

Sophie Verrier

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

2,278
citations

25
h-index

47
g-index

48
ext. papers

2,455
ext. citations

5.3
avg, IF

4.39
L-index

#	Paper	IF	Citations
43	Spectroscopic study of human lung epithelial cells (A549) in culture: living cells versus dead cells. <i>Biopolymers</i> , 2003 , 72, 230-40	2.2	262
42	PDLLA/Bioglass composites for soft-tissue and hard-tissue engineering: an in vitro cell biology assessment. <i>Biomaterials</i> , 2004 , 25, 3013-21	15.6	246
41	In situ Characterisation of Living Cells by Raman Spectroscopy. <i>Spectroscopy</i> , 2002 , 16, 43-51		174
40	The effect of human osteoblasts on proliferation and neo-vessel formation of human umbilical vein endothelial cells in a long-term 3D co-culture on polyurethane scaffolds. <i>Biomaterials</i> , 2008 , 29, 4217-26	15.6	159
39	In situ monitoring of cell death using Raman microspectroscopy. <i>Biopolymers</i> , 2004 , 74, 157-62	2.2	149
38	Function of linear and cyclic RGD-containing peptides in osteoprogenitor cells adhesion process. <i>Biomaterials</i> , 2002 , 23, 585-96	15.6	128
37	Human endothelial cells inhibit BMSC differentiation into mature osteoblasts in vitro by interfering with osterix expression. <i>Journal of Cellular Biochemistry</i> , 2006 , 98, 992-1006	4.7	102
36	In vivo biocompatibility and vascularization of biodegradable porous polyurethane scaffolds for tissue engineering. <i>Acta Biomaterialia</i> , 2009 , 5, 1991-2001	10.8	100
35	Properties of an injectable low modulus PMMA bone cement for osteoporotic bone. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 86, 474-82	3.5	86
34	Mechanical properties and cytocompatibility of poly(ϵ -caprolactone)-infiltrated biphasic calcium phosphate scaffolds with bimodal pore distribution. <i>Acta Biomaterialia</i> , 2010 , 6, 4369-79	10.8	66
33	Strategies to Stimulate Mobilization and Homing of Endogenous Stem and Progenitor Cells for Bone Tissue Repair. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 79	5.8	62
32	Direct cell-cell contact between mesenchymal stem cells and endothelial progenitor cells induces a pericyte-like phenotype in vitro. <i>BioMed Research International</i> , 2014 , 2014, 395781	3	62
31	Tissue engineering and regenerative approaches to improving the healing of large bone defects. <i>European Cells and Materials</i> , 2016 , 32, 87-110	4.3	59
30	ADAM gene expression and regulation during human osteoclast formation. <i>Bone</i> , 2004 , 35, 34-46	4.7	52
29	The biologically crucial C terminus of cholecystokinin and the non-peptide agonist SR-146,131 share a common binding site in the human CCK1 receptor. Evidence for a crucial role of Met-121 in the activation process. <i>Journal of Biological Chemistry</i> , 2002 , 277, 7546-55	5.4	52
28	An In Vitro Investigation of Platelet-Rich Plasma-Gel as a Cell and Growth Factor Delivery Vehicle for Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 49-58	2.9	47
27	3D scaffolds co-seeded with human endothelial progenitor and mesenchymal stem cells: evidence of prevascularisation within 7 days. <i>European Cells and Materials</i> , 2013 , 26, 49-64; discussion 64-5	4.3	46

