

Scott A Sell

List of Publications by Year in descending order

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96
papers

5,301
citations

117571

34
h-index

85498

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96
all docs

96
docs citations

96
times ranked

6978
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanofiber technology: Designing the next generation of tissue engineering scaffolds. <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 1413-1433.	6.6	1,005
2	The Use of Natural Polymers in Tissue Engineering: A Focus on Electrospun Extracellular Matrix Analogues. <i>Polymers</i> , 2010, 2, 522-553.	2.0	459
3	Electrospinning of collagen/biopolymers for regenerative medicine and cardiovascular tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 1007-1019.	6.6	417
4	A three-layered electrospun matrix to mimic native arterial architecture using polycaprolactone, elastin, and collagen: A preliminary study. <i>Acta Biomaterialia</i> , 2010, 6, 2422-2433.	4.1	245
5	Electrospun polydioxanone-“elastin blends: potential for bioresorbable vascular grafts. <i>Biomedical Materials (Bristol)</i> , 2006, 1, 72-80.	1.7	206
6	A comprehensive review of cryogels and their roles in tissue engineering applications. <i>Acta Biomaterialia</i> , 2017, 62, 29-41.	4.1	198
7	Extracellular matrix regenerated: tissue engineering via electrospun biomimetic nanofibers. <i>Polymer International</i> , 2007, 56, 1349-1360.	1.6	187
8	Two pole air gap electrospinning: Fabrication of highly aligned, three-dimensional scaffolds for nerve reconstruction. <i>Acta Biomaterialia</i> , 2011, 7, 203-215.	4.1	136
9	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.	4.1	115
10	Electrospinning-aligned and random polydioxanone-“polycaprolactone-“silk fibroin-blended scaffolds: geometry for a vascular matrix. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 055010.	1.7	95
11	Incorporating Platelet-Rich Plasma into Electrospun Scaffolds for Tissue Engineering Applications. <i>Tissue Engineering - Part A</i> , 2011, 17, 2723-2737.	1.6	94
12	Cross-linking methods of electrospun fibrinogen scaffolds for tissue engineering applications. <i>Biomedical Materials (Bristol)</i> , 2008, 3, 045001.	1.7	91
13	Platelet-Rich Plasma in Bone Regeneration: Engineering the Delivery for Improved Clinical Efficacy. <i>BioMed Research International</i> , 2014, 2014, 1-15.	0.9	83
14	Nanotechnology in the design of soft tissue scaffolds: innovations in structure and function. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010, 2, 20-34.	3.3	77
15	Electrospun nanofibre fibrinogen for urinary tract tissue reconstruction. <i>Biomedical Materials (Bristol)</i> , 2007, 2, 257-262.	1.7	75
16	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.	1.1	68
17	The use of air-flow impedance to control fiber deposition patterns during electrospinning. <i>Biomaterials</i> , 2012, 33, 771-779.	5.7	68
18	Scaffold permeability as a means to determine fiber diameter and pore size of electrospun fibrinogen. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 85A, 115-126.	2.1	67

