

# Jessica A Jennings

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,235  
citations

394286

19  
h-index

395590

33  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stimuli-Responsive Drug Release from Smart Polymers. <i>Journal of Functional Biomaterials</i> , 2019, 10, 34.	1.8	164
2	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.	1.2	113
3	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, 2663-2670.	0.7	79
4	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.	1.2	63
5	Novel Antibiotic-loaded Point-of-care Implant Coating Inhibits Biofilm. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 2270-2282.	0.7	54
6	Transcriptional response of dermal fibroblasts in direct current electric fields. <i>Bioelectromagnetics</i> , 2008, 29, 394-405.	0.9	47
7	Magnetic stimuli-responsive chitosan-based drug delivery biocomposite for multiple triggered release. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1407-1414.	3.6	44
8	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, 514-523.	1.2	42
9	Chitosan Sponges for Local Synergistic Infection Therapy: A Pilot Study. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 3158-3164.	0.7	39
10	Physical properties and <i>in vitro</i> evaluation of collagen-chitosan-calcium phosphate microparticle-based scaffolds for bone tissue regeneration. <i>Journal of Biomaterials Applications</i> , 2013, 28, 566-579.	1.2	34
11	Use of Chitosan as a Bioactive Implant Coating for Bone-Implant Applications. <i>Advances in Polymer Science</i> , 2011, , 129-165.	0.4	31
12	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.	1.6	31
13	Chitosan coatings to control release and target tissues for therapeutic delivery. <i>Therapeutic Delivery</i> , 2015, 6, 855-871.	1.2	27
14	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, 439-447.	1.2	26
15	Antibiotic-loaded phosphatidylcholine inhibits staphylococcal bone infection. <i>World Journal of Orthopedics</i> , 2016, 7, 467.	0.8	26
16	Preparation and Functional Assessment of Composite Chitosan-Nano-Hydroxyapatite Scaffolds for Bone Regeneration. <i>Journal of Functional Biomaterials</i> , 2012, 3, 114-130.	1.8	25
17	Ciprofloxacin and Rifampin Dual Antibiotic-Loaded Biopolymer Chitosan Sponge for Bacterial Inhibition. <i>Military Medicine</i> , 2018, 183, 433-444.	0.4	24
18	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, 101B, 110-123.	1.6	22

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19	General Assembly, Prevention, Wound Management: Proceedings of International Consensus on Orthopedic Infections. <i>Journal of Arthroplasty</i> , 2019, 34, S157-S168.	1.5	21
20	Osteoinductivity Assessment of BMP-2 Loaded Composite Chitosan-Nano-Hydroxyapatite Scaffolds in a Rat Muscle Pouch. <i>Materials</i> , 2011, 4, 1360-1374.	1.3	19
21	Upregulation of chemokine (Câ€“C motif) ligand 20 in adult epidermal keratinocytes in direct current electric fields. <i>Archives of Dermatological Research</i> , 2010, 302, 211-220.	1.1	18
22	Bacterial inhibition by chitosan coatings loaded with silver-decorated calcium phosphate microspheres. <i>Thin Solid Films</i> , 2015, 596, 83-86.	0.8	18
23	Controlling chitosan degradation properties inÂvitro and inÂvivo. , 2017, , 159-182.		17
24	Effects of VEGFâ€“loaded chitosan coatings. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 752-759.	2.1	16
25	Polymicrobial Biofilm Inhibition Effects of Acetateâ€“Buffered Chitosan Sponge Delivery Device. <i>Macromolecular Bioscience</i> , 2016, 16, 591-598.	2.1	16
26	Preliminary evaluation of local drug delivery of amphotericin B and <i>in vivo</i> degradation of chitosan and polyethylene glycol blended sponges. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 78-87.	1.6	15
27	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.	0.5	15
28	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.	0.7	14
29	Local control of polymicrobial infections via a dual antibiotic delivery system. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 53.	0.9	14
30	Evaluation of a chitosan-polyethylene glycol paste as a local antibiotic delivery device. <i>World Journal of Orthopedics</i> , 2017, 8, 130.	0.8	13
31	Characterization and Antibiofilm Activity of Mannitolâ€“Chitosan-Blended Paste for Local Antibiotic Delivery System. <i>Marine Drugs</i> , 2019, 17, 517.	2.2	12
32	Development and Evaluation of an Injectable Chitosan/Î²-Glycerophosphate Paste as a Local Antibiotic Delivery System for Trauma Care. <i>Journal of Functional Biomaterials</i> , 2018, 9, 56.	1.8	11
33	Longâ€“Term Controlled Release of Simvastatin from Photoprinted Tripleâ€“Networked Hydrogels Composed of Modified Chitosan and PLAâ€“PEG Micelles. <i>Macromolecular Bioscience</i> , 2021, 21, e2100123.	2.1	11
34	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.	3.6	10
35	Simvastatin loaded chitosan guided bone regeneration membranes stimulate bone healing. <i>Journal of Periodontal Research</i> , 2021, 56, 877-884.	1.4	10
36	Blended Chitosan Paste for Infection Prevention: Preliminary and Preclinical Evaluations. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 1857-1870.	0.7	9

