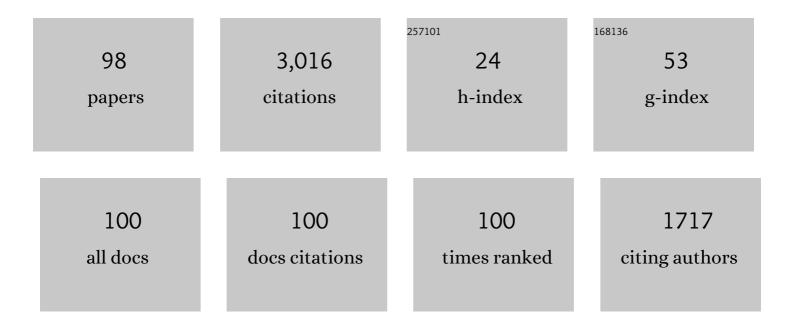
Bruce Henry

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A General Framework for Fractional Order Compartment Models. SIAM Review, 2021, 63, 375-392.	4.2	6
2	Generalized fractional power series solutions for fractional differential equations. Applied Mathematics Letters, 2020, 102, 106107.	1.5	16
3	Time Fractional Fisher–KPP and Fitzhugh–Nagumo Equations. Entropy, 2020, 22, 1035.	1.1	10
4	Intrinsic Discontinuities in Solutions of Evolution Equations Involving Fractional Caputo–Fabrizio and Atangana–Baleanu Operators. Mathematics, 2020, 8, 2023.	1.1	13
5	Numeric solution of advection–diffusion equations by a discrete time random walk scheme. Numerical Methods for Partial Differential Equations, 2020, 36, 680-704.	2.0	4
6	An explicit numerical scheme for solving fractional order compartment models from the master equations of a stochastic process. Communications in Nonlinear Science and Numerical Simulation, 2019, 68, 188-202.	1.7	9
7	Time-fractional geometric Brownian motion from continuous time random walks. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 121002.	1.2	7
8	A biofilm and organomineralisation model for the growth and limiting size of ooids. Scientific Reports, 2018, 8, 559.	1.6	24
9	Noise induced aperiodic rotations of particles trapped by a non-conservative force. Chaos, 2018, 28, 043101.	1.0	2
10	Subdiffusive discrete time random walks via Monte Carlo and subordination. Journal of Computational Physics, 2018, 372, 373-384.	1.9	7
11	Integrablization of time fractional PDEs. Computers and Mathematics With Applications, 2017, 73, 1053-1062.	1.4	2
12	Fractional Order Compartment Models. SIAM Journal on Applied Mathematics, 2017, 77, 430-446.	0.8	35
13	A time-fractional generalised advection equation from a stochastic process. Chaos, Solitons and Fractals, 2017, 102, 175-183.	2.5	16
14	Fractional Euler Limits and their Applications. SIAM Journal on Applied Mathematics, 2017, 77, 447-469.	0.8	5
15	Generalized master equations and fractional Fokker–Planck equations from continuous time random walks with arbitrary initial conditions. Computers and Mathematics With Applications, 2017, 73, 1315-1324.	1.4	6
16	Generalized fractional diffusion equations for subdiffusion in arbitrarily growing domains. Physical Review E, 2017, 96, 042153.	0.8	12
17	Discretization of fractional differential equations by a piecewise constant approximation. Mathematical Modelling of Natural Phenomena, 2017, 12, 23-36.	0.9	5
18	A Fractional-Order Infectivity and Recovery SIR Model. Fractal and Fractional, 2017, 1, 11.	1.6	24

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19	A Fractional Order Recovery SIR Model from a Stochastic Process. Bulletin of Mathematical Biology, 2016, 78, 468-499.	0.9	64
20	Nonconservative dynamics of optically trapped high-aspect-ratio nanowires. Physical Review E, 2016, 93, 022137.	0.8	12
21	A Mathematical Model for the Proliferation, Accumulation and Spread of Pathogenic Proteins Along Neuronal Pathways with Locally Anomalous Trapping. Mathematical Modelling of Natural Phenomena, 2016, 11, 142-156.	0.9	4
22	From stochastic processes to numerical methods: A new scheme for solving reaction subdiffusion fractional partial differential equations. Journal of Computational Physics, 2016, 307, 508-534.	1.9	24
23	A fractional-order infectivity SIR model. Physica A: Statistical Mechanics and Its Applications, 2016, 452, 86-93.	1.2	62
