

Willem-Jan Metsemakers

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

4,045
citations

126708

33
h-index

128067

60
g-index

103
all docs

103
docs citations

103
times ranked

2467
citing authors

#	ARTICLE	IF	CITATIONS
1	Fracture-related infection: A consensus on definition from an international expert group. <i>Injury</i> , 2018, 49, 505-510.	0.7	440
2	Infection after fracture fixation: Current surgical and microbiological concepts. <i>Injury</i> , 2018, 49, 511-522.	0.7	336
3	Diagnosing Fracture-Related Infection: Current Concepts and Recommendations. <i>Journal of Orthopaedic Trauma</i> , 2020, 34, 8-17.	0.7	179
4	General treatment principles for fracture-related infection: recommendations from an international expert group. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2020, 140, 1013-1027.	1.3	141
5	Pathogenesis and management of fracture-related infection. <i>Clinical Microbiology and Infection</i> , 2020, 26, 572-578.	2.8	135
6	Orthopaedic device-related infection: current and future interventions for improved prevention and treatment. <i>EFORT Open Reviews</i> , 2016, 1, 89-99.	1.8	131
7	Safety and efficacy of phage therapy in difficult-to-treat infections: a systematic review. <i>Lancet Infectious Diseases</i> , The, 2022, 22, e208-e220.	4.6	125
8	Infection after fracture fixation of the tibia: Analysis of healthcare utilization and related costs. <i>Injury</i> , 2017, 48, 1204-1210.	0.7	116
9	The effect of local antibiotic prophylaxis when treating open limb fractures. <i>Bone and Joint Research</i> , 2018, 7, 447-456.	1.3	109
10	Evidence-Based Recommendations for Local Antimicrobial Strategies and Dead Space Management in Fracture-Related Infection. <i>Journal of Orthopaedic Trauma</i> , 2020, 34, 18-29.	0.7	101
11	Bacteriophage Application for Difficult-to-treat Musculoskeletal Infections: Development of a Standardized Multidisciplinary Treatment Protocol. <i>Viruses</i> , 2019, 11, 891.	1.5	98
12	Risk factors for infectious complications after open fractures; a systematic review and meta-analysis. <i>International Orthopaedics</i> , 2017, 41, 1965-1982.	0.9	93
13	The use of gentamicin-coated nails in complex open tibia fracture and revision cases: A retrospective analysis of a single centre case series and review of the literature. <i>Injury</i> , 2015, 46, 2433-2437.	0.7	91
14	Individual risk factors for deep infection and compromised fracture healing after intramedullary nailing of tibial shaft fractures: A single centre experience of 480 patients. <i>Injury</i> , 2015, 46, 740-745.	0.7	90
15	The value of quantitative histology in the diagnosis of fracture-related infection. <i>Bone and Joint Journal</i> , 2018, 100-B, 966-972.	1.9	86
16	Insights into treatment and outcome of fracture-related infection: a systematic literature review. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2019, 139, 61-72.	1.3	81
17	Prevention of fracture-related infection: a multidisciplinary care package. <i>International Orthopaedics</i> , 2017, 41, 2457-2469.	0.9	79
18	Recommendations for Systemic Antimicrobial Therapy in Fracture-Related Infection: A Consensus From an International Expert Group. <i>Journal of Orthopaedic Trauma</i> , 2020, 34, 30-41.	0.7	77

