

Jennifer A Flegg

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

3,869
citations

257429

24
h-index

214788

47
g-index

55
all docs

55
docs citations

55
times ranked

4602
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Spread of Artemisinin Resistance in <i>Plasmodium falciparum</i> Malaria. <i>New England Journal of Medicine</i> , 2014, 371, 411-423. | 27.0 | 1,753 |
| 2 | Spread of artemisinin-resistant <i>Plasmodium falciparum</i> in Myanmar: a cross-sectional survey of the K13 molecular marker. <i>Lancet Infectious Diseases</i> , 2015, 15, 415-421. | 9.1 | 363 |
| 3 | Genetic loci associated with delayed clearance of <i>Plasmodium falciparum</i> following artemisinin treatment in Southeast Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 240-245. | 7.1 | 242 |
| 4 | Standardizing the measurement of parasite clearance in <i>falciparum</i> malaria: the parasite clearance estimator. <i>Malaria Journal</i> , 2011, 10, 339. | 2.3 | 236 |
| 5 | The use of hyperbaric oxygen therapy to treat chronic wounds: A review. <i>Wound Repair and Regeneration</i> , 2008, 16, 321-330. | 3.0 | 174 |
| 6 | Students' perceptions of the relevance of mathematics in engineering. <i>International Journal of Mathematical Education in Science and Technology</i> , 2012, 43, 717-732. | 1.4 | 99 |
| 7 | The effect of dose on the antimalarial efficacy of artemether-lumefantrine: a systematic review and pooled analysis of individual patient data. <i>Lancet Infectious Diseases</i> , 2015, 15, 692-702. | 9.1 | 74 |
| 8 | On the mathematical modeling of wound healing angiogenesis in skin as a reaction-transport process. <i>Frontiers in Physiology</i> , 2015, 6, 262. | 2.8 | 72 |
| 9 | Agent-based models of malaria transmission: a systematic review. <i>Malaria Journal</i> , 2018, 17, 299. | 2.3 | 66 |
| 10 | Baseline data of parasite clearance in patients with <i>falciparum</i> malaria treated with an artemisinin derivative: an individual patient data meta-analysis. <i>Malaria Journal</i> , 2015, 14, 359. | 2.3 | 47 |
| 11 | Modelling the interaction of keratinocytes and fibroblasts during normal and abnormal wound healing processes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3329-3338. | 2.6 | 45 |
| 12 | A Three Species Model to Simulate Application of Hyperbaric Oxygen Therapy to Chronic Wounds. <i>PLoS Computational Biology</i> , 2009, 5, e1000451. | 3.2 | 44 |
| 13 | Trends in Antimalarial Drug Use in Africa. <i>American Journal of Tropical Medicine and Hygiene</i> , 2013, 89, 857-865. | 1.4 | 40 |
| 14 | Mathematical Model of Hyperbaric Oxygen Therapy Applied to Chronic Diabetic Wounds. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 1867-1891. | 1.9 | 39 |
| 15 | The effect of dosing strategies on the therapeutic efficacy of artesunate-amodiaquine for uncomplicated malaria: a meta-analysis of individual patient data. <i>BMC Medicine</i> , 2015, 13, 66. | 5.5 | 37 |
| 16 | High-Throughput Analysis of Antimalarial Susceptibility Data by the WorldWide Antimalarial Resistance Network (WWARN) <i>In Vitro</i> Analysis and Reporting Tool. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 3121-3130. | 3.2 | 36 |
| 17 | Defining the In Vivo Phenotype of Artemisinin-Resistant <i>Falciparum</i> Malaria: A Modelling Approach. <i>PLoS Medicine</i> , 2015, 12, e1001823. | 8.4 | 36 |
| 18 | Wound healing angiogenesis: The clinical implications of a simple mathematical model. <i>Journal of Theoretical Biology</i> , 2012, 300, 309-316. | 1.7 | 33 |

