

# George D Pins

## List of Publications by Year in descending order

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53  
papers

1,986  
citations

236612

25  
h-index

243296

44  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2378  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic scaffolds for regeneration of volumetric muscle loss in skeletal muscle injuries. <i>Acta Biomaterialia</i> , 2015, 25, 2-15.	4.1	178
2	Preparation and use of fibrin glue in surgery. <i>Biomaterials</i> , 1995, 16, 891-903.	5.7	138
3	Collagen fibres with improved strength for the repair of soft tissue injuries. <i>Biomaterials</i> , 1994, 15, 507-512.	5.7	127
4	Crosslinking of discrete self-assembled collagen threads: Effects on mechanical strength and cell-matrix interactions. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 362-371.	2.1	127
5	Restoration of Skeletal Muscle Defects with Adult Human Cells Delivered on Fibrin Microthreads. <i>Tissue Engineering - Part A</i> , 2011, 17, 2629-2640.	1.6	101
6	Novel Electrodes for Underwater ECG Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1863-1876.	2.5	89
7	Multiphoton Excited Fabrication of Collagen Matrixes Cross-Linked by a Modified Benzophenone Dimer: Bioactivity and Enzymatic Degradation. <i>Biomacromolecules</i> , 2005, 6, 1465-1474.	2.6	86
8	Effects of static axial strain on the tensile properties and failure mechanisms of self-assembled collagen fibers. <i>Journal of Applied Polymer Science</i> , 1997, 63, 1429-1440.	1.3	83
9	Microfabrication of an analog of the basal lamina: biocompatible membranes with complex topographies. <i>FASEB Journal</i> , 2000, 14, 593-602.	0.2	79
10	In Vitro Comparison of Wire and Plate Fixation for Midline Sternotomies. <i>Annals of Thoracic Surgery</i> , 2005, 80, 962-968.	0.7	72
11	Micropatterned dermal epidermal regeneration matrices create functional niches that enhance epidermal morphogenesis. <i>Acta Biomaterialia</i> , 2013, 9, 9474-9484.	4.1	64
12	A self-assembled collagen scaffold suitable for use in soft and hard tissue replacement. <i>Materials Science and Engineering C</i> , 1995, 3, 101-107.	3.8	61
13	Characterizing fibroblast migration on discrete collagen threads for applications in tissue regeneration. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71A, 55-62.	3.0	58
14	Plasmin Triggers Rapid Contraction and Degradation of Fibroblast-Populated Collagen Lattices. <i>Journal of Investigative Dermatology</i> , 2000, 114, 647-653.	0.3	54
15	Rapid release of growth factors regenerates force output in volumetric muscle loss injuries. <i>Biomaterials</i> , 2015, 72, 49-60.	5.7	52
16	Skeletal Muscle Tissue Engineering: Biomaterials-Based Strategies for the Treatment of Volumetric Muscle Loss. <i>Bioengineering</i> , 2020, 7, 85.	1.6	51
17	Fibrin microthreads support mesenchymal stem cell growth while maintaining differentiation potential. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 301-312.	2.1	43
18	Discrete crosslinked fibrin microthread scaffolds for tissue regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 82A, 104-112.	2.1	39

