

James P Gleeson

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

5,710
citations

172207

29
h-index

79541

73
g-index

106
all docs

106
docs citations

106
times ranked

4877
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Calibrating COVID-19 susceptible-exposed-infected-removed models with time-varying effective contact rates. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210120. | 1.6 | 19 |
| 2 | Symmetry-breaking mechanism for the formation of cluster chimera patterns. <i>Chaos</i> , 2022, 32, 013107. | 1.0 | 7 |
| 3 | Multitype branching process method for modeling complex contagion on clustered networks. <i>Physical Review E</i> , 2022, 105, 034306. | 0.8 | 5 |
| 4 | Generalized mean-field approximation for the Deffuant opinion dynamics model on networks. <i>Physical Review E</i> , 2021, 103, 012314. | 0.8 | 9 |
| 5 | Dynamics of cascades on burstiness-controlled temporal networks. <i>Nature Communications</i> , 2021, 12, 133. | 5.8 | 20 |
| 6 | Identification of skill in an online game: The case of Fantasy Premier League. <i>PLoS ONE</i> , 2021, 16, e0246698. | 1.1 | 3 |
| 7 | Hierarchical route to the emergence of leader nodes in real-world networks. <i>Physical Review Research</i> , 2021, 3, . | 1.3 | 6 |
| 8 | Branching process descriptions of information cascades on Twitter. <i>Journal of Complex Networks</i> , 2021, 8, . | 1.1 | 9 |
| 9 | A complex networks approach to ranking professional Snooker players. <i>Journal of Complex Networks</i> , 2021, 8, . | 1.1 | 2 |
| 10 | Synchronization Dynamics in Non-Normal Networks: The Trade-Off for Optimality. <i>Entropy</i> , 2021, 23, 36. | 1.1 | 13 |
| 11 | Memory-cognizant generalization to Simon's random-copying neutral model. <i>Physical Review Research</i> , 2021, 3, . | 1.3 | 0 |
| 12 | Role of modularity in self-organization dynamics in biological networks. <i>Physical Review E</i> , 2020, 102, 052306. | 0.8 | 16 |
| 13 | Quantifying uncertainty in a predictive model for popularity dynamics. <i>Physical Review E</i> , 2020, 101, 062311. | 0.8 | 5 |
| 14 | Agreement threshold on Axelrod's model of cultural dissemination. <i>PLoS ONE</i> , 2020, 15, e0233995. | 1.1 | 5 |
| 15 | Assessing police topological efficiency in a major sting operation on the dark web. <i>Scientific Reports</i> , 2020, 10, 73. | 1.6 | 25 |
| 16 | Dynamics impose limits to detectability of network structure. <i>New Journal of Physics</i> , 2020, 22, 063037. | 1.2 | 7 |
| 17 | Agreement threshold on Axelrod's model of cultural dissemination. , 2020, 15, e0233995. | | 0 |
| 18 | Agreement threshold on Axelrod's model of cultural dissemination. , 2020, 15, e0233995. | | 0 |

