

Anthony S Weiss

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

231
papers

11,280
citations

57
h-index

97
g-index

245
ext. papers

12,445
ext. citations

7.7
avg. IF

6.47
L-index

#	Paper	IF	Citations
231	Elastin in healthy and diseased lung. <i>Current Opinion in Biotechnology</i> , 2021 , 74, 15-20	11.4	0
230	Emerging concepts in bone repair and the premise of soft materials.. <i>Current Opinion in Biotechnology</i> , 2021 , 74, 220-229	11.4	2
229	Applications of Engineering Techniques in Microvasculature Design. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 660958	5.4	1
228	Clinical Relevance of Elastin in the Structure and Function of Skin. <i>Aesthetic Surgery Journal Open Forum</i> , 2021 , 3, ojab019	1.3	9
227	Fabricating Organized Elastin in Vascular Grafts. <i>Trends in Biotechnology</i> , 2021 , 39, 505-518	15.1	18
226	A step closer to elastogenesis on demand; Inducing mature elastic fibre deposition in a natural biomaterial scaffold. <i>Materials Science and Engineering C</i> , 2021 , 120, 111788	8.3	0
225	Domains 12 to 16 of tropoelastin promote cell attachment and spreading through interactions with glycosaminoglycan and integrins alphaV and alpha5beta1. <i>FEBS Journal</i> , 2021 , 288, 4024-4038	5.7	7
224	Tropoelastin and Elastin Assembly. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 643110	5.8	16
223	Fuzzy binding model of molecular interactions between tropoelastin and integrin alphaVbeta3. <i>Biophysical Journal</i> , 2021 , 120, 3138-3151	2.9	2
222	Tailoring the biofunctionality of collagen biomaterials via tropoelastin incorporation and EDC-crosslinking. <i>Acta Biomaterialia</i> , 2021 , 135, 150-163	10.8	2
221	Autosomal Recessive Cutis Laxa 1C Mutations Disrupt the Structure and Interactions of Latent TGFβ Binding Protein-4. <i>Frontiers in Genetics</i> , 2021 , 12, 706662	4.5	1
220	Tropoelastin Promotes the Formation of Dense, Interconnected Endothelial Networks. <i>Biomolecules</i> , 2021 , 11,	5.9	1
219	A novel tropoelastin-based resorbable surgical mesh for pelvic organ prolapse repair. <i>Materials Today Bio</i> , 2020 , 8, 100081	9.9	10
218	Plasma treatment in air at atmospheric pressure that enables reagent-free covalent immobilization of biomolecules on polytetrafluoroethylene (PTFE). <i>Applied Surface Science</i> , 2020 , 518, 146128	6.7	12
217	Covalent Biofunctionalization of the Inner Surfaces of a Hollow-Fiber Capillary Bundle Using Packed-Bed Plasma Ion Implantation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32163-32174	9.5	3
216	Elastin in Vascular Grafts 2020 , 379-410		1
215	Elastin Biomaterials in Dermal Repair. <i>Trends in Biotechnology</i> , 2020 , 38, 280-291	15.1	39

