# Vincent A A Jansen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5514998/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 101 papers | 8,451 citations | 53794 45 h-index | 48315 88 g-index |
| 104 all docs | 104 docs citations | 104 times ranked | 8531 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Modelling the influence of human behaviour on the spread of infectious diseases: a review. Journal of the Royal Society Interface, 2010, 7, 1247-1256. | 3.4 | 941 |
| 2 | The spread of awareness and its impact on epidemic outbreaks. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6872-6877. | 7.1 | 831 |
| 3 | Interaction strengths in food webs: issues and opportunities. Journal of Animal Ecology, 2004, 73, 585-598. | 2.8 | 557 |
| 4 | The evolution of syntactic communication. Nature, 2000, 404, 495-498. | 27.8 | 342 |
| 5 | Altruism through beard chromodynamics. Nature, 2006, 440, 663-666. | 27.8 | 326 |
| 6 | Measles Outbreaks in a Population with Declining Vaccine Uptake. Science, 2003, 301, 804-804. | 12.6 | 302 |
| 7 | Quantifying the kinetic parameters of prion replication. Biophysical Chemistry, 1999, 77, 139-152. | 2.8 | 214 |
| 8 | Understanding Bacteriophage Therapy as a Density-dependent Kinetic Process. Journal of Theoretical Biology, 2001, 208, 37-48. | 1.7 | 204 |
| 9 | Endemic disease, awareness, and local behavioural response. Journal of Theoretical Biology, 2010, 264, 501-509. | 1.7 | 192 |
| 10 | Phage therapy: The peculiar kinetics of self-replicating pharmaceuticals. Clinical Pharmacology and Therapeutics, 2000, 68, 225-230. | 4.7 | 179 |
| 11 | Chronic sublethal stress causes bee colony failure. Ecology Letters, 2013, 16, 1463-1469. | 6.4 | 175 |
| 12 | Quantitative Models of In Vitro Bacteriophageâ€“Host Dynamics and Their Application to Phage Therapy. PLoS Pathogens, 2009, 5, e1000253. | 4.7 | 168 |
| 13 | Pharmacokinetic Principles of Bacteriophage Therapy. Clinical Pharmacokinetics, 2003, 42, 315-325. | 3.5 | 166 |
| 14 | The Evolution of Parasite Virulence, Superinfection, and Host Resistance. American Naturalist, 2002, 159, 658-669. | 2.1 | 146 |
| 15 | The Dynamics of Two Diffusively Coupled Predatorâ€“Prey Populations. Theoretical Population Biology, 2001, 59, 119-131. | 1.1 | 143 |
| 16 | Interacting epidemics on overlay networks. Physical Review E, 2010, 81, 036118. | 2.1 | 143 |
| 17 | Pesticide reduces bumblebee colony initiation and increases probability of population extinction. Nature Ecology and Evolution, 2017, 1, 1308-1316. | 7.8 | 123 |
| 18 | Life History Trade-Offs Assemble Ecological Guilds. Science, 2004, 306, 111-114. | 12.6 | 122 |

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|---|---|---|---|
| 19 | Spatiotemporal dynamics of epidemics: synchrony in metapopulation models. Mathematical Biosciences, 2004, 188, 1-16. | 1.9 | 116 |
| 20 | Variation in individual walking behavior creates the impression of a LÃ©vy flight. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8704-8707. | 7.1 | 116 |
| 21 | HOST LIFE HISTORY AND THE EVOLUTION OF PARASITE VIRULENCE. Evolution; International Journal of Organic Evolution, 2001, 55, 1056. | 2.3 | 114 |
| 22 | Variability in interaction strength and implications for biodiversity. Journal of Animal Ecology, 2002, 71, 362-371. | 2.8 | 111 |
| 23 | Spatial models of virus-immune dynamics. Journal of Theoretical Biology, 2005, 233, 221-236. | 1.7 | 104 |
| 24 | High-amplitude fluctuations and alternative dynamical states of midges in Lake Myvatn. Nature, 2008, 452, 84-87. | 27.8 | 102 |
| 25 | Local stability analysis of spatially homogeneous solutions of multi-patch systems. Journal of Mathematical Biology, 2000, 41, 232-252. | 1.9 | 95 |
