

Willeke F Daamen

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101
papers

3,107
citations

28
h-index

53
g-index

103
ext. papers

3,435
ext. citations

6.7
avg, IF

4.86
L-index

#	Paper	IF	Citations
101	Increased angiogenesis and blood vessel maturation in acellular collagen-heparin scaffolds containing both FGF2 and VEGF. <i>Biomaterials</i> , 2007 , 28, 1123-31	15.6	360
100	Elastin as a biomaterial for tissue engineering. <i>Biomaterials</i> , 2007 , 28, 4378-98	15.6	349
99	Preparation and evaluation of molecularly-defined collagen-elastin-glycosaminoglycan scaffolds for tissue engineering. <i>Biomaterials</i> , 2003 , 24, 4001-9	15.6	173
98	The performance of human dental pulp stem cells on different three-dimensional scaffold materials. <i>Biomaterials</i> , 2006 , 27, 5658-68	15.6	172
97	Construction of collagen scaffolds that mimic the three-dimensional architecture of specific tissues. <i>Tissue Engineering</i> , 2007 , 13, 2387-94		103
96	The osteogenic effect of electrosprayed nanoscale collagen/calcium phosphate coatings on titanium. <i>Biomaterials</i> , 2010 , 31, 2461-9	15.6	93
95	Tissue engineering of blood vessels: characterization of smooth-muscle cells for culturing on collagen-and-elastin-based scaffolds. <i>Biotechnology and Applied Biochemistry</i> , 2004 , 39, 141-9	2.8	92
94	Comparison of five procedures for the purification of insoluble elastin. <i>Biomaterials</i> , 2001 , 22, 1997-2005	5.6	88
93	In vivo evaluation of human dental pulp stem cells differentiated towards multiple lineages. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2008 , 2, 117-25	4.4	74
92	A biomaterial composed of collagen and solubilized elastin enhances angiogenesis and elastic fiber formation without calcification. <i>Tissue Engineering - Part A</i> , 2008 , 14, 349-60	3.9	68
91	Chemotherapeutic drug delivery by tumoral extracellular matrix targeting. <i>Journal of Controlled Release</i> , 2018 , 274, 1-8	11.7	61
90	Tissue Engineering of the Urethra: A Systematic Review and Meta-analysis of Preclinical and Clinical Studies. <i>European Urology</i> , 2017 , 72, 594-606	10.2	60
89	Tissue response of defined collagen-elastin scaffolds in young and adult rats with special attention to calcification. <i>Biomaterials</i> , 2005 , 26, 81-92	15.6	60
88	First steps towards tissue engineering of small-diameter blood vessels: preparation of flat scaffolds of collagen and elastin by means of freeze drying. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 77, 357-68	3.5	58
87	Controlled fabrication of triple layered and molecularly defined collagen/elastin vascular grafts resembling the native blood vessel. <i>Acta Biomaterialia</i> , 2010 , 6, 4666-74	10.8	49
86	Versatile wedge-based system for the construction of unidirectional collagen scaffolds by directional freezing: practical and theoretical considerations. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8495-505	9.5	47
85	Urethral reconstruction of critical defects in rabbits using molecularly defined tubular type I collagen biomatrices: key issues in growth factor addition. <i>Tissue Engineering - Part A</i> , 2010 , 16, 3319-28	3.9	46