214	Human-Recombinant-Elastin-Based Bioinks for 3D Bioprinting of Vascularized Soft Tissues. <i>Advanced Materials</i> , 2020 , 32, e2003915	24	43
213	Transglutaminase-Mediated Cross-Linking of Tropoelastin to Fibrillin Stabilises the Elastin Precursor Prior to Elastic Fibre Assembly. <i>Journal of Molecular Biology</i> , 2020 , 432, 5736-5751	6.5	7
212	Tubular Fibrous Scaffolds Functionalized with Tropoelastin as a Small-Diameter Vascular Graft. <i>Biomacromolecules</i> , 2020 , 21, 3582-3595	6.9	6
211	Soluble matrix protein is a potent modulator of mesenchymal stem cell performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2042-2051	11.5	31
210	Alllysine modifications perturb tropoelastin structure and mobility on a local and global scale. <i>Matrix Biology Plus</i> , 2019 , 2, 100002	5.1	11
209	Tropoelastin-Coated Tendon Biomimetic Scaffolds Promote Stem Cell Tenogenic Commitment and Deposition of Elastin-Rich Matrix. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19830-19840	9.5	23
208	Fabricated tropoelastin-silk yarns and woven textiles for diverse tissue engineering applications. <i>Acta Biomaterialia</i> , 2019 , 91, 112-122	10.8	17
207	Hierarchical assembly of elastin materials. <i>Current Opinion in Chemical Engineering</i> , 2019 , 24, 54-60	5.4	8
206	Injectable and Magnetic Responsive Hydrogels with Bioinspired Ordered Structures. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1392-1404	5.5	34
205	Fabrication Techniques for Vascular and Vascularized Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900742	10.1	35
204	Elastin architecture. <i>Matrix Biology</i> , 2019 , 84, 4-16	11.4	43
203	Tuneable cellulose nanocrystal and tropoelastin-laden hyaluronic acid hydrogels. <i>Journal of Biomaterials Applications</i> , 2019 , 34, 560-572	2.9	2
202	Coarse-grained model of tropoelastin self-assembly into nascent fibrils. <i>Materials Today Bio</i> , 2019 , 3, 100016	9.9	12
201	Freestanding hierarchical vascular structures engineered from ice. <i>Biomaterials</i> , 2019 , 192, 334-345	15.6	30
200	Tropoelastin is a Flexible Molecule that Retains its Canonical Shape. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800250	5.5	16
199	Optically robust, highly permeable and elastic protein films that support dual cornea cell types. <i>Biomaterials</i> , 2019 , 188, 50-62	15.6	19
198	Plasma-Activated Substrate with a Tropoelastin Anchor for the Maintenance and Delivery of Multipotent Adult Progenitor Cells. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800233	5.5	3
197	The elastin matrix in tissue engineering and regeneration. <i>Current Opinion in Biomedical Engineering</i> , 2018 , 6, 27-32	4.4	15

196	Tropoelastin Implants That Accelerate Wound Repair. <i>Advanced Healthcare Materials</i> , 2018 , 7, e170120610.1	21
195	Engineering magnetically responsive tropoelastin spongy-like hydrogels for soft tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1066-1075	7.3 9
194	Role for Cela1 in Postnatal Lung Remodeling and Alpha-1 Antitrypsin-Deficient Emphysema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018 , 59, 167-178	5.7 11
193	Photocrosslinkable Gelatin/Tropoelastin Hydrogel Adhesives for Peripheral Nerve Repair. <i>Tissue Engineering - Part A</i> , 2018 , 24, 1393-1405	3.9 51
192	HiPIMS carbon coatings show covalent protein binding that imparts enhanced hemocompatibility. <i>Carbon</i> , 2018 , 139, 118-128	10.4 21
191	Plasma processing of PDMS based spinal implants for covalent protein immobilization, cell attachment and spreading. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 178	4.5 6
190	Plasma ion implantation enabled bio-functionalization of PEEK improves osteoblastic activity. <i>APL Bioengineering</i> , 2018 , 2, 026109	6.6 16
189	Molecular model of human tropoelastin and implications of associated mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7338-7343	11.5 26
188	Silk-ionomer and silk-tropoelastin hydrogels as charged three-dimensional culture platforms for the regulation of hMSC response. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2544-2564 ⁶	4.4 6
187	Computational smart polymer design based on elastin protein mutability. <i>Biomaterials</i> , 2017 , 127, 49-6015.6	39
186	Tropoelastin coated PLLA-PLGA scaffolds promote vascular network formation. <i>Biomaterials</i> , 2017 , 122, 72-82	15.6 41
185	A sterilizable, biocompatible, tropoelastin surface coating immobilized by energetic ion activation. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1 16
184	Design of an elastin-layered dermal regeneration template. <i>Acta Biomaterialia</i> , 2017 , 52, 33-40	10.8 22
183	Engineering a sprayable and elastic hydrogel adhesive with antimicrobial properties for wound healing. <i>Biomaterials</i> , 2017 , 139, 229-243	15.6 273
182	A cell adhesive peptide from tropoelastin promotes sequential cell attachment and spreading via distinct receptors. <i>FEBS Journal</i> , 2017 , 284, 2216-2230	5.7 23
181	Tropoelastin inhibits intimal hyperplasia of mouse bioresorbable arterial vascular grafts. <i>Acta Biomaterialia</i> , 2017 , 52, 74-80	10.8 30
180	Engineering a highly elastic human protein-based sealant for surgical applications. <i>Science Translational Medicine</i> , 2017 , 9,	17.5 170
179	Plasma mediated protein immobilisation enhances the vascular compatibility of polyurethane with tissue matched mechanical properties. <i>Biomedical Materials (Bristol)</i> , 2017 , 12, 045002	3.5 13

