Jessica A Jennings

List of Publications by Year in Descending Order

59 papers	834 citations	17 h-index	26 g-index
60 ext. papers	1,022 ext. citations	3.3 avg, IF	4.21 L-index

#	Paper	IF	Citations
59	Simulated large joint fluid model for evaluating intra-articular antibiotic delivery systems: initial evaluation using antibiotic-loaded calcium sulfate beads. *Journal of Bone and Joint Infection*, **2022**, 7, 117-125	2.7	
58	In vitro evaluation of loaded chitosan membranes for pain relief and infection prevention. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2021**, 109, 1735-1743	3.5	3
57	Simvastatin loaded chitosan guided bone regeneration membranes stimulate bone healing. *Journal of Periodontal Research*, **2021**, 56, 877-884	4.3	2
56	Long-Term Controlled Release of Simvastatin from Photoprinted Triple-Networked Hydrogels Composed of Modified Chitosan and PLA-PEG Micelles. *Macromolecular Bioscience*, **2021**, 21, e2100123	5.5	1
55	2-Heptylcyclopropane-1-Carboxylic Acid Disperses and Inhibits Bacterial Biofilms. *Frontiers in Microbiology*, **2021**, 12, 645180	5.7	2
54	Adjuvant antibiotic-loaded bone cement: Concerns with current use and research to make it work. *Journal of Orthopaedic Research*, **2021**, 39, 227-239	3.8	25
53	Staphylococcal infection prevention using antibiotic-loaded mannitol-chitosan paste in a rabbit model of implant-associated osteomyelitis. *Journal of Orthopaedic Research*, **2021**, 39, 2455-2464	3.8	0
52	Synthesis and Characterization of 2-Decenoic Acid Modified Chitosan for Infection Prevention and Tissue Engineering. *Marine Drugs*, **2021**, 19,	6	1
51	Preclinical Models of Polymicrobial Infection for Evaluation of Antimicrobial Combination Devices **2020**, 26-37		
50	Local Delivery of Anti-biofilm Therapeutics **2020**, 477-510		1
49	Characterization and Antibiofilm Activity of Mannitol-Chitosan-Blended Paste for Local Antibiotic Delivery System. *Marine Drugs*, **2019**, 17,	6	4
48	2018 international consensus meeting on musculoskeletal infection: Summary from the biofilm workgroup and consensus on biofilm related musculoskeletal infections. *Journal of Orthopaedic Research*, **2019**, 37, 1007-1017	3.8	67
47	Characterization of trimethyl chitosan/polyethylene glycol derivatized chitosan blend as an injectable and degradable antimicrobial delivery system. *International Journal of Biological Macromolecules*, **2019**, 133, 372-381	7.9	7
46	Stimuli-Responsive Drug Release from Smart Polymers. *Journal of Functional Biomaterials*, **2019**, 10,	4.8	81
45	Magnetic Stimulus Responsive DDS Based on Chitosan Microbeads Embedded with Magnetic Nanoparticles. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 1674-1677	0.9	
44	CORR Insights : What Are the Effects of Irreversible Electroporation on a Staphylococcus aureus Rabbit Model of Osteomyelitis?. *Clinical Orthopaedics and Related Research*, **2019**, 477, 2378-2379	2.2	
43	General Assembly, Prevention, Wound Management: Proceedings of International Consensus on Orthopedic Infections. *Journal of Arthroplasty*, **2019**, 34, S157-S168	4.4	16

42	Ciprofloxacin and Rifampin Dual Antibiotic-Loaded Biopolymer Chitosan Sponge for Bacterial Inhibition. *Military Medicine*, **2018**, 183, 433-444	1.3	17
41	Local control of polymicrobial infections via a dual antibiotic delivery system. *Journal of Orthopaedic Surgery and Research*, **2018**, 13, 53	2.8	7
40	Magnetic stimulus responsive vancomycin drug delivery system based on chitosan microbeads embedded with magnetic nanoparticles. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2018**, 106, 2169-2176	3.5	22
39	CORR Insights : Vitamin E Phosphate Coating Stimulates Bone Deposition in Implant-related Infections in a Rat Model. *Clinical Orthopaedics and Related Research*, **2018**, 476, 1339-1340	2.2	
38	Evaluation of Antibiotic-Releasing Triphasic Bone Void Filler In-Vitro. *Journal of Functional Biomaterials*, **2018**, 9,	4.8	1
37	Development and Evaluation of an Injectable Chitosan/Glycerophosphate Paste as a Local Antibiotic Delivery System for Trauma Care. *Journal of Functional Biomaterials*, **2018**, 9,	4.8	7
36	Phosphatidylcholine Coatings Deliver Local Antimicrobials and Reduce Infection in a Murine Model: A Preliminary Study. *Clinical Orthopaedics and Related Research*, **2017**, 475, 1847-1853	2.2	9
35	Blended Chitosan Paste for Infection Prevention: Preliminary and Preclinical Evaluations. *Clinical Orthopaedics and Related Research*, **2017**, 475, 1857-1870	2.2	8
34	Magnetic stimuli-responsive chitosan-based drug delivery biocomposite for multiple triggered release. *International Journal of Biological Macromolecules*, **2017**, 104, 1407-1414	7.9	28
33	Characteristics and clinical assessment of antibiotic delivery by chitosan sponge in the high-risk diabetic foot: a case series. *Journal of Wound Care*, **2017**, 26, S32-S38	2.2	13
32	Evaluation of a chitosan-polyethylene glycol paste as a local antibiotic delivery device. *World Journal of Orthopedics*, **2017**, 8, 130-141	2.2	12
31	Chitosan for the delivery of antibiotics **2017**, 147-173		9
30	Controlling chitosan degradation properties in vitro and in vivo **2017**, 159-182		9
29	Lyophilized chitosan sponges **2017**, 239-253		6
28	Characterization of chitosan matters **2017**, 81-114		4
27	Polymicrobial Biofilm Inhibition Effects of Acetate-Buffered Chitosan Sponge Delivery Device. *Macromolecular Bioscience*, **2016**, 16, 591-8	5.5	14
26	Preliminary evaluation of local drug delivery of amphotericin B and in vivo degradation of chitosan and polyethylene glycol blended sponges. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 78-87	3.5	15
25	Antibiotic-loaded phosphatidylcholine inhibits staphylococcal bone infection. *World Journal of Orthopedics*, **2016**, 7, 467-74	2.2	18