84	From molecules to matrix: construction and evaluation of molecularly defined bioscaffolds. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 585, 279-95	3.6	46
83	beta-lactoglobulin hydrolysis. 2. Peptide identification, SH/SS exchange, and functional properties of hydrolysate fractions formed by the action of plasmin. <i>Journal of Agricultural and Food Chemistry</i> , 1999 , 47, 2980-90	5.7	43
82	Lyophilisomes—A New Type of (Bio)capsule. <i>Advanced Materials</i> , 2007 , 19, 673-677	2.4	42
81	Micro-computed tomographical imaging of soft biological materials using contrast techniques. <i>Tissue Engineering - Part C: Methods</i> , 2009 , 15, 493-9	2.9	37
80	Vascular replacement using a layered elastin-collagen vascular graft in a porcine model: one week patency versus one month occlusion. <i>Organogenesis</i> , 2015 , 11, 105-21	1.7	36
79	Microscale mechanical properties of single elastic fibers: the role of fibrillin-microfibrils. <i>Biomaterials</i> , 2009 , 30, 2425-32	15.6	34
78	Tissue engineered tubular construct for urinary diversion in a preclinical porcine model. <i>Journal of Urology</i> , 2012 , 188, 653-60	2.5	33
77	Intra-uterine tissue engineering of full-thickness skin defects in a fetal sheep model. <i>Biomaterials</i> , 2010 , 31, 3910-9	15.6	33
76	A molecularly defined array based on native fibrillar collagen for the assessment of skin tissue engineering biomaterials. <i>Biomaterials</i> , 2009 , 30, 6213-20	15.6	32
75	Evaluation of collagen/heparin coated TCP/HA granules for long-term delivery of BMP-2. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 325-32	4.5	29
74	Tubular collagen scaffolds with radial elasticity for hollow organ regeneration. <i>Acta Biomaterialia</i> , 2017 , 52, 1-8	10.8	28
73	Directing collagen fibers using counter-rotating cone extrusion. <i>Acta Biomaterialia</i> , 2015 , 12, 113-121	10.8	27
72	Construction and in vivo evaluation of a dual layered collagenous scaffold with a radial pore structure for repair of the diaphragm. <i>Acta Biomaterialia</i> , 2013 , 9, 6844-51	10.8	26
71	An overview of methods for the in vivo evaluation of tissue-engineered skin constructs. <i>Tissue Engineering - Part B: Reviews</i> , 2011 , 17, 33-55	7.9	26
70	Tissue reactions to collagen scaffolds in the oral mucosa and skin of rats: environmental and mechanical factors. <i>Archives of Oral Biology</i> , 2008 , 53, 376-87	2.8	25
69	Increased angiogenesis in acellular scaffolds by combined release of FGF2 and VEGF. <i>Journal of Controlled Release</i> , 2006 , 116, e88-90	11.7	25
68	Improved cartilage regeneration by implantation of acellular biomaterials after bone marrow stimulation: a systematic review and meta-analysis of animal studies. <i>PeerJ</i> , 2016 , 4, e2243	3.1	25
67	Tissue engineering of diseased bladder using a collagen scaffold in a bladder exstrophy model. <i>BJU International</i> , 2014 , 114, 447-57	5.6	20

66	Design and in vivo evaluation of a molecularly defined acellular skin construct: reduction of early contraction and increase in early blood vessel formation. <i>Acta Biomaterialia</i> , 2011 , 7, 1063-71	10.8	19
65	Bladder Regeneration Using a Smart Acellular Collagen Scaffold with Growth Factors VEGF, FGF2 and HB-EGF. <i>Tissue Engineering - Part A</i> , 2016 , 22, 83-92	3.9	18
64	Targeting the extracellular matrix of ovarian cancer using functionalized, drug loaded lyophilisomes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 113, 229-239	5.7	18
63	Regenerative medicine for the respiratory system: distant future or tomorrow's treatment?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 187, 468-75	10.2	18
62	Evaluation of methods for the construction of collagenous scaffolds with a radial pore structure for tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, 501-4	4.4	18
61	High density gene expression microarrays and gene ontology analysis for identifying processes in implanted tissue engineering constructs. <i>Biomaterials</i> , 2010 , 31, 8299-312	15.6	18
60	Bladder Regeneration Using Multiple Acellular Scaffolds with Growth Factors in a Bladder. <i>Tissue Engineering - Part A</i> , 2018 , 24, 11-20	3.9	17
59	Drug delivery systems for ovarian cancer treatment: a systematic review and meta-analysis of animal studies. <i>PeerJ</i> , 2015 , 3, e1489	3.1	17
58	Improving the cell distribution in collagen-coated poly-caprolactone knittings. <i>Tissue Engineering - Part C: Methods</i> , 2012 , 18, 731-9	2.9	17
57	Seamless vascularized large-diameter tubular collagen scaffolds reinforced with polymer knittings for esophageal regenerative medicine. <i>Tissue Engineering - Part C: Methods</i> , 2014 , 20, 423-30	2.9	16
56	Construction of a microstructured collagen membrane mimicking the papillary dermis architecture and guiding keratinocyte morphology and gene expression. <i>Macromolecular Bioscience</i> , 2012 , 12, 675-91	5.5	16
55	Organ-specific tubular and collagen-based composite scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 327-35	2.9	16
54	Heparinized collagen scaffolds with and without growth factors for the repair of diaphragmatic hernia: construction and in vivo evaluation. <i>Organogenesis</i> , 2013 , 9, 161-7	1.7	15
53	FGF-2-loaded collagen scaffolds attract cells and blood vessels in rat oral mucosa. <i>Journal of Oral Pathology and Medicine</i> , 2009 , 38, 630-8	3.3	15
52	Scaffolds for whole organ tissue engineering: Construction and in vitro evaluation of a seamless, spherical and hollow collagen bladder construct with appendices. <i>Acta Biomaterialia</i> , 2016 , 43, 112-121	10.8	14
51	Visualisation of newly synthesised collagen in vitro and in vivo. <i>Scientific Reports</i> , 2016 , 6, 18780	4.9	14
50	Biological mechanisms influencing prosthetic bypass graft patency: possible targets for modern graft design. <i>European Journal of Vascular and Endovascular Surgery</i> , 2012 , 43, 66-72	2.3	14
49	Interferon-loaded collagen scaffolds reduce myofibroblast numbers in rat palatal mucosa. <i>European Journal of Orthodontics</i> , 2011 , 33, 1-8	3.3	14