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|----|--|-----|-----------|
| 19 | Agreement threshold on Axelrod's model of cultural dissemination. , 2020, 15, e0233995. | | 0 |
| 20 | Agreement threshold on Axelrod's model of cultural dissemination. , 2020, 15, e0233995. | | 0 |
| 21 | Agreement threshold on Axelrod's model of cultural dissemination. , 2020, 15, e0233995. | | 0 |
| 22 | Agreement threshold on Axelrod's model of cultural dissemination. , 2020, 15, e0233995. | | 0 |
| 23 | Spreading of memes on multiplex networks. <i>New Journal of Physics</i> , 2019, 21, 025001. | 1.2 | 14 |
| 24 | Contact-Based Model for Epidemic Spreading on Temporal Networks. <i>Physical Review X</i> , 2019, 9, . | 2.8 | 26 |
| 25 | Emergence of power laws in noncritical neuronal systems. <i>Physical Review E</i> , 2019, 100, 010401. | 0.8 | 10 |
| 26 | Multistate Dynamical Processes on Networks: Analysis through Degree-Based Approximation Frameworks. <i>SIAM Review</i> , 2019, 61, 92-118. | 4.2 | 25 |
| 27 | Sparse Power-Law Network Model for Reliable Statistical Predictions Based on Sampled Data. <i>Entropy</i> , 2018, 20, 257. | 1.1 | 4 |
| 28 | Message-Passing Methods for Complex Contagions. <i>Computational Social Sciences</i> , 2018, , 81-95. | 0.4 | 8 |
| 29 | Equivalence between Non-Markovian and Markovian Dynamics in Epidemic Spreading Processes. <i>Physical Review Letters</i> , 2017, 118, 128301. | 2.9 | 50 |
| 30 | Concurrency-Induced Transitions in Epidemic Dynamics on Temporal Networks. <i>Physical Review Letters</i> , 2017, 119, 108301. | 2.9 | 38 |
| 31 | Integrating sentiment and social structure to determine preference alignments: the Irish Marriage Referendum. <i>Royal Society Open Science</i> , 2017, 4, 170154. | 1.1 | 6 |
| 32 | Temporal profiles of avalanches on networks. <i>Nature Communications</i> , 2017, 8, 1227. | 5.8 | 43 |
| 33 | A framework for analyzing contagion in assortative banking networks. <i>PLoS ONE</i> , 2017, 12, e0170579. | 1.1 | 10 |
| 34 | A Few Basic Concepts. <i>Frontiers in Applied Dynamical Systems: Reviews and Tutorials</i> , 2016, , 3-4. | 0.5 | 0 |
| 35 | Examples of Dynamical Systems. <i>Frontiers in Applied Dynamical Systems: Reviews and Tutorials</i> , 2016, , 5-27. | 0.5 | 2 |
| 36 | Software Implementation. <i>Frontiers in Applied Dynamical Systems: Reviews and Tutorials</i> , 2016, , 47-48. | 0.5 | 0 |

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|----|---|-----|-----------|
| 37 | Dynamical Systems on Dynamical Networks. Frontiers in Applied Dynamical Systems: Reviews and Tutorials, 2016, , 49-51. | 0.5 | 6 |
| 38 | Emergence of coexisting percolating clusters in networks. Physical Review E, 2016, 93, 062308. | 0.8 | 7 |
| 39 | Effects of Network Structure, Competition and Memory Time on Social Spreading Phenomena. Physical Review X, 2016, 6, . | 2.8 | 54 |
| 40 | Limitations of discrete-time approaches to continuous-time contagion dynamics. Physical Review E, 2016, 94, 052125. | 0.8 | 69 |
| 41 | Network cloning unfolds the effect of clustering on dynamical processes. Physical Review E, 2015, 91, 052807. | 0.8 | 12 |
| 42 | Mathematical modeling of complex contagion on clustered networks. Frontiers in Physics, 2015, 3, . | 1.0 | 25 |
| 43 | Multilayer networks. Journal of Complex Networks, 2014, 2, 203-271. | 1.1 | 2,388 |
| 44 | Dynamics on modular networks with heterogeneous correlations. Chaos, 2014, 24, 023106. | 1.0 | 30 |
| 45 | Analytical approach to the dynamics of facilitated spin models on random networks. Physical Review E, 2014, 90, 032824. | 0.8 | 2 |
| 46 | A Rolling Optimisation Model of the UK Natural Gas Market. Networks and Spatial Economics, 2014, 14, 209-244. | 0.7 | 16 |
| 47 | Competition-Induced Criticality in a Model of Meme Popularity. Physical Review Letters, 2014, 112, 048701. | 2.9 | 110 |
| 48 | A simple generative model of collective online behavior. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10411-10415. | 3.3 | 78 |
| 49 | Binary-State Dynamics on Complex Networks: Pair Approximation and Beyond. Physical Review X, 2013, 3, . | 2.8 | 137 |
| 50 | Multi-stage complex contagions. Chaos, 2013, 23, 013124. | 1.0 | 94 |
| 51 | Variability in output torque of capstan and wrap spring elements. Mechanism and Machine Theory, 2013, 68, 49-66. | 2.7 | 2 |
| 52 | Critical phenomena in heterogeneous k -core percolation. Physical Review E, 2013, 87, 022134. | 0.8 | 23 |
| 53 | On Watts' cascade model with random link weights. Journal of Complex Networks, 2013, 1, 25-43. | 1.1 | 36 |
| 54 | Cascades on clique-based graphs. Physical Review E, 2013, 87, 062801. | 0.8 | 19 |

