# Michael Boots

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8982776/publications.pdf

Version: 2024-02-01

| 81 | 4,772 | 87888 38 | 114465 63 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 97 | 97 | 97 | 5030 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Parasite Exposure Drives Selective Evolution of Constitutive versus Inducible Defense. Current Biology, 2015, 25, 1043-1049. | 3.9 | 244 |
| 2 | The diversity-generating benefits of a prokaryotic adaptive immune system. Nature, 2016, 532, 385-388. | 27.8 | 236 |
| 3 | Local Interactions Select for Lower Pathogen Infectivity. Science, 2007, 315, 1284-1286. | 12.6 | 190 |
| 4 | The role of ecological feedbacks in the evolution of host defence: what does theory tell us?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 27-36. | 4.0 | 187 |
| 5 | The Evolution of Costly Resistance in Hostâ€Parasite Systems. American Naturalist, 1999, 153, 359-370. | 2.1 | 180 |
| 6 | THE EVOLUTION OF PARASITES IN RESPONSE TO TOLERANCE IN THEIR HOSTS: THE GOOD, THE BAD, AND APPARENT COMMENSALISM. Evolution; International Journal of Organic Evolution, 2006, 60, 945-956. | 2.3 | 169 |
| 7 | Invading with biological weapons: the importance of diseaseâ€mediated invasions. Functional Ecology, 2012, 26, 1249-1261. | 3.6 | 142 |
| 8 | Three Mechanisms of Host Resistance to Microparasitesâ€”Avoidance, Recovery and Toleranceâ€”Show Different Evolutionary Dynamics. Journal of Theoretical Biology, 1999, 201, 13-23. | 1.7 | 141 |
| 9 | REVIEW: Emerging viral disease risk to pollinating insects: ecological, evolutionary and anthropogenic factors. Journal of Applied Ecology, 2015, 52, 331-340. | 4.0 | 132 |
| 10 | Within and transgenerational immune priming in an insect to a DNA virus. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 871-876. | 2.6 | 131 |
| 11 | How important is vertical transmission in mosquitoes for the persistence of dengue? Insights from a mathematical model. Epidemics, 2010, 2, 1-10. | 3.0 | 123 |
| 12 | Generalism and the evolution of parasite virulence. Trends in Ecology and Evolution, 2013, 28, 592-596. | 8.7 | 123 |
| 13 | HOST LIFE SPAN AND THE EVOLUTION OF RESISTANCE CHARACTERISTICS. Evolution; International Journal of Organic Evolution, 2007, 61, 2-14. | 2.3 | 121 |
| 14 | THE ORIGIN OF SPECIFICITY BY MEANS OF NATURAL SELECTION: EVOLVED AND NONHOST RESISTANCE IN HOST-PATHOGEN INTERACTIONS. Evolution; International Journal of Organic Evolution, 2013, 67, 1-9. | 2.3 | 114 |
| 15 | Using Social Network Measures in Wildlife Disease Ecology, Epidemiology, and Management. BioScience, 2017, 67, 245-257. | 4.9 | 107 |
| 16 | The Implications of Coevolutionary Dynamics to Hostâ€Parasite Interactions. American Naturalist, 2009, 173, 779-791. | 2.1 | 92 |
| 17 | Accelerated viral dynamics in bat cell lines, with implications for zoonotic emergence. ELife, 2020, 9, . | 6.0 | 91 |
| 18 | Are parasites â€˜â€˜prudentâ€™â€™ in space?. Ecology Letters, 2010, 13, 1245-1255. | 6.4 | 80 |

