

Jessica A Jennings

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Stimuli-Responsive Drug Release from Smart Polymers. <i>Journal of Functional Biomaterials</i> , 2019 , 10,	4.8	81
58	2018 international consensus meeting on musculoskeletal infection: Summary from the biofilm workgroup and consensus on biofilm related musculoskeletal infections. <i>Journal of Orthopaedic Research</i> , 2019 , 37, 1007-1017	3.8	67
57	Cis-2-decenoic acid inhibits <i>S. aureus</i> growth and biofilm in vitro: a pilot study. <i>Clinical Orthopaedics and Related Research</i> , 2012 , 470, 2663-70	2.2	64
56	Novel Antibiotic-loaded Point-of-care Implant Coating Inhibits Biofilm. <i>Clinical Orthopaedics and Related Research</i> , 2015 , 473, 2270-82	2.2	40
55	Transcriptional response of dermal fibroblasts in direct current electric fields. <i>Bioelectromagnetics</i> , 2008 , 29, 394-405	1.6	35
54	Chitosan sponges for local synergistic infection therapy: a pilot study. <i>Clinical Orthopaedics and Related Research</i> , 2013 , 471, 3158-64	2.2	34
53	Chitosan coating to enhance the therapeutic efficacy of calcium sulfate-based antibiotic therapy in the treatment of chronic osteomyelitis. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 514-23	2.9	33
52	Physical properties and in vitro evaluation of collagen-chitosan-calcium phosphate microparticle-based scaffolds for bone tissue regeneration. <i>Journal of Biomaterials Applications</i> , 2013 , 28, 566-79	2.9	29
51	Magnetic stimuli-responsive chitosan-based drug delivery biocomposite for multiple triggered release. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1407-1414	7.9	28
50	Adjuvant antibiotic-loaded bone cement: Concerns with current use and research to make it work. <i>Journal of Orthopaedic Research</i> , 2021 , 39, 227-239	3.8	25
49	Characterization of local delivery with amphotericin B and vancomycin from modified chitosan sponges and functional biofilm prevention evaluation. <i>Journal of Orthopaedic Research</i> , 2015 , 33, 439-473 ⁸	3.8	24
48	Use of Chitosan as a Bioactive Implant Coating for Bone-Implant Applications. <i>Advances in Polymer Science</i> , 2011 , 129-165	1.3	24
47	Magnetic stimulus responsive vancomycin drug delivery system based on chitosan microbeads embedded with magnetic nanoparticles. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 2169-2176	3.5	22
46	Chitosan coatings to control release and target tissues for therapeutic delivery. <i>Therapeutic Delivery</i> , 2015 , 6, 855-71	3.8	20
45	Preliminary investigation of crosslinked chitosan sponges for tailorable drug delivery and infection control. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 110-23	3.5	20
44	Preparation and functional assessment of composite chitosan-nano-hydroxyapatite scaffolds for bone regeneration. <i>Journal of Functional Biomaterials</i> , 2012 , 3, 114-30	4.8	19
43	Antibiotic-loaded phosphatidylcholine inhibits staphylococcal bone infection. <i>World Journal of Orthopedics</i> , 2016 , 7, 467-74	2.2	18

42	Ciprofloxacin and Rifampin Dual Antibiotic-Loaded Biopolymer Chitosan Sponge for Bacterial Inhibition. <i>Military Medicine</i> , 2018 , 183, 433-444	1.3	17
41	General Assembly, Prevention, Wound Management: Proceedings of International Consensus on Orthopedic Infections. <i>Journal of Arthroplasty</i> , 2019 , 34, S157-S168	4.4	16
40	Preliminary evaluation of local drug delivery of amphotericin B and in vivo degradation of chitosan and polyethylene glycol blended sponges. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 78-87	3.5	15
39	Osteoinductivity Assessment of BMP-2 Loaded Composite Chitosan-Nano-Hydroxyapatite Scaffolds in a Rat Muscle Pouch. <i>Materials</i> , 2011 , 4, 1360-1374	3.5	15
38	Upregulation of chemokine (C-C motif) ligand 20 in adult epidermal keratinocytes in direct current electric fields. <i>Archives of Dermatological Research</i> , 2010 , 302, 211-20	3.3	15
37	Polymicrobial Biofilm Inhibition Effects of Acetate-Buffered Chitosan Sponge Delivery Device. <i>Macromolecular Bioscience</i> , 2016 , 16, 591-8	5.5	14
36	Bacterial inhibition by chitosan coatings loaded with silver-decorated calcium phosphate microspheres. <i>Thin Solid Films</i> , 2015 , 596, 83-86	2.2	14
35	Characteristics and clinical assessment of antibiotic delivery by chitosan sponge in the high-risk diabetic foot: a case series. <i>Journal of Wound Care</i> , 2017 , 26, S32-S38	2.2	13
34	Effects of VEGF-loaded chitosan coatings. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 752-9	5.4	13
33	Evaluation of a chitosan-polyethylene glycol paste as a local antibiotic delivery device. <i>World Journal of Orthopedics</i> , 2017 , 8, 130-141	2.2	12
32	Phosphatidylcholine Coatings Deliver Local Antimicrobials and Reduce Infection in a Murine Model: A Preliminary Study. <i>Clinical Orthopaedics and Related Research</i> , 2017 , 475, 1847-1853	2.2	9
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	Blended Chitosan Paste for Infection Prevention: Preliminary and Preclinical Evaluations. <i>Clinical Orthopaedics and Related Research</i> , 2017 , 475, 1857-1870	2.2	8
28	Characterization of trimethyl chitosan/polyethylene glycol derivatized chitosan blend as an injectable and degradable antimicrobial delivery system. <i>International Journal of Biological Macromolecules</i> , 2019 , 133, 372-381	7.9	7
27	Local control of polymicrobial infections via a dual antibiotic delivery system. <i>Journal of Orthopaedic Surgery and Research</i> , 2018 , 13, 53	2.8	7
26	Development and Evaluation of an Injectable Chitosan/Glycerophosphate Paste as a Local Antibiotic Delivery System for Trauma Care. <i>Journal of Functional Biomaterials</i> , 2018 , 9,	4.8	7
25	Lyophilized chitosan sponges 2017 , 239-253		6