| 26 | Populations can persist in an environment consisting of sink habitats only. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 3696-3698. | 7.1 | 92 |
| 27 | HOW POPULATION DYNAMICS SHAPE THE FUNCTIONAL RESPONSE IN A ONE-PREDATORâ€“TWO-PREY SYSTEM. Ecology, 2007, 88, 1571-1581. | 3.2 | 88 |
| 28 | Comment on â€œLÃ©vy Walks Evolve Through Interaction Between Movement and Environmental Complexityâ€• Science, 2012, 335, 918-918. | 12.6 | 84 |
| 29 | Stochastic spread ofWolbachia. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 2769-2776. | 2.6 | 76 |
| 30 | Dynamics of Macrophage and T Cell Infection by HIV. Journal of Theoretical Biology, 1999, 196, 101-113. | 1.7 | 74 |
| 31 | Complexity and stability revisited. Ecology Letters, 2003, 6, 498-502. | 6.4 | 72 |
| 32 | Evolution in structured populations: beyond the kin versus group debate. Trends in Ecology and Evolution, 2011, 26, 193-201. | 8.7 | 71 |
| 33 | Dangerous liaisons: the ecology of private interest and common good. Oikos, 2001, 95, 211-224. | 2.7 | 68 |
| 34 | Evolution and population dynamics in stochastic environments. Researches on Population Ecology, 1996, 38, 165-182. | 0.9 | 67 |
| 35 | An evolutionary mechanism for diversity in siderophoreâ€producing bacteria. Ecology Letters, 2012, 15, 119-125. | 6.4 | 67 |
| 36 | Herpes viruses hedge their bets. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15234-15237. | 7.1 | 60 |

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|---|---|---|---|
| 37 | A generalized functional response for predators that switch between multiple prey species. Journal of Theoretical Biology, 2013, 328, 89-98. | 1.7 | 56 |
| 38 | Diversity in pathogenicity can cause outbreaks of meningococcal disease. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10229-10234. | 7.1 | 55 |
| 39 | Shaken Not Stirred: On Permanence in Ecological Communities. Theoretical Population Biology, 1998, 54, 195-201. | 1.1 | 54 |
| 40 | Evolving biodiversity. Ecology Letters, 1999, 2, 379-386. | 6.4 | 54 |
| 41 | Evidence for intermittency and a truncated power law from highly resolved aphid movement data. Journal of the Royal Society Interface, 2010, 7, 199-208. | 3.4 | 53 |
| 42 | Phase locking: another cause of synchronicity in predatorâ€“prey systems. Trends in Ecology and Evolution, 1999, 14, 278-279. | 8.7 | 50 |
| 43 | The evolution of sex-specific virulence in infectious diseases. Nature Communications, 2016, 7, 13849. | 12.8 | 49 |
| 44 | Designing drugs to stop the formation of prion aggregates and other amyloids. Biophysical Chemistry, 2000, 88, 47-59. | 2.8 | 48 |
| 45 | The Role of T Cell Help for Anti-viral CTL Responses. Journal of Theoretical Biology, 2001, 211, 419-432. | 1.7 | 46 |
| 46 | Common language or Tower of Babel? On the evolutionary dynamics of signals and their meanings. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 69-76. | 2.6 | 46 |
| 47 | Comparative genomics of Salmonella enterica serovars Derby and Mbandaka, two prevalent serovars associated with different livestock species in the UK. BMC Genomics, 2013, 14, 365. | 2.8 | 45 |
| 48 | Twitter users change word usage according to conversation-partner social identity. Social Networks, 2015, 40, 84-89. | 2.1 | 42 |
| 49 | Population structure and associated phenotypes of Salmonella enterica serovars Derby and Mbandaka overlap with host range. BMC Microbiology, 2016, 16, 15. | 3.3 | 41 |
| 50 | Periodic Mortality Events in Predator-Prey Systems. Ecology, 2000, 81, 3330. | 3.2 | 39 |
| 51 | Competition between cryptic species explains variations in rates of lineage evolution. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12382-12386. | 7.1 | 39 |