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|---|---|---|---|
| 19 | The application of statistical network models in disease research. Methods in Ecology and Evolution, 2017, 8, 1026-1041. | 5.2 | 80 |
| 20 | How Important is Vertical Transmission of Dengue Viruses by Mosquitoes (Diptera: Culicidae)?. Journal of Medical Entomology, 2016, 53, 1-19. | 1.8 | 73 |
| 21 | Ecological and evolutionary approaches to managing honeybee disease. Nature Ecology and Evolution, 2017, 1, 1250-1262. | 7.8 | 73 |
| 22 | The Evolution of Resistance to a Parasite Is Determined by Resources. American Naturalist, 2011, 178, 214-220. | 2.1 | 72 |
| 23 | The geometric theory of adaptive evolution: trade-off and invasion plots. Journal of Theoretical Biology, 2005, 233, 363-377. | 1.7 | 68 |
| 24 | Knockâ€on community impacts of a novel vector: spillover of emerging DWVâ€B from Varroaâ€infested honeybees to wild bumblebees. Ecology Letters, 2019, 22, 1306-1315. | 6.4 | 68 |
| 25 | Host phylogenetic distance drives trends in virus virulence and transmissibility across the animalâ€“human interface. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190296. | 4.0 | 64 |
| 26 | Integrating social behaviour, demography and disease dynamics in network models: applications to disease management in declining wildlife populations. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180211. | 4.0 | 64 |
| 27 | The evolution of parasites in response to tolerance in their hosts: the good, the bad, and apparent commensalism. Evolution; International Journal of Organic Evolution, 2006, 60, 945-56. | 2.3 | 64 |
| 28 | The influence of trade-off shape on evolutionary behaviour in classical ecological scenarios. Journal of Theoretical Biology, 2008, 250, 498-511. | 1.7 | 60 |
| 29 | The Role of Vector Trait Variation in Vector-Borne Disease Dynamics. Frontiers in Ecology and Evolution, 2020, 8, . | 2.2 | 57 |
| 30 | Host resistance and coevolution in spatially structured populations. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2216-2222. | 2.6 | 56 |
| 31 | The epidemiological consequences of immune priming. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4505-4512. | 2.6 | 56 |
| 32 | Higher resources decrease fluctuating selection during hostâ€“parasite coevolution. Ecology Letters, 2014, 17, 1380-1388. | 6.4 | 55 |
| 33 | RESISTANCE IS FUTILE BUT TOLERANCE CAN EXPLAIN WHY PARASITES DO NOT ALWAYS CASTRATE THEIR HOSTS. Evolution; International Journal of Organic Evolution, 2010, 64, 348-357. | 2.3 | 53 |
| 34 | Two arms are better than one: parasite variation leads to combined inducible and constitutive innate immune responses. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 937-945. | 2.6 | 51 |
| 35 | Cannibalism and the stage-dependent transmission of a viral pathogen of the Indian meal moth, Plodia interpunctella. Ecological Entomology, 1998, 23, 118-122. | 2.2 | 50 |
| 36 | Consensus and conflict among ecological forecasts of Zika virus outbreaks in the United States. Scientific Reports, 2018, 8, 4921. | 3.3 | 50 |

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|---|---|---|---|
| 37 | Maternal effects in disease resistance: poor maternal environment increases offspring resistance to an insect virus. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4009-4014. | 2.6 | 49 |
| 38 | HOW SPECIFICITY AND EPIDEMIOLOGY DRIVE THE COEVOLUTION OF STATIC TRAIT DIVERSITY IN HOSTS AND PARASITES. Evolution; International Journal of Organic Evolution, 2014, 68, 1594-1606. | 2.3 | 48 |
| 39 | Coevolution of parasite virulence and host mating strategies. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13290-13295. | 7.1 | 48 |
| 40 | Cannibals in Space: The Coevolution of Cannibalism and Dispersal in Spatially Structured Populations. American Naturalist, 2010, 175, 513-524. | 2.1 | 46 |
| 41 | Parasite evolution and extinctions. Ecology Letters, 2003, 6, 176-182. | 6.4 | 44 |
| 42 | Impact of piglet oral vaccination against tuberculosis in endemic free-ranging wild boar populations. Preventive Veterinary Medicine, 2018, 155, 11-20. | 1.9 | 43 |
| 43 | Multiâ€mode fluctuating selection in hostâ€“parasite coevolution. Ecology Letters, 2017, 20, 357-365. | 6.4 | 42 |
| 44 | The evolutionary dynamics of within-generation immune priming in invertebrate hosts. Journal of the Royal Society Interface, 2013, 10, 20120887. | 3.4 | 40 |
| 45 | Understanding the role of eco-evolutionary feedbacks in host-parasite coevolution. Journal of Theoretical Biology, 2019, 464, 115-125. | 1.7 | 40 |
| 46 | Resource limitation and the lethal and sublethal effects of a viral pathogen in the Indian meal moth, Plodia interpunctella. Ecological Entomology, 1994, 19, 319-326. | 2.2 | 36 |
| 47 | The evolution of constitutive and induced defences to infectious disease. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180658. | 2.6 | 35 |
| 48 | Condition-dependent virulence of slow bee paralysis virus in Bombus terrestris: are the impacts of honeybee viruses in wild pollinators underestimated?. Oecologia, 2017, 184, 305-315. | 2.0 | 34 |
| 49 | Contact networks structured by sex underpin sexâ€specific epidemiology of infection. Ecology Letters, 2018, 21, 309-318. | 6.4 | 33 |
| 50 | Social structure contains epidemics and regulates individual roles in disease transmission in a groupâ€living mammal. Ecology and Evolution, 2018, 8, 12044-12055. | 1.9 | 30 |
| 51 | Optimal immune defence in the light of variation in lifespan. Parasite Immunology, 2013, 35, 331-338. | 1.5 | 29 |
| 52 | A genotypic tradeâ€off between constitutive resistance to viral infection and host growth rate. Evolution; International Journal of Organic Evolution, 2018, 72, 2749-2757. | 2.3 | 28 |
| 53 | Quantifying direct and indirect contacts for the potential transmission of infection between species using a multilayer contact network. Behaviour, 2018, 155, 731-757. | 0.8 | 26 |
| 54 | Novel insights into the insect trancriptome response to a natural DNA virus. BMC Genomics, 2015, 16, 310. | 2.8 | 25 |

