Martin Humenik

List of Publications by Year in Descending Order

32	552	12	23
papers	citations	h-index	g-index
37	651	7.1	4.05
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
32	Impacts of Blended Silk Fibroin and Recombinant Spider Silk Fibroin Hydrogels on Cell Growth. *Polymers*, **2021**, 13,	4.5	1
31	Patterning of protein-based materials. *Biopolymers*, **2021**, 112, e23412	2.2	2
30	Factors determining self-assembly of hyaluronan. *Carbohydrate Polymers*, **2021**, 254, 117307	10.3	2
29	Sea star-inspired recombinant adhesive proteins self-assemble and adsorb on surfaces in aqueous environments to form cytocompatible coatings. *Acta Biomaterialia*, **2020**, 112, 62-74	10.8	9
28	Functionalized DNA-spider silk nanohydrogels for controlled protein binding and release. *Materials Today Bio*, **2020**, 6, 100045	9.9	12
27	Aqueous electrospinning of recombinant spider silk proteins. *Materials Science and Engineering C*, **2020**, 106, 110145	8.3	16
26	Designed Spider Silk-Based Drug Carrier for Redox- or pH-Triggered Drug Release. *Biomacromolecules*, **2020**, 21, 4904-4912	6.9	10
25	Nanostructured, Self-Assembled Spider Silk Materials for Biomedical Applications. *Advances in Experimental Medicine and Biology*, **2019**, 1174, 187-221	3.6	7
24	Nanoscale Patterning of Surfaces via DNA Directed Spider Silk Assembly. *Biomacromolecules*, **2019**, 20, 347-352	6.9	8
23	Silk nanofibril self-assembly versus electrospinning. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2018**, 10, e1509	9.2	19
22	Self-Assembly of Spider Silk-Fusion Proteins Comprising Enzymatic and Fluorescence Activity. *Bioconjugate Chemistry*, **2018**, 29, 898-904	6.3	14
21	Facile Photochemical Modification of Silk Protein-Based Biomaterials. *Macromolecular Bioscience*, **2018**, 18, e1800216	5.5	3
20	Ion and seed dependent fibril assembly of a spidroin core domain. *Journal of Structural Biology*, **2015**, 191, 130-8	3.4	14
19	Data for ion and seed dependent fibril assembly of a spidroin core domain. *Data in Brief*, **2015**, 4, 571-6	1.2	8
18	Nanomaterial building blocks based on spider silk-oligonucleotide conjugates. *ACS Nano*, **2014**, 8, 1342-9	16.7	57
17	Influence of repeat numbers on self-assembly rates of repetitive recombinant spider silk proteins. *Journal of Structural Biology*, **2014**, 186, 431-7	3.4	49
16	Controlled hierarchical assembly of spider silk-DNA chimeras into ribbons and raft-like morphologies. *Nano Letters*, **2014**, 14, 3999-4004	11.5	27

List of Publications

15	Self-assembly of nucleic acids, silk and hybrid materials thereof. *Journal of Physics Condensed Matter*, **2014**, 26, 503102	1.8	6
14	Spider silk: understanding the structure-function relationship of a natural fiber. *Progress in Molecular Biology and Translational Science*, **2011**, 103, 131-85	4	33
13	Recombinant Spider SilksBiopolymers with Potential for Future Applications. *Polymers*, **2011**, 3, 640-661	4.5	66
12	Detection of bacterial 16S rRNA using multivalent dendrimer-reporter enzyme conjugates. *Biosensors and Bioelectronics*, **2009**, 24, 3383-6	11.8	9
11	Rapid, specific and sensitive electrochemical detection of foodborne bacteria. *Biosensors and Bioelectronics*, **2009**, 24, 2766-71	11.8	51
10	Simultaneous and site-directed incorporation of an ester linkage and an azide group into a polypeptide by in vitro translation. *Organic and Biomolecular Chemistry*, **2009**, 7, 4218-24	3.9	2
9	Enhancement of electrochemical signal on gold electrodes by polyvalent esterase-dendrimer clusters. *Bioconjugate Chemistry*, **2008**, 19, 2456-61	6.3	11
8	Ligand-directed immobilization of proteins through an esterase 2 fusion tag studied by atomic force microscopy. *ChemBioChem*, **2008**, 9, 124-30	3.8	9
7	C-terminal incorporation of bio-orthogonal azide groups into a protein and preparation of protein-oligodeoxynucleotide conjugates by Cuecatalyzed cycloaddition. *ChemBioChem*, **2007**, 8, 1103-6	3.8	43
6	Esterase 2-oligodeoxynucleotide conjugates as sensitive reporter for electrochemical detection of nucleic acid hybridization. *Biosensors and Bioelectronics*, **2007**, 22, 1798-806	11.8	31
5	Esterase 2 from Alicyclobacillus acidocaldarius as a reporter and affinity tag for expression and single step purification of polypeptides. *Protein Expression and Purification*, **2007**, 54, 94-100	2	11
4	1,2-Anhydrosaccharides and 1,2-Cyclic Sulfites as Saccharide Donors in Convergent Synthesis of Glucopyranosyl-, Mannopyranosyl- and Ribofuranosylbenzocamalexin. *Collection of Czechoslovak Chemical Communications*, **2005**, 70, 487-506		6
3	Synthesis of D-Glucopyranosides of 6-Substituted 2-(Indol-3-yl)benzothiazoles. *Collection of Czechoslovak Chemical Communications*, **2005**, 70, 72-84		6
2	Synthesis of 1-Glycosyl Derivatives of Benzocamalexin. *Collection of Czechoslovak Chemical Communications*, **2004**, 69, 1657-1674		6
1	Processing of Continuous Non-Crosslinked Collagen Fibers for Microtissue Formation at the Muscle-Tendon Interface. *Advanced Functional Materials*,2112238	15.6	2