

Johanna Buschmann

List of Publications by Year in Descending Order

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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.

71
papers

2,071
citations

20
h-index

45
g-index

76
ext. papers

2,336
ext. citations

5.2
avg, IF

4.7
L-index

#	Paper	IF	Citations
71	Hybrid nanocomposite as a chest wall graft with improved vascularization by copper oxide nanoparticles.. <i>Journal of Biomaterials Applications</i> , 2022 , 8853282211065624	2.9	0
70	Electrospun tube reduces adhesion in rabbit Achilles tendon 12 weeks post-surgery without PAR-2 overexpression. <i>Scientific Reports</i> , 2021 , 11, 23293	4.9	1
69	Delineation of the healthy rabbit liver by immunohistochemistry - A technical note. <i>Acta Histochemica</i> , 2021 , 123, 151795	2	0
68	3D-microtissue derived secretome as a cell-free approach for enhanced mineralization of scaffolds in the chorioallantoic membrane model. <i>Scientific Reports</i> , 2021 , 11, 5418	4.9	4
67	Delineation of the healthy rabbit kidney by immunohistochemistry - A technical note. <i>Acta Histochemica</i> , 2021 , 123, 151701	2	3
66	Suspension of Amorphous Calcium Phosphate Nanoparticles Impact Commitment of Human Adipose-Derived Stem Cells In Vitro. <i>Biology</i> , 2021 , 10,	4.9	1
65	Identification of ALP+/CD73+ defining markers for enhanced osteogenic potential in human adipose-derived mesenchymal stromal cells by mass cytometry. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 7	8.3	4
64	Delineation of the healthy rabbit lung by immunohistochemistry - a technical note. <i>Acta Histochemica</i> , 2020 , 122, 151648	2	2
63	Tumor grafts grown on the chicken chorioallantoic membrane are distinctively characterized by MRI under functional gas challenge. <i>Scientific Reports</i> , 2020 , 10, 7505	4.9	2
62	Adipose tissue and the vascularization of biomaterials: Stem cells, microvascular fragments and nanofat-a review. <i>Cytotherapy</i> , 2020 , 22, 400-411	4.8	15
61	Supporting Cell-Based Tendon Therapy: Effect of PDGF-BB and Ascorbic Acid on Rabbit Achilles Tenocytes in Vitro. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
60	Directing Stem Cell Commitment by Amorphous Calcium Phosphate Nanoparticles Incorporated in PLGA: Relevance of the Free Calcium Ion Concentration. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
59	Impact of PDGF-BB on cellular distribution and extracellular matrix in the healing rabbit Achilles tendon three weeks post-operation. <i>FEBS Open Bio</i> , 2020 , 10, 327-337	2.7	3
58	Elastic and surgeon friendly electrospun tubes delivering PDGF-BB positively impact tendon rupture healing in a rabbit Achilles tendon model. <i>Biomaterials</i> , 2020 , 232, 119722	15.6	16
57	3D microtissue-derived human stem cells seeded on electrospun nanocomposites under shear stress: Modulation of gene expression. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 102, 103481	4.1	5
56	MiRNA Profiles of Extracellular Vesicles Secreted by Mesenchymal Stromal Cells-Can They Predict Potential Off-Target Effects?. <i>Biomolecules</i> , 2020 , 10,	5.9	7
55	High-affinity Cu(I) chelator PSP-2 as potential anti-angiogenic agent. <i>Scientific Reports</i> , 2019 , 9, 14055	4.9	7

