Tessa LÃ¼hmann

List of Publications by Year
in descending order

62 papers	1,968 citations	236612 25 h-index	264894 42 g-index
62 all docs	62 docs citations	62 times ranked	3201 citing authors

#	Article	IF	Citations
1	Electrospun matrices for localized drug delivery: Current technologies and selected biomedical applications. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 81, 1-13.	2.0	241
2	Dicer in Schwann Cells Is Required for Myelination and Axonal Integrity. Journal of Neuroscience, 2010, 30, 6763-6775.	1.7	110
3	Cellular Uptake and Intracellular Pathways of PLL-g-PEG-DNA Nanoparticles. Bioconjugate Chemistry, 2008, 19, 1907-1916.	1.8	93
4	A Thermogelling Supramolecular Hydrogel with Sponge-Like Morphology as a Cytocompatible Bioink. Biomacromolecules, 2017, 18, 2161-2171.	2.6	90
5	Bone targeting for the treatment of osteoporosis. Journal of Controlled Release, 2012, 161, 198-213.	4.8	79
6	Waterâ€Soluble Triarylborane Chromophores for Oneâ€•and Twoâ€Photon Excited Fluorescence Imaging of Mitochondria in Cells. Chemistry - A European Journal, 2016, 22, 14701-14706.	1.7	75
7	Artificial Chemokines: Combining Chemistry and Molecular Biology for the Elucidation of Interleukin-8 Functionality. Journal of the American Chemical Society, 2008, 130, 15311-15317.	6.6	72
8	Myelin is dependent on the Charcotâ€“Marieâ€“Tooth Type 4H disease culprit protein FRABIN/FGD4 in Schwann cells. Brain, 2012, 135, 3567-3583.	3.7	63
9	Formation and characterization of DNA-polymer-condensates based on poly(2-methyl-2-oxazoline) grafted poly(l-lysine) for non-viral delivery of therapeutic DNA. Biomaterials, 2011, 32, 5291-5303.	5.7	56
10	Application of natural and semi-synthetic polymers for the delivery of sensitive drugs. International Materials Reviews, 2015, 60, 101-131.	9.4	53
11	Oral drug delivery of therapeutic gases â€" Carbon monoxide release for gastrointestinal diseases. Journal of Controlled Release, 2014, 189, 46-53.	4.8	50
12	Comparative assessment of the stability of nonfouling poly(2-methyl-2-oxazoline) and poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.6	50
13	Bioorthogonal strategies for site-directed decoration of biomaterials with therapeutic proteins. Journal of Controlled Release, 2018, 273, 68-85.	4.8	44
14	Cell Guidance by 3D-Gradients in Hydrogel Matrices: Importance for Biomedical Applications. Materials, 2009, 2, 1058-1083.	1.3	42
15	Characterization of PLL-g-PEG-DNA Nanoparticles for the Delivery of Therapeutic DNA. Bioconjugate Chemistry, 2008, 19, 548-557.	1.8	40
16	Site-Specific POxylation of Interleukin-4. ACS Biomaterials Science and Engineering, 2017, 3, 304-312.	2.6	40
17	Biocompatible Azideâ€“Alkyne â€œClickâ€•Reactions for Surface Decoration of Glycoâ€Engineered Cells. ChemBioChem, 2016, 17, 866-875.	1.3	37
18	Ionic Liquid Versus Prodrug Strategy to Address Formulation Challenges. Pharmaceutical Research, 2015, 32, 2154-2167.	1.7	36

