

Joseph P Cusumano

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,516
citations

623188

14
h-index

525886

27
g-index

33
all docs

33
docs citations

33
times ranked

1176
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear time series analysis of normal and pathological human walking. <i>Chaos</i> , 2000, 10, 848.	1.0	494
2	Do Humans Optimally Exploit Redundancy to Control Step Variability in Walking?. <i>PLoS Computational Biology</i> , 2010, 6, e1000856.	1.5	167
3	Re-interpreting detrended fluctuation analyses of stride-to-stride variability in human walking. <i>Gait and Posture</i> , 2010, 32, 348-353.	0.6	145
4	Body-goal Variability Mapping in an Aiming Task. <i>Biological Cybernetics</i> , 2006, 94, 367-379.	0.6	136
5	Identifying Stride-To-Stride Control Strategies in Human Treadmill Walking. <i>PLoS ONE</i> , 2015, 10, e0124879.	1.1	68
6	A Dynamical Systems Approach to Damage Evolution Tracking, Part 2: Model-Based Validation and Physical Interpretation. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2002, 124, 258-264.	1.0	67
7	Movement variability near goal equivalent manifolds: Fluctuations, control, and model-based analysis. <i>Human Movement Science</i> , 2013, 32, 899-923.	0.6	66
8	Increased gait variability may not imply impaired stride-to-stride control of walking in healthy older adults. <i>Gait and Posture</i> , 2017, 55, 131-137.	0.6	53
9	Dopaminergic Modulation of Arm Swing During Gait Among Parkinson's Disease Patients. <i>Journal of Parkinson's Disease</i> , 2015, 5, 141-150.	1.5	41
10	Adaptability of stride-to-stride control of stepping movements in human walking. <i>Journal of Biomechanics</i> , 2016, 49, 229-237.	0.9	34
11	Humans use multi-objective control to regulate lateral foot placement when walking. <i>PLoS Computational Biology</i> , 2019, 15, e1006850.	1.5	32
12	Error Correction and the Structure of Inter-Trial Fluctuations in a Redundant Movement Task. <i>PLoS Computational Biology</i> , 2016, 12, e1005118.	1.5	31
13	Trial-to-trial dynamics and learning in a generalized, redundant reaching task. <i>Journal of Neurophysiology</i> , 2013, 109, 225-237.	0.9	30
14	Humans control stride-to-stride stepping movements differently for walking and running, independent of speed. <i>Journal of Biomechanics</i> , 2018, 76, 144-151.	0.9	20
15	Correlations of pelvis state to foot placement do not imply within-step active control. <i>Journal of Biomechanics</i> , 2019, 97, 109375.	0.9	19
16	How healthy older adults regulate lateral foot placement while walking in laterally destabilizing environments. <i>Journal of Biomechanics</i> , 2020, 104, 109714.	0.9	19
17	Task-level regulation enhances global stability of the simplest dynamic walker. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200278.	1.5	13
18	Walking humans trade off different task goals to regulate lateral stepping. <i>Journal of Biomechanics</i> , 2021, 119, 110314.	0.9	12

#	ARTICLE	IF	CITATIONS
19	Damage dynamics, rate laws, and failure statistics via Hamilton's principle. <i>Meccanica</i> , 2015, 50, 77-98.	1.2	11
20	Viability, task switching, and fall avoidance of the simplest dynamic walker. <i>Scientific Reports</i> , 2022, 12, .	1.6	9
21	Asymptotic Parameter Estimation via Implicit Averaging on a Nonlinear Extended System. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2003, 125, 11-18.	0.9	7
22	How persons with transtibial amputation regulate lateral stepping while walking in laterally destabilizing environments. <i>Gait and Posture</i> , 2021, 83, 88-95.	0.6	7
23	The Dynamical Analysis of Inter-Trial Fluctuations Near Goal Equivalent Manifolds. <i>Advances in Experimental Medicine and Biology</i> , 2014, 826, 125-145.	0.8	6
24	Inter-Trial Dynamics of Repeated Skilled Movements. , 2007, , 707.		5
25	High-Sensitivity Tracking of MOSFET Damage Using Dynamic-Mode Transient Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010, 59, 1734-1742.	2.4	5
26	Multi-objective control in human walking: insight gained through simultaneous degradation of energetic and motor regulation systems. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190227.	1.5	5
27	Empirical generating partitions of driven oscillators using optimized symbolic shadowing. <i>Physical Review E</i> , 2018, 98, .	0.8	3
28	The high forecasting complexity of stochastically perturbed periodic orbits limits the ability to distinguish them from chaos. <i>Nonlinear Dynamics</i> , 2020, 102, 697-712.	2.7	2
29	Experimental Implementation of Energy Closure Analysis for Reduced Order Modeling. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 0, , 1-30.	1.0	0