24	Fractal Dimension Analysis of Transient Visual Evoked Potentials: Optimisation and Applications. PLoS ONE, 2016, 11, e0161565.	1.1	5
25	Patterning of the MinD cell division protein in cells of arbitrary shape can be predicted using a heuristic dispersion relation. AIMS Biophysics, 2016, 3, 119-145.	0.3	4
26	Predicting First Traversal Times for Virions and Nanoparticles in Mucus with Slowed Diffusion. Biophysical Journal, 2015, 109, 164-172.	0.2	13
27	Generalized Continuous Time Random Walks, Master Equations, and Fractional FokkerPlanck Equations. SIAM Journal on Applied Mathematics, 2015, 75, 1445-1468.	0.8	26
28	A discrete time random walk model for anomalous diffusion. Journal of Computational Physics, 2015, 293, 53-69.	1.9	15
29	Anomalous dynamic behaviour of optically trapped high aspect ratio nanowires. , 2014, , .		Ο
30	Pattern formation on networks with reactions: A continuous-time random-walk approach. Physical Review E, 2013, 87, .	0.8	30
31	Turing Patterns from Dynamics of Early HIV Infection. Bulletin of Mathematical Biology, 2013, 75, 774-795.	0.9	59
32	Continuous-time random walks on networks with vertex- and time-dependent forcing. Physical Review E, 2013, 88, 022811.	0.8	12
33	Continuous Time Random Walks with Reactions Forcing and Trapping. Mathematical Modelling of Natural Phenomena, 2013, 8, 17-27.	0.9	59
34	Fractional Cable Equation Models for Anomalous Electrodiffusion in Nerve Cells: Finite Domain Solutions. SIAM Journal on Applied Mathematics, 2011, 71, 1168-1203.	0.8	59
35	Lagging and leading coupled continuous time random walks, renewal times and their joint limits. Stochastic Processes and Their Applications, 2011, 121, 324-336.	0.4	50
36	Continuous-time random walks that alter environmental transport properties. Physical Review E, 2011, 84, 061146.	0.8	9

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37	Fractional Fokker-Planck Equations for Subdiffusion with Space- and Time-Dependent Forces. Physical Review Letters, 2010, 105, 170602.	2.9	114
38	Fractional chemotaxis diffusion equations. Physical Review E, 2010, 81, 051102.	0.8	61
39	Dynamics of chromatic visual system processing differ in complexity between children and adults. Journal of Vision, 2009, 9, 22-22.	0.1	9
40	The Electrotonic Structure of Pyramidal Neurons Contributing to Prefrontal Cortical Circuits in Macaque Monkeys Is Significantly Altered in Aging. Cerebral Cortex, 2009, 19, 2248-2268.	1.6	82
41	Fractional cable equation models for anomalous electrodiffusion in nerve cells: infinite domain solutions. Journal of Mathematical Biology, 2009, 59, 761-808.	0.8	123
42	Fractional Cable Models for Spiny Neuronal Dendrites. Physical Review Letters, 2008, 100, 128103.	2.9	158
43	The correlation dimension: A useful objective measure of the transient visual evoked potential?. Journal of Vision, 2008, 8, 6.	0.1	30
44	Anomalous subdiffusion with multispecies linear reaction dynamics. Physical Review E, 2008, 77, 021111.	0.8	77
45	Chemical diffusion in amphoteric oxide semiconductors. Advances in Applied Ceramics, 2007, 106, 77-81.	0.6	5
46	Turing pattern formation with fractional diffusion and fractional reactions. Journal of Physics Condensed Matter, 2007, 19, 065115.	0.7	40
47	Functionally relevant measures of spatial complexity in neuronal dendritic arbors. Journal of Theoretical Biology, 2006, 238, 505-526.	0.8	21
