Stephen L Kates

List of Publications by Year
in descending order

107 papers	6,865 citations	87888 38 h-index	62596 80 g-index
110 all docs	110 docs citations	110 times ranked	8198 citing authors

#	Article	IF	Citations
1	Total Knee Arthroplasty Volume, Utilization, and Outcomes Among Medicare Beneficiaries, 1991-2010. JAMA - Journal of the American Medical Association, 2012, 308, 1227.	7.4	772
2	3D printing of composite calcium phosphate and collagen scaffolds for bone regeneration. Biomaterials, 2014, 35, 4026-4034.	11.4	710
3	The 1-Year Mortality of Patients Treated in a Hip Fracture Program for Elders. Geriatric Orthopaedic Surgery and Rehabilitation, 2010, 1, 6-14.	1.4	337
4	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
5	Geriatric Coâ€Management of Proximal Femur Fractures: Total Quality Management and Protocolâ€Driven Care Result in Better Outcomes for a Frail Patient Population. Journal of the American Geriatrics Society, 2008, 56, 1349-1356.	2.6	285
6	3D Printing of Calcium Phosphate Ceramics for Bone Tissue Engineering and Drug Delivery. Annals of Biomedical Engineering, 2017, 45, 23-44.	2.5	271
7	Biomaterials approaches to treating implant-associated osteomyelitis. Biomaterials, 2016, 81, 58-71.	11.4	248
8	Spinal Anesthesia or General Anesthesia for Hip Surgery in Older Adults. New England Journal of Medicine, 2021, 385, 2025-2035.	27.0	211
9	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
10	2018 International Consensus Meeting on Musculoskeletal Infection: Research Priorities from the General Assembly Questions. Journal of Orthopaedic Research, 2019, 37, 997-1006.	2.3	189
11	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
12	General treatment principles for fracture-related infection: recommendations from an international expert group. Archives of Orthopaedic and Trauma Surgery, 2020, 140, 1013-1027.	2.4	141
13	Orthopaedic device-related infection: current and future interventions for improved prevention and treatment. EFORT Open Reviews, 2016, 1, 89-99.	4.1	131
14	A Guide to Improving the Care of Patients with Fragility Fractures, Edition 2. Geriatric Orthopaedic Surgery and Rehabilitation, 2015, 6, 58-120.	1.4	115
15	The Value of an Organized Fracture Program for the Elderly: Early Results. Journal of Orthopaedic Trauma, 2011, 25, 233-237.	1.4	108
16	Dementia and Hip Fractures. Geriatric Orthopaedic Surgery and Rehabilitation, 2010, 1, 52-62.	1.4	96
17	Mortality and Financial Burden of Periprosthetic Fractures of the Femur. Geriatric Orthopaedic Surgery and Rehabilitation, 2014, 5, 147-153.	1.4	91
18	Suppressive Effects of Insulin on Tumor Necrosis Factorâ€“Dependent Early Osteoarthritic Changes Associated With Obesity and Type 2 Diabetes Mellitus. Arthritis and Rheumatology, 2016, 68, 1392-1402.	5.6	91

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19	How do bisphosphonates affect fracture healing?. Injury, 2016, 47, S65-S68.	1.7	87
20	A Guide to Improving the Care of Patients With Fragility Fractures. Geriatric Orthopaedic Surgery and Rehabilitation, 2011, 2, 5-37.	1.4	84
21	Validation of GAITRite and PROMIS as highâ€throughput physical function outcome measures following ACL reconstruction. Journal of Orthopaedic Research, 2014, 32, 793-801.	2.3	83
22	Factors Independently Associated With Complications and Length of Stay after Hip Arthroplasty. Journal of Arthroplasty, 2012, 27, 1832-1837.	3.1	76
23	Frailty and Short-Term Outcomes in Patients With Hip Fracture. Geriatric Orthopaedic Surgery and Rehabilitation, 2015, 6, 209-214.	1.4	76
24	Hospital readmission after hip fracture. Archives of Orthopaedic and Trauma Surgery, 2015, 135, 329-337.	2.4	72