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|----|---|-----|-----------|
| 55 | Percolation in multiplex networks with overlap. <i>Physical Review E</i> , 2013, 88, 052811. | 0.8 | 163 |
| 56 | Singularities in Ternary Mixtures of k -core Percolation. <i>Studies in Computational Intelligence</i> , 2013, , 165-172. | 0.7 | 1 |
| 57 | Graph fission in an evolving voter model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3682-3687. | 3.3 | 123 |
| 58 | Accuracy of mean-field theory for dynamics on real-world networks. <i>Physical Review E</i> , 2012, 85, 026106. | 0.8 | 113 |
| 59 | Statistical characterisation and modelling of random geometric imperfections in cylindrical shells. <i>Thin-Walled Structures</i> , 2012, 58, 9-17. | 2.7 | 11 |
| 60 | High-Accuracy Approximation of Binary-State Dynamics on Networks. <i>Physical Review Letters</i> , 2011, 107, 068701. | 2.9 | 176 |
| 61 | Cascades on a class of clustered random networks. <i>Physical Review E</i> , 2011, 83, 056107. | 0.8 | 91 |
| 62 | Tricritical Point in Heterogeneous k -Core Percolation. <i>Physical Review Letters</i> , 2011, 107, 175703. | 2.9 | 54 |
| 63 | The unreasonable effectiveness of tree-based theory for networks with clustering. <i>Physical Review E</i> , 2011, 83, 036112. | 0.8 | 111 |
| 64 | Statistical Analysis of First-Order Bang-Bang Phase-Locked Loops Using Sign-Dependent Random-Walk Theory. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010, 57, 2367-2380. | 3.5 | 20 |
| 65 | How clustering affects the bond percolation threshold in complex networks. <i>Physical Review E</i> , 2010, 81, 066114. | 0.8 | 75 |
| 66 | Binary Phase Detector Gain in Bang-Bang Phase-Locked Loops With DCO Jitter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2010, 57, 941-945. | 2.2 | 14 |
| 67 | Analytical results for bond percolation and k -core sizes on clustered networks. <i>Physical Review E</i> , 2009, 80, 046121. | 0.8 | 24 |
| 68 | Bond percolation on a class of clustered random networks. <i>Physical Review E</i> , 2009, 80, 036107. | 0.8 | 80 |
| 69 | On asymptotic stability and instability with respect to a fading stochastic perturbation. <i>Applicable Analysis</i> , 2009, 88, 579-603. | 0.6 | 9 |
| 70 | Transport in randomly-fluctuating spatially-periodic potentials. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 277-287. | 1.2 | 1 |
| 71 | Combined Effects of Frequency Quantization and Additive Input Noise in a First-order Digital PLL. <i>Electronic Notes in Theoretical Computer Science</i> , 2009, 225, 255-268. | 0.9 | 0 |
| 72 | Study on the Combined Effects of Solvent Evaporation and Polymer Flow upon Block Copolymer Self-Assembly and Alignment on Topographic Patterns. <i>Langmuir</i> , 2009, 25, 13551-13560. | 1.6 | 30 |