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19	A novel suture-based method for efficient transplantation of stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 809-818.	2.1	38
20	The influence of microtextured basal lamina analog topography on keratinocyte function and epidermal organization. <i>Journal of Biomedical Materials Research Part B</i> , 2005, 72A, 47-56.	3.0	35
21	Novel Conductive Carbon Black and Polydimethylsiloxane ECG Electrode: A Comparison with Commercial Electrodes in Fresh, Chlorinated, and Salt Water. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2464-2479.	1.3	34
22	Multiphoton excited fabricated nano and micro patterned extracellular matrix proteins direct cellular morphology. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 194-204.	2.1	33
23	Development of Microfabricated Dermal Epidermal Regenerative Matrices to Evaluate the Role of Cellular Microenvironments on Epidermal Morphogenesis. <i>Tissue Engineering - Part A</i> , 2012, 18, 2343-2353.	1.6	32
24	Design of a Fibrin Microthread-Based Composite Layer for Use in a Cardiac Patch. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1394-1403.	2.6	29
25	Preparation of fibrin glue: A study of chemical and physical methods. <i>Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials</i> , 1995, 6, 175-183.	1.1	28
26	Creation of a contractile biomaterial from a decellularized spinach leaf without ECM protein coating: An in vitro study. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 2123-2132.	2.1	26
27	Enhanced Proliferation and Migration of Fibroblasts on the Surface of Fibroblast Growth Factor-2-Loaded Fibrin Microthreads. <i>Tissue Engineering - Part A</i> , 2010, 16, 3669-3677.	1.6	25
28	Crosslinking strategies facilitate tunable structural properties of fibrin microthreads. <i>Acta Biomaterialia</i> , 2012, 8, 4020-4030.	4.1	19
29	A Mechanical Study of Rigid Plate Configurations for Sternal Fixation. <i>Annals of Biomedical Engineering</i> , 2007, 35, 808-816.	1.3	17
30	Static axial stretching enhances the mechanical properties and cellular responses of fibrin microthreads. <i>Acta Biomaterialia</i> , 2014, 10, 4367-4376.	4.1	17
31	Delivering stem cells to the healthy heart on biological sutures: effects on regional mechanical function. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 220-230.	1.3	17
32	Preparation of fibrin glue: the effects of calcium chloride and sodium chloride. <i>Materials Science and Engineering C</i> , 1995, 3, 131-135.	3.8	15
33	Conjugation of extracellular matrix proteins to basal lamina analogs enhances keratinocyte attachment. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 444-452.	2.1	15
34	Designing Biopolymer Microthreads for Tissue Engineering and Regenerative Medicine. <i>Current Stem Cell Reports</i> , 2016, 2, 147-157.	0.7	14
35	Physical properties of hyaluronic acid and hydroxypropylmethylcellulose in solution: Evaluation of coating ability. <i>Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials</i> , 1994, 5, 89-98.	1.1	13
36	Characterization of Forces on the Sternal Midline Following Median Sternotomy in a Porcine Model. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 051004.	0.6	13

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37	Peripheral nerve regeneration in the presence of collagen fibers: Effect of removal of the distal nerve stump. <i>Clinical Materials</i> , 1994, 16, 73-80.	0.5	11
38	Carbodiimide Conjugation of Fibronectin on Collagen Basal Lamina Analogs Enhances Cellular Binding Domains and Epithelialization. <i>Tissue Engineering - Part A</i> , 2010, 16, 829-838.	1.6	10
39	Horseradish Peroxidase-Catalyzed Crosslinking of Fibrin Microthread Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 317-331.	1.1	10
40	The Effect of Sterilization Methods on the Structural and Chemical Properties of Fibrin Microthread Scaffolds. <i>Macromolecular Bioscience</i> , 2016, 16, 836-846.	2.1	9
41	Etching anisotropic surface topography onto fibrin microthread scaffolds for guiding myoblast alignment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2308-2319.	1.6	9
42	Design of an <i>In Vitro</i> Model of Cell Recruitment for Skeletal Muscle Regeneration Using Hepatocyte Growth Factor-Loaded Fibrin Microthreads. <i>Tissue Engineering - Part A</i> , 2017, 23, 773-783.	1.6	6
43	Silicone Gel-Filled Breast Implants: Is Local Inflammation Associated With Fat Necrosis?. <i>Breast Journal</i> , 1995, 1, 17-21.	0.4	4
44	Collagenous Biocomposites for the Repair of Soft Tissue Injury. <i>Materials Research Society Symposia Proceedings</i> , 1991, 252, 151.	0.1	3
45	Design of a novel engineered muscle construct using muscle derived fibroblastic cells seeded onto braided collagen threads. , 2009, , .		1
46	Effects of static axial strain on the tensile properties and failure mechanisms of self-assembled collagen fibers. <i>Journal of Applied Polymer Science</i> , 1997, 63, 1429-1440.	1.3	1
47	Design of a technique for rapid and uniform cell seeding on fibrin microthreads. , 2009, , .		0
48	Design of a co-culture system using collagen microthreads to facilitate neovascularization. , 2009, , .		0
49	Every cell has its niche: Harnessing microtopography to control keratinocyte fate. , 2014, , .		0
50	Enhancing cell recruitment onto crosslinked fibrin microthreads with hepatocyte growth factor. , 2014, , .		0
51	Design of a fibrin sheet with a microengineered vascular network for the modular design of engineered myocardium. , 2015, , .		0
52	Developing quantitative MRI parameters to characterize host response and tissue ingrowth into collagen scaffolds. <i>NMR in Biomedicine</i> , 2019, 32, e4059.	1.6	0
53	Delivering Stem Cells to the Heart on Biological Sutures: Effects on Regional Mechanical Function. , 2011, , .		0