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19	Temperature-Dependent Rheological and Viscoelastic Investigation of a Poly(2-methyl-2-oxazoline)-b-poly(2-iso-butyl-2-oxazoline)-b-poly(2-methyl-2-oxazoline)-Based Thermogelling Hydrogel. Journal of Functional Biomaterials, 2019, 10, 36.	1.8	36
20	Bio-orthogonal Immobilization of Fibroblast Growth Factor 2 for Spatial Controlled Cell Proliferation. ACS Biomaterials Science and Engineering, 2015, 1, 740-746.	2.6	35
21	Protective coatings for intraocular wirelessly controlled microrobots for implantation: Corrosion, cell culture, and <i>in vivo</i> animal tests. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 836-845.	1.6	32
22	A perfluoroaromatic abiotic analog of H2 relaxin enabled by rapid flow-based peptide synthesis. Organic and Biomolecular Chemistry, 2016, 14, 3345-3349.	1.5	31
23	Mapping the pharmaceutical design space by amorphous ionic liquid strategies. Journal of Controlled Release, 2017, 268, 314-322.	4.8	30
24	The induction of cell alignment by covalently immobilized gradients of the 6th Ig-like domain of cell adhesion molecule L1 in 3D-fibrin matrices. Biomaterials, 2009, 30, 4503-4512.	5.7	29
25	Inverse Thermogelation of Aqueous Triblock Copolymer Solutions into Macroporous Shear-Thinning 3D Printable Inks. ACS Applied Materials & Interfaces, 2020, 12, 12445-12456.	4.0	28
26	Bioresponsive release of insulin-like growth factor-I from its PEGylated conjugate. Journal of Controlled Release, 2018, 279, 17-28.	4.8	27
27	Sterilization Methods and Their Influence on Physicochemical Properties and Bioprinting of Alginate as a Bioink Component. ACS Omega, 2020, 5, 6481-6486.	1.6	27
28	Nanotransporters for drug delivery. Current Opinion in Biotechnology, 2016, 39, 35-40.	3.3	26
29	Porous polysulfone coatings for enhanced drug delivery. Biomedical Microdevices, 2012, 14, 603-612.	1.4	25
30	Insulin-like growth factor-I aerosol formulations for pulmonary delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 85, 61-68.	2.0	25
31	Matrix Metalloproteinase Responsive Delivery of Myostatin Inhibitors. Pharmaceutical Research, 2017, 34, 58-72.	1.7	22
32	Interleukinâ€4â€Clicked Surfaces Drive M2 Macrophage Polarization. ChemBioChem, 2016, 17, 2123-2128.	1.3	21
33	Molecular Insights into Site-Specific Interferon-Î±2a Bioconjugates Originated from PEG, LPG, and PEtOx. Biomacromolecules, 2021, 22, 4521-4534.	2.6	21
34	Pathogen- and Host-Directed Antileishmanial Effects Mediated by Polyhexanide (PHMB). PLoS Neglected Tropical Diseases, 2015, 9, e0004041.	1.3	20
35	Bioorthogonal Modification of Cell Derived Matrices by Metabolic Glycoengineering. ACS Biomaterials Science and Engineering, 2018, 4, 1300-1306.	2.6	18
36	Targeting interleukin-4 to the arthritic joint. Journal of Controlled Release, 2020, 326, 172-180.	4.8	17