24	Novel Antibiotic-loaded Point-of-care Implant Coating Inhibits Biofilm. *Clinical Orthopaedics and Related Research*, **2015**, 473, 2270-82	2.2	40
23	CORR Insights : Local gentamicin delivery from resorbable viscous hydrogels is therapeutically effective. *Clinical Orthopaedics and Related Research*, **2015**, 473, 348-50	2.2	1
22	Characterization of local delivery with amphotericin B and vancomycin from modified chitosan sponges and functional biofilm prevention evaluation. *Journal of Orthopaedic Research*, **2015**, 33, 439-47	3.8	24
21	Chitosan coatings to control release and target tissues for therapeutic delivery. *Therapeutic Delivery*, **2015**, 6, 855-71	3.8	20
20	CORR Insights( ): D-amino acid inhibits biofilm but not new bone formation in an ovine model. *Clinical Orthopaedics and Related Research*, **2015**, 473, 3962-4	2.2	1
19	Bacterial inhibition by chitosan coatings loaded with silver-decorated calcium phosphate microspheres. *Thin Solid Films*, **2015**, 596, 83-86	2.2	14
18	Evaluation of Amniotic Multipotential Tissue Matrix to Augment Healing of Demineralized Bone Matrix in an Animal Calvarial Model. *Journal of Craniofacial Surgery*, **2015**, 26, 1408-12	1.2	5
17	Effects of sodium acetate buffer on chitosan sponge properties and in vivo degradation in a rat intramuscular model. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 387-96	3.5	4
16	Elution of amikacin and vancomycin from a calcium sulfate/chitosan bone scaffold. *Biomaterials and Biomechanics in Bioengineering*, **2015**, 2, 159-172		
15	Effects of VEGF-loaded chitosan coatings. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 752-9	5.4	13
14	Chitosan coating to enhance the therapeutic efficacy of calcium sulfate-based antibiotic therapy in the treatment of chronic osteomyelitis. *Journal of Biomaterials Applications*, **2014**, 29, 514-23	2.9	33
13	Electric stimulus response of chitosan microbeads embedded with magnetic nanoparticles for controlled drug delivery **2014**,		2
12	Osteocompatibility of biofilm inhibitors. *The Open Orthopaedics Journal*, **2014**, 8, 442-9	0.3	6
11	Chitosan sponges for local synergistic infection therapy: a pilot study. *Clinical Orthopaedics and Related Research*, **2013**, 471, 3158-64	2.2	34
10	Physical properties and in vitro evaluation of collagen-chitosan-calcium phosphate microparticle-based scaffolds for bone tissue regeneration. *Journal of Biomaterials Applications*, **2013**, 28, 566-79	2.9	29
9	Preliminary investigation of crosslinked chitosan sponges for tailorable drug delivery and infection control. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 110-23	3.5	20
8	Cis-2-decenoic acid inhibits S. aureus growth and biofilm in vitro: a pilot study. *Clinical Orthopaedics and Related Research*, **2012**, 470, 2663-70	2.2	64
7	Preparation and functional assessment of composite chitosan-nano-hydroxyapatite scaffolds for bone regeneration. *Journal of Functional Biomaterials*, **2012**, 3, 114-30	4.8	19

6	Osteoinductivity Assessment of BMP-2 Loaded Composite Chitosan-Nano-Hydroxyapatite Scaffolds in a Rat Muscle Pouch. *Materials*, **2011**, 4, 1360-1374	3.5	15
5	Use of Chitosan as a Bioactive Implant Coating for Bone-Implant Applications. *Advances in Polymer Science*, **2011**, 129-165	1.3	24
4	Upregulation of chemokine (C-C motif) ligand 20 in adult epidermal keratinocytes in direct current electric fields. *Archives of Dermatological Research*, **2010**, 302, 211-20	3.3	15
3	Effect of growth factors in combination with injectable silicone resin particles on the biological activity of dermal fibroblasts: a preliminary in vitro study. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 92, 255-60	3.5	5
2	The characterization and optimization of injectable silicone resin particles in conjunction with dermal fibroblasts and growth factors: an in vitro study. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 93, 227-35	3.5	2
1	Transcriptional response of dermal fibroblasts in direct current electric fields. *Bioelectromagnetics*, **2008**, 29, 394-405	1.6	35