

Joerg Tessmar

List of Publications by Year in descending order

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77
papers

4,250
citations

136740

32
h-index

110170

64
g-index

77
all docs

77
docs citations

77
times ranked

5911
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrices and scaffolds for protein delivery in tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 274-291.	6.6	320
2	Polyanhydride degradation and erosion. <i>Advanced Drug Delivery Reviews</i> , 2002, 54, 911-931.	6.6	277
3	Thiol-ene Clickable Gelatin: A Platform Bioink for Multiple 3D Biofabrication Technologies. <i>Advanced Materials</i> , 2017, 29, 1703404.	11.1	248
4	Hydrogel-based drug delivery systems: Comparison of drug diffusivity and release kinetics. <i>Journal of Controlled Release</i> , 2010, 142, 221-228.	4.8	221
5	Transforming growth factor- β 1 release from oligo(poly(ethylene glycol) fumarate) hydrogels in conditions that model the cartilage wound healing environment. <i>Journal of Controlled Release</i> , 2004, 94, 101-114.	4.8	192
6	Customized PEG-Derived Copolymers for Tissue-Engineering Applications. <i>Macromolecular Bioscience</i> , 2007, 7, 23-39.	2.1	183
7	Direct 3D powder printing of biphasic calcium phosphate scaffolds for substitution of complex bone defects. <i>Biofabrication</i> , 2014, 6, 015006.	3.7	180
8	Polymer coating of quantum dots – A powerful tool toward diagnostics and sensorics. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 68, 138-152.	2.0	169
9	Biodegradable poly(D,L-lactic acid)-poly(ethylene glycol)-monomethyl ether diblock copolymers: structures and surface properties relevant to their use as biomaterials. <i>Biomaterials</i> , 2000, 21, 2361-2370.	5.7	166
10	Biomimetic polymers in pharmaceutical and biomedical sciences. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2004, 58, 385-407.	2.0	161
11	Double printing of hyaluronic acid/poly(glycidol) hybrid hydrogels with poly(ϵ -caprolactone) for MSC chondrogenesis. <i>Biofabrication</i> , 2017, 9, 044108.	3.7	119
12	In Vitro and In Vivo Cartilage Engineering Using a Combination of Chondrocyte-Seeded Long-Term Stable Fibrin Gels and Polycaprolactone-Based Polyurethane Scaffolds. <i>Tissue Engineering</i> , 2007, 13, 2207-2218.	4.9	117
13	Basic fibroblast growth factor enhances PPAR γ ligand-induced adipogenesis of mesenchymal stem cells. <i>FEBS Letters</i> , 2004, 577, 277-283.	1.3	96
14	Thiol-ene Clickable Poly(glycidol) Hydrogels for Biofabrication. <i>Annals of Biomedical Engineering</i> , 2017, 45, 273-285.	1.3	86
15	Does UV irradiation affect polymer properties relevant to tissue engineering?. <i>Surface Science</i> , 2001, 491, 333-345.	0.8	83
16	Poly(D,L-lactic acid)-Poly(ethylene glycol)-Monomethyl Ether Diblock Copolymers Control Adhesion and Osteoblastic Differentiation of Marrow Stromal Cells. <i>Tissue Engineering</i> , 2003, 9, 71-84.	4.9	82
17	Enzymatically degradable poly(ethylene glycol) based hydrogels for adipose tissue engineering. <i>Biomaterials</i> , 2010, 31, 3957-3966.	5.7	82
18	Hyaluronic Acid-Based Bioink Composition Enabling 3D Bioprinting and Improving Quality of Deposited Cartilaginous Extracellular Matrix. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000737.	3.9	81