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19	Characterization of slow-gelling alginate hydrogels for intervertebral disc tissue-engineering applications. <i>Materials Science and Engineering C</i> , 2016, 63, 198-210.	3.8	67
20	Design of electrohydrodynamic sprayed polyethylene glycol hydrogel microspheres for cell encapsulation. <i>Biofabrication</i> , 2017, 9, 025019.	3.7	67
21	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.	1.5	65
22	Control of gelation, degradation and physical properties of polyethylene glycol hydrogels through the chemical and physical identity of the crosslinker. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2679-2691.	2.9	57
23	A review of electrospinning manipulation techniques to direct fiber deposition and maximize pore size. <i>Electrospinning</i> , 2017, 2, 46-61.	1.6	54
24	Aligned nanofibers of decellularized muscle ECM support myogenic activity in primary satellite cells <i>in vitro</i> . <i>Biomedical Materials (Bristol)</i> , 2019, 14, 035010.	1.7	54
25	Lactic Acid Suppresses IL-33-Mediated Mast Cell Inflammatory Responses via Hypoxia-Inducible Factor-1-Dependent miR-155 Suppression. <i>Journal of Immunology</i> , 2016, 197, 2909-2917.	0.4	52
26	Electrospun core-sheath poly(vinyl alcohol)/silk fibroin nanofibers with Rosuvastatin release functionality for enhancing osteogenesis of human adipose-derived stem cells. <i>Materials Science and Engineering C</i> , 2019, 99, 129-139.	3.8	45
27	Electrospinning adipose tissue-derived extracellular matrix for adipose stem cell culture. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1716-1724.	2.1	43
28	Angiogenic potential of human macrophages on electrospun bioresorbable vascular grafts. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 031001.	1.7	40
29	Insert-based microfluidics for 3D cell culture with analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3025-3035.	1.9	40
30	A Comparison of Tissue Engineering Scaffolds Incorporated with Manuka Honey of Varying UMF. <i>BioMed Research International</i> , 2017, 2017, 1-12.	0.9	39
31	A case report on the use of sustained release platelet-rich plasma for the treatment of chronic pressure ulcers. <i>Journal of Spinal Cord Medicine</i> , 2011, 34, 122-127.	0.7	38
32	A Critical Review and Perspective of Honey in Tissue Engineering and Clinical Wound Healing. <i>Advances in Wound Care</i> , 2019, 8, 403-415.	2.6	38
33	Creating small diameter bioresorbable vascular grafts through electrospinning. <i>Journal of Materials Chemistry</i> , 2008, 18, 260-263.	6.7	36
34	Use of electrospinning and dynamic air focusing to create three-dimensional cell culture scaffolds in microfluidic devices. <i>Analyst, The</i> , 2016, 141, 5311-5320.	1.7	36
35	Cryogel scaffolds from patient-specific 3D-printed molds for personalized tissue-engineered bone regeneration in pediatric cleft-craniofacial defects. <i>Journal of Biomaterials Applications</i> , 2017, 32, 598-611.	1.2	36
36	Sustained release of multicomponent platelet-rich plasma proteins from hydrolytically degradable PEG hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 3304-3314.	2.1	35

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37	Reversible Hydrogel Photopatterning: Spatial and Temporal Control over Gel Mechanical Properties Using Visible Light Photoredox Catalysis. ACS Applied Materials & Interfaces, 2019, 11, 24627-24638.	4.0	35
38	A Preliminary Evaluation of Lyophilized Gelatin Sponges, Enhanced with Platelet-Rich Plasma, Hydroxyapatite and Chitin Whiskers for Bone Regeneration. Cells, 2013, 2, 244-265.	1.8	34
39	A preliminary <i>in vitro</i> evaluation of the bioactive potential of cryogel scaffolds incorporated with Manuka honey for the treatment of chronic bone infections. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1918-1933.	1.6	34
40	Investigating Manuka Honey Antibacterial Properties When Incorporated into Cryogel, Hydrogel, and Electrospun Tissue Engineering Scaffolds. Gels, 2019, 5, 21.	2.1	34
41	Preliminary Investigation of Airgap Electrospun Silk-Fibroin-Based Structures for Ligament Analogue Engineering. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 1253-1273.	1.9	32
42	The influence of platelet-rich plasma on myogenic differentiation. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, E239-E249.	1.3	32
43	The calcification potential of cryogel scaffolds incorporated with various forms of hydroxyapatite for bone regeneration. Biomedical Materials (Bristol), 2017, 12, 025005.	1.7	29
44	Fabrication of Polyethylene Glycol-Based Hydrogel Microspheres Through Electro spraying. Macromolecular Materials and Engineering, 2015, 300, 823-835.	1.7	28
45	Characterization and restoration of degenerated IVD function with an injectable, in situ gelling alginate hydrogel: An <i>in vitro</i> and <i>ex vivo</i> study. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 72, 229-240.	1.5	28
46	Decellularized extracellular matrices for tissue engineering applications. Electrospinning, 2017, 1, .	1.6	27
47	The Lipid Portion of Activated Platelet-Rich Plasma Significantly Contributes to Its Wound Healing Properties. Advances in Wound Care, 2015, 4, 100-109.	2.6	25
48	Diabetic Wounds Exhibit Decreased Ym1 and Arginase Expression with Increased Expression of IL-17 and IL-20. Advances in Wound Care, 2016, 5, 486-494.	2.6	25
49	Comparison of silk fibroin electrospun scaffolds with poloxamer and honey additives for burn wound applications. Journal of Bioactive and Compatible Polymers, 2018, 33, 79-94.	0.8	25
50	Natural and Synthetic Scaffolds. , 2011, , 41-67.		22
51	Mineralization Potential of Electrospun PDO-Hydroxyapatite-Fibrinogen Blended Scaffolds. International Journal of Biomaterials, 2012, 2012, 1-12.	1.1	21
52	Microchip-based 3D-cell culture using polymer nanofibers generated by solution blow spinning. Analytical Methods, 2017, 9, 3274-3283.	1.3	20
53	Randomized, Placebo-Controlled Analysis of the Knee Synovial Environment Following Platelet-Rich Plasma Treatment for Knee Osteoarthritis. PM and R, 2021, 13, 707-719.	0.9	20
54	Dynamic, multimodal hydrogel actuators using porphyrin-based visible light photoredox catalysis in a thermoresponsive polymer network. Chemical Science, 2020, 11, 10910-10920.	3.7	18