178	Targeted Modulation of Tropoelastin Structure and Assembly. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2832-2844	5.5	14
177	Biomaterials and Modifications in the Development of Small-Diameter Vascular Grafts. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 712-723	5.5	47
176	Plasma Ion Activated Expanded Polytetrafluoroethylene Vascular Grafts with a Covalently Immobilized Recombinant Human Tropoelastin Coating Reducing Neointimal Hyperplasia. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1286-1297	5.5	14
175	Promoting Tropoelastin Expression in Arterial and Venous Vascular Smooth Muscle Cells and Fibroblasts for Vascular Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 923-931	2.9	10
174	Subtle balance of tropoelastin molecular shape and flexibility regulates dynamics and hierarchical assembly. <i>Science Advances</i> , 2016 , 2, e1501145	14.3	34
173	Tropoelastin enhances nitric oxide production by endothelial cells. <i>Nanomedicine</i> , 2016 , 11, 1591-7	5.6	9
172	Cost-Effective Creation of Biofunctionalised Scaffolds, Tailored to Function as Stem Cell Niches for Expansion, Transport and Delivery. <i>Cytotherapy</i> , 2016 , 18, S60	4.8	1
171	Elastic proteins and elastomeric protein alloys. <i>Current Opinion in Biotechnology</i> , 2016 , 39, 56-60	11.4	19
170	Blended Polyurethane and Tropoelastin as a Novel Class of Biologically Interactive Elastomer. <i>Tissue Engineering - Part A</i> , 2016 , 22, 524-33	3.9	15
169	Force fields for simulating the interaction of surfaces with biological molecules. <i>Interface Focus</i> , 2016 , 6, 20150045	3.9	20
168	Perspectives on the Molecular and Biological Implications of Tropoelastin in Human Tissue Elasticity. <i>Australian Journal of Chemistry</i> , 2016 , 69, 1380	1.2	1
167	Plasma-Activated Tropoelastin Functionalization of Zirconium for Improved Bone Cell Response. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 662-676	5.5	20
166	Highly Elastic and Conductive Human-Based Protein Hybrid Hydrogels. <i>Advanced Materials</i> , 2016 , 28, 40-9	24	187
165	Elastomers in vascular tissue engineering. <i>Current Opinion in Biotechnology</i> , 2016 , 40, 149-154	11.4	19
164	Direct covalent coupling of proteins to nanostructured plasma polymers: a route to tunable cell adhesion. <i>Applied Surface Science</i> , 2015 , 351, 537-545	6.7	13
163	Depth-Resolved Structural and Compositional Characterization of Ion-Implanted Polystyrene that Enables Direct Covalent Immobilization of Biomolecules. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16793-16803	3.8	17
162	Electrodeposited gels prepared from protein alloys. <i>Nanomedicine</i> , 2015 , 10, 803-14	5.6	14
161	Elastin-based biomaterials and mesenchymal stem cells. <i>Biomaterials Science</i> , 2015 , 3, 800-9	7.4	31

