

Marco Cantini

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,180
citations

361045

20
h-index

395343

33
g-index

39
all docs

39
docs citations

39
times ranked

2130
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular clutch drives cell response to surface viscosity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1192-1197.	3.3	115
2	Protein Adsorption as a Key Mediator in the Nanotopographical Control of Cell Behavior. <i>ACS Nano</i> , 2016, 10, 6638-6647.	7.3	105
3	Material-driven fibronectin assembly for high-efficiency presentation of growth factors. <i>Science Advances</i> , 2016, 2, e1600188.	4.7	104
4	The creatine-phosphagen system is mechanoresponsive in pancreatic adenocarcinoma and fuels invasion and metastasis. <i>Nature Metabolism</i> , 2020, 2, 62-80.	5.1	96
5	The Plot Thickens: The Emerging Role of Matrix Viscosity in Cell Mechanotransduction. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901259.	3.9	75
6	Engineered microenvironments for synergistic VEGF-Integrin signalling during vascularization. <i>Biomaterials</i> , 2017, 126, 61-74.	5.7	61
7	3D gelatin-chitosan hybrid hydrogels combined with human platelet lysate highly support human mesenchymal stem cell proliferation and osteogenic differentiation. <i>Journal of Tissue Engineering</i> , 2019, 10, 204173141984585.	2.3	59
8	T-Cell-Derived miRNA-214 Mediates Perivascular Fibrosis in Hypertension. <i>Circulation Research</i> , 2020, 126, 988-1003.	2.0	59
9	Nanoscale Coatings for Ultralow Dose BMP-Driven Regeneration of Critical-Sized Bone Defects. <i>Advanced Science</i> , 2019, 6, 1800361.	5.6	50
10	A Material-Based Platform to Modulate Fibronectin Activity and Focal Adhesion Assembly. <i>BioResearch Open Access</i> , 2014, 3, 286-296.	2.6	35
11	Electrospun fibrinogen-PLA nanofibres for vascular tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 2774-2784.	1.3	35
12	Controlled wettability, same chemistry: biological activity of plasma-polymerized coatings. <i>Soft Matter</i> , 2012, 8, 5575.	1.2	30
13	Effect of topological cues on material-driven fibronectin fibrillogenesis and cell differentiation. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 195-204.	1.7	30
14	Lateral Chain Length in Polyalkyl Acrylates Determines the Mobility of Fibronectin at the Cell/Material Interface. <i>Langmuir</i> , 2016, 32, 800-809.	1.6	29
15	The strength of the protein-material interaction determines cell fate. <i>Acta Biomaterialia</i> , 2018, 77, 74-84.	4.1	28
16	You Talking to Me? Cadherin and Integrin Crosstalk in Biomaterial Design. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002048.	3.9	28
17	Different Organization of Type I Collagen Immobilized on Silanized and Nonsilanized Titanium Surfaces Affects Fibroblast Adhesion and Fibronectin Secretion. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20667-20677.	4.0	27
18	Non-monotonic cell differentiation pattern on extreme wettability gradients. <i>Biomaterials Science</i> , 2013, 1, 202-212.	2.6	25

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19	Cell migration on material-driven fibronectin microenvironments. <i>Biomaterials Science</i> , 2017, 5, 1326-1333.	2.6	23
20	Vitronectin alters fibronectin organization at the cell-material interface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 618-625.	2.5	20
21	Material-based strategies to engineer fibronectin matrices for regenerative medicine. <i>International Materials Reviews</i> , 2015, 60, 245-264.	9.4	20
22	Design and Functional Testing of a Multichamber Perfusion Platform for Three-Dimensional Scaffolds. <i>Scientific World Journal, The</i> , 2013, 2013, 1-9.	0.8	18
23	A Fractal Nature for Polymerized Laminin. <i>PLoS ONE</i> , 2014, 9, e109388.	1.1	16
24	Functionalization of PLLA with Polymer Brushes to Trigger the Assembly of Fibronectin into Nanonetworks. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801469.	3.9	15
25	ChondroGElesis: Hydrogels to harness the chondrogenic potential of stem cells. <i>Materials Science and Engineering C</i> , 2021, 121, 111822.	3.8	14
26	Numerical Fluid-Dynamic Optimization of Microchannel-Provided Porous Scaffolds for the Co-Culture of Adherent and Non-Adherent Cells. <i>Tissue Engineering - Part A</i> , 2009, 15, 615-623.	1.6	13
27	Vitronectin as a Micromanager of Cell Response in Material-Driven Fibronectin Nanonetworks. <i>Advanced Biology</i> , 2017, 1, 1700047.	3.0	11
28	Material-driven fibronectin assembly rescues matrix defects due to mutations in collagen IV in fibroblasts. <i>Biomaterials</i> , 2020, 252, 120090.	5.7	9
29	Controlling the formation and alignment of low molecular weight gel "noodles"™. <i>Chemical Communications</i> , 2021, 57, 8782-8785.	2.2	9
30	Material-Driven Fibronectin Fibrillogenesis. <i>ACS Symposium Series</i> , 2012, , 471-496.	0.5	5
31	Tissue Engineering: Functionalization of PLLA with Polymer Brushes to Trigger the Assembly of Fibronectin into Nanonetworks (<i>Adv. Healthcare Mater.</i> 3/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970010.	3.9	5
32	Three-Dimensional Tunable Fibronectin-Collagen Platforms for Control of Cell Adhesion and Matrix Deposition. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	3
33	High Efficiency BMP-2 Coatings: Nanoscale Coatings for Ultralow Dose BMP-2-Driven Regeneration of Critical-Sized Bone Defects (<i>Adv. Sci.</i> 2/2019). <i>Advanced Science</i> , 2019, 6, 1970009.	5.6	2
34	Metabolite Transport Inside Channeled Porous Scaffolds for Haematopoietic Stem Cell Culture: A Computational Study. , 2008, , .		0
35	CFD-Aided Design of a Dynamic Culture System for the Co-Culture of Adherent and Non-Adherent Cells. , 2009, , .		0
36	Chapter 12. Bioinspired and Biostructive Surfaces to Control Mesenchymal Stem Cells. <i>RSC Soft Matter</i> , 2021, , 301-325.	0.2	0