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|----|---|-----|-----------|
| 19 | Influencing public health policy with data-informed mathematical models of infectious diseases: Recent developments and new challenges. <i>Epidemics</i> , 2020, 32, 100393. | 3.0 | 31 |
| 20 | Cyclin A2 modulates kinetochore-microtubule attachment in meiosis II. <i>Journal of Cell Biology</i> , 2017, 216, 3133-3143. | 5.2 | 30 |
| 21 | Longitudinal study assessing the return of chloroquine susceptibility of <i>Plasmodium falciparum</i> in isolates from travellers returning from West and Central Africa, 2000-2011. <i>Malaria Journal</i> , 2013, 12, 35. | 2.3 | 28 |
| 22 | Optimal sampling designs for estimation of <i>Plasmodium falciparum</i> clearance rates in patients treated with artemisinin derivatives. <i>Malaria Journal</i> , 2013, 12, 411. | 2.3 | 28 |
| 23 | Artemether-Lumefantrine and Dihydroartemisinin-Piperaquine Exert Inverse Selective Pressure on <i>Plasmodium Falciparum</i> Drug Sensitivity-Associated Haplotypes in Uganda. <i>Open Forum Infectious Diseases</i> , 2017, 4, ofw229. | 0.9 | 28 |
| 24 | Spatiotemporal mathematical modelling of mutations of the dhps gene in African <i>Plasmodium falciparum</i> . <i>Malaria Journal</i> , 2013, 12, 249. | 2.3 | 26 |
| 25 | Revisiting the Natural History of Pulmonary Tuberculosis: A Bayesian Estimation of Natural Recovery and Mortality Rates. <i>Clinical Infectious Diseases</i> , 2021, 73, e88-e96. | 5.8 | 25 |
| 26 | Estimation of malaria haplotype and genotype frequencies: a statistical approach to overcome the challenge associated with multiclonal infections. <i>Malaria Journal</i> , 2014, 13, 102. | 2.3 | 23 |
| 27 | A Current Perspective on Wound Healing and Tumour-Induced Angiogenesis. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 23. | 1.9 | 22 |
| 28 | Computational Approaches to Solving Equations Arising from Wound Healing. <i>Bulletin of Mathematical Biology</i> , 2009, 71, 211-246. | 1.9 | 21 |
| 29 | Malaria Parasite Clearance: What Are We Really Measuring?. <i>Trends in Parasitology</i> , 2020, 36, 413-426. | 3.3 | 21 |
| 30 | Levels of SARS-CoV-2 population exposure are considerably higher than suggested by seroprevalence surveys. <i>PLoS Computational Biology</i> , 2021, 17, e1009436. | 3.2 | 21 |
| 31 | Optimal health and disease management using spatial uncertainty: a geographic characterization of emergent artemisinin-resistant <i>Plasmodium falciparum</i> distributions in Southeast Asia. <i>International Journal of Health Geographics</i> , 2016, 15, 37. | 2.5 | 13 |
| 32 | A comparison of approximate versus exact techniques for Bayesian parameter inference in nonlinear ordinary differential equation models. <i>Royal Society Open Science</i> , 2020, 7, 191315. | 2.4 | 12 |
| 33 | Surveillance of Travellers: An Additional Tool for Tracking Antimalarial Drug Resistance in Endemic Countries. <i>PLoS ONE</i> , 2013, 8, e77775. | 2.5 | 11 |
| 34 | Mathematical Modelling and Avascular Tumour Growth. <i>Resonance</i> , 2019, 24, 313-325. | 0.3 | 10 |
| 35 | Associations between patient, treatment, or wound-level factors and venous leg ulcer healing: Wound characteristics are the key factors in determining healing outcomes. <i>Wound Repair and Regeneration</i> , 2020, 28, 211-218. | 3.0 | 10 |
| 36 | Hypnozoite dynamics for <i>Plasmodium vivax</i> malaria: The epidemiological effects of radical cure. <i>Journal of Theoretical Biology</i> , 2022, 537, 111014. | 1.7 | 10 |

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|----|---|-----|-----------|
| 37 | Healing of venous ulcers using compression therapy: Predictions of a mathematical model. <i>Journal of Theoretical Biology</i> , 2015, 379, 1-9. | 1.7 | 9 |
| 38 | An Activation-Clearance Model for <i>Plasmodium vivax</i> Malaria. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 32. | 1.9 | 9 |
| 39 | Mathematical Modeling Can Advance Wound Healing Research. <i>Advances in Wound Care</i> , 2021, 10, 328-344. | 5.1 | 8 |
| 40 | Antibody Dynamics for <i>Plasmodium vivax</i> Malaria: A Mathematical Model. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 6. | 1.9 | 8 |
| 41 | Malaria parasite clearance rate regression: an R software package for a Bayesian hierarchical regression model. <i>Malaria Journal</i> , 2019, 18, 4. | 2.3 | 7 |
| 42 | A Multiscale Mathematical Model of <i>Plasmodium Vivax</i> Transmission. <i>Bulletin of Mathematical Biology</i> , 2022, 84, . | 1.9 | 5 |
| 43 | Bayesian hierarchical regression on clearance rates in the presence of α - and β -phases with an application to malaria parasites. <i>Biometrics</i> , 2015, 71, 751-759. | 1.4 | 4 |
| 44 | Students' approaches to learning a new mathematical model. <i>Teaching Mathematics and Its Applications</i> , 2013, 32, 28-37. | 0.8 | 3 |
| 45 | First-year and final-year undergraduate students' perceptions of university mathematics departments. <i>Mathematics Education Research Journal</i> , 2020, , 1. | 1.7 | 3 |
| 46 | Push or Pull? Cell Proliferation and Migration During Wound Healing. <i>Frontiers in Systems Biology</i> , 2022, 2, . | 0.7 | 3 |
| 47 | Numerical Solution of a Two Dimensional Tumour Growth Model with Moving Boundary. <i>Journal of Scientific Computing</i> , 2020, 85, 1. | 2.3 | 2 |
| 48 | Physiological factors leading to a successful vaccination: A computational approach. <i>Journal of Theoretical Biology</i> , 2018, 454, 215-230. | 1.7 | 1 |
| 49 | Detection and identification of cis-regulatory elements using change-point and classification algorithms. <i>BMC Genomics</i> , 2022, 23, 78. | 2.8 | 1 |
| 50 | Optimal sampling designs for accurate estimation of parasite clearance in the context of artemisinin resistance. <i>Malaria Journal</i> , 2012, 11, P39. | 2.3 | 0 |
| 51 | A mathematical model of the use of supplemental oxygen to combat surgical site infection. <i>Journal of Theoretical Biology</i> , 2019, 466, 11-23. | 1.7 | 0 |
| 52 | Parameter estimation for a point-source diffusion-decay morphogen model. <i>Journal of Mathematical Biology</i> , 2020, 80, 2227-2255. | 1.9 | 0 |
| 53 | A simple history-dependent remeshing technique to increase finite element model stability in elastic surface deformations. <i>Journal of Computational and Applied Mathematics</i> , 2021, 405, 113876. | 2.0 | 0 |
| 54 | How quickly does a wound heal? Bayesian calibration of a mathematical model of venous leg ulcer healing. <i>Mathematical Medicine and Biology</i> , 0, , . | 1.2 | 0 |