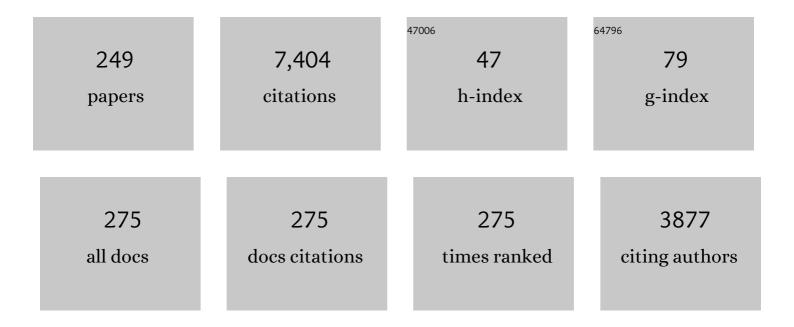
Peter V E Mcclintock

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|--------|-----------|
| 1 | Vibrational resonance. Journal of Physics A, 2000, 33, L433-L438. | 1.6 | 354 |
| 2 | Observation of an Inverse Energy Cascade in Developed Acoustic Turbulence in Superfluid Helium. Physical Review Letters, 2008, 101, 065303. | 7.8 | 336 |
| 3 | Nonlinear dynamics of cardiovascular ageing. Physics Reports, 2010, 488, 51-110. | 25.6 | 315 |
| 4 | Generation of defects in superfluid 4He as an analogue of the formation of cosmic strings. Nature, 1994, 368, 315-317. | 27.8 | 224 |
| 5 | Bistability driven by colored noise: Theory and experiment. Physical Review A, 1985, 32, 695-698. | 2.5 | 206 |
| 6 | Stochastic resonance in perspective. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1995, 17, 661-683. | 0.4 | 178 |
| 7 | Reversible Transitions between Synchronization States of the Cardiorespiratory System. Physical Review Letters, 2000, 85, 4831-4834. | 7.8 | 160 |
| 8 | Analogue studies of nonlinear systems. Reports on Progress in Physics, 1998, 61, 889-997. | 20.1 | 158 |
| 9 | Comment on â€~â€~Stochastic resonance in bistable systems''. Physical Review Letters, 1990, 65, 2606-2 | 260.8. | 151 |
| 10 | Irreversibility of classical fluctuations studied in analogue electrical circuits. Nature, 1997, 389, 463-466. | 27.8 | 136 |
| 11 | Inference of Time-Evolving Coupled Dynamical Systems in the Presence of Noise. Physical Review Letters, 2012, 109, 024101. | 7.8 | 131 |
| 12 | Optimal paths and the prehistory problem for large fluctuations in noise-driven systems. Physical Review Letters, 1992, 68, 2718-2721. | 7.8 | 128 |
| 13 | Extraction of instantaneous frequencies from ridges in time–frequency representations of signals. Signal Processing, 2016, 125, 290-303. | 3.7 | 127 |
| 14 | Nonappearance of Vortices in Fast Mechanical Expansions of Liquid4Hethrough the Lambda Transition. Physical Review Letters, 1998, 81, 3703-3706. | 7.8 | 122 |
| 15 | Oscillatory dynamics of vasoconstriction and vasodilation identified by time-localized phase coherence. Physics in Medicine and Biology, 2011, 56, 3583-3601. | 3.0 | 120 |
| 16 | Interactions between cardiac, respiratory and EEG-δoscillations in rats during anaesthesia. Journal of Physiology, 2007, 580, 315-326. | 2.9 | 105 |
| 17 | Direction of Coupling from Phases of Interacting Oscillators: A Permutation Information Approach. Physical Review Letters, 2008, 100, 084101. | 7.8 | 100 |
| 18 | Rogue waves – towards a unifying concept?: Discussions and debates. European Physical Journal: Special Topics, 2010, 185, 5-15. | 2.6 | 100 |

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| 19 | Decay of quantized vorticity in superfluid 4He at mK temperatures. Physica B: Condensed Matter, 2000, 280, 43-44. | 2.7 | 99 |
| 20 | Low-frequency blood flow oscillations in congestive heart failure and after β1-blockade treatment. Microvascular Research, 2008, 76, 224-232. | 2.5 | 95 |
| 21 | Rogue waves in superfluid helium. European Physical Journal: Special Topics, 2010, 185, 181-193. | 2.6 | 95 |
| 22 | Evolution of cardiorespiratory interactions with age. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110622. | 3.4 | 95 |
| 23 | Nonlinear mode decomposition: A noise-robust, adaptive decomposition method. Physical Review E, 2015, 92, 032916. | 2.1 | 94 |
