

John G Milton

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

3,224
citations

201674

27
h-index

206112

48
g-index

51
all docs

51
docs citations

51
times ranked

1937
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | On-Off Intermittency in a Human Balancing Task. <i>Physical Review Letters</i> , 2002, 89, 158702. | 7.8 | 320 |
| 2 | Multistability and Delayed Recurrent Loops. <i>Physical Review Letters</i> , 1996, 76, 708-711. | 7.8 | 304 |
| 3 | The mind of expert motor performance is cool and focused. <i>NeuroImage</i> , 2007, 35, 804-813. | 4.2 | 267 |
| 4 | Dynamical Diseases. <i>Annals of the New York Academy of Sciences</i> , 1987, 504, 16-32. | 3.8 | 181 |
| 5 | The time-delayed inverted pendulum: Implications for human balance control. <i>Chaos</i> , 2009, 19, 026110. | 2.5 | 137 |
| 6 | Noise and critical behavior of the pupil light reflex at oscillation onset. <i>Physical Review A</i> , 1990, 41, 6992-7005. | 2.5 | 133 |
| 7 | Noise-induced transitions in human postural sway. <i>Physical Review E</i> , 1996, 54, 6681-6684. | 2.1 | 126 |
| 8 | Multistability in Recurrent Neural Loops Arising From Delay. <i>Journal of Neurophysiology</i> , 2000, 84, 975-985. | 1.8 | 126 |
| 9 | Human stick balancing: Tuning Lévy flights to improve balance control. <i>Chaos</i> , 2004, 14, 691-698. | 2.5 | 125 |
| 10 | Epileptic seizures: Quakes of the brain?. <i>Physical Review E</i> , 2010, 82, 021919. | 2.1 | 105 |
| 11 | Timing of Seizure Recurrence in Adult Epileptic Patients: A Statistical Analysis. <i>Epilepsia</i> , 1987, 28, 471-478. | 5.1 | 104 |
| 12 | Acceleration feedback improves balancing against reflex delay. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120763. | 3.4 | 101 |
| 13 | Modelling autonomous oscillations in the human pupil light reflex using non-linear delay-differential equations. <i>Bulletin of Mathematical Biology</i> , 1989, 51, 605-624. | 1.9 | 92 |
| 14 | Limit cycles, tori, and complex dynamics in a second-order differential equation with delayed negative feedback. <i>Journal of Dynamics and Differential Equations</i> , 1995, 7, 213-236. | 1.9 | 88 |
| 15 | On the Road to Automatic: Dynamic Aspects in the Development of Expertise. <i>Journal of Clinical Neurophysiology</i> , 2004, 21, 134-143. | 1.7 | 83 |
| 16 | Noise, multistability, and delayed recurrent loops. <i>Physical Review E</i> , 1997, 55, 4536-4543. | 2.1 | 80 |
| 17 | Complex dynamics and bifurcations in neurology. <i>Journal of Theoretical Biology</i> , 1989, 138, 129-147. | 1.7 | 76 |
| 18 | Balancing with Vibration: A Prelude for "Drift and Act" Balance Control. <i>PLoS ONE</i> , 2009, 4, e7427. | 2.5 | 73 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Balancing with positive feedback: the case for discontinuous control. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1181-1193. | 3.4 | 70 |
| 20 | Sensory uncertainty and stick balancing at the fingertip. Biological Cybernetics, 2014, 108, 85-101. | 1.3 | 61 |
| 21 | Dynamics of Self-Organized Delay Adaptation. Physical Review Letters, 1999, 82, 1594-1597. | 7.8 | 60 |
| 22 | Evaluation of pupil constriction and dilation from cycling measurements. Vision Research, 1990, 30, 515-525. | 1.4 | 54 |
| 23 | Control at stability's edge minimizes energetic costs: expert stick balancing. Journal of the Royal Society Interface, 2016, 13, 20160212. | 3.4 | 50 |
| 24 | Dynamic diseases in neurology and psychiatry. Chaos, 1995, 5, 8-13. | 2.5 | 48 |
| 25 | Balancing the unbalanced. Nature, 2003, 425, 911-912. | 27.8 | 47 |
| 26 | STATE-DEPENDENT NOISE AND HUMAN BALANCE CONTROL. Fluctuation and Noise Letters, 2004, 04, L107-L117. | 1.5 | 46 |
| 27 | Time delays and the control of biological systems: An overview—JM acknowledges support from the William R. Kenan, Jr. Charitable Trust.. IFAC-PapersOnLine, 2015, 48, 87-92. | 0.9 | 19 |
| 28 | Semidiscretization for Time-Delayed Neural Balance Control. SIAM Journal on Applied Dynamical Systems, 2015, 14, 1258-1277. | 1.6 | 19 |
| 29 | Microchaos in human postural balance: Sensory dead zones and sampled time-delayed feedback. Physical Review E, 2018, 98, 022223. | 2.1 | 18 |
| 30 | Acting together, destabilizing influences can stabilize human balance. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180126. | 3.4 | 18 |
| 31 | Quantization improves stabilization of dynamical systems with delayed feedback. Chaos, 2017, 27, 114306. | 2.5 | 16 |
| 32 | Delayed pursuit-escape as a model for virtual stick balancing. Nonlinear Theory and Its Applications IEICE, 2013, 4, 129-137. | 0.6 | 15 |
| 33 | Extension of Stability Radius to Neuromechanical Systems With Structured Real Perturbations. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1235-1242. | 4.9 | 15 |
| 34 | Vulnerability to paroxysmal oscillations in delayed neural networks: A basis for nocturnal frontal lobe epilepsy?. Chaos, 2011, 21, 047512. | 2.5 | 14 |
| 35 | An integrate-and-fire model for pulsatility in the neuroendocrine system. Chaos, 2020, 30, 083132. | 2.5 | 9 |
| 36 | Establishing metrics and control laws for the learning process: ball and beam balancing. Biological Cybernetics, 2020, 114, 83-93. | 1.3 | 9 |