48	Anomalous diffusion with linear reaction dynamics: From continuous time random walks to fractional reaction-diffusion equations. Physical Review E, 2006, 74, 031116.	0.8	210
49	The accuracy and stability of an implicit solution method for the fractional diffusion equation. Journal of Computational Physics, 2005, 205, 719-736.	1.9	464
50	Statistical physics and stromatolite growth: new perspectives on an ancient dilemma. Physica A: Statistical Mechanics and Its Applications, 2005, 350, 6-11.	1.2	21
51	Turing pattern formation in fractional activator-inhibitor systems. Physical Review E, 2005, 72, 026101.	0.8	98
52	Estimating chromatic contrast thresholds from the transient visual evoked potential. Vision Research, 2005, 45, 2367-2383.	0.7	11
53	A case for biotic morphogenesis of coniform stromatolites. Physica A: Statistical Mechanics and Its Applications, 2004, 337, 319-326.	1.2	56
54	Mathematical and Image Analysis of Stromatolite Morphogenesis. Mathematical Geosciences, 2003, 35, 789-803.	0.9	13

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55	Random walks on finite lattice tubes. Physical Review E, 2003, 68, 016112.	0.8	10
56	MULTIFRACTAL MEASURES IN FRACTIONAL ITERATIVE MAPS. Fractals, 2002, 10, 229-233.	1.8	1
57	Exact solution for random walks on the triangular lattice with absorbing boundaries. Journal of Physics A, 2002, 35, 5951-5959.	1.6	9
58	Existence of Turing Instabilities in a Two-Species Fractional Reaction-Diffusion System. SIAM Journal on Applied Mathematics, 2002, 62, 870-887.	0.8	171
59	Deterministic diffusion generated by a chaotic map with intrinsic bias. Chaos, Solitons and Fractals, 2002, 14, 681-687.	2.5	1
60	Gene Stanley, the n-vector model and random walks with absorbing boundaries. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 77-82.	1.2	3
61	Chaotic features in fractional iterative maps. Physica A: Statistical Mechanics and Its Applications, 2002, 315, 40-44.	1.2	Ο
62	Deterministic KPZ model for stromatolite laminae. Physica A: Statistical Mechanics and Its Applications, 2000, 282, 123-136.	1.2	32
63	Fractional reaction–diffusion. Physica A: Statistical Mechanics and Its Applications, 2000, 276, 448-455.	1.2	271
64	Continuum model for radial interface growth. Physica A: Statistical Mechanics and Its Applications, 1998, 260, 11-19.	1.2	13
65	Mean-field analysis of Williams–Bjerknes-type growth. Physica A: Statistical Mechanics and Its Applications, 1998, 256, 295-311.	1.2	3
66	Resonance energy transfers in the induction phenomenon in quartic Fermi-Pasta-Ulam chains. Physical Review E, 1998, 58, 3045-3054.	0.8	6
67	Surface width scaling in noise reduced Eden clusters. Physical Review E, 1998, 58, 4023-4026.	0.8	3
68	Statistical surface distributions for constant-energy ensembles. Canadian Journal of Physics, 1997, 75, 539-547.	0.4	1
69	Who cares what's new?. Nature, 1997, 387, 337-337.	13.7	3
70	Growth and form of zero-noise diffusion-limited-aggregation on the cubic lattice. Physica A: Statistical Mechanics and Its Applications, 1996, 233, 905-918.	1.2	2
71	PATTERN FORMATION IN AN ETCHED RADIAL HELE SHAW CELL. Fractals, 1996, 04, 149-159.	1.8	2
72	New equipartition results for normal mode energies of anharmonic chains. Journal of Statistical Physics, 1995, 78, 1039-1053.	0.5	2

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73	Comparative study of large-scale Laplacian growth patterns. Physical Review E, 1995, 51, 807-810.	0.8	6
74	From dynamics to statistical mechanics in the Hénon-Heiles model: Dynamics. Physical Review E, 1994, 49, 2549-2558.	0.8	5
