

# Dietmar Werner Hutmacher

## 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.

484  
papers

42,812  
citations

99  
h-index

195  
g-index

536  
ext. papers

47,591  
ext. citations

7.3  
avg, IF

7.92  
L-index

#	Paper	IF	Citations
484	Cognitive Bias and Therapy Choice in Breast Reconstruction Surgery Decision-Making.. <i>Plastic and Reconstructive Surgery</i> , <b>2022</b> ,	2.7	1
483	An Open Source Technology Platform to Manufacture Hydrogel-Based 3D Culture Models in an Automated and Standardized Fashion.. <i>Journal of Visualized Experiments</i> , <b>2022</b> ,	1.6	1
482	Technology roadmap for the development of a 3D cell culture workstation for a biomedical industry startup. <i>Technological Forecasting and Social Change</i> , <b>2022</b> , 174, 121213	9.5	1
481	Mechanical and Geometrical Study of 3D Printed Voronoi Scaffold Design for Large Bone Defects. <i>Materials and Design</i> , <b>2021</b> , 212, 110224	8.1	1
480	Label-free isolation and cultivation of patient-matched human mammary epithelial and stromal cells from normal breast tissue. <i>European Journal of Cell Biology</i> , <b>2021</b> , 100, 151187	6.1	0
479	Automated melt electrowriting platform with real-time process monitoring. <i>HardwareX</i> , <b>2021</b> , 10, e00246	4.6	0
478	Gelatin Methacryloyl Hydrogels for the Localized Delivery of Cefazolin. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
477	Ultrafast, miniature soft actuators. <i>Multifunctional Materials</i> , <b>2021</b> , 4, 045001	5.2	7
476	Antibacterial Albumin-Tannic Acid Coatings for Scaffold-Guided Breast Reconstruction. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 638577	5.8	1
475	Elucidating the Molecular Mechanisms for the Interaction of Water with Polyethylene Glycol-Based Hydrogels: Influence of Ionic Strength and Gel Network Structure. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
474	Deciphering the Molecular Mechanism of Water Interaction with Gelatin Methacryloyl Hydrogels: Role of Ionic Strength, pH, Drug Loading and Hydrogel Network Characteristics. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	4
473	A humanised rat model of osteosarcoma reveals ultrastructural differences between bone and mineralised tumour tissue. <i>Bone</i> , <b>2021</b> , 116018	4.7	1
472	A Preclinical Animal Model for the Study of Scaffold-Guided Breast Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , <b>2021</b> , 27, 366-377	2.9	1
471	Convergence of Machine Vision and Melt Electrowriting. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100519	24	11
470	A Suite of Activity-Based Probes To Dissect the KLK Activome in Drug-Resistant Prostate Cancer. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 8911-8924	16.4	6
469	An open-source technology platform to increase reproducibility and enable high-throughput production of tailorable gelatin methacryloyl (GelMA) - based hydrogels. <i>Materials and Design</i> , <b>2021</b> , 204, 109619	8.1	3
468	In vitro engineering of a bone metastases model allows for study of the effects of antiandrogen therapies in advanced prostate cancer. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	3

