Silvia Scaglione

List of Publications by Year
in descending order

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74 papers	2,638 citations	218381 26 h-index	197535 49 g-index
74 all docs	74 docs citations	74 times ranked	4506 citing authors

#	Article	IF	Citations
1	Comparison Between Franz Diffusion Cell and a novel Micro-physiological System for In Vitro Penetration Assay Using Different Skin Models. SLAS Technology, 2022, 27, 161-171.	1.0	24
2	Tumor Microenvironment and Hydrogel-Based 3D Cancer Models for In Vitro Testing Immunotherapies. Cancers, 2022, 14, 1013.	1.7	17
3	High blood flow shear stress values are associated with circulating tumor cells cluster disaggregation in a multi-channel microfluidic device. PLoS ONE, 2021, 16, e0245536.	1.1	31
4	In vitro models replicating the human intestinal epithelium for absorption and metabolism studies: A systematic review. Journal of Controlled Release, 2021, 335, 247-268.	4.8	80
5	3D fluid-dynamic ovarian cancer model resembling systemic drug administration for efficacy assay. ALTEX: Alternatives To Animal Experimentation, 2021, 38, 82-94.	0.9	15
6	Editorial: Recent 3D Tumor Models for Testing Immune-Mediated Therapies. Frontiers in Immunology, 2021, 12, 798493.	2.2	2
7	183P A novel human immunocompetent platform for immunotherapy screening. Annals of Oncology, 2021, 32, S1461-S1462.	0.6	0
8	3D Perfusable Hydrogel Recapitulating the Cancer Dynamic Environment to in Vitro Investigate Metastatic Colonization. Polymers, 2020, 12, 2467.	2.0	13
9	In vitro demonstration of intestinal absorption mechanisms of different sugars using 3D organotypic tissues in a fluidic device. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 255-264.	0.9	18
10	Cell-Laden Hydrogel as a Clinical-Relevant 3D Model for Analyzing Neuroblastoma Growth, Immunophenotype, and Susceptibility to Therapies. Frontiers in Immunology, 2019, 10, 1876.	2.2	35
11	Composite scaffolds for bone and osteochondral defects. , 2019, , 297-337.		2
12	Atomic force microscopy for biomechanical and structural analysis of human dermis: A complementary tool for medical diagnosis and therapy monitoring. Experimental Dermatology, 2018, 27, 150-155.	1.4	25
13	A new cell-laden 3D Alginate-Matrigel hydrogel resembles human breast cancer cell malignant morphology, spread and invasion capability observed â€œin vivoâ€• Scientific Reports, 2018, 8, 5333.	1.6	118
14	Efficacy of thermoresponsive, photocrosslinkable hydrogels derived from decellularized tendon and cartilage extracellular matrix for cartilage tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e159-e170.	1.3	50
15	Topographical Features of Graphene-Oxide-Functionalized Substrates Modulate Cancer and Healthy Cell Adhesion Based on the Cell Tissue of Origin. ACS Applied Materials & Interfaces, 2018, 10, 41978-41985.	4.0	19
16	â€œGreen-reducedâ€•graphene oxide induces in vitro an enhanced biomimetic mineralization of polycaprolactone electrospun meshes. Materials Science and Engineering C, 2018, 93, 1044-1053.	3.8	38
17	A combined low-frequency electromagnetic and fluidic stimulation for a controlled drug release from superparamagnetic calcium phosphate nanoparticles: potential application for cardiovascular diseases. Journal of the Royal Society Interface, 2018, 15, 20180236.	1.5	19
18	3D Porous Gelatin/PVA Hydrogel as Meniscus Substitute Using Alginate Micro-Particles as Porogens. Polymers, 2018, 10, 380.	2.0	40

