

# Tessa LÃ¼hmann

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1222122/publications.pdf>

Version: 2024-02-01

62  
papers

1,968  
citations

236925

25  
h-index

265206

42  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3201  
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear Polyglycerol for N-terminal-selective Modification of Interleukin-4. Journal of Pharmaceutical Sciences, 2022, 111, 1642-1651.	3.3	7
2	Bioconjugation strategies and clinical implications of Interferon-bioconjugates. European Journal of Pharmaceutics and Biopharmaceutics, 2022, 172, 157-167.	4.3	12
3	Chemo-Enzymatic PEGylation/POxylation of Murine Interleukin-4. Bioconjugate Chemistry, 2022, 33, 97-104.	3.6	11
4	Merging bioresponsive release of insulin-like growth factor I with 3D printable thermogelling hydrogels. Journal of Controlled Release, 2022, 347, 115-126.	9.9	8
5	Fibrin Sealants: Challenges and Solutions. ACS Biomaterials Science and Engineering, 2022, 8, 2220-2231.	5.2	15
6	Polymer selection impacts the pharmaceutical profile of site-specifically conjugated Interferon- $\gamma$ 2a. Journal of Controlled Release, 2022, 348, 881-892.	9.9	7
7	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.	4.1	7
8	From Thermogelling Hydrogels toward Functional Bioinks: Controlled Modification and Cytocompatible Crosslinking. Macromolecular Bioscience, 2021, 21, e2100122.	4.1	12
9	Freeform direct laser writing of versatile topological 3D scaffolds enabled by intrinsic support hydrogel. Materials Horizons, 2021, 8, 3334-3344.	12.2	6
10	Molecular Insights into Site-Specific Interferon- $\gamma$ 2a Bioconjugates Originated from PEG, LPG, and PEOx. Biomacromolecules, 2021, 22, 4521-4534.	5.4	21
11	Biodistribution of Site-Specific PEGylated Fibroblast Growth Factor-2. ACS Biomaterials Science and Engineering, 2020, 6, 425-432.	5.2	13
12	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.	5.2	2
13	Mass-Encoded Reporters Reporting Proteolytic Activity from within the Extracellular Matrix. ACS Biomaterials Science and Engineering, 2020, 6, 5240-5253.	5.2	6
14	Inverse Thermogelation of Aqueous Triblock Copolymer Solutions into Macroporous Shear-Thinning 3D Printable Inks. ACS Applied Materials & Interfaces, 2020, 12, 12445-12456.	8.0	28
15	Sterilization Methods and Their Influence on Physicochemical Properties and Bioprinting of Alginate as a Bioink Component. ACS Omega, 2020, 5, 6481-6486.	3.5	27
16	Targeting interleukin-4 to the arthritic joint. Journal of Controlled Release, 2020, 326, 172-180.	9.9	17
17	Nanoparticle Design to Improve Transport Across the Intestinal Barrier. Environmental Chemistry for A Sustainable World, 2020, , 271-315.	0.5	0
18	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.	4.4	36

#	ARTICLE	IF	CITATIONS
19	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.	5.2	16
20	Site-Specific Conjugated Insulin-like Growth Factor-I for Anabolic Therapy. ACS Biomaterials Science and Engineering, 2018, 4, 819-825.	5.2	14
21	Bioresponsive release of insulin-like growth factor-I from its PEGylated conjugate. Journal of Controlled Release, 2018, 279, 17-28.	9.9	27
22	Bioorthogonal strategies for site-directed decoration of biomaterials with therapeutic proteins. Journal of Controlled Release, 2018, 273, 68-85.	9.9	44
23	Site-Directed Immobilization of Bone Morphogenetic Protein 2 to Solid Surfaces by Click Chemistry. Journal of Visualized Experiments, 2018, , .	0.3	5
24	Bioorthogonal Modification of Cell Derived Matrices by Metabolic Glycoengineering. ACS Biomaterials Science and Engineering, 2018, 4, 1300-1306.	5.2	18
25	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.	3.4	32
26	Radiolabeled <sup>111</sup> In-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.	4.6	4
27	Nanomechanics on FGF-2 and Heparin Reveal Slip Bond Characteristics with pH Dependency. ACS Biomaterials Science and Engineering, 2017, 3, 1000-1007.	5.2	6
28	Site-Specific POxylation of Interleukin-4. ACS Biomaterials Science and Engineering, 2017, 3, 304-312.	5.2	40
29	Mapping the pharmaceutical design space by amorphous ionic liquid strategies. Journal of Controlled Release, 2017, 268, 314-322.	9.9	30
30	A Thermogelling Supramolecular Hydrogel with Sponge-Like Morphology as a Cytocompatible Bioink. Biomacromolecules, 2017, 18, 2161-2171.	5.4	90
31	Matrix Metalloproteinase Responsive Delivery of Myostatin Inhibitors. Pharmaceutical Research, 2017, 34, 58-72.	3.5	22
32	Luminescent Metal-Organic Framework Mixed-Matrix Membranes from Lanthanide Metal-Organic Frameworks in Polysulfone and Matrimid. European Journal of Inorganic Chemistry, 2016, 2016, 4408-4415.	2.0	16
33	Biocompatible Azide-Alkyne Click-Reactions for Surface Decoration of Glyco-Engineered Cells. ChemBioChem, 2016, 17, 866-875.	2.6	37
34	Interleukin-4-Clicked Surfaces Drive M2 Macrophage Polarization. ChemBioChem, 2016, 17, 2123-2128.	2.6	21
35	Dually actuated atomic force microscope with miniaturized magnetic bead-actuators for single-molecule force measurements. Nanoscale Horizons, 2016, 1, 488-495.	8.0	3
36	Water-Soluble Triarylborane Chromophores for One- and Two-Photon Excited Fluorescence Imaging of Mitochondria in Cells. Chemistry - A European Journal, 2016, 22, 14701-14706.	3.3	75