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37	Redox Cycling for Passive Modification of Polypyrrole Surface Properties: Effects on Cell Adhesion and Proliferation. Advanced Healthcare Materials, 2013, 2, 591-598.	3.9	16
38	Pulmonary Insulin-like Growth Factor I Delivery from Trehalose and Silk-Fibroin Microparticles. ACS Biomaterials Science and Engineering, 2015, 1, 119-129.	2.6	16
39	Luminescent Metalâ€"Organic Framework Mixedâ€Matrix Membranes from Lanthanide Metalâ€"Organic Frameworks in Polysulfone and Matrimid. European Journal of Inorganic Chemistry, 2016, 2016, 4408-4415.	1.0	16
40	Metabolic Glycoengineering of Cell-Derived Matrices and Cell Surfaces: A Combination of Key Principles and Step-by-Step Procedures. ACS Biomaterials Science and Engineering, 2019, 5, 215-233.	2.6	16
41	Probing unnatural amino acid integration into enhanced green fluorescent protein by genetic code expansion with a high-throughput screening platform. Journal of Biological Engineering, 2016, 10, 11.	2.0	15
42	Fibrin Sealants: Challenges and Solutions. ACS Biomaterials Science and Engineering, 2022, 8, 2220-2231.	2.6	15
43	Site-Specific Conjugated Insulin-like Growth Factor-I for Anabolic Therapy. ACS Biomaterials Science and Engineering, 2018, 4, 819-825.	2.6	14
44	Biodistribution of Site-Specific PEGylated Fibroblast Growth Factor-2. ACS Biomaterials Science and Engineering, 2020, 6, 425-432.	2.6	13
45	From Thermogelling Hydrogels toward Functional Bioinks: Controlled Modification and Cytocompatible Crosslinking. Macromolecular Bioscience, 2021, 21, e2100122.	2.1	12
46	Bioconjugation strategies and clinical implications of Interferon-bioconjugates. European Journal of Pharmaceutics and Biopharmaceutics, 2022, 172, 157-167.	2.0	12
47	Chemo-Enzymatic PEGylation/POxylation of Murine Interleukin-4. Bioconjugate Chemistry, 2022, 33, 97-104.	1.8	11
48	Merging bioresponsive release of insulin-like growth factor I with 3D printable thermogelling hydrogels. Journal of Controlled Release, 2022, 347, 115-126.	4.8	8
49	Metabolic Glycoengineering in hMSC-TERT as a Model for Skeletal Precursors by Using Modified Azide/Alkyne Monosaccharides. International Journal of Molecular Sciences, 2021, 22, 2820.	1.8	7
50	Linear Polyglycerol for N-terminal-selective Modification of Interleukin-4. Journal of Pharmaceutical Sciences, 2022, 111, 1642-1651.	1.6	7
51	Polymer selection impacts the pharmaceutical profile of site-specifically conjugated Interferon-Î±2a. Journal of Controlled Release, 2022, 348, 881-892.	4.8	7
52	Tailoring the drug loading capacity of polypyrrole films for use in intraocular biomicrorobots. , 2010, 2010, 4359-62.		6
53	Nanomechanics on FGF-2 and Heparin Reveal Slip Bond Characteristics with pH Dependency. ACS Biomaterials Science and Engineering, 2017, 3, 1000-1007.	2.6	6
54	Mass-Encoded Reporters Reporting Proteolytic Activity from within the Extracellular Matrix. ACS Biomaterials Science and Engineering, 2020, 6, 5240-5253.	2.6	6

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55	Freeform direct laser writing of versatile topological 3D scaffolds enabled by intrinsic support hydrogel. Materials Horizons, 2021, 8, 3334-3344.	6.4	6
56	Site-Directed Immobilization of Bone Morphogenetic Protein 2 to Solid Surfaces by Click Chemistry. Journal of Visualized Experiments, 2018, , .	0.2	5
57	Functional polypyrrole coatings for wirelessly controlled magnetic microrobots. , 2013, , .		4
58	Radiolabeled ¹¹¹In-FGF-2 Is Suitable for <i>In Vitro</i>/<i>Ex Vivo</i> Evaluations and <i>In Vivo</i> Imaging. Molecular Pharmaceutics, 2017, 14, 639-648.	2.3	4
59	Dually actuated atomic force microscope with miniaturized magnetic bead-actuators for single-molecule force measurements. Nanoscale Horizons, 2016, 1, 488-495.	4.1	3
60	A Complete and Versatile Protocol: Decoration of Cell-Derived Matrices with Mass-Encoded Peptides for Multiplexed Protease Activity Detection. ACS Biomaterials Science and Engineering, 2020, 6, 6598-6617.	2.6	2
61	67th Mosbacher Kolloquium: Protein Design: From First Principles to Biomedical Applications. ChemBioChem, 2016, 17, 1297-1300.	1.3	0
62	Nanoparticle Design to Improve Transport Across the Intestinal Barrier. Environmental Chemistry for A Sustainable World, 2020, , 271-315.	0.3	0