| 24 | Positive-Ionic Mobility and a Hierarchy of Ions in Normal LiquidHe3. Physical Review Letters, 1977, 39, 1544-1547. | 7.8 | 93 |
| 25 | Noise in nonlinear dynamical systems. Contemporary Physics, 1990, 31, 179-194. | 1.8 | 91 |
| 26 | What can stochastic resonance do?. Nature, 1998, 391, 344-344. | 27.8 | 91 |
| 27 | Continuous flow apparatus for preparing isotopically pure 4He. Cryogenics, 1987, 27, 131-138. | 1.7 | 84 |
| 28 | Multi-switching combination synchronization of chaotic systems. Nonlinear Dynamics, 2015, 80, 845-854. | 5.2 | 83 |
| 29 | ITÔ VERSUS STRATONOVICH: 30 YEARS LATER. Fluctuation and Noise Letters, 2012, 11, 1240010. | 1.5 | 82 |
| 30 | Inference of a Nonlinear Stochastic Model of the Cardiorespiratory Interaction. Physical Review Letters, 2005, 94, 098101. | 7.8 | 79 |
| 31 | Stochastic resonance in electrical circuits. I. Conventional stochastic resonance. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1999, 46, 1205-1214. | 2.2 | 75 |
| 32 | Testing for time-localized coherence in bivariate data. Physical Review E, 2012, 85, 046205. | 2.1 | 75 |
| 33 | Corrals and Critical Behavior of the Distribution of Fluctuational Paths. Physical Review Letters, 1996, 77, 5229-5232. | 7.8 | 72 |
| 34 | The discriminatory value of cardiorespiratory interactions in distinguishing awake from anaesthetised states: a randomised observational study. Anaesthesia, 2015, 70, 1356-1368. | 3.8 | 71 |
| 35 | Vortex Nucleation in Isotopically Pure SuperfluidHe4. Physical Review Letters, 1980, 44, 161-164. | 7.8 | 66 |
| 36 | COHERENCE BETWEEN FLUCTUATIONS IN BLOOD FLOW AND OXYGEN SATURATION. Fluctuation and Noise Letters, 2012, 11, 1240013. | 1.5 | 65 |

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| 37 | Coupling functions in networks of oscillators. New Journal of Physics, 2015, 17, 035002. | 2.9 | 65 |
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| 39 | Unsolved problems of noise. Nature, 1999, 401, 23-25. | 27.8 | 60 |
| 40 | Transition to Turbulence for a Quartz Tuning Fork inÂSuperfluid 4He. Journal of Low Temperature Physics, 2009, 156, 116-131. | 1.4 | 59 |
| 41 | An apparatus for preparing isotopically pure He4. Cryogenics, 1978, 18, 201-208. | 1.7 | 55 |
| 42 | Zero-dispersion phenomena in oscillatory systems. Physics Reports, 2003, 373, 247-408. Excimers cmml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" | 25.6 | 55 |
| 43 | display= inline > <mml:msubsup><mml:mi>He</mml:mi><mml:mn>2</mml:mn><mml:mo>"</mml:mo>Tracers of Quantum Turbulence in<mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts></mml:mprescripts><mml:none /><mml:mn>4</mml:mn><mml:mmultiscripts></mml:mmultiscripts></mml:none </mml:mmultiscripts></mml:math>in the<mml:math< td=""><td>nsubsup>< 7.8</td><td>:/mmi:math>a</td></mml:math<></mml:msubsup> | nsubsup>< 7.8 | :/mmi:math>a |
| 44 | Coherence and Coupling Functions Reveal Microvascular Impairment in Treated Hypertension. Frontiers in Physiology, 2017, 8, 749. | 2.8 | 52 |
| 45 | Dynamical Bayesian inference of time-evolving interactions: From a pair of coupled oscillators to networks of oscillators. Physical Review E, 2012, 86, 061126. | 2.1 | 50 |
| 46 | Neural Cross-Frequency Coupling Functions. Frontiers in Systems Neuroscience, 2017, 11, 33. | 2.5 | 50 |
| 47 | A new form of energy dissipation by a moving object in He II. Nature, 1985, 316, 797-799. | 27.8 | 49 |