26	CD34/CD133 enriched bone marrow progenitor cells promote neovascularization of tissue engineered constructs in vivo. <i>Stem Cell Research</i> , 2014 , 13, 465-77	1.6	45
25	Induced tissue integration of bone implants by coating with bone selective RGD-peptides in vitro and in vivo studies. <i>Journal of Materials Science: Materials in Medicine</i> , 1999 , 10, 837-9	4.5	41
24	Platelet lysate as a serum substitute for 2D static and 3D perfusion culture of stromal vascular fraction cells from human adipose tissue. <i>Tissue Engineering - Part A</i> , 2009 , 15, 869-75	3.9	37
23	Tools for tissue engineering of mineralized oral structures. <i>Clinical Oral Investigations</i> , 2000 , 4, 126-9	4.2	35
22	Platelet-rich plasma induces annulus fibrosus cell proliferation and matrix production. <i>European Spine Journal</i> , 2014 , 23, 745-53	2.7	31
21	Platelet-released supernatant induces osteoblastic differentiation of human mesenchymal stem cells: potential role of BMP-2. <i>European Cells and Materials</i> , 2010 , 20, 403-14	4.3	31
20	Platelet released growth factors boost expansion of bone marrow derived CD34(+) and CD133(+) endothelial progenitor cells for autologous grafting. <i>Platelets</i> , 2011 , 22, 422-32	3.6	29
19	Pericyte plasticity - comparative investigation of the angiogenic and multilineage potential of pericytes from different human tissues. <i>European Cells and Materials</i> , 2016 , 31, 236-49	4.3	27
18	Human osteoprogenitor responses to orthopaedic implant: mechanism of cell attachment and cell adhesion. <i>Journal of Materials Science: Materials in Medicine</i> , 1996 , 7, 46-51	4.5	24
17	Phenotypic Characterization of Bone Marrow Mononuclear Cells and Derived Stromal Cell Populations from Human Iliac Crest, Vertebral Body and Femoral Head. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	20
16	Induction of osteogenic differentiation by nanostructured alumina surfaces. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 831-45	4	16
15	The osteogenic differentiation of human osteoprogenitor cells on Anodic-Plasma-Chemical treated Ti6Al7Nb. <i>Biomaterials</i> , 2011 , 32, 672-80	15.6	16
14	Platelet-Rich Plasma as an Autologous and Proangiogenic Cell Delivery System. <i>Mediators of Inflammation</i> , 2017 , 2017, 1075975	4.3	11
13	Five Days Granulocyte Colony-Stimulating Factor Treatment Increases Bone Formation and Reduces Gap Size of a Rat Segmental Bone Defect: A Pilot Study. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018 , 6, 5	5.8	10
12	Evaluation of the in vitro cell-material interactions and in vivo osteo-integration of a spinal acrylic bone cement. <i>European Spine Journal</i> , 2012 , 21 Suppl 6, S800-9	2.7	10
11	Endothelial Progenitor Cell Fraction Contained in Bone Marrow-Derived Mesenchymal Stem Cell Populations Impairs Osteogenic Differentiation. <i>BioMed Research International</i> , 2015 , 2015, 659542	3	8
10	Interaction of Sheep Bone Marrow Stromal Cells With Biodegradable Polyurethane Bone Substitutes. <i>Macromolecular Symposia</i> , 2007 , 253, 162-171	0.8	8
9	In vitro simulation of the early proinflammatory phase in fracture healing reveals strong immunomodulatory effects of CD146-positive mesenchymal stromal cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 1466-1481	4.4	6

8	Raman micro-spectroscopy as a non-invasive cell viability test. <i>Methods in Molecular Biology</i> , 2011 , 740, 179-89	1.4	5
7	Bioactive Composite Materials for Bone Tissue Engineering Scaffolds 2008 , 279-311		3
6	Quality control methods in musculoskeletal tissue engineering: from imaging to biosensors. <i>Bone Research</i> , 2021 , 9, 46	13.3	2
5	Development and characterization of a predictive microCT-based non-union model in Fischer F344 rats. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2020 , 1	3.6	1
4	Vascularization, Survival, and Functionality of Tissue-Engineered Constructs 2014 , 471-496		1
3	A549 Lung Carcinoma Cells: Binary vs. Ternary Bioactive Gel-Glasses. <i>Key Engineering Materials</i> , 2003 , 254-256, 781-784	0.4	1
2	In Vitro Models to Mimic the Endothelial Barrier. <i>ATLA Alternatives To Laboratory Animals</i> , 2015 , 43, P34-61		1
1	Bioactive glass containing composites for bone and musculoskeletal tissue engineering scaffolds 2011 , 162-188		