

Debby Gawlitta

List of Publications by Year in descending order

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66
papers

4,466
citations

126708

33
h-index

143772

57
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69
all docs

69
docs citations

69
times ranked

5985
citing authors

#	ARTICLE	IF	CITATIONS
1	Gelatin-Methacryloyl Hydrogels: Towards Biofabrication-Based Tissue Repair. <i>Trends in Biotechnology</i> , 2016, 34, 394-407.	4.9	599
2	Properties of engineered vascular constructs made from collagen, fibrin, and collagen-fibrin mixtures. <i>Biomaterials</i> , 2004, 25, 3699-3706.	5.7	276
3	Yield stress determines bioprintability of hydrogels based on gelatin-methacryloyl and gellan gum for cartilage bioprinting. <i>Biofabrication</i> , 2016, 8, 035003.	3.7	261
4	In vivo biocompatibility and biodegradation of 3D-printed porous scaffolds based on a hydroxyl-functionalized poly(μ -caprolactone). <i>Biomaterials</i> , 2012, 33, 4309-4318.	5.7	217
5	Bio-resin for high resolution lithography-based biofabrication of complex cell-laden constructs. <i>Biofabrication</i> , 2018, 10, 034101.	3.7	216
6	Endochondral bone formation in gelatin methacrylamide hydrogel with embedded cartilage-derived matrix particles. <i>Biomaterials</i> , 2015, 37, 174-182.	5.7	153
7	The Relative Contributions of Compression and Hypoxia to Development of Muscle Tissue Damage: An In Vitro Study. <i>Annals of Biomedical Engineering</i> , 2007, 35, 273-284.	1.3	138
8	Deep Tissue Injury: How Deep is Our Understanding?. <i>Archives of Physical Medicine and Rehabilitation</i> , 2008, 89, 1410-1413.	0.5	137
9	Visible Light Cross-Linking of Gelatin Hydrogels Offers an Enhanced Cell Microenvironment with Improved Light Penetration Depth. <i>Macromolecular Bioscience</i> , 2019, 19, e1900098.	2.1	127
10	In vitro induction of alkaline phosphatase levels predicts in vivo bone forming capacity of human bone marrow stromal cells. <i>Stem Cell Research</i> , 2014, 12, 428-440.	0.3	126
11	Covalent attachment of a three-dimensionally printed thermoplast to a gelatin hydrogel for mechanically enhanced cartilage constructs. <i>Acta Biomaterialia</i> , 2014, 10, 2602-2611.	4.1	123
12	Preparation and characterization of a three-dimensional printed scaffold based on a functionalized polyester for bone tissue engineering applications. <i>Acta Biomaterialia</i> , 2011, 7, 1999-2006.	4.1	120
13	Does Implant Coating With Antibacterial-Loaded Hydrogel Reduce Bacterial Colonization and Biofilm Formation in Vitro?. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 3311-3323.	0.7	118
14	A Synthetic Thermosensitive Hydrogel for Cartilage Bioprinting and Its Biofunctionalization with Polysaccharides. <i>Biomacromolecules</i> , 2016, 17, 2137-2147.	2.6	111
15	Selection of an Optimal Antiseptic Solution for Intraoperative Irrigation. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 285-291.	1.4	97
16	Temporal differences in the influence of ischemic factors and deformation on the metabolism of engineered skeletal muscle. <i>Journal of Applied Physiology</i> , 2007, 103, 464-473.	1.2	91
17	Three-Dimensional Bioprinting and Its Potential in the Field of Articular Cartilage Regeneration. <i>Cartilage</i> , 2017, 8, 327-340.	1.4	90
18	Scaffold Porosity and Oxygenation of Printed Hydrogel Constructs Affect Functionality of Embedded Osteogenic Progenitors. <i>Tissue Engineering - Part A</i> , 2011, 17, 2473-2486.	1.6	86