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19	The influence of biomechanical stability on bone healing and fracture-related infection: the legacy of Stephan Perren.. <i>Injury</i> , 2021, 52, 43-52.	0.7	72
20	Management of critical-sized bone defects in the treatment of fracture-related infection: a systematic review and pooled analysis. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, 141, 1215-1230.	1.3	69
21	Definition of infection after fracture fixation: A systematic review of randomized controlled trials to evaluate current practice. <i>Injury</i> , 2018, 49, 497-504.	0.7	66
22	A doxycycline-loaded polymer-lipid encapsulation matrix coating for the prevention of implant-related osteomyelitis due to doxycycline-resistant methicillin-resistant <i>Staphylococcus aureus</i> . <i>Journal of Controlled Release</i> , 2015, 209, 47-56.	4.8	63
23	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
24	Diagnostic challenges and future perspectives in fracture-related infection. <i>Injury</i> , 2018, 49, S83-S90.	0.7	61
25	Injectable gentamicin-loaded thermo-responsive hyaluronic acid derivative prevents infection in a rabbit model. <i>Acta Biomaterialia</i> , 2016, 43, 185-194.	4.1	60
26	Risk factors for nonunion after intramedullary nailing of femoral shaft fractures: Remaining controversies. <i>Injury</i> , 2015, 46, 1601-1607.	0.7	52
27	Definition and diagnosis of fracture-related infection. <i>EFORT Open Reviews</i> , 2020, 5, 614-619.	1.8	51
28	Musculoskeletal Infection in Orthopaedic Trauma. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, e44.	1.4	46
29	The influence of duration of infection on outcome of debridement and implant retention in fracture-related infection. <i>Bone and Joint Journal</i> , 2021, 103-B, 213-221.	1.9	46
30	Diagnostic accuracy of serum inflammatory markers in late fracture-related infection. <i>Bone and Joint Journal</i> , 2018, 100-B, 1542-1550.	1.9	44
31	Fracture-related infection: current methods for prevention and treatment. <i>Expert Review of Anti-Infective Therapy</i> , 2020, 18, 307-321.	2.0	38
32	Definition of long-bone nonunion: A scoping review of prospective clinical trials to evaluate current practice. <i>Injury</i> , 2021, 52, 3200-3205.	0.7	36
33	Titanium and steel fracture fixation plates with different surface topographies: Influence on infection rate in a rabbit fracture model. <i>Injury</i> , 2016, 47, 633-639.	0.7	35
34	Accuracy of Tissue and Sonication Fluid Sampling for the Diagnosis of Fracture-Related Infection: A Systematic Review and Critical Appraisal. <i>Journal of Bone and Joint Infection</i> , 2018, 3, 173-181.	0.6	35
35	Fracture-related infection in long bone fractures: A comprehensive analysis of the economic impact and influence on quality of life. <i>Injury</i> , 2021, 52, 3344-3349.	0.7	33
36	Economics of open tibial fractures: the pivotal role of length-of-stay and infection. <i>Health Economics Review</i> , 2017, 7, 32.	0.8	32

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37	Clinical practice in prevention of fracture-related infection: An international survey among 1197 orthopaedic trauma surgeons. <i>Injury</i> , 2019, 50, 1208-1215.	0.7	32
38	International survey among orthopaedic trauma surgeons: Lack of a definition of fracture-related infection. <i>Injury</i> , 2018, 49, 491-496.	0.7	31
39	Transcatheter embolotherapy after external surgical stabilization is a valuable treatment algorithm for patients with persistent haemorrhage from unstable pelvic fractures: Outcomes of a single centre experience. <i>Injury</i> , 2013, 44, 964-968.	0.7	27
40	Influence of implant properties and local delivery systems on the outcome in operative fracture care. <i>Injury</i> , 2016, 47, 595-604.	0.7	26
41	The AO trauma CPP bone infection registry: Epidemiology and outcomes of <i>Staphylococcus aureus</i> bone infection. <i>Journal of Orthopaedic Research</i> , 2021, 39, 136-146.	1.2	26
42	Validation of the diagnostic criteria of the consensus definition of fracture-related infection. <i>Injury</i> , 2022, 53, 1867-1879.	0.7	26
43	Fracture-related infection. <i>Bone and Joint Research</i> , 2021, 10, 351-353.	1.3	25
44	Bacteriophage Therapy for Difficult-to-Treat Infections: The Implementation of a Multidisciplinary Phage Task Force (The PHAGEFORCE Study Protocol). <i>Viruses</i> , 2021, 13, 1543.	1.5	21
45	Is open acute Achilles tendon rupture repair still justified? A single center experience and critical appraisal of the literature. <i>Injury</i> , 2018, 49, 1947-1952.	0.7	20
46	Management of periprosthetic infection after reverse shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, 2514-2522.	1.2	20
47	Bacteriophage therapy as a treatment strategy for orthopaedic-device-related infections: where do we stand?. , 2020, 39, 193-210.		20
48	Are the current guidelines for surgical delay in hip fractures too rigid? A single center assessment of mortality and economics. <i>Injury</i> , 2018, 49, 1169-1175.	0.7	19
49	Standardization of torsional CT measurements of the lower limbs with threshold values for corrective osteotomy. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2019, 139, 795-805.	1.3	19
50	The Microbiological Etiology of Fracture-Related Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	1.8	19
51	Reamerâ€“Irrigatorâ€“Aspirator bone graft harvesting for treatment of segmental bone loss: analysis of defect volume as independent risk factor for failure. <i>European Journal of Trauma and Emergency Surgery</i> , 2019, 45, 21-29.	0.8	18
52	Staphylococcal orthopaedic device-related infections in older patients. <i>Injury</i> , 2016, 47, 1427-1434.	0.7	17
53	Use of antibiotic coated intramedullary nails in open tibia fractures: A European medical resource use and cost-effectiveness analysis. <i>Injury</i> , 2021, 52, 1951-1958.	0.7	17
54	Ninety-Day Follow-up Is Inadequate for Diagnosis of Fracture-related Infections in Patients with Open Fractures. <i>Clinical Orthopaedics and Related Research</i> , 2022, 480, 139-146.	0.7	16