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55	<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.	2.1	17
56	Biomimetic sponges for regeneration of skeletal muscle following trauma. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 92-103.	2.1	17
57	Feasibility of Electrospinning the Globular Proteins Hemoglobin and Myoglobin. <i>Journal of Engineered Fibers and Fabrics</i> , 2006, 1, 155892500600100.	0.5	16
58	Tissue Engineering Scaffolds Fabricated in Dissolvable 3D-Printed Molds for Patient-Specific Craniofacial Bone Regeneration. <i>Journal of Functional Biomaterials</i> , 2018, 9, 46.	1.8	16
59	Platelet-Rich Plasma Released From Polyethylene Glycol Hydrogels Exerts Beneficial Effects on Human Chondrocytes. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2401-2410.	1.2	15
60	Lactic acid suppresses IgE-mediated mast cell function in vitro and in vivo. <i>Cellular Immunology</i> , 2019, 341, 103918.	1.4	13
61	Bioconjugation of platelet-rich plasma and alginate through carbodiimide chemistry for injectable hydrogel therapies. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1972-1984.	1.6	13
62	Micro-Clotting of Platelet-Rich Plasma Upon Loading in Hydrogel Microspheres Leads to Prolonged Protein Release and Slower Microsphere Degradation. <i>Polymers</i> , 2020, 12, 1712.	2.0	13
63	Cross-linking Electrospun Polydioxanone-Soluble Elastin Blends: Material Characterization. <i>Journal of Engineered Fibers and Fabrics</i> , 2008, 3, 155892500800300.	0.5	12
64	The Creation of Electrospun Nanofibers from Platelet Rich Plasma. <i>Journal of Tissue Science & Engineering</i> , 2011, 02, .	0.2	12
65	Preliminary Investigation and Characterization of Electrospun Polycaprolactone and Manuka Honey Scaffolds for Dermal Repair. <i>Journal of Engineered Fibers and Fabrics</i> , 2015, 10, 155892501501000.	0.5	12
66	Evaluation of thrombogenic potential of electrospun bioresorbable vascular graft materials: Acute monocyte tissue factor expression. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 1321-1328.	2.1	11
67	Developing a Mechanical and Chemical Model of Degeneration in Young Bovine Lumbar Intervertebral Disks and Reversing Loss in Mechanical Function. <i>Journal of Spinal Disorders and Techniques</i> , 2014, 27, E168-E175.	1.8	10
68	Mineralization and Characterization of Composite Lyophilized Gelatin Sponges Intended for Early Bone Regeneration. <i>Bioengineering</i> , 2014, 1, 62-84.	1.6	10
69	The fabrication of cryogel scaffolds incorporated with poloxamer 407 for potential use in the regeneration of the nucleus pulposus. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 36.	1.7	10
70	A study on the potential of doped electrospun polystyrene fibers in arsenic filtration. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 232-239.	3.3	9
71	Preliminary investigation of honey-doped electrospun scaffolds to delay wound closure. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 2620-2628.	1.6	9
72	Electrospun Polydioxanone, Elastin, and Collagen Vascular Scaffolds: Uniaxial Cyclic Distension. <i>Journal of Engineered Fibers and Fabrics</i> , 2009, 4, 155892500900400.	0.5	8