#	ARTICLE	IF	CITATIONS
37	Probing unnatural amino acid integration into enhanced green fluorescent protein by genetic code expansion with a high-throughput screening platform. <i>Journal of Biological Engineering</i> , 2016, 10, 11.	4.7	15
38	67th Mosbacher Kolloquium: Protein Design: From First Principles to Biomedical Applications. <i>ChemBioChem</i> , 2016, 17, 1297-1300.	2.6	0
39	Nanotransporters for drug delivery. <i>Current Opinion in Biotechnology</i> , 2016, 39, 35-40.	6.6	26
40	A perfluoroaromatic abiotic analog of H2 relaxin enabled by rapid flow-based peptide synthesis. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3345-3349.	2.8	31
41	Pathogen- and Host-Directed Antileishmanial Effects Mediated by Polyhexanide (PHMB). <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0004041.	3.0	20
42	Bio-orthogonal Immobilization of Fibroblast Growth Factor 2 for Spatial Controlled Cell Proliferation. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 740-746.	5.2	35
43	Pulmonary Insulin-like Growth Factor I Delivery from Trehalose and Silk-Fibroin Microparticles. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 119-129.	5.2	16
44	Application of natural and semi-synthetic polymers for the delivery of sensitive drugs. <i>International Materials Reviews</i> , 2015, 60, 101-131.	19.3	53
45	Ionic Liquid Versus Prodrug Strategy to Address Formulation Challenges. <i>Pharmaceutical Research</i> , 2015, 32, 2154-2167.	3.5	36
46	Oral drug delivery of therapeutic gases – Carbon monoxide release for gastrointestinal diseases. <i>Journal of Controlled Release</i> , 2014, 189, 46-53.	9.9	50
47	Comparative assessment of the stability of nonfouling poly(2-methyl-2-oxazoline) and poly(ethylene Terephthalate) for drug delivery. <i>Journal of Membrane Science</i> , 2014, 475, 1-10.	1.6	50
48	Functional polypyrrole coatings for wirelessly controlled magnetic microrobots. <i>Advanced Materials</i> , 2013, 25, 1111-1116.		4
49	Redox Cycling for Passive Modification of Polypyrrole Surface Properties: Effects on Cell Adhesion and Proliferation. <i>Advanced Healthcare Materials</i> , 2013, 2, 591-598.	7.6	16
50	Insulin-like growth factor-I aerosol formulations for pulmonary delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 61-68.	4.3	25
51	Myelin is dependent on the Charcot-Marie-Tooth Type 4H disease culprit protein FRABIN/FGD4 in Schwann cells. <i>Brain</i> , 2012, 135, 3567-3583.	7.6	63
52	Electrospun matrices for localized drug delivery: Current technologies and selected biomedical applications. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 81, 1-13.	4.3	241
53	Porous polysulfone coatings for enhanced drug delivery. <i>Biomedical Microdevices</i> , 2012, 14, 603-612.	2.8	25
54	Bone targeting for the treatment of osteoporosis. <i>Journal of Controlled Release</i> , 2012, 161, 198-213.	9.9	79

#	ARTICLE	IF	CITATIONS
55	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.	11.4	56
56	Dicer in Schwann Cells Is Required for Myelination and Axonal Integrity. Journal of Neuroscience, 2010, 30, 6763-6775.	3.6	110
57	Tailoring the drug loading capacity of polypyrrole films for use in intraocular biomicrorobots. , 2010, 2010, 4359-62.		6
58	Cell Guidance by 3D-Gradients in Hydrogel Matrices: Importance for Biomedical Applications. Materials, 2009, 2, 1058-1083.	2.9	42
59	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.	11.4	29
60	Cellular Uptake and Intracellular Pathways of PLL-g-PEG-DNA Nanoparticles. Bioconjugate Chemistry, 2008, 19, 1907-1916.	3.6	93
61	Characterization of PLL-g-PEG-DNA Nanoparticles for the Delivery of Therapeutic DNA. Bioconjugate Chemistry, 2008, 19, 548-557.	3.6	40
62	Artificial Chemokines: Combining Chemistry and Molecular Biology for the Elucidation of Interleukin-8 Functionality. Journal of the American Chemical Society, 2008, 130, 15311-15317.	13.7	72