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19	Enhanced mechanical performances and bioactivity of cell laden-graphene oxide/alginate hydrogels open new scenario for articular tissue engineering applications. Carbon, 2017, 115, 608-616.	5.4	69
20	Rapid Prototyping for the Engineering of Osteochondral Tissues. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2017, , 163-185.	0.7	2
21	Design of Decorated Self-Assembling Peptide Hydrogels as Architecture for Mesenchymal Stem Cells. Materials, 2016, 9, 727.	1.3	32
22	Osteogenic Differentiation of MSC through Calcium Signaling Activation: Transcriptomics and Functional Analysis. PLoS ONE, 2016, 11, e0148173.	1.1	99
23	Bioactive TGF-Î²1/HA Alginate-Based Scaffolds for Osteochondral Tissue Repair: Design, Realization and Multilevel Characterization. Journal of Applied Biomaterials and Functional Materials, 2016, 14, 42-52.	0.7	20
24	Chemical and morphological gradient scaffolds to mimic hierarchically complex tissues: From theoretical modeling to their fabrication. Biotechnology and Bioengineering, 2016, 113, 2286-2297.	1.7	14
25	Scaffold microstructure effects on functional and mechanical performance: Integration of theoretical and experimental approaches for bone tissue engineering applications. Materials Science and Engineering C, 2016, 68, 872-879.	3.8	51
26	Microenvironment complexity and matrix stiffness regulate breast cancer cell activity in a 3D in vitro model. Scientific Reports, 2016, 6, 35367.	1.6	172
27	Design and characterization of a tissue-engineered bilayer scaffold for osteochondral tissue repair. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 1182-1192.	1.3	33
28	Elastin-Coated Biodegradable Photopolymer Scaffolds for Tissue Engineering Applications. BioMed Research International, 2014, 2014, 1-9.	0.9	19
29	MgCHA particles dispersion in porous PCL scaffolds:in vitromineralization andin vivobone formation. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 291-303.	1.3	30
30	Guidelines for managing data and processes in bone and cartilage tissue engineering. BMC Bioinformatics, 2014, 15, S14.	1.2	8
31	A novel scaffold geometry for chondral applications: Theoretical model and in vivo validation. Biotechnology and Bioengineering, 2014, 111, 2107-2119.	1.7	16
32	Improved cell activity on biodegradable photopolymer scaffolds using titanate nanotube coatings. Materials Science and Engineering C, 2014, 44, 38-43.	3.8	18
33	Oriented collagen nanocoatings for tissue engineering. Colloids and Surfaces B: Biointerfaces, 2014, 114, 372-378.	2.5	39
34	Titanate nanotube coatings on biodegradable photopolymer scaffolds. Materials Science and Engineering C, 2013, 33, 2460-2463.	3.8	12
35	Composite Electrospun Nanofibers for Influencing Stem Cell Fate. Methods in Molecular Biology, 2013, 1058, 25-40.	0.4	5
36	Characterization of a bioinspired elastin-polypropylene fumarate material for vascular prostheses applications. Proceedings of SPIE, 2013, , .	0.8	3

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37	Rapid fabrication of rigid biodegradable scaffolds by excimer laser mask projection technique: a comparison between 248 and 308 nm. Laser Physics, 2013, 23, 035602.	0.6	20
38	A similarity based approach for application DoS attacks detection. , 2013, , .		14
39	Towards excimer-laser-based stereolithography: a rapid process to fabricate rigid biodegradable photopolymer scaffolds. Journal of the Royal Society Interface, 2012, 9, 3017-3026.	1.5	40
40	Order versus Disorder: in vivo bone formation within osteoconductive scaffolds. Scientific Reports, 2012, 2, 274.	1.6	67
41	“3D Cloud” in Life Sciences: An innovative framework for remote 2D/3D visualization and collaboration. , 2012, , .		1
42	In vivo lamellar bone formation in fibre coated MgCHAâ€“PCL-composite scaffolds. Journal of Materials Science: Materials in Medicine, 2012, 23, 117-128.	1.7	17
43	Bioinformatics approach for data management about bone cells grown on substitute materials. EMBnet Journal, 2012, 18, 148.	0.2	2
44	Regulation of Human Mesenchymal Stem Cell Functions by an Autocrine Loop Involving NAD⁺Release and P2Y11-Mediated Signaling. Stem Cells and Development, 2011, 20, 1183-1198.	1.1	50
45	Differences in Chemical Composition and Internal Structure Influence Systemic Host Response to Implants of Biomaterials. International Journal of Artificial Organs, 2011, 34, 422-431.	0.7	5
46	An interaction between hepatocyte growth factor and its receptor (c-MET) prolongs the survival of chronic lymphocytic leukemic cells through STAT3 phosphorylation: a potential role of mesenchymal cells in the disease. Haematologica, 2011, 96, 1015-1023.	1.7	37
47	Mesenchymal stem cell culture in convection-enhanced hollow fibre membrane bioreactors for bone tissue engineering. Journal of Membrane Science, 2011, 379, 341-352.	4.1	21
48	Regulatory Influence of Scaffolds on Cell Behavior: How Cells Decode Biomaterials. Current Pharmaceutical Biotechnology, 2011, 12, 151-159.	0.9	37
49	Osteoinduction of Human Mesenchymal Stem Cells by Bioactive Composite Scaffolds without Supplemental Osteogenic Growth Factors. PLoS ONE, 2011, 6, e26211.	1.1	178
50	A composite material model for improved bone formation. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, 505-513.	1.3	25
51	A Three-Dimensional Traction/Torsion Bioreactor System for Tissue Engineering. International Journal of Artificial Organs, 2010, 33, 362-369.	0.7	13
52	Short-Time Survival and Engraftment of Bone Marrow Stromal Cells in an Ectopic Model of Bone Regeneration. Tissue Engineering - Part A, 2010, 16, 489-499.	1.6	77
53	A three-dimensional traction/torsion bioreactor system for tissue engineering. International Journal of Artificial Organs, 2010, 33, 362-9.	0.7	2
54	Preparation and properties of macroporous brushite bone cements. Acta Biomaterialia, 2009, 5, 2161-2168.	4.1	43