25	Prevention and Management of Postoperative Delirium in Elderly Patients Following Elective Spinal Surgery. Clinical Spine Surgery, 2017, 30, 112-119.	1.3	72
26	The Impact of Comorbidity on Perioperative Outcomes of Hip Fractures in a Geriatric Fracture Model. Geriatric Orthopaedic Surgery and Rehabilitation, 2012, 3, 129-134.	1.4	71
27	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
28	Enhanced Recovery After Primary Total Hip and Knee Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2021, 103, 1938-1947.	3.0	68
29	Adjuvant antibioticâ€loaded bone cement: Concerns with current use and research to make it work. Journal of Orthopaedic Research, 2021, 39, 227-239.	2.3	63
30	Comparison of an Organized Geriatric Fracture Program to United States Government Data. Geriatric Orthopaedic Surgery and Rehabilitation, 2010, 1, 15-21.	1.4	59
31	Antibiotic Resistance of Commensal Staphylococcus aureus and Coagulase-Negative Staphylococci in an International Cohort of Surgeons: A Prospective Point-Prevalence Study. PLoS ONE, 2016, 11, e0148437.	2.5	58
32	A novel murine model of established Staphylococcal bone infection in the presence of a fracture fixation plate to study therapies utilizing antibiotic-laden spacers after revision surgery. Bone, 2015, 72, 128-136.	2.9	53
33	Surface Damage on Dental Implants with Release of Loose Particles after Insertion into Bone. Clinical Implant Dentistry and Related Research, 2015, 17, 681-692.	3.7	52
34	A Diagnostic Serum Antibody Test for Patients With Staphylococcus aureus Osteomyelitis. Clinical Orthopaedics and Related Research, 2015, 473, 2735-2749.	1.5	47
35	Evidence Review Conducted for the Agency for Healthcare Research and Quality Safety Program for Improving Surgical Care and Recovery: Focus on Anesthesiology for Total Knee Arthroplasty. Anesthesia and Analgesia, 2019, 128, 441-453.	2.2	47
36	Musculoskeletal Infection in Orthopaedic Trauma. Journal of Bone and Joint Surgery - Series A, 2020, 102, e44.	3.0	46

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37	Anticoagulation Management in Individuals with Hip Fracture. Journal of the American Geriatrics Society, 2014, 62, 159-164.	2.6	44
38	Radiographic Review of Helical Blade Versus Lag Screw Fixation for Cephalomedullary Nailing of Low-Energy Peritrochanteric Femur Fractures: There is a Difference in Cutout. Journal of Orthopaedic Trauma, 2017, 31, 305-310.	1.4	44
39	Mitigation and Education. Journal of Arthroplasty, 2014, 29, 19-25.	3.1	39
40	A Humoral Immune Defect Distinguishes the Response to Staphylococcus aureus Infections in Mice with Obesity and Type 2 Diabetes from That in Mice with Type 1 Diabetes. Infection and Immunity, 2015, 83, 2264-2274.	2.2	38
41	Immunotherapy synergizes with debridement and antibiotic therapy in a murine 1â€stage exchange model of MRSA implantâ€associated osteomyelitis. Journal of Orthopaedic Research, 2018, 36, 1590-1598.	2.3	37
42	Hip fracture programs: are they effective?. Injury, 2016, 47, S25-S27.	1.7	36
43	Preoperative Risk Factor Screening Protocols in Total Joint Arthroplasty: A Systematic Review. Journal of Arthroplasty, 2020, 35, 3353-3363.	3.1	36
44	Barriers to Implementation of an Organized Geriatric Fracture Program. Geriatric Orthopaedic Surgery and Rehabilitation, 2012, 3, 8-16.	1.4	35
45	Evidence Review Conducted for the Agency for Healthcare Research and Quality Safety Program for Improving Surgical Care and Recovery: Focus on Anesthesiology for Total Hip Arthroplasty. Anesthesia and Analgesia, 2019, 128, 454-465.	2.2	35
46	Financial Implications of Hospital Readmission After Hip Fracture. Geriatric Orthopaedic Surgery and Rehabilitation, 2015, 6, 140-146.	1.4	33
