Karen Bentley

List of Publications by Year
in descending order

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26 papers	1,862 citations	430874 18 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	2794 citing authors

#	Article	IF	Citations
1	Evolving concepts in bone infection: redefining â€œbiofilmâ€, â€œacute vs. chronic osteomyelitisâ€, â€œthe immune proteomeâ€•and â€œlocal antibiotic therapyâ€• Bone Research, 2019, 7, 20.	11.4	300
2	Evidence of Staphylococcus Aureus Deformation, Proliferation, and Migration in Canaliculi of Live Cortical Bone in Murine Models of Osteomyelitis. Journal of Bone and Mineral Research, 2017, 32, 985-990.	2.8	193
3	The complex genetics of hypoplastic left heart syndrome. Nature Genetics, 2017, 49, 1152-1159.	21.4	177
4	Energy Metabolism in Mesenchymal Stem Cells During Osteogenic Differentiation. Stem Cells and Development, 2016, 25, 114-122.	2.1	169
5	Skeletal infections: microbial pathogenesis, immunity and clinical management. Nature Reviews Microbiology, 2022, 20, 385-400.	28.6	165
6	Quantifying the natural history of biofilm formation in vivo during the establishment of chronic implantâ€•associated Staphylococcus aureus osteomyelitis in mice to identify critical pathogen and host factors. Journal of Orthopaedic Research, 2015, 33, 1311-1319.	2.3	147
7	Loss of LMOD1 impairs smooth muscle cytocontractility and causes megacystis microcolon intestinal hypoperistalsis syndrome in humans and mice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2739-E2747.	7.1	97
8	Myocardin-related transcription factors control the motility of epicardium-derived cells and the maturation of coronary vessels. Development (Cambridge), 2015, 142, 21-30.	2.5	77
9	Chronic Osteomyelitis with Staphylococcus aureus Deformation in Submicron Canaliculi of Osteocytes. JBJS Case Connector, 2018, 8, e8-e8.	0.3	76
10	Passive immunization with anti-glucosaminidase monoclonal antibodies protects mice from implant-associated osteomyelitis by mediating opsonophagocytosis ofStaphylococcus aureusmegaclusters. Journal of Orthopaedic Research, 2014, 32, 1389-1396.	2.3	68
11	Cyclophilin D Knock-Out Mice Show Enhanced Resistance to Osteoporosis and to Metabolic Changes Observed in Aging Bone. PLoS ONE, 2016, 11, e0155709.	2.5	63
12	Surface topography of silicon nitride affects antimicrobial and osseointegrative properties of tibial implants in a murine model. Journal of Biomedical Materials Research - Part A, 2017, 105, 3413-3421.	4.0	56
13	Short to Midterm Follow-Up of the Tritanium Primary Acetabular Component: A Cause for Concern. Journal of Arthroplasty, 2017, 32, 463-469.	3.1	44
14	Patients with advanced chronic kidney disease and vascular calcification have a large hydrodynamic radius of secondary calciprotein particles. Nephrology Dialysis Transplantation, 2019, 34, 992-1000.	0.7	37
15	Identification of Penicillin Binding Protein 4 (PBP4) as a critical factor for Staphylococcus aureus bone invasion during osteomyelitis in mice. PLoS Pathogens, 2020, 16, e1008988.	4.7	32
16	An in vitro platform for elucidating the molecular genetics of S. aureus invasion of the osteocyte lacuno-canalicular network during chronic osteomyelitis. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 21, 102039.	3.3	28
17	IsdB antibodyâ€“mediated sepsis following S. aureus surgical site infection. JCI Insight, 2020, 5, .	5.0	23
18	Erythropoietin accelerates functional recovery after moderate sciatic nerve crush injury. Muscle and Nerve, 2017, 56, 143-151.	2.2	21

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19	Staphylococcus aureus Cell Wall Biosynthesis Modulates Bone Invasion and Osteomyelitis Pathogenesis. Frontiers in Microbiology, 2021, 12, 723498.	3.5	19
20	Biofilm Producing Staphylococcus epidermidis (RP62A Strain) Inhibits Osseous Integration Without Osteolysis and Histopathology in a Murine Septic Implant Model. Journal of Orthopaedic Research, 2020, 38, 852-860.	2.3	17
21	Humanized Mice Exhibit Exacerbated Abscess Formation and Osteolysis During the Establishment of Implant-Associated Staphylococcus aureus Osteomyelitis. Frontiers in Immunology, 2021, 12, 651515.	4.8	14
22	Distinct vasculotropic versus osteotropic features ofS. agalactiaeversusS. aureusimplantâ€associated bone infection in mice. Journal of Orthopaedic Research, 2021, 39, 389-401.	2.3	12
23	Development of Bisphosphonate-Conjugated Antibiotics to Overcome Pharmacodynamic Limitations of Local Therapy: Initial Results with Carbamate Linked Sitafloxacin and Tedizolid. Antibiotics, 2021, 10, 732.	3.7	10
24	Efficacy of Bisphosphonate-Conjugated Sitafloxacin in a Murine Model of S. aureus Osteomyelitis: Evidence of â€œTarget & Releaseâ€•Kinetics and Killing of Bacteria Within Canaliculi. Frontiers in Cellular and Infection Microbiology, 0, 12, .	3.9	7
25	Intrasinusoidal Spread of Hepatic Epithelioid Hemangioendothelioma. American Journal of Surgical Pathology, 2019, 43, 573-579.	3.7	5
26	Emerging electron microscopy and 3D methodologies to interrogate Staphylococcus aureus osteomyelitis in murine models. Journal of Orthopaedic Research, 2021, 39, 376-388.	2.3	5