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19	Improving alginate printability for biofabrication: establishment of a universal and homogeneous pre-crosslinking technique. <i>Biofabrication</i> , 2020, 12, 045004.	3.7	81
20	Mediating specific cell adhesion to low-adhesive diblock copolymers by instant modification with cyclic RGD peptides. <i>Biomaterials</i> , 2005, 26, 2333-2341.	5.7	68
21	Ligand-functionalized nanoparticles target endothelial cells in retinal capillaries after systemic application. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6115-6120.	3.3	57
22	Towards biomimetic scaffolds: Anhydrous scaffold fabrication from biodegradable amine-reactive diblock copolymers. <i>Biomaterials</i> , 2003, 24, 4459-4473.	5.7	56
23	The use of poly(ethylene glycol)-block-poly(lactic acid) derived copolymers for the rapid creation of biomimetic surfaces. <i>Biomaterials</i> , 2003, 24, 4475-4486.	5.7	52
24	G protein-coupled receptors function as logic gates for nanoparticle binding and cell uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10667-10672.	3.3	51
25	The effect of poly(ethylene glycol)-poly(D,L-lactic acid) diblock copolymers on peptide acylation. <i>Journal of Controlled Release</i> , 2002, 80, 157-168.	4.8	48
26	Enhanced bone morphogenetic protein-2 performance on hydroxyapatite ceramic surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 959-971.	2.1	48
27	Bioprinting and Differentiation of Adipose-Derived Stromal Cell Spheroids for a 3D Breast Cancer-Adipose Tissue Model. <i>Cells</i> , 2021, 10, 803.	1.8	46
28	In Vivo Development and Long-Term Survival of Engineered Adipose Tissue Depend on In Vitro Precultivation Strategy. <i>Tissue Engineering - Part A</i> , 2008, 14, 275-284.	1.6	45
29	Kidney Podocytes as Specific Targets for cyclo(RGDfC)-Modified Nanoparticles. <i>Small</i> , 2012, 8, 3368-3375.	5.2	42
30	Biodegradable Hydrogels for Time-Controlled Release of Tethered Peptides or Proteins. <i>Biomacromolecules</i> , 2010, 11, 496-504.	2.6	41
31	Melt electrospinning writing of defined scaffolds using polylactide-poly(ethylene glycol) blends with 45S5 bioactive glass particles. <i>Materials Letters</i> , 2017, 205, 257-260.	1.3	39
32	Poly(Ethylene Glycol) Based Hydrogels for Intraocular Applications. <i>Advanced Engineering Materials</i> , 2007, 9, 1141-1149.	1.6	38
33	Evaluation of Hydrogels Based on Oxidized Hyaluronic Acid for Bioprinting. <i>Gels</i> , 2018, 4, 82.	2.1	34
34	Influence of wettability and surface activity on release behavior of hydrophilic substances from lipid matrices. <i>Journal of Controlled Release</i> , 2007, 119, 173-181.	4.8	33
35	Cyclodextrin based hydrogels: Inclusion complex formation and micellization of adamantane and cholesterol grafted polymers. <i>Polymer</i> , 2011, 52, 4806-4812.	1.8	32
36	Self-Assembling Colloidal System for the Ocular Administration of Cyclosporine A. <i>Cornea</i> , 2014, 33, 77-81.	0.9	28

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37	Tethered TGF- β 1 in a Hyaluronic Acid-Based Bioink for Bioprinting Cartilaginous Tissues. <i>International Journal of Molecular Sciences</i> , 2022, 23, 924.	1.8	26
38	Developing an in situ nanosuspension: A novel approach towards the efficient administration of poorly soluble drugs at the anterior eye. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 50, 385-392.	1.9	25
39	TGF- β 1-Modified Hyaluronic Acid/Poly(glycidol) Hydrogels for Chondrogenic Differentiation of Human Mesenchymal Stromal Cells. <i>Macromolecular Bioscience</i> , 2018, 18, e1700390.	2.1	25
40	Ascorbic Acid Modulates Proliferation and Extracellular Matrix Accumulation of Hyalocytes. <i>Tissue Engineering</i> , 2007, 13, 1281-1289.	4.9	23
41	Permanent Hydrophilization and Generic Bioactivation of Melt Electrowritten Scaffolds. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801544.	3.9	23
42	Size-dependent release of fluorescent macromolecules and nanoparticles from radically cross-linked hydrogels. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 74, 184-192.	2.0	22
43	Comparison of Hydrogels for the Development of Well-Defined 3D Cancer Models of Breast Cancer and Melanoma. <i>Cancers</i> , 2020, 12, 2320.	1.7	22
44	Multivalent targeting of AT1 receptors with angiotensin II-functionalized nanoparticles. <i>Journal of Drug Targeting</i> , 2015, 23, 681-689.	2.1	21
45	Confocal Microscopy for the Elucidation of Mass Transport Mechanisms Involved in Protein Release from Lipid-based Matrices. <i>Pharmaceutical Research</i> , 2007, 24, 1325-1335.	1.7	19
46	Product-oriented chemical surface modification of a levansucrase (SacB) via an ene-type reaction. <i>Chemical Science</i> , 2018, 9, 5312-5321.	3.7	19
47	Toward the Development of Biomimetic Polymers by Protein Immobilization: PEGylation of Insulin as a Model Reaction. <i>Tissue Engineering</i> , 2004, 10, 441-453.	4.9	18
48	Hyalocyte proliferation and ECM accumulation modulated by bFGF and TGF- β 1. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2008, 246, 1275-1284.	1.0	18
49	Catechol-modified poly(oxazoline)s with tunable degradability facilitate cell invasion and lateral cartilage integration. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 757-769.	2.9	18
50	PEGylation Does Not Impair Insulin Efficacy in Three-Dimensional Cartilage Culture: An Investigation toward Biomimetic Polymers. <i>Tissue Engineering</i> , 2004, 10, 429-440.	4.9	16
51	Ascorbic Acid Enhances Adipogenesis of Bone Marrow-Derived Mesenchymal Stromal Cells. <i>Cells Tissues Organs</i> , 2009, 189, 373-381.	1.3	15
52	Influence of electron irradiation on the crystallisation, molecular weight and mechanical properties of poly-(R)-3-hydroxybutyrate. <i>Journal of Materials Science</i> , 2007, 42, 3732-3738.	1.7	14
53	Highly flexible and degradable dual setting systems based on PEG-hydrogels and brushite cement. <i>Acta Biomaterialia</i> , 2018, 79, 182-201.	4.1	14
54	Bilateral PLGA/alginate membranes for the prevention of postsurgical adhesions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1563-1570.	1.6	13