47	Adaptive Upregulation of Clumping Factor A (ClfA) by Staphylococcus aureus in the Obese, Type 2 Diabetic Host Mediates Increased Virulence. Infection and Immunity, 2017, 85, .	2.2	33
48	Advances in the medical management of osteoporosis. Injury, 2007, 38, 17-23.	1.7	32
49	Epidemiological, Clinical and Microbiological Characteristics of Patients with Post-Traumatic Osteomyelitis of Limb Fractures in Southwest China: A Hospital-Based Study. Journal of Bone and Joint Infection, 2017, 2, 149-153.	1.5	32
50	Clinical practice in prevention of fracture-related infection: An international survey among 1197 orthopaedic trauma surgeons. Injury, 2019, 50, 1208-1215.	1.7	32
51	A High-Throughput Screening Approach To Repurpose FDA-Approved Drugs for Bactericidal Applications against Staphylococcus aureus Small-Colony Variants. MSphere, 2018, 3, .	2.9	31
52	Advances on the Masquelet technique using a cage and nail construct. Archives of Orthopaedic and Trauma Surgery, 2012, 132, 245-248.	2.4	30
53	Obesity/type 2 diabetes increases inflammation, periosteal reactive bone formation, and osteolysis during Staphylococcus aureus implantâ€associated bone infection. Journal of Orthopaedic Research, 2018, 36, 1614-1623.	2.3	30
54	Prevention and Clinical Management of Hip Fractures in Patients With Dementia. Geriatric Orthopaedic Surgery and Rehabilitation, 2010, 1, 63-72.	1.4	27

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55	Anti-Glucosaminidase IgG in Sera as a Biomarker of Host Immunity Against Staphylococcus aureus in Orthopaedic Surgery Patients. Journal of Bone and Joint Surgery - Series A, 2013, 95, e171.	3.0	27
56	Calcium Phosphate Spacers for the Local Delivery of Sitafloxacin and Rifampin to Treat Orthopedic Infections: Efficacy and Proof of Concept in a Mouse Model of Single-Stage Revision of Device-Associated Osteomyelitis. Pharmaceutics, 2019, 11, 94.	4.5	27
57	General Assembly, Diagnosis, Definitions: Proceedings of International Consensus on Orthopedic Infections. Journal of Arthroplasty, 2019, 34, S181-S185.	3.1	27
58	The AO trauma CPP bone infection registry: Epidemiology and outcomes of Staphylococcus aureus bone infection. Journal of Orthopaedic Research, 2021, 39, 136-146.	2.3	26
59	The epidemiology of sports-related injuries in older adults: a central European epidemiologic study. Aging Clinical and Experimental Research, 2012, 24, 448-54.	2.9	24
60	Hip fracture management, before and beyond surgery and medication: a synthesis of the evidence. Archives of Orthopaedic and Trauma Surgery, 2011, 131, 1519-1527.	2.4	23
61	IsdB antibodyâ€“mediated sepsis following S. aureus surgical site infection. JCI Insight, 2020, 5, .	5.0	23
62	Diagnosis and Treatment of Osteoporosis in High-Risk Patients Prior to Hip Fracture. Geriatric Orthopaedic Surgery and Rehabilitation, 2012, 3, 79-83.	1.4	22
63	Pay-for-performance in orthopedics: how we got here and where we are going. Current Reviews in Musculoskeletal Medicine, 2017, 10, 212-217.	3.5	22
64	Exacerbated Staphylococcus aureus Foot Infections in Obese/Diabetic Mice Are Associated with Impaired Germinal Center Reactions, Ig Class Switching, and Humoral Immunity. Journal of Immunology, 2018, 201, 560-572.	0.8	21
65	Lean Business Model and Implementation of a Geriatric Fracture Center. Clinics in Geriatric Medicine, 2014, 30, 191-205.	2.6	20
66	Increased numbers of CD23⁺CD21^{hi} Binâ€like B cells in human reactive and rheumatoid arthritis lymph nodes. European Journal of Immunology, 2016, 46, 1752-1757.	2.9	19
