

Gary L Bowlin

List of Publications by Year in descending order

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68
papers

4,250
citations

201674

27
h-index

110387

64
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68
all docs

68
docs citations

68
times ranked

6094
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutrophil Extracellular Traps: Inflammation and Biomaterial Preconditioning for Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2022, 28, 437-450.	4.8	9
2	Methods for Quantifying Neutrophil Extracellular Traps on Biomaterials. <i>Methods in Molecular Biology</i> , 2022, 2394, 727-742.	0.9	0
3	Near-field electrospinning of polydioxanone small diameter vascular graft scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 130, 105207.	3.1	3
4	Neutrophils in Biomaterial-Guided Tissue Regeneration: Matrix Reprogramming for Angiogenesis. <i>Tissue Engineering - Part B: Reviews</i> , 2021, 27, 95-106.	4.8	20
5	Near-Field Electrospinning and Melt Electrowriting of Biomedical Polymers—Progress and Limitations. <i>Polymers</i> , 2021, 13, 1097.	4.5	26
6	Electrospun Polydioxanone Loaded With Chloroquine Modulates Template-Induced NET Release and Inflammatory Responses From Human Neutrophils. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 652055.	4.1	4
7	Patients with COVID-19: in the dark-NETs of neutrophils. <i>Cell Death and Differentiation</i> , 2021, 28, 3125-3139.	11.2	189
8	Human neutrophil Fc γ RIIIb regulates neutrophil extracellular trap release in response to electrospun polydioxanone biomaterials. <i>Acta Biomaterialia</i> , 2021, 130, 281-290.	8.3	6
9	Mechanical characterization and neutrophil NETs response of a novel hybrid geometry polydioxanone near-field electrospun scaffold. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 065002.	3.3	4
10	Characterization of Polydioxanone in Near-Field Electrospinning. <i>Polymers</i> , 2020, 12, 1.	4.5	276
11	Manuka Honey Reduces NETosis on an Electrospun Template Within a Therapeutic Window. <i>Polymers</i> , 2020, 12, 1430.	4.5	10
12	37/67 α -Laminin receptor facilitates neural crest cell migration during enteric nervous system development. <i>FASEB Journal</i> , 2020, 34, 10931-10947.	0.5	6
13	Manuka honey modulates the release profile of a dHL-60 neutrophil model under anti-inflammatory stimulation. <i>Journal of Tissue Viability</i> , 2020, 29, 91-99.	2.0	10
14	An atorvastatin calcium and poly(L-lactide-co-caprolactone) core-shell nanofiber-covered stent to treat aneurysms and promote reendothelialization. <i>Acta Biomaterialia</i> , 2020, 111, 102-117.	8.3	20
15	Electrospun Polydioxanone Templates Loaded with Chloroquine Modulate Template-Induced NET Release and the Inflammatory Response. <i>Proceedings (mdpi)</i> , 2020, 78, .	0.2	0
16	Electrospun gelatin α -arabinoxylan ferulate composite fibers for diabetic chronic wound dressing application. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2019, 68, 660-668.	3.4	14
17	Surface Area to Volume Ratio of Electrospun Polydioxanone Templates Regulates the Adsorption of Soluble Proteins from Human Serum. <i>Bioengineering</i> , 2019, 6, 78.	3.5	13
18	Manuka Honey Modulates the Inflammatory Behavior of a dHL-60 Neutrophil Model under the Cytotoxic Limit. <i>International Journal of Biomaterials</i> , 2019, 2019, 1-12.	2.4	28