| 48 | Noise-induced escape in an excitable system. Physical Review E, 2013, 87, . | 2.1 | 49 |
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| 50 | Nonconventional stochastic resonance. Journal of Statistical Physics, 1993, 70, 479-499. | 1.2 | 48 |
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| 52 | Coulomb blockade model of permeation and selectivity in biological ion channels. New Journal of Physics, 2015, 17, 083021. | 2.9 | 44 |
| 53 | Phase Synchronization between Several Interacting Processes from Univariate Data. Physical Review Letters, 2001, 86, 1749-1752. | 7.8 | 42 |
| 54 | Postponed bifurcations of a ring-laser model with a swept parameter and additive colored noise. Physical Review A, 1987, 35, 2560-2566. | 2.5 | 40 |

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| 56 | Experiments on Critical Phenomena in a Noisy Exit Problem. Physical Review Letters, 1997, 79, 3109-3112. | 7.8 | 39 |
| 57 | Fluctuations and the Energy-Optimal Control of Chaos. Physical Review Letters, 2000, 85, 2100-2103. | 7.8 | 38 |
| 58 | Observation of Saddle-Point Avoidance in Noise-Induced Escape. Physical Review Letters, 1999, 82, 1806-1809. | 7.8 | 37 |
| 59 | The effect of low-frequency oscillations on cardio-respiratory synchronization. European Physical Journal B, 2008, 65, 425-433. | 1.5 | 37 |
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| 62 | Kramers Problem for a Multiwell Potential. Physical Review Letters, 2000, 84, 2556-2559. | 7.8 | 35 |
| 63 | A tutorial on time-evolving dynamical Bayesian inference. European Physical Journal: Special Topics, 2014, 223, 2685-2703. | 2.6 | 35 |
| 64 | Nonlinear behaviour of positive ions in normal liquid3He: a comparison between experiment and a parameterless theoretical prediction. Journal of Physics C: Solid State Physics, 1978, 11, L881-L885. | 1.5 | 34 |
| 65 | Resonances while surmounting a fluctuating barrier. Physical Review E, 2000, 61, 1170-1175. | 2.1 | 34 |
| 66 | Optimal positioning of field emitters for ion injection in liquid helium. Cryogenics, 1979, 19, 535-536. Behavior of guartz forks oscillating in isotopically pure simulting the second second second second second second | 1.7 | 31 |
| 67 | xmins:mml= http://www.w3.org/1998/Wath/MathWL_display= inline > <mml:msup><mml:mrow /><mml:mn>4</mml:mn></mml:mrow </mml:msup> He in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>T</mml:mi><mml:math< td=""><td>3.2</td><td>31</td></mml:math<></mml:math | 3.2 | 31 |
| 68 | Detecting the harmonics of oscillations with time-variable frequencies. Physical Review E, 2011, 83, 016206. | 2.1 | 30 |
| 69 | Resonant rectification of fluctuations in a Brownian ratchet. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 273, 316-321. Dissipation of Quasiclassical Turbulence in Superfluid (mml:math | 2.1 | 29 |
| 70 | xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < mml:mrow> < mml:mmultiscripts> < mml:mrow> < mml:mi>He < mml:mpr /> < mml:none /> < mml:mrow> < mml:mn>4 | escripts 7.8 | 29 |
| 71 | Physical Review Letters, 2015, 115, 155303. Noiseâ€enhanced optical heterodyning in an allâ€optical bistable system. Applied Physics Letters, 1995, 67, 308-310. | 3.3 | 28 |
| 72 | Wave turbulence in quantum fluids. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4727-4734. | 7.1 | 28 |