75	Diffusion-limited aggregation with Eden growth surface kinetics. Physica A: Statistical Mechanics and Its Applications, 1994, 203, 566-582.	1.2	3
76	Growth and form in the zero-noise limit of discrete Laplacian growth processes with inherent surface tension. Physica A: Statistical Mechanics and Its Applications, 1993, 193, 553-574.	1.2	8
77	Tip lengths and whiskering in noise-reduced diffusion-limited aggregation. Journal of Physics A, 1993, 26, 3431-3440.	1.6	2
78	Branching in the zero-noise limit of discrete Laplacian growth processes. Physical Review A, 1992, 45, 4180-4183.	1.0	14
79	Growth and form in the zero-noise limit of discrete Laplacian growth processes with inherent surface tension. Physica A: Statistical Mechanics and Its Applications, 1992, 187, 551-574.	1.2	11
80	Fractal dimensions of zero-noise diffusion-limited aggregation. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 113-116.	1.2	6
81	Limits to Eden growth in two and three dimensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 157, 229-236.	0.9	29
82	Perturbative calculation of superperiod recurrence times in nonlinear chains. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 159, 21-27.	0.9	7
83	Exact solutions for restricted walks with applications to polymers. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 153, 35-39.	0.9	0
84	Recurrence times in cubic and quartic Fermi-Pasta-Ulam chains: A shifted-frequency perturbation treatment. Physical Review A, 1991, 44, 6364-6374.	1.0	16
85	Chaos in a chain of six particles with fixed ends (a 4+2 chain). Physical Review A, 1991, 44, 4876-4884.	1.0	3
86	Integrability of Low Particle-number Models for Solids. Australian Journal of Physics, 1991, 44, 1.	0.6	0
87	Numerical ensemble study of ergodic properties of the quartic Fermi-Pasta-Ulam chain. II. Distribution and correlation functions. Physical Review A, 1989, 40, 392-403.	1.0	2
88	Numerical ensemble study of ergodic properties of the quartic Fermi-Pasta-Ulam chain. Physical Review A, 1988, 38, 2594-2604.	1.0	9
89	Reversible approach to statistical equilibrium in a nonlinear chain: An ensemble study. Physica D: Nonlinear Phenomena, 1987, 28, 49-79.	1.3	13
90	Numerical ensemble study of the approach to equilibrium of an anharmonic chain. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 119, 215-220.	0.9	7

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91	Dynamics and statistical mechanics of a diatomic φ4 chain. Solid State Communications, 1985, 55, 587-592.	0.9	4
92	Dynamics of a Nonlinear Diatomic Chain. III. A Molecular Dynamics Study. Australian Journal of Physics, 1985, 38, 191.	0.6	2
93	Dynamics of a Nonlinear Diatomic Chain. II. Thermodynamic Properties. Australian Journal of Physics, 1985, 38, 171.	0.6	5
94	Classical freeâ€energy densities for harmonic chains: A pedagogic application of the transfer integral technique. American Journal of Physics, 1984, 52, 1016-1020.	0.3	0
95	Polarization shift of spectral lines in high density plasmas. Optics Communications, 1983, 44, 185-187.	1.0	4
96	Spectral line limiting and polarization shift in plasmas of high particle and energy density. Laser and Particle Beams, 1983, 1, 11-28.	0.4	7
97	Dynamics of a Nonlinear Diatomic Chain. Australian Journal of Physics, 1983, 36, 339.	0.6	10
98	Nonlinear excitations in a diatomic chain. Solid State Communications, 1982, 44, 511-514.	0.9	7