54	Cellular self-assembly into 3D microtissues enhances the angiogenic activity and functional neovascularization capacity of human cardiopoietic stem cells. <i>Angiogenesis</i> , 2019 , 22, 37-52	10.6	26
53	Hybrid nanocomposite as a chest wall graft with improved integration by adipose-derived stem cells. <i>Scientific Reports</i> , 2019 , 9, 10910	4.9	3
52	Impact of UV sterilization and short term storage on the in vitro release kinetics and bioactivity of biomolecules from electrospun scaffolds. <i>Scientific Reports</i> , 2019 , 9, 15117	4.9	5
51	Novel multimodal MRI and MicroCT imaging approach to quantify angiogenesis and 3D vascular architecture of biomaterials. <i>Scientific Reports</i> , 2019 , 9, 19474	4.9	10
50	Modification of silicone elastomers with Bioglass 45S5□ increases in ovo tissue biointegration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 1180-1188	3.5	3
49	Cartilage/bone interface fabricated under perfusion: Spatially organized commitment of adipose-derived stem cells without medium supplementation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 1833-1843	3.5	8
48	Cyclic uniaxial compression of human stem cells seeded on a bone biomimetic nanocomposite decreases anti-osteogenic commitment evoked by shear stress. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 83, 84-93	4.1	8
47	Serotonin uptake is required for Rac1 activation in Kras-induced acinar-to-ductal metaplasia in the pancreas. <i>Journal of Pathology</i> , 2018 , 246, 352-365	9.4	10
46	Characterization and vascularization of a 3D-printed hydroxyapatite scaffold with different extracellular matrix coatings under perfusion culture. <i>Biology Open</i> , 2018 , 7,	2.2	12
45	Synthetic polymer scaffolds for tendon and ligament repair 2017 , 225-250		
44	Role of cellular response in the healing process of tendons and ligaments 2017 , 301-317		1
43	Structure and function of tendon and ligament tissues 2017 , 3-29		17
42	Cell therapies for tendons and ligament repair 2017 , 251-276		
41	Evolving treatments and emerging strategies for tendon and ligament reconstruction 2017 , 319-331		
40	Experimental methods for measuring tendon and ligament biomechanics 2017 , 81-99		
39	Effects of seeding adipose-derived stem cells on electrospun nanocomposite used as chest wall graft in a murine model. <i>Injury</i> , 2017 , 48, 2080-2088	2.5	6
38	Autograft, allograft, and xenograft scaffolds for tendon and ligament repair: Materials and biomechanics 2017 , 155-192		
37	Mechanobiology of tendons and ligaments 2017 , 63-80		4

36	Collagen for tendon and ligament repair: Preparations and biomechanics 2017 , 193-224		
35	Biomechanical properties of tendons and ligaments in humans and animals 2017 , 31-61		1
34	In vitro ^h in vivo biomechanical performance of tissue-engineered constructs for tendon and ligament repair 2017 , 277-300		
33	Imaging of tendons and ligaments in animal models 2017 , 101-151		
32	Rabbit Achilles tendon full transection model - wound healing, adhesion formation and biomechanics at 3, 6 and 12 weeks post-surgery. <i>Biology Open</i> , 2016 , 5, 1324-33	2.2	13
31	Hybrid Randomly Electrospun Poly(lactic-co-glycolic acid):Poly(ethylene oxide) (PLGA:PEO) Fibrous Scaffolds Enhancing Myoblast Differentiation and Alignment. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31574-31586	9.5	29
30	Bioactive, Elastic, and Biodegradable Emulsion Electrospun DegraPol Tube Delivering PDGF-BB for Tendon Rupture Repair. <i>Macromolecular Bioscience</i> , 2016 , 16, 1048-63	5.5	25
29	Human Dental Pulp Stem Cells and Gingival Fibroblasts Seeded into Silk Fibroin Scaffolds Have the Same Ability in Attracting Vessels. <i>Frontiers in Physiology</i> , 2016 , 7, 140	4.6	28
28	Tissue mechanics of piled critical size biomimetic and biomineralizable nanocomposites: Formation of bioreactor-induced stem cell gradients under perfusion and compression. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 47, 124-134	4.1	16
27	History and performance of implant materials applied as peritendinous antiadhesives. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 212-28	3.5	17
26	Comparison of medetomidine, thiopental and ketamine/midazolam anesthesia in chick embryos for in ovo Magnetic Resonance Imaging free of motion artifacts. <i>Scientific Reports</i> , 2015 , 5, 15536	4.9	10
25	Synthesis, characterization and histomorphometric analysis of cellular response to a new elastic DegraPol ^h polymer for rabbit Achilles tendon rupture repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 584-94	4.4	16
24	A new in vivo magnetic resonance imaging method to noninvasively monitor and quantify the perfusion capacity of three-dimensional biomaterials grown on the chorioallantoic membrane of chick embryos. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 339-46	2.9	16
23	Proliferation of ASC-derived endothelial cells in a 3D electrospun mesh: impact of bone-biomimetic nanocomposite and co-culture with ASC-derived osteoblasts. <i>Injury</i> , 2014 , 45, 974-80	2.5	26
22	Prevention of peritendinous adhesions using an electrospun DegraPol polymer tube: a histological, ultrasonographic, and biomechanical study in rabbits. <i>BioMed Research International</i> , 2014 , 2014, 656240 ³		18
21	Bioactive nanocomposite for chest-wall replacement: Cellular response in a murine model. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 36-45	2.9	10
20	Correspondence of high-frequency ultrasound and histomorphometry of healing rabbit Achilles tendon tissue. <i>Connective Tissue Research</i> , 2014 , 55, 123-31	3.3	8
19	Cellular response of healing tissue to DegraPol tube implantation in rabbit Achilles tendon rupture repair: an in vivo histomorphometric study. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013 , 7, 413-20	4.4	18