467	The Patenting and Technological Trends in Hernia Mesh Implants. <i>Tissue Engineering - Part B: Reviews</i> , <b>2021</b> , 27, 48-73	7.9	1
466	Convergence of 3D printed biomimetic wound dressings and adult stem cell therapy. <i>Biomaterials</i> , <b>2021</b> , 268, 120558	15.6	21
465	Targeted 2D histology and ultrastructural bone analysis based on 3D microCT anatomical locations. <i>MethodsX</i> , <b>2021</b> , 8, 101480	1.9	1
464	Automated 3D Microphysiometry Facilitates High-Content and Highly Reproducible Oxygen Measurements within 3D Cell Culture Models. <i>ACS Sensors</i> , <b>2021</b> , 6, 1248-1260	9.2	3
463	Knowledge, consultation time, and choice in breast reconstruction. <i>British Journal of Surgery</i> , <b>2021</b> , 108, e168-e169	5.3	2
462	A humanized orthotopic tumor microenvironment alters the bone metastatic tropism of prostate cancer cells. <i>Communications Biology</i> , <b>2021</b> , 4, 1014	6.7	3
461	Tissue engineering of corneal stroma via melt electrowriting. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2021</b> , 15, 841-851	4.4	4
460	: An Algorithm for Standardization and Automation of Compression Test Analysis. <i>Tissue Engineering - Part C: Methods</i> , <b>2021</b> , 27, 529-542	2.9	2
459	Engineering a 3D bone marrow adipose composite tissue loading model suitable for studying mechanobiological questions. <i>Materials Science and Engineering C</i> , <b>2021</b> , 128, 112313	8.3	2
458	Biomechanical Principles of Breast Implants and Current State of Research in Soft Tissue Engineering for Cosmetic Breast Augmentation. <i>Aesthetic Plastic Surgery</i> , <b>2021</b> , 1	2	1
457	Scaffold-guided bone regeneration in large volume tibial segmental defects. <i>Bone</i> , <b>2021</b> , 153, 116163	4.7	4
456	Convergence of scaffold-guided bone regeneration and RIA bone grafting for the treatment of a critical-sized bone defect of the femoral shaft. <i>European Journal of Medical Research</i> , <b>2020</b> , 25, 70	4.8	10
455	OpenWorkstation: A modular open-source technology for automated workflows.. <i>HardwareX</i> , <b>2020</b> , 8, e00152	2.7	11
454	Hydrogels as Drug Delivery Systems: A Review of Current Characterization and Evaluation Techniques. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	48
453	Layered Antimicrobial Selenium Nanoparticle-Calcium Phosphate Coating on 3D Printed Scaffolds Enhanced Bone Formation in Critical Size Defects. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 55638-55648	9.5	11
452	Polydopamine coating of uncrosslinked chitosan as an acellular scaffold for full thickness skin grafts. <i>Carbohydrate Polymers</i> , <b>2020</b> , 245, 116524	10.3	9
451	Gelatin Methacryloyl Hydrogels Control the Localized Delivery of Albumin-Bound Paclitaxel. <i>Polymers</i> , <b>2020</b> , 12,	4.5	19
450	The Current Versatility of Polyurethane Three-Dimensional Printing for Biomedical Applications. <i>Tissue Engineering - Part B: Reviews</i> , <b>2020</b> , 26, 272-283	7.9	27

449	A preclinical large-animal model for the assessment of critical-size load-bearing bone defect reconstruction. <i>Nature Protocols</i> , <b>2020</b> , 15, 877-924	18.8	29
448	Targeted camptothecin delivery via silicon nanoparticles reduces breast cancer metastasis. <i>Biomaterials</i> , <b>2020</b> , 240, 119791	15.6	40
447	Characterisation and evaluation of the regenerative capacity of Stro-4+ enriched bone marrow mesenchymal stromal cells using bovine extracellular matrix hydrogel and a novel biocompatible melt electro-written medical-grade polycaprolactone scaffold. <i>Biomaterials</i> , <b>2020</b> , 247, 119998	15.6	17
446	The Current State and Future of Regenerative Sports Medicine. <i>Future of Business and Finance</i> , <b>2020</b> , 133-149	0.2	
445	Breast Reconstruction Using Scaffold-Based Tissue Engineering <b>2020</b> , 279-290		3
444	Cancer-associated fibroblasts of the prostate promote a compliant and more invasive phenotype in benign prostate epithelial cells. <i>Materials Today Bio</i> , <b>2020</b> , 8, 100073	9.9	5
443	A 3D-printed biomaterials-based platform to advance established therapy avenues against primary bone cancers. <i>Acta Biomaterialia</i> , <b>2020</b> , 118, 69-82	10.8	6
442	Personalized, Mechanically Strong, and Biodegradable Coronary Artery Stents via Melt Electrowriting. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 1732-1739	6.6	11
441	Stromal fibroblasts regulate microvascular-like network architecture in a bioengineered breast tumour angiogenesis model. <i>Acta Biomaterialia</i> , <b>2020</b> , 114, 256-269	10.8	9
440	Melt Electrowriting of Complex 3D Anatomically Relevant Scaffolds. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 793	5.8	23
439	Human and mouse bones physiologically integrate in a humanized mouse model while maintaining species-specific ultrastructure. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	6
438	Effects of polydopamine coatings on nucleation modes of surface mineralization from simulated body fluid. <i>Scientific Reports</i> , <b>2020</b> , 10, 14982	4.9	7
437	The molecular function of kallikrein-related peptidase 14 demonstrates a key modulatory role in advanced prostate cancer. <i>Molecular Oncology</i> , <b>2020</b> , 14, 105-128	7.9	10
436	The Use of 3D Printed Microporous-Strut Polycaprolactone Scaffolds for Targeted Local Delivery of Chemotherapeutic Agent for Breast Cancer Application. <i>IFMBE Proceedings</i> , <b>2020</b> , 153-157	0.2	0
435	Addressing Patient Specificity in the Engineering of Tumor Models. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 217	5.8	30
434	Effect of gelatin source and photoinitiator type on chondrocyte redifferentiation in gelatin methacryloyl-based tissue-engineered cartilage constructs. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 1761-1772	7.3	56
433	Degradation mechanisms of polycaprolactone in the context of chemistry, geometry and environment. <i>Progress in Polymer Science</i> , <b>2019</b> , 96, 1-20	29.6	147
432	Recombinant Human Bone Morphogenetic Protein 7 Exerts Osteo-Catabolic Effects on Bone Grafts That Outweigh Its Osteo-Anabolic Capacity. <i>Calcified Tissue International</i> , <b>2019</b> , 105, 331-340	3.9	2