48	Enhanced cellular uptake of albumin-based lyophilisomes when functionalized with cell-penetrating peptide TAT in HeLa cells. <i>PLoS ONE</i> , 2014 , 9, e110813	3.7	13
47	Lyophilisomes as a new generation of drug delivery capsules. <i>International Journal of Pharmaceutics</i> , 2012 , 439, 127-35	6.5	13
46	Impaired primary mouse myotube formation on crosslinked type I collagen films is enhanced by laminin and entactin. <i>Acta Biomaterialia</i> , 2016 , 30, 265-276	10.8	12
45	Muscle fibrosis in the soft palate: Delivery of cells, growth factors and anti-fibrotics. <i>Advanced Drug Delivery Reviews</i> , 2019 , 146, 60-76	18.5	12
44	Repair of surgically created diaphragmatic defect in rat with use of a crosslinked porous collagen scaffold. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013 , 7, 552-61	4.4	11
43	Collagen-Vicryl scaffolds for reconstruction of the diaphragm in a large animal model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 756-63	3.5	11
42	Similar hyaline-like cartilage repair of osteochondral defects in rabbits using isotropic and anisotropic collagen scaffolds. <i>Tissue Engineering - Part A</i> , 2014 , 20, 635-45	3.9	11
41	Novel tubular constructs for urinary diversion: a biocompatibility study in pigs. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2241-2249	4.4	10
40	Specific targeting of tumor cells by lyophilisomes functionalized with antibodies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014 , 87, 80-9	5.7	10
39	Prenatal coverage of experimental gastroschisis with a collagen scaffold to protect the bowel. <i>Journal of Pediatric Surgery</i> , 2013 , 48, 516-24	2.6	10
38	The effect of a cyclic uniaxial strain on urinary bladder cells. <i>World Journal of Urology</i> , 2017 , 35, 1531-1539		9
37	Augmented cartilage regeneration by implantation of cellular versus acellular implants after bone marrow stimulation: a systematic review and meta-analysis of animal studies. <i>PeerJ</i> , 2017 , 5, e3927	3.1	9
36	Signaling pathways in elastic tissues. <i>Cellular Signalling</i> , 2019 , 63, 109364	4.9	9
35	Sequencing of glycosaminoglycans with potential to interrogate sequence-specific interactions. <i>Scientific Reports</i> , 2017 , 7, 14785	4.9	7
34	Depots of solubilised elastin promote the formation of blood vessels and elastic fibres in rat. <i>Journal of Controlled Release</i> , 2006 , 116, e84-5	11.7	7
33	Design of an elasticized collagen scaffold: A method to induce elasticity in a rigid protein. <i>Acta Biomaterialia</i> , 2016 , 44, 277-85	10.8	7
32	Towards embryonic-like scaffolds for skin tissue engineering: identification of effector molecules and construction of scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, E34-44	4.4	7
31	Evaluation of cultured human dermal- and dermo-epidermal substitutes focusing on extracellular matrix components: Comparison of protein and RNA analysis. <i>Burns</i> , 2017 , 43, 520-530	2.3	6