160	Mechanical Properties of Plasma Immersion Ion Implanted PEEK for Bioactivation of Medical Devices. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23029-40	9.5	39
159	Tropoelastin incorporation into a dermal regeneration template promotes wound angiogenesis. <i>Advanced Healthcare Materials</i> , 2015 , 4, 577-84	10.1	34
158	Mechanistic insight into the elastin degradation process by the metalloprotease myroilysin from the deep-sea bacterium <i>Myroides profundus</i> D25. <i>Marine Drugs</i> , 2015 , 13, 1481-96	6	5
157	Characterization of Endothelial Progenitor Cell Interactions with Human Tropoelastin. <i>PLoS ONE</i> , 2015 , 10, e0131101	3.7	10
156	A potential role for endogenous proteins as sacrificial sunscreens and antioxidants in human tissues. <i>Redox Biology</i> , 2015 , 5, 101-113	11.3	37
155	Fabricated Elastin. <i>Advanced Healthcare Materials</i> , 2015 , 4, 2530-2556	10.1	74
154	Bio-functionalisation of polyether ether ketone using plasma immersion ion implantation 2015 ,		1
153	Silk-tropoelastin protein films for nerve guidance. <i>Acta Biomaterialia</i> , 2015 , 14, 1-10	10.8	38
152	Large-scale investigation of Leishmania interaction networks with host extracellular matrix by surface plasmon resonance imaging. <i>Infection and Immunity</i> , 2014 , 82, 594-606	3.7	28
151	Biocompatibility of silk-tropoelastin protein polymers. <i>Biomaterials</i> , 2014 , 35, 5138-47	15.6	50
150	Elastin based cell-laden injectable hydrogels with tunable gelation, mechanical and biodegradation properties. <i>Biomaterials</i> , 2014 , 35, 5425-35	15.6	63
149	Immobilisation of a fibrillin-1 fragment enhances the biocompatibility of PTFE. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 116, 544-52	6	15
148	Tropoelastin: a versatile, bioactive assembly module. <i>Acta Biomaterialia</i> , 2014 , 10, 1532-41	10.8	96
147	Surface plasma modification and tropoelastin coating of a polyurethane co-polymer for enhanced cell attachment and reduced thrombogenicity. <i>Biomaterials</i> , 2014 , 35, 6797-809	15.6	65
146	A negatively charged residue stabilizes the tropoelastin N-terminal region for elastic fiber assembly. <i>Journal of Biological Chemistry</i> , 2014 , 289, 34815-26	5.4	19
145	Molecular-level characterization of elastin-like constructs and human aortic elastin. <i>Matrix Biology</i> , 2014 , 38, 12-21	11.4	23
144	A novel cell adhesion region in tropoelastin mediates attachment to integrin $\alpha 5$. <i>Journal of Biological Chemistry</i> , 2014 , 289, 1467-77	5.4	56
143	Large-Scale Investigation of Leishmania Interaction Networks with Host Extracellular Matrix by Surface Plasmon Resonance Imaging. <i>Infection and Immunity</i> , 2014 , 82, 1741-1741	3.7	78