67	Evidence Review Conducted for the Agency for Healthcare Research and Quality Safety Program for Improving Surgical Care and Recovery. Anesthesia and Analgesia, 2019, 128, 1107-1117.	2.2	18
68	Staphylococcal orthopaedic device-related infections in older patients. Injury, 2016, 47, 1427-1434.	1.7	17
69	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
70	Lack of Humoral Immunity Against Glucosaminidase Is Associated with Postoperative Complications in Staphylococcus aureus Osteomyelitis. Journal of Bone and Joint Surgery - Series A, 2020, 102, 1842-1848.	3.0	17
71	Biomechanical Comparison of 2 Different Locking Plate Fixation Methods in Vancouver B1 Periprosthetic Femur Fractures. Geriatric Orthopaedic Surgery and Rehabilitation, 2011, 2, 51-55.	1.4	16
72	Accepting higher morbidity in exchange for sacrificing fewer animals in studies developing novel infection-control strategies. Biomaterials, 2020, 232, 119737.	11.4	16

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73	Open Reduction and Internal Fixation Versus Hemiarthroplasty in the Management of Proximal Humerus Fractures. Geriatric Orthopaedic Surgery and Rehabilitation, 2014, 5, 56-62.	1.4	13
74	Letter to the Editor: New Definition for Periprosthetic Joint Infection: From the Workgroup of the Musculoskeletal Infection Society. Clinical Orthopaedics and Related Research, 2016, 474, 2726-2727.	1.5	13
75	The Case for Comanagement and Care Pathways for Osteoporotic Patients with a Hip Fracture. Journal of Bone and Joint Surgery - Series A, 2018, 100, 1343-1350.	3.0	13
76	Outcome of the Dynamic Helical Hip Screw System for Intertrochanteric Hip Fractures in the Elderly Patients. Geriatric Orthopaedic Surgery and Rehabilitation, 2012, 3, 68-73.	1.4	11
77	Revision rates and cumulative financial burden in patients treated with hemiarthroplasty compared to cannulated screws after femoral neck fractures. Archives of Orthopaedic and Trauma Surgery, 2014, 134, 1667-1671.	2.4	11
78	Outside the Bone: What Is Happening Systemically to Influence Fracture Healing?. Journal of Orthopaedic Trauma, 2018, 32, S33-S36.	1.4	11
79	Development and challenges in setting up an international bone infection registry. Archives of Orthopaedic and Trauma Surgery, 2020, 140, 741-749.	2.4	11
80	Co-managed Care: The Gold Standard for Geriatric Fracture Care. Current Osteoporosis Reports, 2012, 10, 312-316.	3.6	10
81	Surgical Technical Evidence Review for Elective Total Joint Replacement Conducted for the AHRQ Safety Program for Improving Surgical Care and Recovery. Geriatric Orthopaedic Surgery and Rehabilitation, 2018, 9, 215145851875445.	1.4	10
82	Biomechanical Evaluation of Osteoporotic Proximal Periprosthetic Femur Fractures With Proximal Bicortical Fixation and Allograft Struts. Journal of Orthopaedic Trauma, 2018, 32, 508-514.	1.4	10
83	Surgical selection criteria compliance is associated with a lower risk of periprosthetic joint infection in total hip arthroplasty. Arthroplasty Today, 2019, 5, 528-531.	1.6	10
84	Does Adherence to Preoperative Surgical Selection Criteria Reduce the Rate of Prosthetic Joint Infection in Primary and Revision Total Knee Arthroplasties?. Arthroplasty Today, 2020, 6, 410-413.	1.6	10
85	POSSUM and P-POSSUM Scoring in Hip Fracture Mortalities. Geriatric Orthopaedic Surgery and Rehabilitation, 2020, 11, 215145932093167.	1.4	9
86	A Biomechanical Comparison of the Effect of Baseplate Design and Bone Marrow Fat Infiltration on Tibial Baseplate Pullout Strength. Journal of Arthroplasty, 2021, 36, 356-361.	3.1	9
87	Serum antibodies against Staphylococcus aureus can prognose treatment success in patients with bone infections. Journal of Orthopaedic Research, 2021, 39, 2169-2176.	2.3	9