30	Innate glycosidic activity in metallic implants for localized synthesis of antibacterial drugs. <i>Chemical Communications</i> , 2019 , 55, 443-446	5.8	6
29	A versatile salt-based method to immobilize glycosaminoglycans and create growth factor gradients. <i>Glycoconjugate Journal</i> , 2019 , 36, 227-236	3	6
28	A comparison of seven methods to analyze heparin in biomaterials: quantification, location, and anticoagulant activity. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 669-76	2.9	6
27	Evaluation and Refinement of Sample Preparation Methods for Extracellular Matrix Proteome Coverage. <i>Molecular and Cellular Proteomics</i> , 2021 , 20, 100079	7.6	6
26	Self-expandable tubular collagen implants. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 1494-1498	4.4	5
25	Providing direction improves function: Comparison of a radial pore-orientated acellular collagen scaffold to clinical alternatives in a surgically induced rabbit diaphragmatic tissue defect model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 2138-2150	4.4	5
24	Tissue engineering of diseased bladder using a collagen scaffold in a bladder exstrophy model. <i>BJU International</i> , 2013 , 114, n/a-n/a	5.6	5
23	Preparation of differently sized injectable collagen micro-scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, 665-7	4.4	5
22	An animal model for femoral artery pseudoaneurysms. <i>Journal of Vascular and Interventional Radiology</i> , 2010 , 21, 1078-83	2.4	5
21	Preparation and characterization of injectable fibrillar type I collagen and evaluation for pseudoaneurysm treatment in a pig model. <i>Journal of Vascular Surgery</i> , 2010 , 52, 1330-8	3.5	5
20	Cloning, large-scale production, and purification of active dimeric rat vascular endothelial growth factor (rrVEGF-164). <i>Protein Expression and Purification</i> , 2010 , 69, 76-82	2	5
19	Unidirectional BMP2-loaded collagen scaffolds induce chondrogenic differentiation. <i>Biomedical Materials (Bristol)</i> , 2017 , 13, 015007	3.5	5
18	Biodistribution of size-selected lyophilisomes in mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 94, 141-51	5.7	3
17	Elastin Biopolymers 2011 , 329-346		3
16	Copper-Heparin Inhalation Therapy To Repair Emphysema: A Scientific Rationale. <i>International Journal of COPD</i> , 2019 , 14, 2587-2602	3	3
15	Continuously Grooved Stent Struts for Enhanced Endothelial Cell Seeding. <i>CardioVascular and Interventional Radiology</i> , 2017 , 40, 1237-1245	2.7	2
14	Introduction of Specific 3D Micromorphologies in Collagen Scaffolds Using Odd and Even Dicarboxylic Acids. <i>ACS Omega</i> , 2020 , 5, 3908-3916	3.9	2
13	Abnormalities in reparative function of lung-derived mesenchymal stromal cells in emphysema. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021 , 320, L832-L844	5.8	2

12	Construction and evaluation of an antibody phage display library targeting heparan sulfate. <i>Glycoconjugate Journal</i> , 2020 , 37, 445-455	3	1
11	Lyophilisomes: Potential carriers for tumor targeting. <i>Journal of Controlled Release</i> , 2010 , 148, e7-8	11.7	1
10	Sustained Postnatal Skin Regeneration Upon Prenatal Application of Functionalized Collagen Scaffolds. <i>Tissue Engineering - Part A</i> , 2021 , 27, 10-25	3.9	1
9	Properties of different poultry skins sources in relation to co-extruded sausage casings. <i>Food Hydrocolloids</i> , 2022 , 125, 107434	10.6	0
8	Growth factor mimetics for skin regeneration: In vitro profiling of primary human fibroblasts and keratinocytes. <i>Archiv Der Pharmazie</i> , 2021 , 354, e2100082	4.3	0
7	Dynamic Expression of Genes Involved in Proteoglycan/Glycosaminoglycan Metabolism during Skin Development. <i>BioMed Research International</i> , 2018 , 2018, 9873471	3	0
6	2.18 Elastin Biopolymers ? 2017 , 412-437		
5	Preparation of a growth factor gradient in porous collagen scaffolds and its effect on cell growth proliferation. <i>Journal of Controlled Release</i> , 2006 , 116, e87-8	11.7	
4	A Biomaterial Composed of Collagen and Solubilized Elastin Enhances Angiogenesis and Elastic Fiber Formation Without Calcification. <i>Tissue Engineering</i> , 110306233438005		
3	Extracellular MatrixBased Scaffolds from Scratch 2012 , 385-398		
2	A salt-based method to adapt stiffness and biodegradability of porous collagen scaffolds.. <i>RSC Advances</i> , 2019 , 9, 36742-36750	3.7	
1	Polarized Secretion of APRIL by the Tonsil Epithelium Upon Toll-Like Receptor Stimulation. <i>Frontiers in Immunology</i> , 2021 , 12, 715724	8.4	