142	Engineered cell-laden human protein-based elastomer. <i>Biomaterials</i> , 2013 , 34, 5496-505	15.6	85
141	Synthesis of functionalized-thermo responsive-water soluble co-polymer for conjugation to protein for biomedical applications. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1498, 121-125		
140	Elastomeric Recombinant Protein-based Biomaterials. <i>Biochemical Engineering Journal</i> , 2013 , 77, 110-118.2	15.6	66
139	The use of plasma-activated covalent attachment of early domains of tropoelastin to enhance vascular compatibility of surfaces. <i>Biomaterials</i> , 2013 , 34, 7584-91	15.6	36
138	Charge-Tunable Silk-Tropoelastin Protein Alloys That Control Neuron Cell Responses. <i>Advanced Functional Materials</i> , 2013 , 23, 3875-3884	15.6	48
137	Tropoelastin modulates TGF- β -induced expression of VEGF and CTGF in airway smooth muscle cells. <i>Matrix Biology</i> , 2013 , 32, 407-13	11.4	12
136	Highly Elastic Micropatterned Hydrogel for Engineering Functional Cardiac Tissue. <i>Advanced Functional Materials</i> , 2013 , 23, 4950	15.6	173
135	Hydrogel-coated microfluidic channels for cardiomyocyte culture. <i>Lab on A Chip</i> , 2013 , 13, 3569-77	7.2	92
134	Ion implanted, radical-rich surfaces for the rapid covalent immobilization of active biomolecules 2013 ,		2
133	Biomechanics of Synthetic Elastin: Insights from Magnetic Resonance Microimaging. <i>Advanced Materials Research</i> , 2013 , 699, 457-463	0.5	2
132	Elastin sequences trigger transient proinflammatory responses by human dermal fibroblasts. <i>FASEB Journal</i> , 2013 , 27, 3455-65	0.9	31
131	Elastin biology and tissue engineering with adult cells. <i>Biomolecular Concepts</i> , 2013 , 4, 173-85	3.7	11
130	Multifunctional silk-tropoelastin biomaterial systems. <i>Israel Journal of Chemistry</i> , 2013 , 53, 777-786	3.4	12
129	The Role of Elastin in Wound Healing and Dermal Substitute Design 2013 , 57-66		5
128	Alignment of human vascular smooth muscle cells on parallel electrospun synthetic elastin fibers. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 155-61	5.4	45
127	Protein-based composite materials. <i>Materials Today</i> , 2012 , 15, 208-215	21.8	204
126	Elastin signaling in wound repair. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2012 , 96, 248-57		83
125	Molecular orientation of tropoelastin is determined by surface hydrophobicity. <i>Biomacromolecules</i> , 2012 , 13, 379-86	6.9	8

124	Elastin in asthma. <i>Pulmonary Pharmacology and Therapeutics</i> , 2012 , 25, 144-53	3.5	23
123	Cell patterning via linker-free protein functionalization of an organic conducting polymer (polypyrrole) electrode. <i>Acta Biomaterialia</i> , 2012 , 8, 2538-48	10.8	36
122	The action of neutrophil serine proteases on elastin and its precursor. <i>Biochimie</i> , 2012 , 94, 192-202	4.6	45
121	Plasma-based biofunctionalization of vascular implants. <i>Nanomedicine</i> , 2012 , 7, 1907-16	5.6	37
120	In vivo biocompatibility of a plasma-activated, coronary stent coating. <i>Biomaterials</i> , 2012 , 33, 7984-92	15.6	53
119	Electrospun synthetic human elastin:collagen composite scaffolds for dermal tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 3714-22	10.8	120
118	Tropoelastin bridge region positions the cell-interactive C terminus and contributes to elastic fiber assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2878-83	11.5	49
117	Elastolytic mechanism of a novel M23 metalloprotease pseudoalterin from deep-sea <i>Pseudoalteromonas</i> sp. CF6-2: cleaving not only glycol bonds in the hydrophobic regions but also peptide bonds in the hydrophilic regions involved in cross-linking. <i>Journal of Biological Chemistry</i> , 2012 , 287, 39710-20	5.4	22
116	Structure and activity of <i>Aspergillus nidulans</i> copper amine oxidase. <i>Biochemistry</i> , 2011 , 50, 5718-30	3.2	21
115	Severe burn injuries and the role of elastin in the design of dermal substitutes. <i>Tissue Engineering - Part B: Reviews</i> , 2011 , 17, 81-91	7.9	70
114	Elastin Biopolymers 2011 , 329-346		3
113	Elastin Based Constructs 2011 ,		5
112	Stability of a therapeutic layer of immobilized recombinant human tropoelastin on a plasma-activated coated surface. <i>Pharmaceutical Research</i> , 2011 , 28, 1415-21	4.5	14
111	Binding of the cell adhesive protein tropoelastin to PTFE through plasma immersion ion implantation treatment. <i>Biomaterials</i> , 2011 , 32, 5100-11	15.6	63
110	Tropoelastin Switch and Modulated Endothelial Cell Binding to PTFE. <i>BioNanoScience</i> , 2011 , 1, 123-127	3.4	8
109	Increasing the pore size of electrospun scaffolds. <i>Tissue Engineering - Part B: Reviews</i> , 2011 , 17, 365-72	7.9	182
108	A multilayered synthetic human elastin/polycaprolactone hybrid vascular graft with tailored mechanical properties. <i>Acta Biomaterialia</i> , 2011 , 7, 295-303	10.8	234
107	Universal Biomolecule Binding Interlayers Created by Energetic Ion Bombardment. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1354, 3		