431	Immunogold FIB-SEM: Combining Volumetric Ultrastructure Visualization with 3D Biomolecular Analysis to Dissect Cell-Environment Interactions. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900488	24	12
430	Biologically Inspired Scaffolds for Heart Valve Tissue Engineering via Melt Electrowriting. <i>Small</i> , <b>2019</b> , 15, e1900873	11	80
429	A clarion call for understanding regulatory processes for additive manufacturing in the health sector. <i>Expert Review of Medical Devices</i> , <b>2019</b> , 16, 405-412	3.5	12
428	Engineering osteoblastic metastases to delineate the adaptive response of androgen-deprived prostate cancer in the bone metastatic microenvironment. <i>Bone Research</i> , <b>2019</b> , 7, 13	13.3	15
427	A humanized bone microenvironment uncovers HIF2 alpha as a latent marker for osteosarcoma. <i>Acta Biomaterialia</i> , <b>2019</b> , 89, 372-381	10.8	10
426	Periodontal Tissue Engineering with a Multiphasic Construct and Cell Sheets. <i>Journal of Dental Research</i> , <b>2019</b> , 98, 673-681	8.1	48
425	3D printed dual macro-, microscale porous network as a tissue engineering scaffold with drug delivering function. <i>Biofabrication</i> , <b>2019</b> , 11, 035014	10.5	26
424	Convergence of Scaffold-Guided Bone Reconstruction and Surgical Vascularization Strategies-A Quest for Axial Vascularization. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 448	5.8	8
423	The Next Frontier in Melt Electrospinning: Taming the Jet. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904664	4.6	106
422	Microenvironment engineering of osteoblastic bone metastases reveals osteomimicry of patient-derived prostate cancer xenografts. <i>Biomaterials</i> , <b>2019</b> , 220, 119402	15.6	12
421	In vitro disease models 4.0 via automation and high-throughput processing. <i>Biofabrication</i> , <b>2019</b> , 11, 043002	10.5	12
420	Selenium nanoparticles as anti-infective implant coatings for trauma orthopedics against methicillin-resistant and : in vitro and in vivo assessment. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 4613-4624	7.3	45
419	Investigation of Sustained BMP Delivery in the Prevention of Medication-Related Osteonecrosis of the Jaw (MRONJ) in a Rat Model. <i>Macromolecular Bioscience</i> , <b>2019</b> , 19, e1900226	5.5	7
418	Additive biomanufacturing of scaffolds for breast reconstruction. <i>Additive Manufacturing</i> , <b>2019</b> , 30, 100845	8.45	9
417	Humanized bone facilitates prostate cancer metastasis and recapitulates therapeutic effects of zoledronic acid in vivo. <i>Bone Research</i> , <b>2019</b> , 7, 31	13.3	9
416	Bioengineered Microtissue Models of the Human Bone Metastatic Microenvironment: A Novel In Vitro Theranostics Platform for Cancer Research. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2054, 23-57	1.4	4
415	Real-Time and 3D Quantification of Cancer Cell Dynamics: Exploiting a Bioengineered Human Bone Metastatic Microtissue. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2054, 59-77	1.4	1
414	A new 3D printed applicator with radioactive gel for conformal brachytherapy of superficial skin tumors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 6979-6982	0.9	2

