Suzanne M Mithieux

List of Publications by Year
in descending order

53	4,134	136885 32	175177 52
papers	citations	h-index	g-index

54	54	54	4954
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Elastin. Advances in Protein Chemistry, 2005, 70, 437-461.	4.4	435
2	Engineering a sprayable and elastic hydrogel adhesive with antimicrobial properties for wound healing. Biomaterials, 2017, 139, 229-243.	5.7	417
3	Synthetic elastin hydrogels derived from massive elastic assemblies of self-organized human protein monomers. Biomaterials, 2004, 25, 4921-4927.	5.7	227
4	Highly Elastic and Conductive Humanâ€Based Protein Hybrid Hydrogels. Advanced Materials, 2016, 28, 40-49.	11.1	226
5	Elastin-based materials. Chemical Society Reviews, 2010, 39, 3371.	18.7	214
6	Highly Elastic Micropatterned Hydrogel for Engineering Functional Cardiac Tissue. Advanced Functional Materials, 2013, 23, 4950-4959.	7.8	201
7	Shape of tropoelastin, the highly extensible protein that controls human tissue elasticity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4322-4327.	3.3	170
8	Synthesis of highly porous crosslinked elastin hydrogels and their interaction with fibroblasts in vitro. Biomaterials, 2009, 30, 4550-4557.	5.7	165
9	The fabrication of elastin-based hydrogels using high pressure CO2. Biomaterials, 2009, 30, 1-7.	5.7	131
10	The effect of elastin on chondrocyte adhesion and proliferation on poly (É›-caprolactone)/elastin composites. Biomaterials, 2011, 32, 1517-1525.	5.7	112
11	Cross-linked open-pore elastic hydrogels based on tropoelastin, elastin and high pressure CO2. Biomaterials, 2010, 31, 1655-1665.	5.7	102
12	Engineered cell-laden human protein-based elastomer. Biomaterials, 2013, 34, 5496-5505.	5.7	99
13	Tropoelastin Massively Associates during Coacervation To Form Quantized Protein Spheresâ€. Biochemistry, 2006, 45, 9989-9996.	1.2	98
14	Severe Burn Injuries and the Role of Elastin in the Design of Dermal Substitutes. Tissue Engineering - Part B: Reviews, 2011, 17, 81-91.	2.5	88
15	Engineered Tropoelastin and Elastin-Based Biomaterials. Advances in Protein Chemistry and Structural Biology, 2009, 78, 1-24.	1.0	86
16	Elastomeric recombinant protein-based biomaterials. Biochemical Engineering Journal, 2013, 77, 110-118.	1.8	85
17	Elastin based cell-laden injectable hydrogels with tunable gelation, mechanical and biodegradation properties. Biomaterials, 2014, 35, 5425-5435.	5.7	77
18	In situ polymerization of tropoelastin in the absence of chemical cross-linking. Biomaterials, 2009, 30, 431-435.	5.7	74