106	Elastin as a nonthrombogenic biomaterial. <i>Tissue Engineering - Part B: Reviews</i> , 2011 , 17, 93-9	7.9	80
105	Shape of tropoelastin, the highly extensible protein that controls human tissue elasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 4322-7	11.5	149
104	Free radical functionalization of surfaces to prevent adverse responses to biomedical devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14405-10	11.5	153
103	Degradation of tropoelastin by matrix metalloproteinases--cleavage site specificities and release of matrikines. <i>FEBS Journal</i> , 2010 , 277, 1939-56	5.7	67
102	Substrate elasticity provides mechanical signals for the expansion of hemopoietic stem and progenitor cells. <i>Nature Biotechnology</i> , 2010 , 28, 1123-8	44.5	217
101	Structural disorder and dynamics of elastin. <i>Biochemistry and Cell Biology</i> , 2010 , 88, 239-50	3.6	120
100	A Novel Elastin-coated e-PTFE Vascular Conduit. <i>Heart Lung and Circulation</i> , 2010 , 19, 496-497	1.8	1
99	Transient tropoelastin nanoparticles are early-stage intermediates in the coacervation of human tropoelastin whose aggregation is facilitated by heparan sulfate and heparin decasaccharides. <i>Matrix Biology</i> , 2010 , 29, 152-9	11.4	26
98	Homology models for domains 21-23 of human tropoelastin shed light on lysine crosslinking. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 396, 870-3	3.4	13
97	Elastin-based materials. <i>Chemical Society Reviews</i> , 2010 , 39, 3371-9	58.5	177
96	Biomaterials derived from silk-tropoelastin protein systems. <i>Biomaterials</i> , 2010 , 31, 8121-31	15.6	130
95	The immobilization of recombinant human tropoelastin on metals using a plasma-activated coating to improve the biocompatibility of coronary stents. <i>Biomaterials</i> , 2010 , 31, 8332-40	15.6	84
94	Synthetic elastin hydrogels that are coblended with heparin display substantial swelling, increased porosity, and improved cell penetration. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 1215-22	5.4	16
93	Stages in tropoelastin coalescence during synthetic elastin hydrogel formation. <i>Micron</i> , 2010 , 41, 268-72	2.3	44
92	The linker-free covalent attachment of collagen to plasma immersion ion implantation treated polytetrafluoroethylene and subsequent cell-binding activity. <i>Biomaterials</i> , 2010 , 31, 2526-34	15.6	54
91	Synthetic human elastin microfibers: stable cross-linked tropoelastin and cell interactive constructs for tissue engineering applications. <i>Acta Biomaterialia</i> , 2010 , 6, 354-9	10.8	101
90	Cross-linked open-pore elastic hydrogels based on tropoelastin, elastin and high pressure CO ₂ . <i>Biomaterials</i> , 2010 , 31, 1655-65	15.6	100
89	Engineered tropoelastin and elastin-based biomaterials. <i>Advances in Protein Chemistry and Structural Biology</i> , 2009 , 78, 1-24	5.3	78