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|----|--|-----|-----------|
| 37 | Response to perturbation during quiet standing resembles delayed state feedback optimized for performance and robustness. <i>Scientific Reports</i> , 2021, 11, 11392. | 3.3 | 9 |
| 38 | Mathematics as a Laboratory Tool. , 2014, , . | | 8 |
| 39 | Semi-discretization and the time-delayed PDA feedback control of human balance. <i>IFAC-PapersOnLine</i> , 2015, 48, 93-98. | 0.9 | 8 |
| 40 | Virtual stick balancing: sensorimotor uncertainties related to angular displacement and velocity. <i>Royal Society Open Science</i> , 2019, 6, 191006. | 2.4 | 6 |
| 41 | The effects of sensory quantization and control torque saturation on human balance control. <i>Chaos</i> , 2021, 31, 033145. | 2.5 | 6 |
| 42 | Modeling pulsativity in the hypothalamicâ€“pituitaryâ€“adrenal hormonal axis. <i>Scientific Reports</i> , 2022, 12, 8480. | 3.3 | 6 |
| 43 | DYNAMIC FEEDBACK AND THE DESIGN OF CLOSED-LOOP DRUG DELIVERY SYSTEMS. <i>Journal of Biological Systems</i> , 1995, 03, 711-718. | 1.4 | 5 |
| 44 | Stick Balancing with Feedback Delay, Sensory Dead Zone, Acceleration and Jerk Limitation. <i>Procedia IUTAM</i> , 2017, 22, 59-66. | 1.2 | 5 |
| 45 | Introduction to Focus Issue: Dynamical disease: A translational approach. <i>Chaos</i> , 2021, 31, 060401. | 2.5 | 5 |
| 46 | Noise as therapy: A prelude to computationally-based neurology?. <i>Annals of Neurology</i> , 2005, 58, 173-174. | 5.3 | 3 |
| 47 | Mathematics as a Laboratory Tool. , 2021, , . | | 3 |
| 48 | Outgrowing seizures in Childhood Absence Epilepsy: time delays and bistability. <i>Journal of Computational Neuroscience</i> , 2019, 46, 197-209. | 1.0 | 2 |
| 49 | Encephalopathy is the dose-limiting toxicity of intravenous hepsulfam: results of a phase I trial in patients with advanced hematological malignancies. <i>Cancer Chemotherapy and Pharmacology</i> , 1995, 36, 204-210. | 2.3 | 1 |