

Alex James

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,583
citations

394421

19
h-index

214800

47
g-index

83
all docs

83
docs citations

83
times ranked

3446
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential reduction in transmission of COVID-19 by digital contact tracing systems: a modelling study. <i>Mathematical Medicine and Biology</i> , 2022, 39, 156-168.	1.2	8
2	Long-term biodiversity trajectories for pest-managed ecological restorations: eradication vs. suppression. <i>Ecological Monographs</i> , 2021, 91, e01439.	5.4	11
3	Individual heterogeneity affects the outcome of small mammal pest eradication. <i>Theoretical Ecology</i> , 2021, 14, 219-231.	1.0	2
4	Mathematical modelling to inform New Zealand's COVID-19 response. <i>Journal of the Royal Society of New Zealand</i> , 2021, 51, S86-S106.	1.9	19
5	Model-free estimation of COVID-19 transmission dynamics from a complete outbreak. <i>PLoS ONE</i> , 2021, 16, e0238800.	2.5	12
6	Long-term Biodiversity Benefits from Invasive Mammalian Pest Control in Ecological Restorations. <i>Bulletin of the Ecological Society of America</i> , 2021, 102, e01843.	0.2	0
7	Managing the risk of a COVID-19 outbreak from border arrivals. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210063.	3.4	19
8	A structured model for COVID-19 spread: modelling age and healthcare inequities. <i>Mathematical Medicine and Biology</i> , 2021, 38, 299-313.	1.2	14
9	Comment: weekly COVID-19 testing with household quarantine and contact tracing is feasible and would probably end the epidemic. <i>Royal Society Open Science</i> , 2021, 8, 201546.	2.4	1
10	Successful contact tracing systems for COVID-19 rely on effective quarantine and isolation. <i>PLoS ONE</i> , 2021, 16, e0252499.	2.5	25
11	Worldwide border interceptions provide a window into human-mediated global insect movement. <i>Ecological Applications</i> , 2021, 31, e02412.	3.8	53
12	Early intervention is the key to success in COVID-19 control. <i>Royal Society Open Science</i> , 2021, 8, 210488.	2.4	20
13	Māori and Pacific people in New Zealand have a higher risk of hospitalisation for COVID-19. <i>New Zealand Medical Journal</i> , 2021, 134, 28-43.	0.5	7
14	Kia kua te reo e rite ki te moa, ka ngaro: do not let the language suffer the same fate as the moa. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190526.	3.4	6
15	Considering unseen arrivals in predictions of establishment risk based on border biosecurity interceptions. <i>Ecological Applications</i> , 2020, 30, e02194.	3.8	16
16	The necessity of tailored control of irrupting pest populations driven by pulsed resources. <i>Theoretical Ecology</i> , 2020, 13, 261-275.	1.0	5
17	Estimated inequities in COVID-19 infection fatality rates by ethnicity for Aotearoa New Zealand. <i>New Zealand Medical Journal</i> , 2020, 133, 28-39.	0.5	25
18	Using family network data in child protection services. <i>PLoS ONE</i> , 2019, 14, e0224554.	2.5	7

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19	Emergence of balanced harvesting in an agent-based model of an open-access small-scale fishery. <i>Mathematical Biosciences</i> , 2019, 316, 108245.	1.9	4
20	Limiting Effect of Self-Shading on the Height of <i>Tradescantia fluminensis</i> Mats. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 3918-3932.	1.9	0
21	Predicting water levels in ephemeral wetlands under climate change scenarios. <i>Theoretical Ecology</i> , 2019, 12, 427-435.	1.0	1
22	Gender and societies: a grassroots approach to women in science. <i>Royal Society Open Science</i> , 2019, 6, 190633.	2.4	33
23	Optimal control of irrupting pest populations in a climate-driven ecosystem. <i>PeerJ</i> , 2018, 6, e6146.	2.0	4
24	How Herbivore Browsing Strategy Affects Whole-Plant Photosynthetic Capacity. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 772-787.	1.9	4
25	Spatial utilization predicts animal social contact networks are not scale-free. <i>Royal Society Open Science</i> , 2017, 4, 171209.	2.4	1
26	Collective Cell Behaviour with Neighbour-Dependent Proliferation, Death and Directional Bias. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 2277-2301.	1.9	30
27	Evolutionarily Stable Strategies for Fecundity and Swimming Speed of Fish. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 280-292.	1.9	3
28	Spatial structure arising from neighbour-dependent bias in collective cell movement. <i>PeerJ</i> , 2016, 4, e1689.	2.0	24
29	Climate-Based Models for Pulsed Resources Improve Predictability of Consumer Population Dynamics: Outbreaks of House Mice in Forest Ecosystems. <i>PLoS ONE</i> , 2015, 10, e0119139.	2.5	14
30	Assessing the efficacy of population-level models of mast seeding. <i>Theoretical Ecology</i> , 2015, 8, 121-132.	1.0	13
31	Spatial moment dynamics for collective cell movement incorporating a neighbour-dependent directional bias. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150228.	3.4	35
32	Constructing Random Matrices to Represent Real Ecosystems. <i>American Naturalist</i> , 2015, 185, 680-692.	2.1	31
33	Modelling <i>Tradescantia fluminensis</i> to assess long term survival. <i>PeerJ</i> , 2015, 3, e1013.	2.0	3
34	“We definitely wouldn't be able to solve it all by ourselves, but together” – group synergy in tertiary students' problem-solving practices. <i>Research in Mathematics Education</i> , 2014, 16, 306-323.	1.2	12
35	Does computer-aided formative assessment improve learning outcomes?. <i>International Journal of Mathematical Education in Science and Technology</i> , 2014, 45, 269-281.	1.4	7
36	Of mast and mean: differential temperature cue makes mast seeding insensitive to climate change. <i>Ecology Letters</i> , 2013, 16, 90-98.	6.4	195