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55	Thiolâ€ene Crossâ€Linkable Hydrogels as Bioinks for Biofabrication. <i>Macromolecular Symposia</i> , 2017, 372, 102-107.	0.4	13
56	Tuning the Product Spectrum of a Glycoside Hydrolase Enzyme by a Combination of Siteâ€Directed Mutagenesis and Tyrosineâ€Specific Chemical Modification. <i>Chemistry - A European Journal</i> , 2019, 25, 6533-6541.	1.7	13
57	Advanced ADA-GEL bioink for bioprinted artificial cancer models. <i>Bioprinting</i> , 2021, 23, e00145.	2.9	13
58	Rheological analysis of the interplay between the molecular weight and concentration of hyaluronic acid in formulations of supramolecular HA/FmocFF hybrid hydrogels. <i>Polymer Journal</i> , 2020, 52, 1007-1012.	1.3	13
59	FACS as useful tool to study distinct hyalocyte populations. <i>Experimental Eye Research</i> , 2009, 88, 995-999.	1.2	12
60	Biodistribution of Quantum Dots in the Kidney After Intravenous Injection. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 3313-3319.	0.9	12
61	Influence of charged groups on the cross-linking efficiency and release of guest molecules from thiolâ€ene cross-linked poly(2-oxazoline) hydrogels. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1782-1794.	2.9	12
62	Appreciating the First Line of the Human Innate Immune Defense: A Strategy to Model and Alleviate the Neutrophil Elastaseâ€Mediated Attack toward Bioactivated Biomaterials. <i>Small</i> , 2021, 17, e2007551.	5.2	12
63	Bioink Platform Utilizing Dualâ€Stage Crosslinking of Hyaluronic Acid Tailored for Chondrogenic Differentiation of Mesenchymal Stromal Cells. <i>Macromolecular Bioscience</i> , 2022, 22, e2100331.	2.1	12
64	Heterobifunctional Poly(ethylene glycol) Derivatives for the Surface Modification of Gold Nanoparticles Toward Bone Mineral Targeting. <i>Macromolecular Bioscience</i> , 2012, 12, 1124-1136.	2.1	11
65	Preparation of wellâ€defined calcium crossâ€linked alginate films for the prevention of surgical adhesions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 826-839.	1.6	11
66	Differential Production of Cartilage ECM in 3D Agarose Constructs by Equine Articular Cartilage Progenitor Cells and Mesenchymal Stromal Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7071.	1.8	11
67	Hydrogels for Tissue Engineering. , 2009, , 495-517.		8
68	Oxidized Hyaluronic Acid-Gelatin-Based Hydrogels for Tissue Engineering and Soft Tissue Mimicking. <i>Tissue Engineering - Part C: Methods</i> , 2022, 28, 301-313.	1.1	7
69	Processing of Poly(lacticâ€glycolic acid) Microfibers via Melt Electrowriting. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	1.1	6
70	Targeted Printing of Cells: Evaluation of ADA-PEG Bioinks for Drop on Demand Approaches. <i>Gels</i> , 2022, 8, 206.	2.1	6
71	Foamed oligo(poly(ethylene glycol)fumarate) hydrogels as versatile prefabricated scaffolds for tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 248-252.	1.3	4
72	Application of Linear and Branched Poly(Ethylene Glycol)â€Poly(Lactide) Block Copolymers for the Preparation of Films and Solution Electrospun Meshes. <i>Macromolecular Bioscience</i> , 2016, 16, 441-450.	2.1	4

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73	In Situ Polymer Analogue Generation of Azlactone Functions at Poly(oxazoline)s for Peptide Conjugation. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900500.	1.1	4
74	Covalently Cross-Linked Pig Gastric Mucin Hydrogels Prepared by Radical-Based Chain-Growth and Thiol-Ene Mechanisms. <i>Macromolecular Bioscience</i> , 2022, 22, e2100274.	2.1	4
75	Live-cell super-resolution imaging of intrinsically fast moving flagellates. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 074004.	1.3	3
76	Tough and Elastic β -Tricalcium Phosphate Cement Composites with Degradable PEG-Based Cross-Linker. <i>Materials</i> , 2019, 12, 53.	1.3	3
77	TEMPO/TCC as a Chemo Selective Alternative for the Oxidation of Hyaluronic Acid. <i>Molecules</i> , 2021, 26, 5963.	1.7	3