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55	Preclinical in vivo models of fracture-related infection: a systematic review and critical appraisal. , 2018, 36, 184-199.		16
56	Bacteriophage Therapy for the Prevention and Treatment of Fracture-Related Infection Caused by Staphylococcus aureus: a Preclinical Study. Microbiology Spectrum, 2021, 9, e0173621.	1.2	15
57	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.	0.7	13
58	What is the diagnostic value of the Centers for Disease Control and Prevention criteria for surgical site infection in fracture-related infection?. Injury, 2021, 52, 2879-2885.	0.7	13
59	The Role of Negative-Pressure Wound Therapy in Patients with Fracture-Related Infection: A Systematic Review and Critical Appraisal. BioMed Research International, 2021, 2021, 1-11.	0.9	13
60	Impact of duration of perioperative antibiotic prophylaxis on development of fracture-related infection in open fractures. Archives of Orthopaedic and Trauma Surgery, 2021, 141, 235-243.	1.3	11
61	Regional anaesthesia for surgical repair of proximal humerus fractures: a systematic review and critical appraisal. Archives of Orthopaedic and Trauma Surgery, 2019, 139, 1731-1741.	1.3	10
62	Local Application of a Gentamicin-Loaded Hydrogel Early After Injury Is Superior to Perioperative Systemic Prophylaxis in a Rabbit Open Fracture Model. Journal of Orthopaedic Trauma, 2020, 34, 231-237.	0.7	10
63	Pre-clinical inÂvivo Models of Vascular Graft Coating in the Prevention of Vascular Graft Infection: A Systematic Review. European Journal of Vascular and Endovascular Surgery, 2021, 62, 99-118.	0.8	10
64	Clinical Studies Reporting on Vascular Graft Coatings for the Prevention of Aortic Graft Infection: A Systematic Review and Meta-Analysis. European Journal of Vascular and Endovascular Surgery, 2022, 63, 112-118.	0.8	9
65	Ways to Improve Insights into Clindamycin Pharmacology and Pharmacokinetics Tailored to Practice. Antibiotics, 2022, 11, 701.	1.5	9
66	A systematic review of preclinical data regarding commercial silver-coated vascular grafts. Journal of Vascular Surgery, 2021, 74, 1386-1393.e1.	0.6	8
67	Antimicrobial Resistance, the COVID-19 Pandemic, and Lessons for the Orthopaedic Community. Journal of Bone and Joint Surgery - Series A, 2021, 103, 4-9.	1.4	8
68	Accelerated Rehabilitation in Non-operative Management of Acute Achilles Tendon Ruptures: A Systematic Review and Meta-analysis. Journal of Foot and Ankle Surgery, 2022, 61, 157-162.	0.5	7
69	Segmental Bone Loss of the Clavicle due to Fracture-Related Infection: A Multidisciplinary Challenge. Journal of Bone and Joint Infection, 2019, 4, 60-64.	0.6	6
70	Intramedullary tissue cultures from the Reamerâ€rrigatorâ€rAspirator system for diagnosing fractureâ€rrelated infection. Journal of Orthopaedic Research, 2021, 39, 281-290.	1.2	6
71	The Potential Role of Bacteriophages in the Treatment of Recalcitrant Chronic Rhinosinusitis. Antibiotics, 2021, 10, 675.	1.5	6
72	Spontaneous cholecystocutaneous abscess. Journal of the Belgian Society of Radiology, 2015, 93, 198.	0.2	6