413	Histomorphometric Evaluation of Critical-Sized Bone Defects Using Osteomeasure and Aperio Image Analysis Systems. <i>Tissue Engineering - Part C: Methods</i> , <b>2019</b> , 25, 732-741	2.9	5
412	Melt electrowriting of electroactive poly(vinylidene difluoride) fibers. <i>Polymer International</i> , <b>2019</b> , 68, 735-745	3.3	32
411	Design and Development of a Three-Dimensional Printing High-Throughput Melt Electrowriting Technology Platform. <i>3D Printing and Additive Manufacturing</i> , <b>2019</b> , 6, 82-90	4	20
410	Printomics: the high-throughput analysis of printing parameters applied to melt electrowriting. <i>Biofabrication</i> , <b>2019</b> , 11, 025004	10.5	30
409	Tuning mechanical reinforcement and bioactivity of 3D printed ternary nanocomposites by interfacial peptide-polymer conjugates. <i>Biofabrication</i> , <b>2019</b> , 11, 035028	10.5	14
408	Radium 223-Mediated Zonal Cytotoxicity of Prostate Cancer in Bone. <i>Journal of the National Cancer Institute</i> , <b>2019</b> , 111, 1042-1050	9.7	13
407	Tissue engineered human prostate microtissues reveal key role of mast cell-derived tryptase in potentiating cancer-associated fibroblast (CAF)-induced morphometric transition in vitro. <i>Biomaterials</i> , <b>2019</b> , 197, 72-85	15.6	21
406	Nipple Reconstruction: A Regenerative Medicine Approach Using 3D-Printed Tissue Scaffolds. <i>Tissue Engineering - Part B: Reviews</i> , <b>2019</b> , 25, 126-134	7.9	7
405	A 3D tumor microenvironment regulates cell proliferation, peritoneal growth and expression patterns. <i>Biomaterials</i> , <b>2019</b> , 190-191, 63-75	15.6	25
404	3D printed Polycaprolactone scaffolds with dual macro-microporosity for applications in local delivery of antibiotics. <i>Materials Science and Engineering C</i> , <b>2018</b> , 87, 78-89	8.3	64
403	Assessment of static and perfusion methods for decellularization of PCL membrane-supported periodontal ligament cell sheet constructs. <i>Archives of Oral Biology</i> , <b>2018</b> , 88, 67-76	2.8	16
402	The effect of decellularized tissue engineered constructs on periodontal regeneration. <i>Journal of Clinical Periodontology</i> , <b>2018</b> , 45, 586-596	7.7	18
401	Modelomics to Investigate Cancer Bone Metastasis. <i>Current Molecular Biology Reports</i> , <b>2018</b> , 4, 88-100	2	4
400	Animal models for bone tissue engineering and modelling disease. <i>DMM Disease Models and Mechanisms</i> , <b>2018</b> , 11,	4.1	114
399	Melt Electrospinning Writing of Highly Ordered Large Volume Scaffold Architectures. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706570	24	127
398	Electrospinning writing with molten poly( $\epsilon$ -caprolactone) from different directions [Examining the effects of gravity. <i>Materials Letters</i> , <b>2018</b> , 216, 114-118	3.3	14
397	Rational Design of Mouse Models for Cancer Research. <i>Trends in Biotechnology</i> , <b>2018</b> , 36, 242-251	15.1	50
396	Rational design and fabrication of multiphasic soft network composites for tissue engineering articular cartilage: A numerical model-based approach. <i>Chemical Engineering Journal</i> , <b>2018</b> , 340, 15-23	14.7	41