18	Yield and proliferation rate of adipose-derived stromal cells as a function of age, body mass index and harvest site-increasing the yield by use of adherent and supernatant fractions?. <i>Cytotherapy</i> , 2013 , 15, 1098-105	4.8	50
17	Effect of N-acetylcysteine on acute allograft rejection after rat lung transplantation. <i>Annals of Thoracic Surgery</i> , 2013 , 95, 1021-7	2.7	12
16	2D motion analysis of rabbits after Achilles tendon rupture repair and histological analysis of extracted tendons: can the number of animals be reduced by operating both hind legs simultaneously?. <i>Injury</i> , 2013 , 44, 1302-8	2.5	6
15	Tissue engineered bone grafts based on biomimetic nanocomposite PLGA/amorphous calcium phosphate scaffold and human adipose-derived stem cells. <i>Injury</i> , 2012 , 43, 1689-97	2.5	70
14	Small hook thread (Quill) and soft felt internal splint to increase the primary repair strength of lacerated rabbit Achilles tendons: biomechanical analysis and considerations for hand surgery. <i>Clinical Biomechanics</i> , 2011 , 26, 626-31	2.2	12
13	Three-dimensional co-cultures of osteoblasts and endothelial cells in DegraPol foam: histological and high-field magnetic resonance imaging analyses of pre-engineered capillary networks in bone grafts. <i>Tissue Engineering - Part A</i> , 2011 , 17, 291-9	3.9	40
12	Impact of sulfate reduction on the scale of arsenic contamination in groundwater of the Mekong, Bengal and Red River deltas. <i>Applied Geochemistry</i> , 2009 , 24, 1278-1286	3.5	97
11	Contamination of drinking water resources in the Mekong delta floodplains: arsenic and other trace metals pose serious health risks to population. <i>Environment International</i> , 2008 , 34, 756-64	12.9	207
10	Hydrological and sedimentary controls leading to arsenic contamination of groundwater in the Hanoi area, Vietnam: The impact of iron-arsenic ratios, peat, river bank deposits, and excessive groundwater abstraction. <i>Chemical Geology</i> , 2008 , 249, 91-112	4.2	195
9	Arsenic and manganese contamination of drinking water resources in Cambodia: coincidence of risk areas with low relief topography. <i>Environmental Science & Technology</i> , 2007 , 41, 2146-52	10.3	194
8	Arsenite and arsenate binding to dissolved humic acids: influence of pH, type of humic acid, and aluminum. <i>Environmental Science & Technology</i> , 2006 , 40, 6015-20	10.3	269
7	Photoirradiation of dissolved humic acid induces arsenic(III) oxidation. <i>Environmental Science & Technology</i> , 2005 , 39, 9541-6	10.3	57
6	Photoinduced oxidation of antimony(III) in the presence of humic acid. <i>Environmental Science & Technology</i> , 2005 , 39, 5335-41	10.3	76
5	Antimony(III) binding to humic substances: influence of pH and type of humic acid. <i>Environmental Science & Technology</i> , 2004 , 38, 4535-41	10.3	136
4	Adsorption of organic vapors to air-dry soils: model predictions and experimental validation. <i>Environmental Science & Technology</i> , 2004 , 38, 3667-73	10.3	61
3	Determination of the surface sorption properties of talc, different salts, and clay minerals at various relative humidities using adsorption data of a diverse set of organic vapors. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 2667-72	3.8	33
2	Iron Porphyrin and Cysteine Mediated Reduction of Ten Polyhalogenated Methanes in Homogeneous Aqueous Solution: Product Analyses and Mechanistic Considerations. <i>Environmental Science & Technology</i> , 1999 , 33, 1015-1020	10.3	31
1	Iron Porphyrin and Mercaptojuglone Mediated Reduction of Polyhalogenated Methanes and Ethanes in Homogeneous Aqueous Solution. <i>Environmental Science & Technology</i> , 1998 , 32, 2431-2437	10.3	69