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73	Fracture-related infection of the patella: Treatment options and outcome. <i>Injury</i> , 2022, 53, 1880-1886.	0.7	6
74	Clinical Efficacy and Safety of Vancomycin Continuous Infusion in Patients Treated at Home in an Outpatient Parenteral Antimicrobial Therapy Program. <i>Antibiotics</i> , 2022, 11, 702.	1.5	6
75	Floating Aortic Thrombus: the Endovascular Approach. <i>Acta Chirurgica Belgica</i> , 2013, 113, 47-50.	0.2	5
76	Intramedullary nailing of humeral shaft fractures: failure analysis of a single centre series. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2015, 135, 1391-1399.	1.3	5
77	The implementation of a clinical pathway enhancing early surgery for geriatric hip fractures: how to maintain a success story?. <i>European Journal of Trauma and Emergency Surgery</i> , 2019, 45, 199-205.	0.8	5
78	Antibiotic Prophylaxis With Cefuroxime: Influence of Duration on Infection Rate With <i>Staphylococcus aureus</i> in a Contaminated Open Fracture Model. <i>Journal of Orthopaedic Trauma</i> , 2018, 32, 190-195.	0.7	4
79	An Improved 2-Aminoimidazole Based Anti-Biofilm Coating for Orthopedic Implants: Activity, Stability, and in vivo Biocompatibility. <i>Frontiers in Microbiology</i> , 2021, 12, 658521.	1.5	4
80	Duration of Perioperative Antibiotic Prophylaxis in Open Fractures: A Systematic Review and Critical Appraisal. <i>Antibiotics</i> , 2022, 11, 293.	1.5	4
81	“Pathogenesis and management of fracture-related infection” Author's reply. <i>Clinical Microbiology and Infection</i> , 2020, 26, 652-653.	2.8	3
82	Fracture-related outcome study for operatively treated tibia shaft fractures (F.R.O.S.T.): registry rationale and design. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 57.	0.8	3
83	Residual Splenic Volume after Main Splenic Artery Embolization is Independent of the Underlying Disease. <i>Journal of the Belgian Society of Radiology</i> , 2021, 105, 19.	0.1	3
84	Pre-clinical In Vitro Models of Vascular Graft Coating in the Prevention of Vascular Graft Infection: A Systematic Review. <i>European Journal of Vascular and Endovascular Surgery</i> , 2021, , .	0.8	3
85	Bone infection: a clinical priority for clinicians, scientists and educators. , 2021, 42, 312-333.		3
86	Isavuconazole in the Treatment of <i>Aspergillus fumigatus</i> Fracture-Related Infection: Case Report and Literature Review. <i>Antibiotics</i> , 2022, 11, 344.	1.5	3
87	Perioperative antibiotic prophylaxis in long bone open fractures: the need for randomized controlled trials. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, , 1.	1.3	2
88	Nonsteroidal Anti-Inflammatory Drugs and Fracture Nonunion: An Ongoing Debate. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, e82.	1.4	1
89	Endovascular Treatment of a Chronic Contained Ruptured Abdominal Aortic Aneurysm. <i>Acta Chirurgica Belgica</i> , 2012, 112, 382-385.	0.2	0
90	Experimental research methods in orthopedics and trauma. <i>Acta Chirurgica Belgica</i> , 2017, 117, 136-136.	0.2	0

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91	Superspecialization and Clinical Trials on Surgical Site Infection: Is There a Bug in the System?. <i>Annals of Surgery</i> , 2018, 268, e48-e49.	2.1	0
92	Editorial “ Infectious-disease research during a pandemic: the importance of global unity. , 2021, 42, 154-155.		0
93	Celiac artery compression syndrome. <i>Journal of the Belgian Society of Radiology</i> , 2015, 93, 321.	0.2	0
94	Prevention of device-associated infection by a hyaluronan based thermo-responsive hydrogel loaded with gentamicin tested in an in vivo fracture model. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
95	The Role of Negative-Pressure Wound Therapy in Patients with Fracture-Related Infection: A Systematic Review and Critical Appraisal. <i>BioMed Research International</i> , 2021, 2021, 7742227.	0.9	0
96	GRADE misuse in systematic reviews “ Authors' reply. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 591-592.	4.6	0
97	Clinical Studies Reporting on Vascular Graft Coatings for the Prevention of Aortic Graft Infection: A Systematic Review and Meta-Analysis. <i>Aorta</i> , 2022, , .	0.1	0