

Maurizio Ventre

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,641
citations

331538

21
h-index

289141

40
g-index

63
all docs

63
docs citations

63
times ranked

2708
citing authors

#	ARTICLE	IF	CITATIONS
1	A role for nuclear stretching and NPCs changes in the cytoplasmic-nuclear trafficking of YAP: An experimental and numerical modelling approach. <i>Materials Today Bio</i> , 2022, 15, 100335.	2.6	1
2	Effects of surface nanopatterning on internalization and amyloid aggregation of the fragment 264-277 of Nucleophosmin 1. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 197, 111439.	2.5	15
3	Role of the cell-material interface on collective cell behavior. , 2021, , 113-141.		0
4	Principles of design and engineering of cell instructive surfaces. , 2021, , 143-170.		0
5	The dynamics of the cell-material interface. , 2021, , 43-64.		0
6	Material cytoskeleton crosstalk. , 2021, , 65-112.		0
7	3D Finite Element Analysis of Rotary Instruments in Root Canal Dentine with Different Elastic Moduli. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2547.	1.3	17
8	The role of cortical zone level and prosthetic platform angle in dental implant mechanical response: A 3D finite element analysis. <i>Dental Materials</i> , 2021, 37, 1688-1697.	1.6	27
9	Dynamic cell instructive platforms. , 2021, , 171-217.		1
10	Key determinants of cell-material interactions. , 2021, , 5-41.		0
11	Simple yet effective methods to probe hydrogel stiffness for mechanobiology. <i>Scientific Reports</i> , 2021, 11, 22668.	1.6	9
12	Decellularized matrices for tumor cell modeling. <i>Methods in Cell Biology</i> , 2020, 157, 169-183.	0.5	3
13	Topographic Cues Impact on Embryonic Stem Cell Zscan4-Metastate. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 178.	2.0	7
14	Nanoscaffolds for neural regenerative medicine. , 2020, , 47-88.		4
15	Adhesive class I restorations in sound molar teeth incorporating combined resin-composite and glass ionomer materials: CAD-FE modeling and analysis. <i>Dental Materials</i> , 2019, 35, 1514-1522.	1.6	41
16	Aligned fibrous decellularized cell derived matrices for mesenchymal stem cell amplification. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2536-2546.	2.1	21
17	Focal adhesion clustering drives endothelial cell morphology on patterned surfaces. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190263.	1.5	29
18	Pressureless sintering of ZnO thin film on plastic substrate via vapor annealing process at near-room temperature. <i>Scripta Materialia</i> , 2019, 164, 48-51.	2.6	4

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19	Quick liquid packaging: Encasing water silhouettes by three-dimensional polymer membranes. <i>Science Advances</i> , 2019, 5, eaat5189.	4.7	14
20	Mechanical behavior of Class I cavities restored by different material combinations under loading and polymerization shrinkage stress. A 3D-FEA study. <i>American Journal of Dentistry</i> , 2019, 32, 55-60.	0.1	10
21	On the influence of surface patterning on tissue self-assembly and mechanics. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1621-1633.	1.3	13
22	Nanotechnologies for tissue engineering and regeneration. , 2018, , 93-206.		12
23	A straightforward method to produce decellularized dermis-based matrices for tumour cell cultures. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e71-e81.	1.3	8
24	Spatio-Temporal Control of Cell Adhesion: Toward Programmable Platforms to Manipulate Cell Functions and Fate. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 190.	2.0	37
25	Regulating Fibroblast Shape and Mechanics through Photoresponsive Surfaces with Concentric Circular Topographic Patterns. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800890.	1.9	12
26	Controlling Cell Functions and Fate with Surfaces and Hydrogels: The Role of Material Features in Cell Adhesion and Signal Transduction. <i>Gels</i> , 2016, 2, 12.	2.1	21
27	Nanoengineered materials to control cell fate. <i>Nanomedicine</i> , 2016, 11, 993-996.	1.7	2
28	Spatio-Temporal Control of Dynamic Topographic Patterns on Azopolymers for Cell Culture Applications. <i>Advanced Functional Materials</i> , 2016, 26, 7572-7580.	7.8	53
29	Dynamic Cell Substrates: Spatio-Temporal Control of Dynamic Topographic Patterns on Azopolymers for Cell Culture Applications (<i>Adv. Funct. Mater.</i> 42/2016). <i>Advanced Functional Materials</i> , 2016, 26, 7743-7743.	7.8	3
30	Engineering Cell Instructive Materials To Control Cell Fate and Functions through Material Cues and Surface Patterning. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14896-14908.	4.0	107
31	Reversible Holographic Patterns on Azopolymers for Guiding Cell Adhesion and Orientation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16984-16991.	4.0	79
32	Nanoengineered Surfaces for Focal Adhesion Guidance Trigger Mesenchymal Stem Cell Self-Organization and Tenogenesis. <i>Nano Letters</i> , 2015, 15, 1517-1525.	4.5	54
33	Magnetophoresis meets viscoelasticity: deterministic separation of magnetic particles in a modular microfluidic device. <i>Lab on A Chip</i> , 2015, 15, 1912-1922.	3.1	56
34	Micropatterned Azopolymer Surfaces Modulate Cell Mechanics and Cytoskeleton Structure. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21503-21510.	4.0	25
35	Research in Biomaterials and Tissue Engineering: Achievements and perspectives. <i>IEEE Pulse</i> , 2015, 6, 39-43.	0.1	2
36	Imaging and characterization of surface relief gratings on azopolymer by digital holographic microscopy. , 2015, ,		0