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19	Development of a thermosensitive HAMA-containing bio-ink for the fabrication of composite cartilage repair constructs. <i>Biofabrication</i> , 2017, 9, 015026.	3.7	85
20	Modulating Endochondral Ossification of Multipotent Stromal Cells for Bone Regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2010, 16, 385-395.	2.5	82
21	Heterotypic Scaffold Design Orchestrates Primary Cell Organization and Phenotypes in Cocultured Small Diameter Vascular Grafts. <i>Advanced Functional Materials</i> , 2019, 29, 1905987.	7.8	82
22	Bio-ink development for three-dimensional bioprinting of hetero-cellular cartilage constructs. <i>Connective Tissue Research</i> , 2020, 61, 137-151.	1.1	78
23	Direct Cell-Cell Contact with Chondrocytes Is a Key Mechanism in Multipotent Mesenchymal Stromal Cell-Mediated Chondrogenesis. <i>Tissue Engineering - Part A</i> , 2015, 21, 2536-2547.	1.6	70
24	A Versatile Biosynthetic Hydrogel Platform for Engineering of Tissue Analogues. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900979.	3.9	69
25	Hypoxia Impedes Hypertrophic Chondrogenesis of Human Multipotent Stromal Cells. <i>Tissue Engineering - Part A</i> , 2012, 18, 1957-1966.	1.6	68
26	Decellularized Cartilage-Derived Matrix as Substrate for Endochondral Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2015, 21, 694-703.	1.6	61
27	The free diffusion of macromolecules in tissue-engineered skeletal muscle subjected to large compression strains. <i>Journal of Biomechanics</i> , 2008, 41, 845-853.	0.9	52
28	Zonal Chondrocyte Subpopulations Reacquire Zone-Specific Characteristics during in Vitro Redifferentiation. <i>American Journal of Sports Medicine</i> , 2009, 37, 97-104.	1.9	45
29	The Influence of Serum-Free Culture Conditions on Skeletal Muscle Differentiation in a Tissue-Engineered Model. <i>Tissue Engineering - Part A</i> , 2008, 14, 161-171.	1.6	44
30	Layer-specific cell differentiation in bi-layered vascular grafts under flow perfusion. <i>Biofabrication</i> , 2020, 12, 015009.	3.7	43
31	Engineering of a complex bone tissue model with endothelialised channels and capillary-like networks. , 2018, 35, 335-349.		40
32	High-resolution lithographic biofabrication of hydrogels with complex microchannels from low-temperature-soluble gelatin bioresins. <i>Materials Today Bio</i> , 2021, 12, 100162.	2.6	38
33	The impact of immune response on endochondral bone regeneration. <i>Npj Regenerative Medicine</i> , 2018, 3, 22.	2.5	37
34	Flow-perfusion interferes with chondrogenic and hypertrophic matrix production by mesenchymal stem cells. <i>Journal of Biomechanics</i> , 2014, 47, 2122-2129.	0.9	35
35	Multipotent Stromal Cells Outperform Chondrocytes on Cartilage-Derived Matrix Scaffolds. <i>Cartilage</i> , 2014, 5, 221-230.	1.4	30
36	Hyaluronic Acid-Based Hydrogel Coating Does Not Affect Bone Apposition at the Implant Surface in a Rabbit Model. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 1911-1919.	0.7	28

