

# John G Milton

## List of Publications by Year in descending order

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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	Modeling pulsativity in the hypothalamicâ€“pituitaryâ€“adrenal hormonal axis. Scientific Reports, 2022, 12, 8480.	3.3	6
2	Mathematics as a Laboratory Tool. , 2021, , .		3
3	The effects of sensory quantization and control torque saturation on human balance control. Chaos, 2021, 31, 033145.	2.5	6
4	Response to perturbation during quiet standing resembles delayed state feedback optimized for performance and robustness. Scientific Reports, 2021, 11, 11392.	3.3	9
5	Introduction to Focus Issue: Dynamical disease: A translational approach. Chaos, 2021, 31, 060401.	2.5	5
6	An integrate-and-fire model for pulsatility in the neuroendocrine system. Chaos, 2020, 30, 083132.	2.5	9
7	Establishing metrics and control laws for the learning process: ball and beam balancing. Biological Cybernetics, 2020, 114, 83-93.	1.3	9
8	Acting together, destabilizing influences can stabilize human balance. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180126.	3.4	18
9	Outgrowing seizures in Childhood Absence Epilepsy: time delays and bistability. Journal of Computational Neuroscience, 2019, 46, 197-209.	1.0	2
10	Virtual stick balancing: sensorimotor uncertainties related to angular displacement and velocity. Royal Society Open Science, 2019, 6, 191006.	2.4	6
11	Microchaos in human postural balance: Sensory dead zones and sampled time-delayed feedback. Physical Review E, 2018, 98, 022223.	2.1	18
12	Quantization improves stabilization of dynamical systems with delayed feedback. Chaos, 2017, 27, 114306.	2.5	16
13	Stick Balancing with Feedback Delay, Sensory Dead Zone, Acceleration and Jerk Limitation. Procedia IUTAM, 2017, 22, 59-66.	1.2	5
14	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
15	Control at stability's edge minimizes energetic costs: expert stick balancing. Journal of the Royal Society Interface, 2016, 13, 20160212.	3.4	50
16	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
17	Semi-discretization and the time-delayed PDA feedback control of human balance. IFAC-PapersOnLine, 2015, 48, 93-98.	0.9	8
18	Semidiscretization for Time-Delayed Neural Balance Control. SIAM Journal on Applied Dynamical Systems, 2015, 14, 1258-1277.	1.6	19

#	ARTICLE	IF	CITATIONS
19	Mathematics as a Laboratory Tool. , 2014, , .		8
20	Sensory uncertainty and stick balancing at the fingertip. <i>Biological Cybernetics</i> , 2014, 108, 85-101.	1.3	61
21	Acceleration feedback improves balancing against reflex delay. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120763.	3.4	101
22	Delayed pursuit-escape as a model for virtual stick balancing. <i>Nonlinear Theory and Its Applications IEICE</i> , 2013, 4, 129-137.	0.6	15
23	Vulnerability to paroxysmal oscillations in delayed neural networks: A basis for nocturnal frontal lobe epilepsy?. <i>Chaos</i> , 2011, 21, 047512.	2.5	14
24	Epileptic seizures: Quakes of the brain?. <i>Physical Review E</i> , 2010, 82, 021919.	2.1	105
25	The time-delayed inverted pendulum: Implications for human balance control. <i>Chaos</i> , 2009, 19, 026110.	2.5	137
26	Balancing with positive feedback: the case for discontinuous control. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1181-1193.	3.4	70
27	Balancing with Vibration: A Prelude for "Drift and Act" Balance Control. <i>PLoS ONE</i> , 2009, 4, e7427.	2.5	73
28	The mind of expert motor performance is cool and focused. <i>NeuroImage</i> , 2007, 35, 804-813.	4.2	267
29	Noise as therapy: A prelude to computationally-based neurology?. <i>Annals of Neurology</i> , 2005, 58, 173-174.	5.3	3
30	Human stick balancing: Tuning Lévy flights to improve balance control. <i>Chaos</i> , 2004, 14, 691-698.	2.5	125
31	STATE-DEPENDENT NOISE AND HUMAN BALANCE CONTROL. <i>Fluctuation and Noise Letters</i> , 2004, 04, L107-L117.	1.5	46
32	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
33	Balancing the unbalanced. <i>Nature</i> , 2003, 425, 911-912.	27.8	47
34	On-Off Intermittency in a Human Balancing Task. <i>Physical Review Letters</i> , 2002, 89, 158702.	7.8	320
35	Multistability in Recurrent Neural Loops Arising From Delay. <i>Journal of Neurophysiology</i> , 2000, 84, 975-985.	1.8	126
36	Dynamics of Self-Organized Delay Adaptation. <i>Physical Review Letters</i> , 1999, 82, 1594-1597.	7.8	60

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37	Noise, multistability, and delayed recurrent loops. <i>Physical Review E</i> , 1997, 55, 4536-4543.	2.1	80
38	Multistability and Delayed Recurrent Loops. <i>Physical Review Letters</i> , 1996, 76, 708-711.	7.8	304
39	Noise-induced transitions in human postural sway. <i>Physical Review E</i> , 1996, 54, 6681-6684.	2.1	126
40	Dynamic diseases in neurology and psychiatry. <i>Chaos</i> , 1995, 5, 8-13.	2.5	48
41	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
42	DYNAMIC FEEDBACK AND THE DESIGN OF CLOSED-LOOP DRUG DELIVERY SYSTEMS. <i>Journal of Biological Systems</i> , 1995, 03, 711-718.	1.4	5
43	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
44	Noise and critical behavior of the pupil light reflex at oscillation onset. <i>Physical Review A</i> , 1990, 41, 6992-7005.	2.5	133
45	Evaluation of pupil constriction and dilation from cycling measurements. <i>Vision Research</i> , 1990, 30, 515-525.	1.4	54
46	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
47	Complex dynamics and bifurcations in neurology. <i>Journal of Theoretical Biology</i> , 1989, 138, 129-147.	1.7	76
48	Timing of Seizure Recurrence in Adult Epileptic Patients: A Statistical Analysis. <i>Epilepsia</i> , 1987, 28, 471-478.	5.1	104
49	Dynamical Diseases. <i>Annals of the New York Academy of Sciences</i> , 1987, 504, 16-32.	3.8	181