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37	Defining an optimal stromal derived factor-1 presentation for effective recruitment of mesenchymal stem cells in 3D. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2303-2316.	1.7	10
38	Topographic cell instructive patterns to control cell adhesion, polarization and migration. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140687.	1.5	96
39	Optimizing design and fabrication of microfluidic devices for cell cultures: An effective approach to control cell microenvironment in three dimensions. <i>Biomicrofluidics</i> , 2014, 8, 046503.	1.2	25
40	Particle tracking by full-field complex wavefront subtraction in digital holography microscopy. <i>Lab on A Chip</i> , 2014, 14, 1129-1134.	3.1	66
41	Biodegradable Material for the Absorption of Organic Compounds and Nanoparticles. <i>Biomacromolecules</i> , 2014, 15, 3321-3327.	2.6	8
42	Tuning the material-cytoskeleton crosstalk via nanoconfinement of focal adhesions. <i>Biomaterials</i> , 2014, 35, 2743-2751.	5.7	54
43	Tethered Pyro-Electrohydrodynamic Spinning for Patterning Well-Ordered Structures at Micro- and Nanoscale. <i>Chemistry of Materials</i> , 2014, 26, 3357-3360.	3.2	50
44	Morphological analysis framework of living cells by digital holography. , 2014, , .		1
45	Holographic Three-Dimensional Tracking of Micro-objects Exploiting Their Morphological Properties. , 2014, , 555-558.		0
46	New method of 3D tracking of in vitro cells by digital holographic microscopy. , 2013, , .		0
47	Sparsity-based denoising method of wrapped-phase reconstructions in digital holography. , 2013, , .		0
48	Quantitative phase maps denoising of long holographic sequences by using SPADEDH algorithm. <i>Applied Optics</i> , 2013, 52, 1453.	0.9	38
49	New method of holographic three-dimensional tracking of living cells exploiting their morphological properties. , 2013, , .		0
50	The p63 Protein Isoform β Modulates Y-box Binding Protein 1 in Its Subcellular Distribution and Regulation of Cell Survival and Motility Genes. <i>Journal of Biological Chemistry</i> , 2012, 287, 30170-30180.	1.6	21
51	Determinants of cell-material crosstalk at the interface: towards engineering of cell instructive materials. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2017-2032.	1.5	152
52	On the holographic 3D tracking of in vitro cells characterized by a highly-morphological change. <i>Optics Express</i> , 2012, 20, 28485.	1.7	72
53	Cell Fluidics: Producing Cellular Streams on Micropatterned Synthetic Surfaces. <i>Langmuir</i> , 2012, 28, 714-721.	1.6	22
54	Functional porous hydrogels to study angiogenesis under the effect of controlled release of vascular endothelial growth factor. <i>Acta Biomaterialia</i> , 2012, 8, 3294-3301.	4.1	95

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55	A numerical model for durotaxis. <i>Journal of Theoretical Biology</i> , 2011, 280, 150-158.	0.8	22
56	Molding Micropatterns of Elasticity on PEG-Based Hydrogels to Control Cell Adhesion and Migration. <i>Advanced Engineering Materials</i> , 2011, 13, B395.	1.6	18
57	Covalently immobilized RGD gradient on PEG hydrogel scaffold influences cell migration parameters. <i>Acta Biomaterialia</i> , 2010, 6, 2532-2539.	4.1	141
58	Natural composites: structure-property relationships in bone, cartilage, ligament and tendons. , 2010, , 3-24.		0
59	The effect of composition and microstructure on the viscoelastic properties of dermis. <i>Journal of Biomechanics</i> , 2009, 42, 430-435.	0.9	38
60	Soft Tissues Characteristics and Strategies for Their Replacement and Regeneration. , 2009, , 1-40.		6
61	Implicit constitutive equations in the modeling of bimodular materials: An application to biomaterials. <i>Computers and Mathematics With Applications</i> , 2007, 53, 209-218.	1.4	6
62	Mechanical properties and modelling of a hydrophilic composite used as a biomaterial. <i>Composites Science and Technology</i> , 2006, 66, 92-101.	3.8	12