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37	Chitosan for the delivery of antibiotics. , 2017, , 147-173.		9
38	Osteocompatibility of Biofilm Inhibitors. The Open Orthopaedics Journal, 2014, 8, 442-449.	0.1	9
39	Lyophilized chitosan sponges. , 2017, , 239-253.		7
40	Characterization of chitosan matters. , 2017, , 81-114.		7
41	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.	1.6	7
42	2-Heptylcyclopropane-1-Carboxylic Acid Disperses and Inhibits Bacterial Biofilms. Frontiers in Microbiology, 2021, 12, 645180.	1.5	7
43	Effect of growth factors in combination with injectable silicone resin particles on the biological activity of dermal fibroblasts: A preliminary<i>in vitro</i> study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 92B, 255-260.	1.6	6
44	Evaluation of Amniotic Multipotential Tissue Matrix to Augment Healing of Demineralized Bone Matrix in an Animal Calvarial Model. Journal of Craniofacial Surgery, 2015, 26, 1408-1412.	0.3	6
45	Effects of sodium acetate buffer on chitosan sponge properties and <i>in vivo</i> degradation in a rat intramuscular model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 387-396.	1.6	5
46	Synthesis and Characterization of 2-Decenoic Acid Modified Chitosan for Infection Prevention and Tissue Engineering. Marine Drugs, 2021, 19, 556.	2.2	5
47	Electric stimulus response of chitosan microbeads embedded with magnetic nanoparticles for controlled drug delivery. , 2014, , .		3
48	Evaluation of Antibiotic-Releasing Triphasic Bone Void Filler In-Vitro. Journal of Functional Biomaterials, 2018, 9, 55.	1.8	3
49	Staphylococcal infection prevention using antibioticâ€œloaded mannitolâ€œ chitosan paste in aâ€œrabbit model of implantâ€œassociated osteomyelitis. Journal of Orthopaedic Research, 2021, 39, 2455-2464.	1.2	3
50	The characterization and optimization of injectable silicone resin particles in conjunction with dermal fibroblasts and growth factors: An<i>in vitro</i> study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 227-235.	1.6	2
51	Local Delivery of Anti-biofilm Therapeutics. , 2020, , 477-510.		2
52	CORR InsightsÂ®: Local Gentamicin Delivery From Resorbable Viscous Hydrogels Is Therapeutically Effective. Clinical Orthopaedics and Related Research, 2015, 473, 348-350.	0.7	1
53	CORR InsightsÂ®: d-amino Acid Inhibits Biofilm but not New Bone Formation in an Ovine Model. Clinical Orthopaedics and Related Research, 2015, 473, 3962-3964.	0.7	1
54	Elution of amikacin and vancomycin from a calcium sulfate/chitosan bone scaffold. Biomaterials and Biomechanics in Bioengineering, 2015, 2, 159-172.	0.4	1

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55	Simulated large joint fluid model for evaluating intra-articular antibiotic delivery systems: initial evaluation using antibiotic-loaded calcium sulfate beads. <i>Journal of Bone and Joint Infection</i> , 2022, 7, 117-125.	0.6	1
56	Chitosan microbeads with MNP on printed electrodes for electric stimulus responsive drug delivery. , 2017, , .		0
57	CORR Insights®: Vitamin E Phosphate Coating Stimulates Bone Deposition in Implant-related Infections in a Rat Model. <i>Clinical Orthopaedics and Related Research</i> , 2018, 476, 1339-1340.	0.7	0
58	Magnetic Stimulus Responsive DDS Based on Chitosan Microbeads Embedded with Magnetic Nanoparticles. , 2019, 2019, 1674-1677.		0
59	CORR Insights®: What Are the Effects of Irreversible Electroporation on a Staphylococcus aureus Rabbit Model of Osteomyelitis?. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 2378-2379.	0.7	0
60	Preclinical Models of Polymicrobial Infection for Evaluation of Antimicrobial Combination Devices. , 2020, , 26-37.		0