

Colm P Connaughton

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9162433/publications.pdf>

Version: 2024-02-01

69
papers

1,931
citations

304368

22
h-index

253896

43
g-index

70
all docs

70
docs citations

70
times ranked

1723
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine-Learning-Based Forecasting of Dengue Fever in Brazilian Cities Using Epidemiologic and Meteorological Variables. American Journal of Epidemiology, 2022, 191, 1803-1812.	1.6	8
2	A Non-Parametric Hawkes Process Model of Primary and Secondary Accidents on a UK Smart Motorway. Journal of the Royal Statistical Society Series C: Applied Statistics, 2021, 70, 80-97.	0.5	5
3	Dynamic and Interpretable Hazard-Based Models of Traffic Incident Durations. Frontiers in Future Transportation, 2021, 2, .	1.3	4
4	Anomaly detection and classification in traffic flow data from fluctuations in the flow-density relationship. Transportation Research Part C: Emerging Technologies, 2021, 127, 103178.	3.9	16
5	Assessment of Reward Functions in Reinforcement Learning for Multi-Modal Urban Traffic Control under Real-World limitations. , 2021, , .		1
6	The drivers of systemic risk in financial networks: a data-driven machine learning analysis. Chaos, Solitons and Fractals, 2021, 153, 111588.	2.5	13
7	Disease and information spreading at different speeds in multiplex networks. Physical Review E, 2020, 102, 022312.	0.8	26
8	Narrative structure of A Song of Ice and Fire creates a fictional world with realistic measures of social complexity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28582-28588.	3.3	9
9	Role of zero clusters in exchange-driven growth with and without input. Physical Review E, 2020, 101, 052134.	0.8	1
10	Discovering Causal Factors of Drought in Ethiopia. , 2020, , .		0
11	Wavelet Augmented Regression Profiling (WARP): improved long-term estimation of travel time series with recurrent congestion. , 2020, , .		1
12	Assessment of Reward Functions for Reinforcement Learning Traffic Signal Control under Real-World Limitations. , 2020, , .		9
13	Epidemic spreading with awareness and different timescales in multiplex networks. Physical Review E, 2019, 100, 032313.	0.8	44
14	Stationary mass distribution and nonlocality in models of coalescence and shattering. Physical Review E, 2018, 97, 022137.	0.8	18
15	Micro electronic systems via multifunctional additive manufacturing. Rapid Prototyping Journal, 2018, 24, 752-763.	1.6	2
16	Estimating Baseline Travel Times for the UK Strategic Road Network. , 2018, , .		4
17	Large Scale Performance Assessment of the Lighthill-Whitham-Richards Model on a Smart Motorway. , 2018, , .		0
18	Universality properties of steady driven coagulation with collisional evaporation. Europhysics Letters, 2017, 117, 10002.	0.7	9

#	ARTICLE	IF	CITATIONS
19	Fitness voter model: Damped oscillations and anomalous consensus. <i>Physical Review E</i> , 2017, 96, 032313.	0.8	10
20	Grid-scale fluctuations and forecast error in wind power. <i>New Journal of Physics</i> , 2016, 18, 023015.	1.2	12
21	Integration of additive manufacturing and inkjet printed electronics: a potential route to parts with embedded multifunctionality. <i>Manufacturing Review</i> , 2016, 3, 12.	0.9	24
22	Dynamically controlled deposition of colloidal nanoparticle suspension in evaporating drops using laser radiation. <i>Soft Matter</i> , 2016, 12, 4530-4536.	1.2	32
23	Laser textured surface gradients. <i>Applied Surface Science</i> , 2016, 371, 583-589.	3.1	83
24	Importance sampling variance reduction for the Fokker-Planck rarefied gas particle method. <i>Journal of Computational Physics</i> , 2016, 325, 116-128.	1.9	11
25	Enabling Rapid Production and Mass Customisation of Electronics Using Digitally Driven Hybrid Additive Manufacturing Techniques. , 2016, , .		5
26	Hybrid additive manufacturing of 3D electronic systems. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 105005.	1.5	41
27	Laser textured superhydrophobic surfaces and their applications for homogeneous spot deposition. <i>Applied Surface Science</i> , 2016, 365, 153-159.	3.1	236
28	Generation of superhydrophobic surfaces and wettability gradients on metallic substrates by nanosecond laser irradiation. , 2015, , .		0
29	Explosive condensation in symmetric mass transport models. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P11031.	0.9	10
30	Nanosecond laser textured superhydrophobic metallic surfaces and their chemical sensing applications. <i>Applied Surface Science</i> , 2015, 357, 248-254.	3.1	298
31	Rossby and drift wave turbulence and zonal flows: The Charney-Hasegawa-Mima model and its extensions. <i>Physics Reports</i> , 2015, 604, 1-71.	10.3	34
32	Wave turbulence in the two-layer ocean model. <i>Journal of Fluid Mechanics</i> , 2014, 756, 309-327.	1.4	2
33	Combining Gaussian processes, mutual information and a genetic algorithm for multi-target optimization of expensive-to-evaluate functions. <i>Engineering Optimization</i> , 2014, 46, 1593-1607.	1.5	30
34	Non-equilibrium Phase Diagram for a Model with Coalescence, Evaporation and Deposition. <i>Journal of Statistical Physics</i> , 2013, 152, 1115-1144.	0.5	4
35	Percolation transition in the kinematics of nonlinear resonance broadening in Charney-Hasegawa-Mima model of Rossby wave turbulence. <i>New Journal of Physics</i> , 2013, 15, 083011.	1.2	9
36	Nonlinear least-squares method for the inverse droplet coagulation problem. <i>Physical Review E</i> , 2013, 88, 012138.	0.8	0