395	Meso-Endothelial Bipotent Progenitors from Human Placenta Display Distinct Molecular and Cellular Identity. <i>Stem Cell Reports</i> , <b>2018</b> , 10, 890-904	8	19
394	Humanization of bone and bone marrow in an orthotopic site reveals new potential therapeutic targets in osteosarcoma. <i>Biomaterials</i> , <b>2018</b> , 171, 230-246	15.6	27
393	A humanised tissue-engineered bone model allows species-specific breast cancer-related bone metastasis in vivo. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 494-504	4.4	15
392	Designification of Neurotechnological Devices through 3D Printed Functional Materials. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1703905	15.6	2
391	Intravital microscopy of osteolytic progression and therapy response of cancer lesions in the bone. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	33
390	Non-linear optical microscopy and histological analysis of collagen, elastin and lysyl oxidase expression in breast capsular contracture. <i>European Journal of Medical Research</i> , <b>2018</b> , 23, 30	4.8	5
389	Mineralization of plasma treated polymer surfaces from super-saturated simulated body fluids. <i>Materials Letters</i> , <b>2018</b> , 230, 12-15	3.3	7
388	The quest for mechanically and biologically functional soft biomaterials via soft network composites. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 132, 214-234	18.5	24
387	Independent Evaluation of Medical-Grade Bioresorbable Filaments for Fused Deposition Modelling/Fused Filament Fabrication of Tissue Engineered Constructs. <i>Polymers</i> , <b>2018</b> , 10,	4.5	27
386	SpheroidSim-Preliminary evaluation of a new computational tool to predict the influence of cell cycle time and phase fraction on spheroid growth. <i>Biotechnology Progress</i> , <b>2018</b> , 34, 1335-1343	2.8	
385	Immune system augmentation via humanization using stem/progenitor cells and bioengineering in a breast cancer model study. <i>International Journal of Cancer</i> , <b>2018</b> , 143, 1470-1482	7.5	23
384	Tissue Engineered Constructs for Periodontal Regeneration: Current Status and Future Perspectives. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800457	10.1	55
383	Conceptual design of a personalized radiation therapy patch for skin cancer. <i>Current Directions in Biomedical Engineering</i> , <b>2018</b> , 4, 607-610	0.5	5
382	Humanization of the Prostate Microenvironment Reduces Homing of PC3 Prostate Cancer Cells to Human Tissue-Engineered Bone. <i>Cancers</i> , <b>2018</b> , 10,	6.6	11
381	Engineering Anisotropic Muscle Tissue using Acoustic Cell Patterning. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802649	26.49	92
380	A Method for Prostate and Breast Cancer Cell Spheroid Cultures Using Gelatin Methacryloyl-Based Hydrogels. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1786, 175-194	1.4	11
379	Evaluation of polycaprolactone [poly-D,L-lactide copolymer as biomaterial for breast tissue engineering. <i>Polymer International</i> , <b>2017</b> , 66, 77-84	3.3	14
378	Scaffold-cell bone engineering in a validated preclinical animal model: precursors vs differentiated cell source. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 2081-2089	4.4	29

377	Breast Augmentation and Reconstruction from a Regenerative Medicine Point of View: State of the Art and Future Perspectives. <i>Tissue Engineering - Part B: Reviews</i> , <b>2017</b> , 23, 281-293	7.9	28
376	Antimicrobial and Immunomodulatory Surface-Functionalized Electrospun Membranes for Bone Regeneration. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1601345	10.1	40
375	Engineering a humanized bone organ model in mice to study bone metastases. <i>Nature Protocols</i> , <b>2017</b> , 12, 639-663	18.8	74
374	Kallikrein-related peptidase 4 induces cancer-associated fibroblast features in prostate-derived stromal cells. <i>Molecular Oncology</i> , <b>2017</b> , 11, 1307-1329	7.9	10
373	Current developments in multifunctional smart materials for 3D/4D bioprinting. <i>Current Opinion in Biomedical Engineering</i> , <b>2017</b> , 2, 67-75	4.4	47
372	3D printed lattices as an activation and expansion platform for T cell therapy. <i>Biomaterials</i> , <b>2017</b> , 140, 58-68	15.6	25
371	Via precise interface engineering towards bioinspired composites with improved 3D printing processability and mechanical properties. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 5037-5047	7.3	22
370	Structural analysis of photocrosslinkable methacryloyl-modified protein derivatives. <i>Biomaterials</i> , <b>2017</b> , 139, 163-171	15.6	96
369	Biofabricated soft network composites for cartilage tissue engineering. <i>Biofabrication</i> , <b>2017</b> , 9, 025014	10.5	100
368	Endosteal-like extracellular matrix expression on melt electrospun written scaffolds. <i>Acta Biomaterialia</i> , <b>2017</b> , 52, 145-158	10.8	51
367	3-Dimensional functionalized polycaprolactone-hyaluronic acid hydrogel constructs for bone tissue engineering. <i>Journal of Clinical Periodontology</i> , <b>2017</b> , 44, 428-437	7.7	33
366	Fabrication and Characterization of Decellularized Periodontal Ligament Cell Sheet Constructs. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1537, 403-412	1.4	8
365	Biomimic Design of Periosteum: Construction Strategies, Scaffold Design and Cell Sources. <i>Springer Series in Biomaterials Science and Engineering</i> , <b>2017</b> , 303-318	0.6	1
364	A Novel 3D Cultured Model for Studying Early Changes in Age-Related Macular Degeneration. <i>Macromolecular Bioscience</i> , <b>2017</b> , 17, 1700221	5.5	17
363	Mesenchymal stem/stromal cells enhance engraftment, vasculogenic and pro-angiogenic activities of endothelial colony forming cells in immunocompetent hosts. <i>Scientific Reports</i> , <b>2017</b> , 7, 13558	4.9	27
362	5.11 Engineering the Haematopoietic Stem Cell Niche In Vitro <b>2017</b> , 187-199		1
361	Effect of plasma immersion ion implantation on polycaprolactone with various molecular weights and crystallinity. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 29, 5	4.5	4
360	5.13 Electrospinning With Polymer Melts State of the Art and Future Perspectives <b>2017</b> , 217-235		7