| 52 | Five challenges in evolution and infectious diseases. Epidemics, 2015, 10, 40-44. | 3.0 | 38 |
| 53 | Dispersal biophysics and adaptive significance of dimorphic diaspores in the annual Aethionema arabicum (Brassicaceae). New Phytologist, 2019, 221, 1434-1446. | 7.3 | 38 |
| 54 | Ant semiochemicals limit apterous aphid dispersal. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 3127-3131. | 2.6 | 36 |

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|---|---|---|---|
| 55 | The Role of Space in Reducing Predatorâ€“Prey Cycles. , 2000, , 183-202. | | 35 |
| 56 | Word usage mirrors community structure in the online social network Twitter. EPJ Data Science, 2013, 2, . | 2.8 | 34 |
| 57 | COMPLEX DYNAMICS IN STOCHASTIC TRITROPHIC MODELS. Ecology, 1998, 79, 1039-1052. | 3.2 | 33 |
| 58 | SPI-23 of S. Derby: Role in Adherence and Invasion of Porcine Tissues. PLoS ONE, 2014, 9, e107857. | 2.5 | 31 |
| 59 | Red Queen Dynamics of Protein Translation. Journal of Theoretical Biology, 2002, 218, 97-109. | 1.7 | 30 |
| 60 | Meningitis, pathogenicity near criticality: the epidemiology of meningococcal disease as a model for accidental pathogens. Journal of Theoretical Biology, 2003, 222, 347-359. | 1.7 | 30 |
| 61 | The Effects of a Pool of Dispersers on Host-parasitoid Systems. Journal of Theoretical Biology, 1997, 189, 413-425. | 1.7 | 29 |
| 62 | Stability in flux: community structure in dynamic networks. Journal of the Royal Society Interface, 2011, 8, 1031-1040. | 3.4 | 27 |
| 63 | Ebola: the power of behaviour change. Nature, 2014, 515, 492-492. | 27.8 | 27 |
| 64 | THE EVOLUTION OF DISPERSAL IN A LEVINS' TYPE METAPOPULATION MODEL. Evolution; International Journal of Organic Evolution, 2007, 61, 2386-2397. | 2.3 | 26 |
| 65 | The measured level of prion infectivity varies in a predictable way according to the aggregation state of the infectious agent. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2001, 1535, 164-173. | 3.8 | 25 |
| 66 | Evidence for a Phage Proliferation Threshold?. Journal of Virology, 2002, 76, 13123-13124. | 3.4 | 25 |
| 67 | The Dual Role of CD4 T Helper Cells in the Infection Dynamics of HIV and Their Importance for Vaccination. Journal of Theoretical Biology, 2002, 214, 633-646. | 1.7 | 25 |
| 68 | Evolution towards criticality in an epidemiological model for meningococcal disease. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 317, 87-96. | 2.1 | 24 |
| 69 | Phage variation: understanding the behaviour of an accidental pathogen. Trends in Microbiology, 2005, 13, 563-565. | 7.7 | 24 |
| 70 | Prey dispersal and predator persistence. Experimental and Applied Acarology, 1992, 14, 215-231. | 1.6 | 23 |
| 71 | TO AGE, TO DIE: PARITY, EVOLUTIONARY TRACKING AND COLE'S PARADOX. Evolution; International Journal of Organic Evolution, 2009, 63, 1498-1507. | 2.3 | 22 |
| 72 | A dynamical perspective of CTL cross-priming and regulation: implications for cancer immunology. Immunology Letters, 2003, 86, 213-227. | 2.5 | 21 |

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|---|---|---|---|
| 73 | Resurgent Insurgents: Quantitative Research Into Jihadists Who Get Suspended but Return on Twitter. Journal of Terrorism Research, 2016, 7, 1. | 0.8 | 19 |
| 74 | Effects of dispersal in a tri-trophic metapopulation model. Journal of Mathematical Biology, 1995, 34, 195-224. | 1.9 | 18 |
| 75 | ECOLOGY: Making Sense of Evolution in an Uncertain World. Science, 2005, 309, 2005-2007. | 12.6 | 18 |
| 76 | Global Persistence Despite Local Extinction in Acarine Predatorâ€Prey Systems: Lessons From Experimental and Mathematical Exercises. Advances in Ecological Research, 2005, , 183-220. | 2.7 | 17 |