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55	Hydroxyapatite-Coated Polycaprolacton Wide Mesh as a Model of Open Structure for Bone Regeneration. Tissue Engineering - Part A, 2009, 15, 155-163.	1.6	18
56	Stem cells and tissue scaffolds for bone repair. , 2009, , 291-312.		0
57	Clinical Applications of Bone Tissue Engineering. , 2009, , 1-18.		1
58	Effects of fluid flow and calcium phosphate coating on human bone marrow stromal cells cultured in a defined 2D model system. Journal of Biomedical Materials Research - Part A, 2008, 86A, 411-419.	2.1	62
59	A Web-based and Grid-enabled dChip version for the analysis of large sets of gene expression data. BMC Bioinformatics, 2008, 9, 480.	1.2	4
60	Biomimetic Bone Graft with Higher Bioactivity. Key Engineering Materials, 2007, 330-332, 943-946.	0.4	1
61	A Grid-based solution for management and analysis of microarrays in distributed experiments. BMC Bioinformatics, 2007, 8, S7.	1.2	10
62	GEMMA â€" A Grid environment for microarray management and analysis in bone marrow stem cells experiments. Future Generation Computer Systems, 2007, 23, 382-390.	4.9	6
63	Reconstruction of Extensive Long Bone Defects in Sheep Using Resorbable Bioceramics Based on Silicon Stabilized Tricalcium Phosphate. Tissue Engineering, 2006, 12, 1261-1273.	4.9	120
64	The State of the Art in Biological Image Analysis. , 2006, , 201-206.		1
65	Network integration of data and analysis of oncology interest. Journal of Integrative Bioinformatics, 2006, 3, 45-55.	1.0	1
66	Role of scaffold internal structure on in vivo bone formation in macroporous calcium phosphate bioceramics. Biomaterials, 2006, 27, 3230-3237.	5.7	451
67	Engineering of osteoinductive grafts by isolation and expansion of ovine bone marrow stromal cells directly on 3D ceramic scaffolds. Biotechnology and Bioengineering, 2006, 93, 181-187.	1.7	56
68	Reconstruction of Extensive Long Bone Defects in Sheep Using Resorbable Bioceramics Based on Silicon Stabilized Tricalcium Phosphate. Tissue Engineering, 2006, .	4.9	0
69	A simple non invasive computerized method for the assessment of bone repair within osteoconductive porous bioceramic grafts. Biotechnology and Bioengineering, 2005, 92, 189-198.	1.7	13
70	Improvement in volume estimation from confocal sections after image deconvolution. Microscopy Research and Technique, 2004, 64, 151-155.	1.2	23
71	GABA receptor subunits identified in by immunofluorescence confocal microscopy. FEMS Microbiology Letters, 2004, 238, 449-453.	0.7	14
72	Interfacial effect of extremely low frequency electromagnetic fields (EM-ELF) on the vaporization step of carbon dioxide from aqueous solutions of body simulated fluid (SBF). Bioelectromagnetics, 2003, 24, 251-261.	0.9	13

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73	aî—¸Si:H produced by double ion-beam sputtering. Journal of Non-Crystalline Solids, 1983, 59-60, 723-726.	1.5	6
74	Cell-Biomaterial Interactions Reproducing a Niche. , 0, , .		1