

# 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  | Accelerated Rehabilitation in Non-operative Management of Acute Achilles Tendon Ruptures: A Systematic Review and Meta-analysis. <i>Journal of Foot and Ankle Surgery</i> , 2022, 61, 157-162.                               | 0.5 | 7         |
| 2  | 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        |
| 3  | Clinical Studies Reporting on Vascular Graft Coatings for the Prevention of Aortic Graft Infection: A Systematic Review and Meta-Analysis. <i>European Journal of Vascular and Endovascular Surgery</i> , 2022, 63, 112-118. | 0.8 | 9         |
| 4  | Duration of Perioperative Antibiotic Prophylaxis in Open Fractures: A Systematic Review and Critical Appraisal. <i>Antibiotics</i> , 2022, 11, 293.  | 1.5 | 4         |
| 5  | 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       |
| 6  | 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         |
| 7  | Validation of the diagnostic criteria of the consensus definition of fracture-related infection. <i>Injury</i> , 2022, 53, 1867-1879.  | 0.7 | 26        |
| 8  | Fracture-related infection of the patella: Treatment options and outcome. <i>Injury</i> , 2022, 53, 1880-1886.   | 0.7 | 6         |
| 9  | GRADE misuse in systematic reviews – Authors' reply. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 591-592.   | 4.6 | 0         |
| 10 | 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         |
| 11 | Ways to Improve Insights into Clindamycin Pharmacology and Pharmacokinetics Tailored to Practice. <i>Antibiotics</i> , 2022, 11, 701.  | 1.5 | 9         |
| 12 | 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         |
| 13 | 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        |
| 14 | Impact of duration of perioperative antibiotic prophylaxis on development of fracture-related infection in open fractures. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, 141, 235-243.                           | 1.3 | 11        |
| 15 | 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        |
| 16 | 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        |
| 17 | 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        |
| 18 | Intramedullary tissue cultures from the Reamer-Irrigator-Aspirator system for diagnosing fracture-related infection. <i>Journal of Orthopaedic Research</i> , 2021, 39, 281-290.   | 1.2 | 6         |

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|----|--|-----|-----------|
| 19 | 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         |
| 20 | 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        |
| 21 | Management of periprosthetic infection after reverse shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, 2514-2522.  | 1.2 | 20        |
| 22 | 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         |
| 23 | Fracture-related infection. <i>Bone and Joint Research</i> , 2021, 10, 351-353.  | 1.3 | 25        |
| 24 | The Potential Role of Bacteriophages in the Treatment of Recalcitrant Chronic Rhinosinusitis. <i>Antibiotics</i> , 2021, 10, 675.  | 1.5 | 6         |
| 25 | 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        |
| 26 | Pre-clinical inÂvivo 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, 62, 99-118. | 0.8 | 10        |
| 27 | What is the diagnostic value of the Centers for Disease Control and Prevention criteria for surgical site infection in fracture-related infection?. <i>Injury</i> , 2021, 52, 2879-2885.                   | 0.7 | 13        |
| 28 | 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        |
| 29 | 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        |
| 30 | 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        |
| 31 | Editorial â€“ Infectious-disease research during a pandemic: the importance of global unity. , 2021, 42, 154-155.  |     | 0         |
| 32 | A systematic review of preclinical data regarding commercial silver-coated vascular grafts. <i>Journal of Vascular Surgery</i> , 2021, 74, 1386-1393.e1.   | 0.6 | 8         |
| 33 | 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         |
| 34 | 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         |
| 35 | Antimicrobial Resistance, the COVID-19 Pandemic, and Lessons for the Orthopaedic Community. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, 4-9.  | 1.4 | 8         |
| 36 | Pre-clinical InÂvitro 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         |

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|----|---|-----|-----------|
| 37 | Bone infection: a clinical priority for clinicians, scientists and educators. , 2021, 42, 312-333.  |     | 3         |
| 38 | The Role of Negative-Pressure Wound Therapy in Patients with Fracture-Related Infection: A Systematic Review and Critical Appraisal. BioMed Research International, 2021, 2021, 7742227.                  | 0.9 | 0         |
| 39 | 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        |
| 40 | 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        |
| 41 | Pathogenesis and management of fracture-related infection. Clinical Microbiology and Infection, 2020, 26, 572-578.  | 2.8 | 135       |
| 42 | General treatment principles for fracture-related infection: recommendations from an international expert group. Archives of Orthopaedic and Trauma Surgery, 2020, 140, 1013-1027.                        | 1.3 | 141       |
| 43 | 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        |
| 44 | Diagnosing Fracture-Related Infection: Current Concepts and Recommendations. Journal of Orthopaedic Trauma, 2020, 34, 8-17.   | 0.7 | 179       |
| 45 | Evidence-Based Recommendations for Local Antimicrobial Strategies and Dead Space Management in Fracture-Related Infection. Journal of Orthopaedic Trauma, 2020, 34, 18-29.                                | 0.7 | 101       |
| 46 | Recommendations for Systemic Antimicrobial Therapy in Fracture-Related Infection: A Consensus From an International Expert Group. Journal of Orthopaedic Trauma, 2020, 34, 30-41.                         | 0.7 | 77        |
| 47 | Nonsteroidal Anti-Inflammatory Drugs and Fracture Nonunion: An Ongoing Debate. Journal of Bone and Joint Surgery - Series A, 2020, 102, e82.  | 1.4 | 1         |
| 48 | Definition and diagnosis of fracture-related infection. EFORT Open Reviews, 2020, 5, 614-619.   | 1.8 | 51        |
| 49 | “Pathogenesis and management of fracture-related infection” Author's reply. Clinical Microbiology and Infection, 2020, 26, 652-653.   | 2.8 | 3         |
| 50 | Musculoskeletal Infection in Orthopaedic Trauma. Journal of Bone and Joint Surgery - Series A, 2020, 102, e44.  | 1.4 | 46        |
| 51 | Fracture-related infection: current methods for prevention and treatment. Expert Review of Anti-Infective Therapy, 2020, 18, 307-321.   | 2.0 | 38        |
| 52 | Bacteriophage therapy as a treatment strategy for orthopaedic-device-related infections: where do we stand?. , 2020, 39, 193-210.   |     | 20        |
| 53 | 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        |
| 54 | Bacteriophage Application for Difficult-to-treat Musculoskeletal Infections: Development of a Standardized Multidisciplinary Treatment Protocol. Viruses, 2019, 11, 891.                                  | 1.5 | 98        |