88	Surgical Technical Evidence Review of Hip Fracture Surgery Conducted for the AHRQ Safety Program for Improving Surgical Care and Recovery. Geriatric Orthopaedic Surgery and Rehabilitation, 2018, 9, 215145931876921.	1.4	8
89	High- Versus Low-Energy Acetabular Fracture Outcomes in the Geriatric Population. Geriatric Orthopaedic Surgery and Rehabilitation, 2020, 11, 215145932093954.	1.4	8
90	Rationale and process for N95 respirator sanitation and reuse in the coronavirus disease 2019 (COVID-19) pandemic. Infection Control and Hospital Epidemiology, 2022, 43, 40-44.	1.8	8

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91	The Utility of Postoperative Radiographs 2 Years After Primary Total Knee Arthroplasty. Journal of Arthroplasty, 2017, 32, 106-109.	3.1	7
92	Commentary on Secondary Fracture Prevention: Consensus Clinical Recommendations From a Multistakeholder Coalition Originally Published in the Journal of Bone and Mineral Research. Journal of Orthopaedic Trauma, 2020, 34, 221-221.	1.4	7
93	A Novel Method of Ring Removal From the Aging Finger. Geriatric Orthopaedic Surgery and Rehabilitation, 2010, 1, 78-79.	1.4	6
94	Critical review of a scientific manuscript: a practical guide for reviewers. Journal of Neurosurgery, 2018, 128, 312-321.	1.6	6
95	Does Comanagement of Patients With Hip Fracture Influence 30-Day Outcomes. Geriatric Orthopaedic Surgery and Rehabilitation, 2020, 11, 215145932090199.	1.4	5
96	Vitamin C and inflammatory cytokine levels in elective total knee arthroplasty. Nutrition and Health, 2020, 26, 87-91.	1.5	4
97	Low albumin level is more strongly associated with adverse outcomes and Staphylococcus aureus infection than hemoglobin A1C or smoking tobacco. Journal of Orthopaedic Research, 2022, 40, 2670-2677.	2.3	4
98	Distinct expression trend of signature antigens of Staphylococcus aureus osteomyelitis correlated with clinical outcomes. Journal of Orthopaedic Research, 2021, 39, 265-273.	2.3	3
99	Enhanced Recovery After Surgery: An Orthopedic Perspective. Arthroplasty Today, 2021, 9, 98-100.	1.6	3
100	Significant Reduction in Short-Term Complications Following Unicompartmental Versus Total Knee Arthroplasty: A Propensity Score Matched Analysis. Journal of Arthroplasty, 2022, 37, 2014-2019.	3.1	3
101	Evidence of Neutralizing and Non-Neutralizing Anti-Glucosaminidase Antibodies in Patients With S. Aureus Osteomyelitis and Their Association With Clinical Outcome Following Surgery in a Clinical Pilot. Frontiers in Cellular and Infection Microbiology, 0, 12, .	3.9	2
102	A127: Validating Popliteal Lymph Node Phenotype and Bin Expansion as Biomarkers of Rheumatoid Arthritis Knee Flare in Clinical Pilot Studies. Arthritis and Rheumatology, 2014, 66, S166-S167.	5.6	1
103	Surgery Resident Perceptions of the Clicker Evaluation System: A Novel Approach to Collecting and Utilizing Clinical Faculty Performance Data. Journal of Surgical Education, 2021, 78, 113-118.	2.5	1
104	Variation in practice for preoperative antibiotic prophylaxis: a survey from an academic tertiary referral center in the United States. Patient Safety in Surgery, 2021, 15, 36.	2.3	1
105	The Role of Computerized Tomography in the Diagnosis of an Occult Femoral Neck Fracture Associated with an Ipsilateral Femoral Shaft Fracture:. Journal of Trauma, 1991, 31, 296-298.	2.3	1
106	Comparison of 90-Day Perioperative Outcomes in Shoulder Arthroplasty Between the Elderly and Nonelderly Patients. Geriatric Orthopaedic Surgery and Rehabilitation, 2018, 9, 215145931880384.	1.4	0
107	Barriers and Resources to Optimize Bone Health in Orthopaedic Education. JBJS Open Access, 2021, 6, .	1.5	0