal and Multipotency Coexist in a Long-Term Cultured Adult Rat Dental Pulp Stem Cell Line: An Exception to the Rule?. <i>Stem Cells and Development</i> , 2012, 21, 3278-3288.	1.1	10
56	5-Azacytidine Downregulates the Proliferation and Migration of Hepatocellular Carcinoma Cells In Vitro and In Vivo by Targeting miR-139-5p/ROCK2 Pathway. <i>Cancers</i> , 2022, 14, 1630.	1.7	8
57	Advanced and Rationalized Atomic Force Microscopy Analysis Unveils Specific Properties of Controlled Cell Mechanics. <i>Frontiers in Physiology</i> , 2018, 9, 1121.	1.3	7
58	Tumor in 3D: In Vitro Complex Cellular Models to Improve Nanodrugs Cancer Therapy. <i>Current Medicinal Chemistry</i> , 2020, 27, 7234-7255.	1.2	7
59	Cardiac tissue engineering: a reflection after a decade of hurry. <i>Frontiers in Physiology</i> , 2014, 5, 365.	1.3	6
60	Dystrophic Muscle Affects Motoneuron Axon Outgrowth and NMJ Assembly. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	6
61	NFAT signaling in human mesenchymal stromal cells affects extracellular matrix remodeling and antifungal immune responses. <i>IScience</i> , 2021, 24, 102683.	1.9	5
62	Targeting pleiotropic signaling pathways to control adult cardiac stem cell fate and function. <i>Frontiers in Physiology</i> , 2014, 5, 219.	1.3	4
63	Dissecting the intracellular signalling and fate of a DNA nanosensor by super-resolution and quantitative microscopy. <i>Nanoscale</i> , 2020, 12, 15402-15413.	2.8	4
64	INFLUENCE OF PRINTING AND LOADING DIRECTION ON MECHANICAL RESPONSE IN 3D PRINTED MODELS OF HUMAN TRABECULAR BONE. <i>Acta Polytechnica CTU Proceedings</i> , 0, 18, 24.	0.3	3
65	Biomaterials and bioactive molecules to drive differentiation in striated muscle tissue engineering. <i>Frontiers in Physiology</i> , 2015, 6, 52.	1.3	2
66	Î±-linolenic acid-enriched diet restores myocardial contractile function and expands longevity in cardiomyopathic hamster. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 40, 1001-1002.	0.9	1
67	Editorial: Physico-Chemical Control of Cell Function. <i>Frontiers in Physiology</i> , 2019, 10, 355.	1.3	1
68	Triggering the nanophase separation of albumin through multivalent binding to glycogen for drug delivery in 2D and 3D multicellular constructs. <i>Nanoscale</i> , 2022, 14, 3452-3466.	2.8	1
69	Î±-linolenic acid prevents TNF-Î±-induced apoptosis in neonatal cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 40, 1001.	0.9	0
70	Effects of physical factors on cardiac stem cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, S92-S93.	0.9	0
71	ALA-diet prevents myocardial damage in hereditary cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, S65-S66.	0.9	0
72	Inherently Bio-Active Scaffolds: Intelligent Constructs to Model the Stem Cell Niche. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2011, , 29-47.	0.7	0

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73	DEFORMATION RESPONSE OF POLYDIMETHYLSILOXANE SUBSTRATES SUBJECTED TO UNIAXIAL QUASI-STATIC LOADING. Acta Polytechnica CTU Proceedings, 2019, 25, 79-82.	0.3	0
74	Cultivation of Human Hepatocytes in the Quasi-Vivo RÂ© System: From Isolation and Seeding to Quantification of Xenobiotic-Metabolizing Enzyme Expression and Activity. , 2014, , 51-68.		0
75	The combination of PDE4 and PDE5 inhibitors reduces YAP expression in IPF. , 2017, , .		0
76	Nanoscale probing and imaging of HIV-1 RNA in cells with a chimeric LNAâ€DNA sensor. Nanoscale, 2022, , .	2.8	0