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|----|---|-----|-----------|
| 55 | Segmental Bone Loss of the Clavicle due to Fracture-Related Infection: A Multidisciplinary Challenge. <i>Journal of Bone and Joint Infection</i> , 2019, 4, 60-64.  | 0.6 | 6         |
| 56 | 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        |
| 57 | 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        |
| 58 | 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        |
| 59 | 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         |
| 60 | 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        |
| 61 | International survey among orthopaedic trauma surgeons: Lack of a definition of fracture-related infection. <i>Injury</i> , 2018, 49, 491-496.  | 0.7 | 31        |
| 62 | 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        |
| 63 | Infection after fracture fixation: Current surgical and microbiological concepts. <i>Injury</i> , 2018, 49, 511-522.  | 0.7 | 336       |
| 64 | 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        |
| 65 | 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         |
| 66 | Fracture-related infection: A consensus on definition from an international expert group. <i>Injury</i> , 2018, 49, 505-510.  | 0.7 | 440       |
| 67 | 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         |
| 68 | 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        |
| 69 | 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        |
| 70 | Diagnostic challenges and future perspectives in fracture-related infection. <i>Injury</i> , 2018, 49, S83-S90.   | 0.7 | 61        |
| 71 | 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        |
| 72 | 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        |

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|----|--|-----|-----------|
| 73 | The effect of local antibiotic prophylaxis when treating open limb fractures. <i>Bone and Joint Research</i> , 2018, 7, 447-456.   | 1.3 | 109       |
| 74 | Preclinical in vivo models of fracture-related infection: a systematic review and critical appraisal. , 2018, 36, 184-199.   |     | 16        |
| 75 | Experimental research methods in orthopedics and trauma. <i>Acta Chirurgica Belgica</i> , 2017, 117, 136-136.  | 0.2 | 0         |
| 76 | Infection after fracture fixation of the tibia: Analysis of healthcare utilization and related costs. <i>Injury</i> , 2017, 48, 1204-1210.   | 0.7 | 116       |
| 77 | Prevention of fracture-related infection: a multidisciplinary care package. <i>International Orthopaedics</i> , 2017, 41, 2457-2469.   | 0.9 | 79        |
| 78 | 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        |
| 79 | 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        |
| 80 | 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       |
| 81 | 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        |
| 82 | Letter to the Editor: New Definition for Periprosthetic Joint Infection: From the Workgroup of the Musculoskeletal Infection Society. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 2726-2727.  | 0.7 | 13        |
| 83 | 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        |
| 84 | Staphylococcal orthopaedic device-related infections in older patients. <i>Injury</i> , 2016, 47, 1427-1434.   | 0.7 | 17        |
| 85 | 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        |
| 86 | Risk factors for nonunion after intramedullary nailing of femoral shaft fractures: Remaining controversies. <i>Injury</i> , 2015, 46, 1601-1607.   | 0.7 | 52        |
| 87 | 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         |
| 88 | 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        |
| 89 | 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        |
| 90 | 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        |

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|----|---|-----|-----------|
| 91 | Celiac artery compression syndrome. Journal of the Belgian Society of Radiology, 2015, 93, 321.   | 0.2 | 0         |
| 92 | Spontaneous cholecystocutaneous abscess. Journal of the Belgian Society of Radiology, 2015, 93, 198.  | 0.2 | 6         |
| 93 | 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. Injury, 2013, 44, 964-968. | 0.7 | 27        |
| 94 | Floating Aortic Thrombus: the Endovascular Approach. Acta Chirurgica Belgica, 2013, 113, 47-50.   | 0.2 | 5         |
| 95 | Endovascular Treatment of a Chronic Contained Ruptured Abdominal Aortic Aneurysm. Acta Chirurgica Belgica, 2012, 112, 382-385.  | 0.2 | 0         |
| 96 | Prevention of device-associated infection by a hyaluronan based thermo-responsive hydrogel loaded with gentamicin tested in an in vivo fracture model. Frontiers in Bioengineering and Biotechnology, 0, 4, .                                   | 2.0 | 0         |
| 97 | The Microbiological Etiology of Fracture-Related Infection. Frontiers in Cellular and Infection Microbiology, 0, 12, .  | 1.8 | 19        |