359	Fetal Bone Marrow-Derived Mesenchymal Stem/Stromal Cells Enhance Humanization and Bone Formation of BMP7 Loaded Scaffolds. <i>Biotechnology Journal</i> , <b>2017</b> , 12, 1700414	5.6	8
358	Scaffold curvature-mediated novel biomineralization process originates a continuous soft tissue-to-bone interface. <i>Acta Biomaterialia</i> , <b>2017</b> , 60, 64-80	10.8	35
357	An Integrated Design, Material, and Fabrication Platform for Engineering Biomechanically and Biologically Functional Soft Tissues. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 29430-29437	9.5	66
356	Challenges and opportunities in the manufacture and expansion of cells for therapy. <i>Expert Opinion on Biological Therapy</i> , <b>2017</b> , 17, 1221-1233	5.4	10
355	A novel bioreactor system for biaxial mechanical loading enhances the properties of tissue-engineered human cartilage. <i>Scientific Reports</i> , <b>2017</b> , 7, 16997	4.9	61
354	6.3 Engineering the Organ Bone <b>2017</b> , 54-74		1
353	6.25 Breast Tissue Engineering <b>2017</b> , 435-454		
352	Priming of endothelial colony-forming cells in a mesenchymal niche improves engraftment and vasculogenic potential by initiating mesenchymal transition orchestrated by NOTCH signaling. <i>FASEB Journal</i> , <b>2017</b> , 31, 610-624	0.9	31
351	Periosteum tissue engineering in an orthotopic in vivo platform. <i>Biomaterials</i> , <b>2017</b> , 121, 193-204	15.6	62
350	Vascularised bone transfer: History, blood supply and contemporary problems. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2017</b> , 70, 1-11	1.7	12
349	Additive Biomanufacturing: An Advanced Approach for Periodontal Tissue Regeneration. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 12-22	4.7	61
348	Comparison of early osseointegration of SLA and SLActive implants in maxillary sinus augmentation: a pilot study. <i>Clinical Oral Implants Research</i> , <b>2017</b> , 28, 1325-1333	4.8	15
347	Melt Electrospinning Writing of Three-dimensional Poly(L-lactide) Scaffolds with Controllable Morphologies for Tissue Engineering Applications. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	20
346	Lycopene reduces ovarian tumor growth and intraperitoneal metastatic load. <i>American Journal of Cancer Research</i> , <b>2017</b> , 7, 1322-1336	4.4	8
345	Electrospinning Technology: Cellulose and Cellulose Derivatives <b>2017</b> , 506-546		
344	Growth Factor-Loaded Microparticles for Tissue Engineering: The Discrepancies of In Vitro Characterization Assays. <i>Tissue Engineering - Part C: Methods</i> , <b>2016</b> , 22, 142-154	2.9	8
343	Differential osteogenicity of multiple donor-derived human mesenchymal stem cells and osteoblasts in monolayer, scaffold-based 3D culture and in vivo. <i>Biomedizinische Technik</i> , <b>2016</b> , 61, 253-663	1.3	5
342	Examination of the foreign body response to biomaterials by nonlinear intravital microscopy. <i>Nature Biomedical Engineering</i> , <b>2016</b> , 1,	19	98

341 Periodontal tissue engineering **2016**, 124-144

340 Tissue engineering and regenerative medicine in musculoskeletal oncology. *Cancer and Metastasis Reviews*, **2016**, 35, 475-87 9.6 20

339 Transformation of Breast Reconstruction via Additive Biomanufacturing. *Scientific Reports*, **2016**, 6, 28030 51

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