

Johanna Buschmann

List of Publications by Citations

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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 | 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | 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 |
| 66 | 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 |
| 65 | Photoinduced oxidation of antimony(III) in the presence of humic acid. <i>Environmental Science & Technology</i> , 2005 , 39, 5335-41 | 10.3 | 76 |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 |
| 61 | Photoirradiation of dissolved humic acid induces arsenic(III) oxidation. <i>Environmental Science & Technology</i> , 2005 , 39, 9541-6 | 10.3 | 57 |
| 60 | 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 |
| 59 | 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 |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |

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| 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 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | Structure and function of tendon and ligament tissues 2017 , 3-29 | | 17 |
| 47 | 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 |
| 46 | Synthesis, characterization and histomorphometric analysis of cellular response to a new elastic DegraPol polymer for rabbit Achilles tendon rupture repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 584-94 | 4.4 | 16 |
| 45 | 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 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |

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| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | High-affinity Cu(I) chelator PSP-2 as potential anti-angiogenic agent. <i>Scientific Reports</i> , 2019 , 9, 14055 | 4.9 | 7 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | Mechanobiology of tendons and ligaments 2017 , 63-80 | | 4 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |

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| 18 | Delineation of the healthy rabbit kidney by immunohistochemistry - A technical note. <i>Acta Histochemica</i> , 2021 , 123, 151701 | 2 | 3 |
| 17 | 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 |
| 16 | Delineation of the healthy rabbit lung by immunohistochemistry - a technical note. <i>Acta Histochemica</i> , 2020 , 122, 151648 | 2 | 2 |
| 15 | 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 |
| 14 | Role of cellular response in the healing process of tendons and ligaments 2017 , 301-317 | | 1 |
| 13 | Biomechanical properties of tendons and ligaments in humans and animals 2017 , 31-61 | | 1 |
| 12 | 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 |
| 11 | Suspension of Amorphous Calcium Phosphate Nanoparticles Impact Commitment of Human Adipose-Derived Stem Cells In Vitro. <i>Biology</i> , 2021 , 10, | 4.9 | 1 |
| 10 | Delineation of the healthy rabbit liver by immunohistochemistry - A technical note. <i>Acta Histochemica</i> , 2021 , 123, 151795 | 2 | 0 |
| 9 | 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 |
| 8 | Synthetic polymer scaffolds for tendon and ligament repair 2017 , 225-250 | | |
| 7 | Cell therapies for tendons and ligament repair 2017 , 251-276 | | |
| 6 | Evolving treatments and emerging strategies for tendon and ligament reconstruction 2017 , 319-331 | | |
| 5 | Experimental methods for measuring tendon and ligament biomechanics 2017 , 81-99 | | |
| 4 | Autograft, allograft, and xenograft scaffolds for tendon and ligament repair: Materials and biomechanics 2017 , 155-192 | | |
| 3 | Collagen for tendon and ligament repair: Preparations and biomechanics 2017 , 193-224 | | |
| 2 | In vitro and vivo biomechanical performance of tissue-engineered constructs for tendon and ligament repair 2017 , 277-300 | | |
| 1 | Imaging of tendons and ligaments in animal models 2017 , 101-151 | | |