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| 74 | Stochastic resonance in electrical circuits. II. Nonconventional stochastic resonance. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1999, 46, 1215-1224. | 2.2 | 25 |
| 75 | Vibrational resonances in driven oscillators with position-dependent mass. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200227. | 3.4 | 24 |
| 76 | Zero-Dispersion Nonlinear Resonance. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1997, 07, 923-936. | 1.7 | 23 |
| 77 | Noise and determinism in cardiovascular dynamics. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 69-76. | 2.6 | 23 |
| 78 | Multi-ion conduction bands in a simple model of calcium ion channels. Physical Biology, 2013, 10, 026007. Frequency-dependent drag from quantum turbulence produced by quartz tuning forks in | 1.8 | 23 |
| 79 | superfluid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">He<mml:mprescripts></mml:mprescripts><mml:none /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:none </mml:mi </mml:mmultiscripts>. Physical Review</mml:math | 3.2 | 23 |
| 80 | B. 2014, 89, Giant nonlinearity in the low-frequency response of a fluctuating bistable system. Physical Review E, 1993, 47, 1629-1632. | 2.1 | 22 |
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| 84 | Formation of a Direct Kolmogorov-Like Cascade of Second-Sound Waves in He II. Physical Review Letters, 2006, 97, 155301. | 7.8 | 20 |
| 85 | Physics of brain dynamics: Fokker–Planck analysis reveals changes in EEG Î′–Î, interactions in anæsthesia. New Journal of Physics, 2009, 11, 103051. | 2.9 | 20 |
| 86 | Dynamical inference: Where phase synchronization and generalized synchronization meet. Physical Review E, 2014, 89, 062909. | 2.1 | 20 |
| 87 | Quantum vibrational resonance in a dual-frequency-driven Tietz-Hua quantum well. Physical Review E, 2020, 101, 052216. | 2.1 | 20 |
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| 96 | Direct Measurement of the Critical Velocity AboveÂWhichÂaÂTuning Fork Generates Turbulence inÂSuperfluid Helium. Journal of Low Temperature Physics, 2010, 158, 456-461. | 1.4 | 16 |
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| 112 | Exploring the pore charge dependence of K ⁺ and Cl ^{â^²} permeation across a graphene monolayer: a molecular dynamics study. RSC Advances, 2019, 9, 20402-20414. | 3.6 | 12 |
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| 118 | A Quasiparticle Detector for Imaging Quantum Turbulence in Superfluid \$\$^3\$\$ 3 He-B. Journal of Low Temperature Physics, 2014, 175, 725-738. | 1.4 | 11 |
| 119 | Raceâ€specific differences in the phase coherence between blood flow and oxygenation: A simultaneous NIRS, white light spectroscopy and LDF study. Journal of Biophotonics, 2020, 13, e201960131. | 2.3 | 11 |
| 120 | On the damping of a vibrating grid in a viscous medium: the possible basis for an electrostatic viscometer. Journal of Physics E: Scientific Instruments, 1980, 13, 350-354. | 0.7 | 10 |
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| 132 | Response of a Mechanical Oscillator in Solid 4He. Journal of Low Temperature Physics, 2014, 175, 140-146. | 1.4 | 8 |
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| 134 | Vibrational and stochastic resonances in driven nonlinear systems: part 2. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20210003. | 3.4 | 8 |
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