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|---|---|---|---|
| 55 | Hostâ€“parasite fluctuating selection in the absence of specificity. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171615. | 2.6 | 25 |
| 56 | Antigenic escape selects for the evolution of higher pathogen transmission and virulence. Nature Ecology and Evolution, 2022, 6, 51-62. | 7.8 | 22 |
| 57 | Bats host the most virulentâ€”but not the most dangerousâ€”zoonotic viruses. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113628119. | 7.1 | 22 |
| 58 | Seasonal variation in daily patterns of social contacts in the European badger Meles meles. Ecology and Evolution, 2017, 7, 9006-9015. | 1.9 | 21 |
| 59 | Optimizing COVID-19 control with asymptomatic surveillance testing in a university environment. Epidemics, 2021, 37, 100527. | 3.0 | 21 |
| 60 | The importance of who infects whom: the evolution of diversity in host resistance to infectious disease. Ecology Letters, 2012, 15, 1104-1111. | 6.4 | 20 |
| 61 | Industrial bees: The impact of apicultural intensification on local disease prevalence. Journal of Applied Ecology, 2019, 56, 2195-2205. | 4.0 | 20 |
| 62 | Contrasting impacts of a novel specialist vector on multihost viral pathogen epidemiology in wild and managed bees. Molecular Ecology, 2020, 29, 380-393. | 3.9 | 20 |
| 63 | Ecological processes underlying the emergence of novel enzootic cycles: Arboviruses in the neotropics as a case study. PLoS Neglected Tropical Diseases, 2020, 14, e0008338. | 3.0 | 19 |
| 64 | Local transmission processes and disease-driven host extinctions. Theoretical Ecology, 2012, 5, 211-217. | 1.0 | 18 |
| 65 | The three Ts of virulence evolution during zoonotic emergence. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210900. | 2.6 | 18 |
| 66 | The problem of mediocre generalists: population genetics and eco-evolutionary perspectives on host breadth evolution in pathogens. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201230. | 2.6 | 17 |
| 67 | How can immunopathology shape the evolution of parasite virulence?. Trends in Parasitology, 2011, 27, 300-305. | 3.3 | 16 |
| 68 | The Need for Evolutionarily Rational Disease Interventions: Vaccination Can Select for Higher Virulence. PLoS Biology, 2015, 13, e1002236. | 5.6 | 12 |
| 69 | A general host?pathogen model with free?living infective stages and differing rates of uptake of the infective stages by infected and susceptible hosts. Population Ecology, 1999, 41, 189-194. | 1.2 | 9 |
| 70 | Persistent effects of management history on honeybee colony virus abundances. Journal of Invertebrate Pathology, 2021, 179, 107520. | 3.2 | 9 |
| 71 | Strain differences in the indian meal moth,Plodia interpunctella, in response to a granulosis virus. Researches on Population Ecology, 1995, 37, 37-42. | 0.9 | 8 |
| 72 | Resource quality determines the evolution of resistance and its genetic basis. Molecular Ecology, 2020, 29, 4128-4142. | 3.9 | 8 |

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|---|---|---|---|
| 73 | The target of selection matters: An established resistanceâ€"developmentâ€time negative genetic tradeâ€off is not found when selecting on development time. Journal of Evolutionary Biology, 2020, 33, 1109-1119. | 1.7 | 8 |
| 74 | Boosting can explain patterns of fluctuations of ratios of inapparent to symptomatic dengue virus infections. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 8 |
| 75 | The role of host phenology in determining the incidence of an insect sexually transmitted infection. Oikos, 2016, 125, 636-643. | 2.7 | 6 |
| 76 | The impact of resource quality on the evolution of virulence in spatially heterogeneous environments. Journal of Theoretical Biology, 2017, 416, 1-7. | 1.7 | 6 |
| 77 | A mathematical model shows macrophages delay Staphylococcus aureus replication, but limitations in microbicidal capacity restrict bacterial clearance. Journal of Theoretical Biology, 2020, 497, 110256. | 1.7 | 4 |
| 78 | Multimorph Eco-Evolutionary Dynamics in Structured Populations. American Naturalist, 2022, 200, 345-372. | 2.1 | 4 |
| 79 | Identifying regions of risk to honey bees from Zika vector control in the USA. Journal of Apicultural Research, 2018, 57, 709-719. | 1.5 | 3 |
| 80 | Experimental evidence that local interactions select against selfish behaviour. Ecology Letters, 2021, 24, 1187-1192. | 6.4 | 2 |
| 81 | The central role of host reproduction in determining the evolution of virulence in spatially structured populations. Journal of Theoretical Biology, 2021, 523, 110717. | 1.7 | 2 |