| 77 | PERIODIC MORTALITY EVENTS IN PREDATORâ€“PREY SYSTEMS. Ecology, 2000, 81, 3330-3340. | 3.2 | 16 |
| 78 | Protection Versus Pathology in Aviremic and High Viral Load HIV-2 Infectionâ€”The Pivotal Role of Immune Activation and T-cell Kinetics. Journal of Infectious Diseases, 2014, 210, 752-761. | 4.0 | 15 |
| 79 | Siderophore production and the evolution of investment in a public good: An adaptive dynamics approach to kin selection. Journal of Theoretical Biology, 2016, 388, 61-71. | 1.7 | 15 |
| 80 | Effector cytotoxic T lymphocyte numbers induced by vaccination should exceed levels in chronic infection for protection from HIV. Vaccine, 2001, 20, 3-6. | 3.8 | 13 |
| 81 | Density-dependent dispersal may explain the mid-season crash in some aphid populations. Population Ecology, 2008, 50, 285-292. | 1.2 | 13 |
| 82 | PRDM9 and the evolution of recombination hotspots. Theoretical Population Biology, 2019, 126, 19-32. | 1.1 | 12 |
| 83 | The kinetics of proteinase K digestion of linear prion polymers. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 1927-1931. | 2.6 | 11 |
| 84 | Outbreaks of Colony-Forming Pests in Tri-Trophic Systems: Consequences for Pest Control and the Evolution of Pesticide Resistance. Oikos, 1995, 74, 172. | 2.7 | 10 |
| 85 | Contrasting B cell- and T cell-based protective vaccines. Journal of Theoretical Biology, 2005, 234, 39-48. | 1.7 | 10 |
| 86 | Kinds of kindness: classifying the causes of altruism and cooperation. Journal of Evolutionary Biology, 2006, 19, 1377-1379. | 1.7 | 10 |
| 87 | The impact of clonal mixing on the evolution of social behaviour in aphids. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1651-1657. | 2.6 | 10 |
| 88 | An individualâ€based model for competing Drosophila populations. Researches on Population Ecology, 1997, 39, 215-225. | 0.9 | 9 |
| 89 | Between a rock and a hard place: adaptive sensing and siteâ€specific dispersal. Ecology Letters, 2020, 23, 1370-1379. | 6.4 | 9 |
| 90 | The evolution of stability in a competitive system. Journal of Theoretical Biology, 2005, 236, 208-215. | 1.7 | 7 |

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| 91 | Temperature and Oxygen Dependent Metabolite Utilization by Salmonella enterica Serovars Derby and Mbandaka. PLoS ONE, 2015, 10, e0120450. | 2.5 | 7 |
| 92 | The estimation of dispersal rates using the covariance of local populations. Ecological Modelling, 2006, 196, 434-446. | 2.5 | 6 |
| 93 | How humans transmit language: horizontal transmission matches word frequencies among peers on Twitter. Journal of the Royal Society Interface, 2018, 15, 20170738. | 3.4 | 6 |
| 94 | The Evolution of Plasmid Transfer Rate in Bacteria and Its Effect on Plasmid Persistence. American Naturalist, 2021, 198, 473-488. | 2.1 | 5 |
| 95 | Prion Kinetics. Biophysical Journal, 2004, 87, 728. | 0.5 | 4 |
| 96 | Statistics of infections with diversity in the pathogenicity. Biophysical Chemistry, 2005, 115, 181-185. | 2.8 | 4 |
| 97 | Evolutionary consequences of a search image. Theoretical Population Biology, 2010, 77, 49-55. | 1.1 | 4 |
| 98 | On Kin and Group Selection, and the Haystack Model. , 2011, , 139-157. | | 1 |
| 99 | Complex Dynamics in Stochastic Tritrophic Models. Ecology, 1998, 79, 1039. | 3.2 | 1 |
| 100 | Models in the management of animal diseases - P. Willeberg (Editor). Revue Scientifique et Techniqueâ€“Office International Des Epizooties30, 381â€“643. World Organisation for Animal Health, Paris. 2011. ISBN 978-92-9044-836-5. Journal of Helminthology, 2012, 86, 386-386. | 1.0 | 0 |
| 101 | Stable cycling in quasi-linkage equilibrium: Fluctuating dynamics under gene conversion and selection. Journal of Theoretical Biology, 2019, 477, 84-95. | 1.7 | 0 |