88	Cell adhesion to tropoelastin is mediated via the C-terminal GRKRK motif and integrin alphaVbeta3. <i>Journal of Biological Chemistry</i> , 2009 , 284, 28616-23	5.4	134
87	"Setting paint" analogy for the hydrophobic self-association of tropoelastin into elastin-like hydrogel. <i>Biopolymers</i> , 2009 , 91, 321-30	2.2	12
86	Primary human dermal fibroblast interactions with open weave three-dimensional scaffolds prepared from synthetic human elastin. <i>Biomaterials</i> , 2009 , 30, 6469-77	15.6	83
85	Covalently Bound Biomimetic Layers on Plasma Polymers with Graded Metallic Interfaces for in vivo Implants. <i>Plasma Processes and Polymers</i> , 2009 , 6, 658-666	3.4	33
84	The fabrication of elastin-based hydrogels using high pressure CO(2). <i>Biomaterials</i> , 2009 , 30, 1-7	15.6	121
83	Covalent immobilisation of tropoelastin on a plasma deposited interface for enhancement of endothelialisation on metal surfaces. <i>Biomaterials</i> , 2009 , 30, 1675-81	15.6	110
82	In vitro studies of cells grown on the superconductor PrO(x)FeAs. <i>Micron</i> , 2009 , 40, 476-9	2.3	
81	In situ polymerization of tropoelastin in the absence of chemical cross-linking. <i>Biomaterials</i> , 2009 , 30, 431-5	15.6	71
80	Synthesis of highly porous crosslinked elastin hydrogels and their interaction with fibroblasts in vitro. <i>Biomaterials</i> , 2009 , 30, 4550-7	15.6	149
79	Linker-free covalent attachment of the extracellular matrix protein tropoelastin to a polymer surface for directed cell spreading. <i>Acta Biomaterialia</i> , 2009 , 5, 3371-81	10.8	42
78	Tropoelastin. <i>International Journal of Biochemistry and Cell Biology</i> , 2009 , 41, 494-7	5.6	168
77	In vitro degradation of human tropoelastin by MMP-12 and the generation of matrikines from domain 24. <i>Matrix Biology</i> , 2009 , 28, 84-91	11.4	39
76	Tropoelastin as a thermodynamically unfolded premolten globule protein: The effect of trimethylamine N-oxide on structure and coacervation. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 487, 79-84	4.1	28
75	Towards development of a novel bio-engineered vascular bypass conduit. <i>Heart Lung and Circulation</i> , 2009 , 18, 79	1.8	
74	Plasma Treatment of ePTFE for Covalent Attachment of Human Elastin, and its Effects on Endothelialisation. <i>Heart Lung and Circulation</i> , 2009 , 18, S70	1.8	2
73	Covalent attachment of functional protein to polymer surfaces: a novel one-step dry process. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 663-9	4.1	39
72	Effect of dense gas CO2 on the coacervation of elastin. <i>Biomacromolecules</i> , 2008 , 9, 1100-5	6.9	24
71	Mapping of macrophage elastase cleavage sites in insoluble human skin elastin. <i>Matrix Biology</i> , 2008 , 27, 420-8	11.4	49

70	Electrospun Elastin-based Vascular Grafts. <i>Heart Lung and Circulation</i> , 2008 , 17, S19	1.8	3
69	Glycosaminoglycan-mediated coacervation of tropoelastin abolishes the critical concentration, accelerates coacervate formation, and facilitates spherule fusion: implications for tropoelastin microassembly. <i>Biomacromolecules</i> , 2008 , 9, 1739-44	6.9	32
68	Flexibility in the solution structure of human tropoelastin. <i>Biochemistry</i> , 2007 , 46, 8196-205	3.2	31
67	The N-terminal A domain of Staphylococcus aureus fibronectin-binding protein A binds to tropoelastin. <i>Biochemistry</i> , 2007 , 46, 7226-32	3.2	16
66	Domains 17-27 of tropoelastin contain key regions of contact for coacervation and contain an unusual turn-containing crosslinking domain. <i>Matrix Biology</i> , 2007 , 26, 125-35	11.4	38
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