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|----|--|-----|-----------|
| 73 | Diffusion coefficient in periodic and random potentials. Physical Review E, 2009, 80, 021123. | 0.8 | 13 |
| 74 | Analytical Approach to Bond Percolation on Clustered Networks. Studies in Computational Intelligence, 2009, , 147-159. | 0.7 | 0 |
| 75 | Cascades on correlated and modular random networks. Physical Review E, 2008, 77, 046117. | 0.8 | 180 |
| 76 | Mean size of avalanches on directed random networks with arbitrary degree distributions. Physical Review E, 2008, 77, 057101. | 0.8 | 19 |
| 77 | An analytical approach to cascades on random networks. , 2007, 6601, 214. | | 5 |
| 78 | A simple model for 1/f spectra in heart rate variability. , 2007, , . | | 0 |
| 79 | Seed size strongly affects cascades on random networks. Physical Review E, 2007, 75, 056103. | 0.8 | 183 |
| 80 | Phase Diffusion Coefficient for Oscillators Perturbed by Colored Noise. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 435-439. | 2.3 | 20 |
| 81 | Fabrication of Nanopore Array Electrodes by Focused Ion Beam Milling. Analytical Chemistry, 2007, 79, 3048-3055. | 3.2 | 192 |
| 82 | Selection of Processing Temperature to Minimize Product Temperature Variability in Food Heating Processes. Food and Bioproducts Processing, 2007, 85, 344-353. | 1.8 | 6 |
| 83 | Non-Lorentzian Spectral Lineshapes Near a Hopf Bifurcation. SIAM Journal on Applied Mathematics, 2006, 66, 1669-1688. | 0.8 | 13 |
| 84 | The mean field of weakly coupled oscillators exhibits non-smooth phase noise. Europhysics Letters, 2006, 73, 328-334. | 0.7 | 4 |
| 85 | Analytical approach to sorting in periodic and random potentials. Physical Review E, 2006, 73, 041102. | 0.8 | 32 |
| 86 | ROLE OF INTERACTION ON NOISE-INDUCED TRANSPORT OF TWO COUPLED PARTICLES IN BROWNIAN RATCHET DEVICES. Fluctuation and Noise Letters, 2006, 06, L263-L277. | 1.0 | 4 |
| 87 | <title>Motion in dynamical disorder: applications to 1/f noise and oscillator phase jitter</title>. , 2005, , . | | 0 |
| 88 | <title>Dynamics of two coupled particles: comparison of Lennard-Jones and spring forces</title>. , 2005, , . | | 0 |
| 89 | Amplitude-phase coupling effects on the spectral lineshape of oscillators. , 2005, , . | | 1 |
| 90 | Passive motion in dynamical disorder as a model for stock market prices. Physica A: Statistical Mechanics and Its Applications, 2005, 351, 523-550. | 1.2 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Transient micromixing: Examples of laminar and chaotic stirring. <i>Physics of Fluids</i> , 2005, 17, 100614. | 1.6 | 44 |
| 92 | Exactly solvable model of continuous stationary noise. <i>Physical Review E</i> , 2005, 72, 011106. | 0.8 | 9 |
| 93 | Modelling Annular Micromixers. <i>SIAM Journal on Applied Mathematics</i> , 2004, 64, 1294-1310. | 0.8 | 47 |
| 94 | Motion in random fields: an application to stock market data. , 2004, , . | | 0 |
| 95 | Structuring laminar flows using annular magnetohydrodynamic actuation. <i>Sensors and Actuators B: Chemical</i> , 2003, 96, 190-199. | 4.0 | 36 |
| 96 | Flatness of tracer density profile produced by a point source in turbulence. <i>Physics of Fluids</i> , 2003, 15, 3546-3557. | 1.6 | 3 |
| 97 | Exact solution for single-scale Gaussian random transport. <i>Physical Review E</i> , 2002, 65, 037103. | 0.8 | 4 |
| 98 | Comment on "Diffusion in biased turbulence". <i>Physical Review E</i> , 2002, 66, 038301; discussion 038302. | 0.8 | 7 |
| 99 | Application of magnetohydrodynamic actuation to continuous flow chemistry. Electronic supplementary information (ESI) available: figures depicting a silicon MHD microreactor, finite element solution for velocity profile in the silicon microreactor annulus, and the effect of MHD actuation conditions on the PCR product previously generated by conventional amplification methods and on the PCR reagents prior to thermocycling by conventional methods. See http://www.rsc.org/suppdata/lc/b2/h206756k/ . <i>Lab on A Chip</i> , 2002, 2, 224. | 3.1 | 166 |
| 100 | Electroosmotic Flows with Random Zeta Potential. <i>Journal of Colloid and Interface Science</i> , 2002, 249, 217-226. | 5.0 | 30 |
| 101 | A closure method for random advection of a passive scalar. <i>Physics of Fluids</i> , 2000, 12, 1472-1484. | 1.6 | 10 |
| 102 | Multilayer Networks. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 50 |
| 103 | A Framework for Analyzing Contagion in Banking Networks. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 17 |
| 104 | A Simple Generative Model of Collective Online Behaviour. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 4 |