24	Osteocompatibility of biofilm inhibitors. <i>The Open Orthopaedics Journal</i> , 2014 , 8, 442-9	0.3	6
23	Evaluation of Amniotic Multipotential Tissue Matrix to Augment Healing of Demineralized Bone Matrix in an Animal Calvarial Model. <i>Journal of Craniofacial Surgery</i> , 2015 , 26, 1408-12	1.2	5
22	Effect of growth factors in combination with injectable silicone resin particles on the biological activity of dermal fibroblasts: a preliminary in vitro study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 92, 255-60	3.5	5
21	Characterization and Antibiofilm Activity of Mannitol-Chitosan-Blended Paste for Local Antibiotic Delivery System. <i>Marine Drugs</i> , 2019 , 17,	6	4
20	Characterization of chitosan matters 2017 , 81-114		4
19	Effects of sodium acetate buffer on chitosan sponge properties and in vivo degradation in a rat intramuscular model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 387-96	3.5	4
18	In vitro evaluation of loaded chitosan membranes for pain relief and infection prevention. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 1735-1743	3.5	3
17	Electric stimulus response of chitosan microbeads embedded with magnetic nanoparticles for controlled drug delivery 2014 ,		2
16	The characterization and optimization of injectable silicone resin particles in conjunction with dermal fibroblasts and growth factors: an in vitro study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 93, 227-35	3.5	2
15	Simvastatin loaded chitosan guided bone regeneration membranes stimulate bone healing. <i>Journal of Periodontal Research</i> , 2021 , 56, 877-884	4.3	2
14	2-Heptylcyclopropane-1-Carboxylic Acid Disperses and Inhibits Bacterial Biofilms. <i>Frontiers in Microbiology</i> , 2021 , 12, 645180	5.7	2
13	CORR Insights(□) : Local gentamicin delivery from resorbable viscous hydrogels is therapeutically effective. <i>Clinical Orthopaedics and Related Research</i> , 2015 , 473, 348-50	2.2	1
12	CORR Insights(□) : D-amino acid inhibits biofilm but not new bone formation in an ovine model. <i>Clinical Orthopaedics and Related Research</i> , 2015 , 473, 3962-4	2.2	1
11	Local Delivery of Anti-biofilm Therapeutics 2020 , 477-510		1
10	Long-Term Controlled Release of Simvastatin from Photoprinted Triple-Networked Hydrogels Composed of Modified Chitosan and PLA-PEG Micelles. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100123	5.5	1
9	Evaluation of Antibiotic-Releasing Triphasic Bone Void Filler In-Vitro. <i>Journal of Functional Biomaterials</i> , 2018 , 9,	4.8	1
8	Synthesis and Characterization of 2-Decenoic Acid Modified Chitosan for Infection Prevention and Tissue Engineering. <i>Marine Drugs</i> , 2021 , 19,	6	1
7	Staphylococcal infection prevention using antibiotic-loaded mannitol-chitosan paste in a rabbit model of implant-associated osteomyelitis. <i>Journal of Orthopaedic Research</i> , 2021 , 39, 2455-2464	3.8	0

- 6 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
- 5 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
- 4 Preclinical Models of Polymicrobial Infection for Evaluation of Antimicrobial Combination Devices **2020**, 26-37
- 3 Elution of amikacin and vancomycin from a calcium sulfate/chitosan bone scaffold. *Biomaterials and Biomechanics in Bioengineering*, **2015**, 2, 159-172
- 2 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
- 1 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