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37	Development and Characterization of Gelatinâ€Norborene Bioink to Understand the Interplay between Physical Architecture and Microâ€Ncapillary Formation in Biofabricated Vascularized Constructs. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101873.	3.9	28
38	Taking the endochondral route to craniomaxillofacial bone regeneration: A logical approach?. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 1099-1106.	0.7	27
39	Three-dimensional assembly of tissue-engineered cartilage constructs results in cartilaginous tissue formation without retainment of zonal characteristics. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 315-324.	1.3	26
40	Evaluation of a Continuous Quantification Method of Apoptosis and Necrosis in Tissue Cultures. <i>Cytotechnology</i> , 2004, 46, 139-150.	0.7	25
41	Ex vivo model unravelling cell distribution effect in hydrogels for cartilage repair. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018, 35, 65-76.	0.9	25
42	Effect of donor variation on osteogenesis and vasculogenesis in hydrogel cocultures. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 433-445.	1.3	24
43	The chondrogenic differentiation potential of dental pulp stem cells. , 2020, 39, 121-135.		22
44	Hypoxia Impedes Vasculogenesis of <i>In Vitro</i> Engineered Bone. <i>Tissue Engineering - Part A</i> , 2012, 18, 208-218.	1.6	21
45	Intact vitreous humor as a potential extracellular matrix hydrogel for cartilage tissue engineering applications. <i>Acta Biomaterialia</i> , 2019, 85, 117-130.	4.1	20
46	Microstructured Î²-Tricalcium Phosphate Putty versus Autologous Bone for Repair of Alveolar Clefts in a Goat Model. <i>Cleft Palate-Craniofacial Journal</i> , 2017, 54, 699-706.	0.5	18
47	Complete regeneration of large bone defects in rats with commercially available fibrin loaded with BMP-2. , 2019, 38, 94-105.		18
48	Inflammation-Induced Osteogenesis in a Rabbit Tibia Model. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 673-685.	1.1	17
49	The non-linear mechanical properties of soft engineered biological tissues determined by finite spherical indentation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008, 11, 585-592.	0.9	16
50	Missed low-grade infection in suspected aseptic loosening has no consequences for the survival of total hip arthroplasty. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 86, 678-83.	1.2	16
51	Endochondral Bone Regeneration by Non-autologous Mesenchymal Stem Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 651.	2.0	15
52	Prophylaxis of implant-related infections by local release of vancomycin from a hydrogel in rabbits. , 2020, 39, 108-120.		15
53	Impact of Endotoxins in Gelatine Hydrogels on Chondrogenic Differentiation and Inflammatory Cytokine Secretion <i>In Vitro</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 8571.	1.8	14
54	Numerical Analysis of Ischemia- and Compression-Induced Injury in Tissue-Engineered Skeletal Muscle Constructs. <i>Annals of Biomedical Engineering</i> , 2010, 38, 570-582.	1.3	9

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55	Gel Casting as an Approach for Tissue Engineering of Multilayered Tubular Structures. Tissue Engineering - Part C: Methods, 2020, 26, 190-198.	1.1	9
56	Contrast enhanced computed tomography for real-time quantification of glycosaminoglycans in cartilage tissue engineered constructs. Acta Biomaterialia, 2019, 100, 202-212.	4.1	7
57	Cardiovascular Tissue Engineering and Regeneration: A Plea for Further Knowledge Convergence. Tissue Engineering - Part A, 2022, 28, 525-541.	1.6	6
58	Acceleration of Bone Regeneration Induced by a Soft Callus Mimetic Material. Advanced Science, 2022, 9, e2103284.	5.6	6
59	An <i>In Vitro</i> Model to Test the Influence of Immune Cell Secretome on Mesenchymal Stromal Cell Osteogenic Differentiation. Tissue Engineering - Part C: Methods, 2022, 28, 420-430.	1.1	5
60	The Influence of Serum-Free Culture Conditions on Skeletal Muscle Differentiation in a Tissue-Engineered Model. Tissue Engineering, 2008, 14, 161-171.	4.9	2
61	52. Calcium phosphates with submicron topography enhance human macrophage M2 polarization in vitro. Spine Journal, 2020, 20, S25.	0.6	1
62	The hunt for a replenishable MSC source to create (genetically manipulatable) ectopic human hematopoietic bone marrow niches. Experimental Hematology, 2013, 41, S66.	0.2	0
63	Donor dependence in stem cell-based generation of prevascularized bone tissue constructs. International Journal of Oral and Maxillofacial Surgery, 2015, 44, e250.	0.7	0
64	Gel casting as an approach for tissue engineering of multilayered tubular structures: Application for urethral reconstruction. European Urology Supplements, 2018, 17, e396-e397.	0.1	0
65	Ischemic Factors and Deformation Influence Metabolism of Engineered Skeletal Muscle. , 2007, , .		0
66	In Vitro Muscle Model Studies. , 2005, , 287-300.		0