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73	In Vitro Comparison of Two Different Mechanical Circulatory Support Devices Installed in Series and in Parallel. <i>Artificial Organs</i> , 2014, 38, n/a-n/a.	1.0	8
74	Mineralization and antibacterial potential of bioactive cryogel scaffolds <i>in vitro</i> . <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2019, 68, 901-914.	1.8	7
75	The incorporation and controlled release of platelet-rich plasma-derived biomolecules from polymeric tissue engineering scaffolds. <i>Polymer International</i> , 2012, 61, 1703-1709.	1.6	6
76	Using Electrospun Scaffolds to Promote Macrophage Phenotypic Modulation and Support Wound Healing. <i>Electrospinning</i> , 2017, 1, .	1.6	6
77	Storage stability of biodegradable polyethylene glycol microspheres. <i>Materials Research Express</i> , 2017, 4, 105403.	0.8	6
78	Electrospun Fibrinogen-Polydioxanone Composite Matrix: Potential for in Situ Urologic Tissue Engineering. <i>Journal of Engineered Fibers and Fabrics</i> , 2008, 3, 155892500800300.	0.5	5
79	Manipulating Air-Gap Electrospinning to Create Aligned Polymer Nanofiber-Wrapped Glass Microfibers for Cortical Bone Tissue Engineering. <i>Bioengineering</i> , 2020, 7, 165.	1.6	5
80	A preliminary study on amelogenin-loaded electrospun scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , 2014, 29, 32-49.	0.8	4
81	An <i>in vitro</i> analysis of injectable methacrylated alginate cryogels incorporated with PRP targeting minimally invasive treatment of bone nonunion. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 055001.	0.6	3
82	Electrospinning and its influence on the structure of polymeric nanofibers. , 2009, , 460-483.		2
83	Synthesis and Characterization of BaSO ₄ –CaCO ₃ –Alginate Nanocomposite Materials as Contrast Agents for Fine Vascular Imaging. <i>ACS Materials Au</i> , 2022, 2, 260-268.	2.6	2
84	Tri-layered Electrospinning to Mimic Native Arterial Architecture using Polycaprolactone, Elastin, and Collagen: A Preliminary Study. <i>Journal of Visualized Experiments</i> , 2011, , .	0.2	1
85	Scaffolds for cleft lip and cleft palate reconstruction. , 2019, , 421-435.		1
86	169: On the Road to in Situ Tissue Regeneration: A Tissue Engineered Nanofiber Fibrinogen-Polydioxanone Composite Matrix. <i>Journal of Urology</i> , 2007, 177, 57-57.	0.2	1
87	Multi Layered Polycaprolactone-Elastin-Collagen Small Diameter Conduits for Vascular Tissue Engineering. , 2008, , .		1
88	Inscribing the Blank Slate: The Growing Role of Modified Alginates in Tissue Engineering. <i>Advances in Tissue Engineering & Regenerative Medicine Open Access</i> , 2016, 1, .	0.1	1
89	Scaffolds for Use in Craniofacial Bone. <i>Methods in Molecular Biology</i> , 2022, 2403, 223-234.	0.4	1
90	Introduction to Entrepreneurial-minded Learning for Faculty of Foundational STEM Courses Using the KEEN Framework. , 0, , .		1

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91	A Three Layered Electrospun Matrix to Mimic Native Arterial Architecture Using Polycaprolactone, Elastin, and Collagen: A Preliminary Study. , 2010, , .		0
92	Injectable microgels development for sustained GALNS enzyme replacement therapy for Morquio syndrome type A. Molecular Genetics and Metabolism, 2017, 120, S70.	0.5	0
93	THE USE OF COMPUTATIONAL FLUID DYNAMICS IN THE OPTIMIZATION OF AIR-IMPEDANCE ELECTROSPUN STRUCTURES FOR TISSUE ENGINEERING. Journal of Mechanics in Medicine and Biology, 2018, 18, 1850009.	0.3	0
94	Quantified In Vitro Release of Interleukin-8 from Electrospun Bioresorbable Vascular Graft Materials. IFMBE Proceedings, 2009, , 359-362.	0.2	0
95	Optimizing a Three Layered Electrospun Matrix to Mimic Native Arterial Architecture: Cellular and Mechanical Analysis. , 2011, , .		0
96	Mechanical Strain of the Trilobed Transposition Flap in Artificial Skin Models: Pivotal Restraint Decreases With Decreasing Rotational Angles. Dermatologic Surgery, 2021, 47, 30-33.	0.4	0