#	ARTICLE	IF	CITATIONS
37	Driven Brownian coagulation of polymers. <i>Journal of Chemical Physics</i> , 2012, 136, 204901.	1.2	11
38	Collective Oscillations in Irreversible Coagulation Driven by Monomer Inputs and Large-Cluster Outputs. <i>Physical Review Letters</i> , 2012, 109, 168304.	2.9	31
39	Application of dimensionality reduction to visualisation of high-throughput data and building of a classification model in formulated consumer product design. <i>Chemical Engineering Research and Design</i> , 2012, 90, 2179-2185.	2.7	9
40	The modulational instability in the extended Hasegawa-Mima equation with a finite Larmor radius. <i>Physics of Plasmas</i> , 2012, 19, 122115.	0.7	12
41	Externally forced triads of resonantly interacting waves: Boundedness and integrability properties. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 4988-5006.	1.7	14
42	Developing homogeneous isotropic turbulence. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 232-236.	1.3	7
43	Interactions of point vortices in the Zabusky-McWilliams model with a background flow. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2012, 17, 1795-1807.	0.5	0
44	Feedback of zonal flows on wave turbulence driven by small-scale instability in the Charney-Hasegawa-Mima model. <i>Europhysics Letters</i> , 2011, 96, 25001.	0.7	20
45	Some remarks on the inverse Smoluchowski problem for cluster-cluster aggregation. <i>Journal of Physics: Conference Series</i> , 2011, 333, 012005.	0.3	1
46	Mixed flux-equipartition solutions of a diffusion model of nonlinear cascades. <i>Europhysics Letters</i> , 2011, 95, 24005.	0.7	3
47	Instantaneous gelation in Smoluchowski's coagulation equation revisited. <i>Physical Review E</i> , 2011, 84, 011111.	0.8	19
48	Modulational instability of Rossby and drift waves and generation of zonal jets. <i>Journal of Fluid Mechanics</i> , 2010, 654, 207-231.	1.4	56
49	Aggregation and fragmentation processes and decaying three-wave turbulence. <i>Physical Review E</i> , 2010, 81, 035303.	0.8	13
50	Dynamical scaling and the finite-capacity anomaly in three-wave turbulence. <i>Physical Review E</i> , 2010, 81, 036303.	0.8	18
51	Scaling properties of one-dimensional cluster-cluster aggregation with Levy diffusion. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P05003.	0.9	0
52	On the non-equilibrium phase transition in evaporation and deposition models. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P09016.	0.9	2
53	Probability distribution of power fluctuations in turbulence. <i>Physical Review E</i> , 2009, 79, 016309.	0.8	9
54	Numerical solutions of the isotropic 3-wave kinetic equation. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 2282-2297.	1.3	24

#	ARTICLE	IF	CITATIONS
55	Craig's $\langle X \rangle \langle Y \rangle$ distribution and the statistics of Lagrangian power in two-dimensional turbulence. Physical Review E, 2008, 77, 036318.	0.8	17
56	Constant flux relation for diffusion-limited cluster-cluster aggregation. Physical Review E, 2008, 78, 041403.	0.8	9
57	Dynamics of Energy Condensation in Two-Dimensional Turbulence. Physical Review Letters, 2007, 99, 084501.	2.9	133
58	Constant Flux Relation for Driven Dissipative Systems. Physical Review Letters, 2007, 98, 080601.	2.9	14
59	Constant flux relation for aggregation models with desorption and fragmentation. Physica A: Statistical Mechanics and Its Applications, 2007, 384, 108-114.	1.2	5
60	Cluster-cluster aggregation as an analogue of a turbulent cascade: Kolmogorov phenomenology, scaling laws and the breakdown of self-similarity. Physica D: Nonlinear Phenomena, 2006, 222, 97-115.	1.3	25
61	Condensation of Classical Nonlinear Waves. Physical Review Letters, 2005, 95, 263901.	2.9	168
62	Breakdown of Kolmogorov Scaling in Models of Cluster Aggregation. Physical Review Letters, 2005, 94, 194503.	2.9	23
63	Stationary Kolmogorov solutions of the Smoluchowski aggregation equation with a source term. Physical Review E, 2004, 69, 061114.	0.8	35
64	Warm Cascades and Anomalous Scaling in a Diffusion Model of Turbulence. Physical Review Letters, 2004, 92, 044501.	2.9	82
65	Kinetic theory and Bose-Einstein condensation. Comptes Rendus Physique, 2004, 5, 91-106.	0.3	21
66	Non-stationary spectra of local wave turbulence. Physica D: Nonlinear Phenomena, 2003, 184, 64-85.	1.3	32
67	Dimensional analysis and weak turbulence. Physica D: Nonlinear Phenomena, 2003, 184, 86-97.	1.3	58
68	Structure functions and breakdown criteria for wave turbulence. Physica D: Nonlinear Phenomena, 2003, 184, 98-113.	1.3	17
69	Discreteness and quiresonances in weak turbulence of capillary waves. Physical Review E, 2001, 63, 046306.	0.8	32