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37	Control of Competitive Bioinvasion. Lecture Notes in Mathematics, 2013, , 293-305.	0.2	1
38	James et al. reply. Nature, 2013, 500, E2-E3.	27.8	16
39	A mathematical model of the defence mechanism of a bombardier beetle. Journal of the Royal Society Interface, 2013, 10, 20120801.	3.4	8
40	A phenomenological model of muscle fatigue and the power-endurance relationship. Journal of Applied Physiology, 2012, 113, 1643-1651.	2.5	18
41	Disentangling nestedness from models of ecological complexity. Nature, 2012, 487, 227-230.	27.8	195
42	An episodic model of honeydew production in scale insects. Austral Ecology, 2012, 37, 308-312.	1.5	0
43	Application of a spatial meta-population model with stochastic parameters to the management of the invasive grass <i>Nassella trichotoma</i> in North Canterbury, New Zealand. Ecological Modelling, 2011, 222, 1030-1037.	2.5	8
44	Group by subject or by ability? Tertiary mathematics for engineering students. International Journal of Mathematical Education in Science and Technology, 2011, 42, 857-865.	1.4	2
45	Meeting the needs of our best and brightest: curriculum acceleration in tertiary mathematics. International Journal of Mathematical Education in Science and Technology, 2011, 42, 299-312.	1.4	6
46	Competition and diffusive invasion in a noisy environment. Mathematical Medicine and Biology, 2011, 28, 153-163.	1.2	6
47	Assessing Lévy walks as models of animal foraging. Journal of the Royal Society Interface, 2011, 8, 1233-1247.	3.4	139
48	Efficient or Inaccurate? Analytical and Numerical Modelling of Random Search Strategies. Bulletin of Mathematical Biology, 2010, 72, 896-913.	1.9	29
49	Size spectra dynamics from stochastic predation and growth of individuals. Ecology, 2009, 90, 802-811.	3.2	98
50	Modelling the dynamic response of oxygen uptake to exercise. Discrete and Continuous Dynamical Systems - Series B, 2009, 12, 361-370.	0.9	1
51	Scaling laws of marine predator search behaviour. Nature, 2008, 451, 1098-1102.	27.8	852
52	Optimal foraging: Lévy pattern or process?. Journal of the Royal Society Interface, 2008, 5, 1077-1086.	3.4	107
53	From lessons to lectures: NCEA mathematics results and first-year mathematics performance. International Journal of Mathematical Education in Science and Technology, 2008, 39, 1037-1050.	1.4	9
54	Optimizing the encounter rate in biological interactions: Ballistic versus Lévy versus Brownian strategies. Physical Review E, 2008, 78, 051128.	2.1	67

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55	An event-based model of superspreading in epidemics. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 741-747.	2.6	64
56	A nonlinear model of age and size-structured populations with applications to cell cycles. ANZIAM Journal, 2007, 49, 151-169.	0.2	13
57	A dynamical model of honeydew droplet production by sooty-beech scale insects (Ultracoelostoma) Tj ETQq1 1 0.784314 rgBT /Overl 2.5	2.5	9
58	The role of variance in capped-rate stochastic growth models with external mortality. Journal of Theoretical Biology, 2007, 244, 228-238.	1.7	4
59	Quantifying the effects of individual and environmental variability in fish recruitment. Fisheries Oceanography, 2005, 14, 156-160.	1.7	37
60	Modelling predation as a capped rate stochastic process, with applications to fish recruitment. Journal of the Royal Society Interface, 2005, 2, 477-487.	3.4	5
61	The relationship between plankton blooms, the hatching of fish larvae, and recruitment. Ecological Modelling, 2003, 160, 77-90.	2.5	42
62	Multi-channel monolith reactors as dynamical systems. Combustion and Flame, 2003, 134, 193-205.	5.2	7
63	Optimal foraging in patchy turbulent environments. Marine Ecology - Progress Series, 2003, 256, 99-110.	1.9	24
64	Stability of multiple steady states of catalytic combustion. Combustion and Flame, 2002, 130, 137-146.	5.2	3
65	Classification of behaviour in a steady plug-flow model of catalytic combustion. Chemical Engineering Science, 2001, 56, 4649-4658.	3.8	5