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19	The Effect of Manuka Honey on dHL-60 Cytokine, Chemokine, and Matrix-Degrading Enzyme Release under Inflammatory Conditions. <i>Med One</i> , 2019, 4, .	1.0	7
20	Design and Fabrication of a Biomimetic Vascular Scaffold Promoting in Situ Endothelialization and Tunica Media Regeneration. <i>ACS Applied Bio Materials</i> , 2018, 1, 833-844.	4.6	23
21	Localized Delivery of Cl-Amidine From Electrospun Polydioxanone Templates to Regulate Acute Neutrophil NETosis: A Preliminary Evaluation of the PAD4 Inhibitor for Tissue Engineering. <i>Frontiers in Pharmacology</i> , 2018, 9, 289.	3.5	13
22	Honey-Based Templates in Wound Healing and Tissue Engineering. <i>Bioengineering</i> , 2018, 5, 46.	3.5	104
23	Electrospun Template Architecture and Composition Regulate Neutrophil NETosis <i>in Vitro</i> and <i>in Vivo</i> . <i>Tissue Engineering - Part A</i> , 2017, 23, 1054-1063.	3.1	33
24	An overview of the role of neutrophils in innate immunity, inflammation and host-biomaterial integration. <i>International Journal of Energy Production and Management</i> , 2017, 4, 55-68.	3.7	364
25	Breast epithelial cell infiltration in enhanced electrospun silk scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, E121-E131.	2.7	7
26	Fabrication, characterization, and <i>in vitro</i> evaluation of silver-containing arabinosyl foams as antimicrobial wound dressing. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2456-2465.	4.0	12
27	<i>In vitro</i> characterization of MG-63 osteoblast-like cells cultured on organic-inorganic lyophilized gelatin sponges for early bone healing. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2011-2019.	4.0	17
28	Modeling early stage bone regeneration with biomimetic electrospun fibrinogen nanofibers and adipose-derived mesenchymal stem cells. <i>Electrospinning</i> , 2016, 1, .	1.6	3
29	Electrospun silk fibroin/poly (L-lactide- μ -caplacton) graft with platelet-rich growth factor for inducing smooth muscle cell growth and infiltration. <i>International Journal of Energy Production and Management</i> , 2016, 3, 239-245.	3.7	19
30	The influence of platelet-rich plasma on myogenic differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, E239-E249.	2.7	32
31	Bioengineered silk scaffolds in 3D tissue modeling with focus on mammary tissues. <i>Materials Science and Engineering C</i> , 2016, 59, 1168-1180.	7.3	42
32	Fabrication and characterization of air-impedance electrospun polydioxanone templates. <i>Electrospinning</i> , 2015, 1, .	1.6	6
33	Electrospinning of PEGylated polyamidoamine dendrimer fibers. <i>Materials Science and Engineering C</i> , 2015, 56, 189-194.	7.3	9
34	Imaging, spectroscopy, mechanical, alignment and biocompatibility studies of electrospun medical grade polyurethane (Carbothane [®] , 3575A) nanofibers and composite nanofibers containing multiwalled carbon nanotubes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 41, 189-198.	3.1	48
35	Poly(ester-ether)s: I. Investigation of the Properties of Blend Films of Polydioxanone and Poly(methyl Tj ETQq1 1 0.784314 rgBT /Ove	3.4	8
36	Platelet-Rich Plasma in Bone Regeneration: Engineering the Delivery for Improved Clinical Efficacy. <i>BioMed Research International</i> , 2014, 2014, 1-15.	1.9	83

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37	Imaging, spectroscopic, mechanical and biocompatibility studies of electrospun Tecoflex® EG 80A nanofibers and composites thereof containing multiwalled carbon nanotubes. <i>Applied Surface Science</i> , 2014, 321, 205-213.	6.1	17
38	Mammary epithelial cell adhesion, viability, and infiltration on blended or coated silk fibroin-collagen type I electrospun scaffolds. <i>Materials Science and Engineering C</i> , 2014, 43, 37-44.	7.3	44
39	A preliminary study on amelogenin-loaded electrospun scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , 2014, 29, 32-49.	2.1	4
40	Fabrication of cell penetration enhanced poly (L-lactic acid-co-ε-caprolactone)/silk vascular scaffolds utilizing air-impedance electrospinning. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 120, 47-54.	5.0	32
41	Mineralization and Characterization of Composite Lyophilized Gelatin Sponges Intended for Early Bone Regeneration. <i>Bioengineering</i> , 2014, 1, 62-84.	3.5	10
42	Compression of Multilayered Composite Electrospun Scaffolds: A Novel Strategy to Rapidly Enhance Mechanical Properties and Three Dimensionality of Bone Scaffolds. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-9.	1.8	9
43	A Preliminary Evaluation of Lyophilized Gelatin Sponges, Enhanced with Platelet-Rich Plasma, Hydroxyapatite and Chitin Whiskers for Bone Regeneration. <i>Cells</i> , 2013, 2, 244-265.	4.1	34
44	An assessment of biopolymer- and synthetic polymer-based scaffolds for bone and vascular tissue engineering. <i>Polymer International</i> , 2013, 62, 523-533.	3.1	85
45	Mineralization Potential of Electrospun PDO-Hydroxyapatite-Fibrinogen Blended Scaffolds. <i>International Journal of Biomaterials</i> , 2012, 2012, 1-12.	2.4	21
46	A Preliminary Study on the Potential of Manuka Honey and Platelet-Rich Plasma in Wound Healing. <i>International Journal of Biomaterials</i> , 2012, 2012, 1-14.	2.4	68
47	Diblock Poly(ester)-Poly(ester-ether) Copolymers: I. Synthesis, Thermal Properties, and Degradation Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12031-12040.	3.7	14
48	The incorporation and controlled release of platelet-rich plasma-derived biomolecules from polymeric tissue engineering scaffolds. <i>Polymer International</i> , 2012, 61, 1703-1709.	3.1	6
49	Preparation of chitin nanofibril/polycaprolactone nanocomposite from a nonaqueous medium suspension. <i>Carbohydrate Polymers</i> , 2012, 87, 2313-2319.	10.2	51
50	Incorporating Platelet-Rich Plasma into Electrospun Scaffolds for Tissue Engineering Applications. <i>Tissue Engineering - Part A</i> , 2011, 17, 2723-2737.	3.1	94
51	Two pole air gap electrospinning: Fabrication of highly aligned, three-dimensional scaffolds for nerve reconstruction. <i>Acta Biomaterialia</i> , 2011, 7, 203-215.	8.3	136
52	Electrospun Collagen: A Tissue Engineering Scaffold with Unique Functional Properties in a Wide Variety of Applications. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-15.	2.7	65
53	Evaluation of biological activity of bone morphogenetic proteins on exposure to commonly used electrospinning solvents. <i>Journal of Bioactive and Compatible Polymers</i> , 2011, 26, 578-589.	2.1	13
54	Feasibility of Electrospun Polydioxanone Monocyte Chemotactic Protein-1 (MCP-1) Hybrid Scaffolds as Potential Cellular Homing Devices. <i>Journal of Engineered Fibers and Fabrics</i> , 2010, 5, 155892501000500.	1.0	3