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19	Fabrication of porous PCL/elastin composite scaffolds for tissue engineering applications. Journal of Supercritical Fluids, 2011, 59, 157-167.	1.6	74
20	Elastin architecture. Matrix Biology, 2019, 84, 4-16.	1.5	69
21	Specificity in the coacervation of tropoelastin: solvent exposed lysines. Journal of Structural Biology, 2005, 149, 273-281.	1.3	68
22	Elastin Biomaterials in Dermal Repair. Trends in Biotechnology, 2020, 38, 280-291.	4.9	67
23	Tropoelastin â€" A multifaceted naturally smart material. Advanced Drug Delivery Reviews, 2013, 65, 421-428.	6.6	66
24	A model two-component system for studying the architecture of elastin assembly in vitro. Journal of Structural Biology, 2005, 149, 282-289.	1.3	56
25	Heparan sulphate interacts with tropoelastin, with some tropoelastin peptides and is present in human dermis elastic fibers. Matrix Biology, 2005, 24, 15-25.	1.5	53
26	Tropoelastin bridge region positions the cell-interactive C terminus and contributes to elastic fiber assembly. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2878-2883.	3.3	51
27	Freestanding hierarchical vascular structures engineered from ice. Biomaterials, 2019, 192, 334-345.	5.7	50
28	Elastin-based biomaterials and mesenchymal stem cells. Biomaterials Science, 2015, 3, 800-809.	2.6	44
29	Tropoelastin-Coated Tendon Biomimetic Scaffolds Promote Stem Cell Tenogenic Commitment and Deposition of Elastin-Rich Matrix. ACS Applied Materials & Interfaces, 2019, 11, 19830-19840.	4.0	42
30	Tandem integration of multipleILV5 copies and elevated transcription in polyploid yeast. Yeast, 1995, 11, 311-316.	0.8	38
31	Tropoelastin Incorporation into a Dermal Regeneration Template Promotes Wound Angiogenesis. Advanced Healthcare Materials, 2015, 4, 577-584.	3.9	38
32	Building Elastin. American Journal of Respiratory Cell and Molecular Biology, 2001, 24, 733-739.	1.4	37
33	Fabricating Organized Elastin in Vascular Grafts. Trends in Biotechnology, 2021, 39, 505-518.	4.9	34
34	Design of an elastin-layered dermal regeneration template. Acta Biomaterialia, 2017, 52, 33-40.	4.1	32
35	Tropoelastin as a thermodynamically unfolded premolten globule protein: The effect of trimethylamine N-oxide on structure and coacervation. Archives of Biochemistry and Biophysics, 2009, 487, 79-84.	1.4	29
36	Molecular-level characterization of elastin-like constructs and human aortic elastin. Matrix Biology, 2014, 38, 12-21.	1.5	29

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37	Tropoelastin Implants That Accelerate Wound Repair. Advanced Healthcare Materials, 2018, 7, e1701206.	3.9	29
38	Elastic proteins and elastomeric protein alloys. Current Opinion in Biotechnology, 2016, 39, 56-60.	3.3	26
39	Effect of Dense Gas CO₂ on the Coacervation of Elastin. Biomacromolecules, 2008, 9, 1100-1105.	2.6	25
40	Fabricated tropoelastin-silk yarns and woven textiles for diverse tissue engineering applications. Acta Biomaterialia, 2019, 91, 112-122.	4.1	25
41	The elastin matrix in tissue engineering and regeneration. Current Opinion in Biomedical Engineering, 2018, 6, 27-32.	1.8	24
42	Structure and Activity ofAspergillus nidulansCopper Amine Oxidase. Biochemistry, 2011, 50, 5718-5730.	1.2	21
43	Synthetic elastin hydrogels that are coblended with heparin display substantial swelling, increased porosity, and improved cell penetration. Journal of Biomedical Materials Research - Part A, 2010, 95A, 1215-1222.	2.1	19
44	Emerging concepts in bone repair and the premise of soft materials. Current Opinion in Biotechnology, 2022, 74, 220-229.	3.3	19
45	Tubular Fibrous Scaffolds Functionalized with Tropoelastin as a Small-Diameter Vascular Graft. Biomacromolecules, 2020, 21, 3582-3595.	2.6	17
46	â€œSetting paintâ€•analogy for the hydrophobic selfâ€association of tropoelastin into elastinâ€like hydrogel. Biopolymers, 2009, 91, 321-330.	1.2	13
47	Engineering magnetically responsive tropoelastin spongy-like hydrogels for soft tissue regeneration. Journal of Materials Chemistry B, 2018, 6, 1066-1075.	2.9	13
48	A step closer to elastogenesis on demand; Inducing mature elastic fibre deposition in a natural biomaterial scaffold. Materials Science and Engineering C, 2021, 120, 111788.	3.8	7
49	Tropoelastin Promotes the Formation of Dense, Interconnected Endothelial Networks. Biomolecules, 2021, 11, 1318.	1.8	6
50	Biomechanics of Synthetic Elastin: Insights from Magnetic Resonance Microimaging. Advanced Materials Research, 2013, 699, 457-463.	0.3	3
51	Tuneable cellulose nanocrystal and tropoelastin-laden hyaluronic acid hydrogels. Journal of Biomaterials Applications, 2019, 34, 560-572.	1.2	2
52	Wound Healing: Tropoelastin Incorporation into a Dermal Regeneration Template Promotes Wound Angiogenesis (Adv. Healthcare Mater. 4/2015). Advanced Healthcare Materials, 2015, 4, 576-576.	3.9	1
53	Synthetic-Elastin Systems. , 2016, , 81-115.		0