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55	The Use of Natural Polymers in Tissue Engineering: A Focus on Electrospun Extracellular Matrix Analogues. <i>Polymers</i> , 2010, 2, 522-553.	4.5	459
56	Electrospun Polydioxanone, Elastin, and Collagen Vascular Scaffolds: Uniaxial Cyclic Distension. <i>Journal of Engineered Fibers and Fabrics</i> , 2009, 4, 155892500900400.	1.0	8
57	Suture-reinforced electrospun polydioxanone-elastin small-diameter tubes for use in vascular tissue engineering: A feasibility study. <i>Acta Biomaterialia</i> , 2008, 4, 58-66.	8.3	115
58	Creating small diameter bioresorbable vascular grafts through electrospinning. <i>Journal of Materials Chemistry</i> , 2008, 18, 260-263.	6.7	36
59	A Novel Electrospun Dendrimer-Gelatin Hybrid Nanofiber Scaffold for Tissue Regeneration and Drug Delivery. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1094, 1.	0.1	4
60	Immune Response Testing of Electrospun Polymers: An Important Consideration in the Evaluation of Biomaterials. <i>Journal of Engineered Fibers and Fabrics</i> , 2007, 2, 155892500700200.	1.0	6
61	Extracellular matrix regenerated: tissue engineering via electrospun biomimetic nanofibers. <i>Polymer International</i> , 2007, 56, 1349-1360.	3.1	187
62	Feasibility of Electrospinning the Globular Proteins Hemoglobin and Myoglobin. <i>Journal of Engineered Fibers and Fabrics</i> , 2006, 1, 155892500600100.	1.0	16
63	Thermal and Mechanical Characterization of Electrospun Blends of Poly(lactic acid) and Poly(glycolic acid). <i>Polymer Journal</i> , 2006, 38, 1137-1145.	2.7	52
64	Electrospinning polydioxanone for biomedical applications. <i>Acta Biomaterialia</i> , 2005, 1, 115-123.	8.3	267
65	Biomedical Nanoscience: Electrospinning Basic Concepts, Applications, and Classroom Demonstration. <i>Materials Research Society Symposia Proceedings</i> , 2004, 827, 171.	0.1	12
66	Electrospinning of Nanofiber Fibrinogen Structures. <i>Nano Letters</i> , 2003, 3, 213-216.	9.1	515
67	TAILORING TISSUE ENGINEERING SCAFFOLDS USING ELECTROSTATIC PROCESSING TECHNIQUES: A STUDY OF POLY(GLYCOLIC ACID) ELECTROSPINNING. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2001, 38, 1231-1243.	2.2	395
68	Determination of the Prime Electrostatic Endothelial Cell Transplantation Procedure for e-PTFE Vascular Prostheses. <i>Cell Transplantation</i> , 2000, 9, 337-348.	2.5	6