

Anindya Chatterjee

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

1,937
citations

19
h-index

43
g-index

80
ext. papers

2,215
ext. citations

3
avg, IF

4.96
L-index

#	Paper	IF	Citations
79	The simplest walking model: stability, complexity, and scaling. <i>Journal of Biomechanical Engineering</i> , 1998 , 120, 281-8	2.1	678
78	Asymptotic solution for solitary waves in a chain of elastic spheres. <i>Physical Review E</i> , 1999 , 59, 5912-9	2.4	150
77	Motions of a rimless spoked wheel: a simple three-dimensional system with impacts. <i>Dynamical Systems</i> , 1997 , 12, 139-159		102
76	Efficiency, speed, and scaling of two-dimensional passive-dynamic walking. <i>Dynamical Systems</i> , 2000 , 15, 75-99		102
75	A Dynamical Systems Approach to Damage Evolution Tracking, Part 1: Description and Experimental Application. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2002 , 124, 250-257 ¹⁶		73
74	Averaging Oscillations with Small Fractional Damping and Delayed Terms. <i>Nonlinear Dynamics</i> , 2004 , 38, 3-22	5	72
73	Self-interrupted regenerative metal cutting in turning. <i>International Journal of Non-Linear Mechanics</i> , 2008 , 43, 111-123	2.8	62
72	Cantilever beam electrostatic MEMS actuators beyond pull-in. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 1800-1810	2	56
71	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 ¹⁶		53
70	Statistical origins of fractional derivatives in viscoelasticity. <i>Journal of Sound and Vibration</i> , 2005 , 284, 1239-1245	3.9	48
69	Regenerative Tool Chatter Near a Codimension 2 Hopf Point Using Multiple Scales. <i>Nonlinear Dynamics</i> , 2005 , 40, 323-338	5	48
68	Galerkin Projections for Delay Differential Equations. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2005 , 127, 80-87	1.6	38
67	Galerkin Projections and Finite Elements for Fractional Order Derivatives. <i>Nonlinear Dynamics</i> , 2006 , 45, 183-206	5	30
66	On the Realism of Complementarity Conditions in Rigid Body Collisions. <i>Nonlinear Dynamics</i> , 1999 , 20, 159-168	5	28
65	Hands-free circular motions of a benchmark bicycle. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007 , 463, 1983-2003	2.4	24
64	Small slope implies low speed for McGeer's passive walking machines. <i>Dynamical Systems</i> , 2000 , 15, 139-157		24
63	Optimum energy extraction from rotational motion in a parametrically excited pendulum. <i>Mechanics Research Communications</i> , 2012 , 43, 7-14	2.2	23

62	Approximate Asymptotics for a Nonlinear Mathieu Equation Using Harmonic Balance Based Averaging. <i>Nonlinear Dynamics</i> , 2003 , 31, 347-365	5	20
61	New approximations, and policy implications, from a delayed dynamic model of a fast pandemic. <i>Physica D: Nonlinear Phenomena</i> , 2020 , 414, 132701	3.3	20
60	Geometry optimization of axially symmetric ion traps. <i>International Journal of Mass Spectrometry</i> , 2007 , 264, 38-52	1.9	17
59	Resonance, Parameter Estimation, and Modal Interactions in a Strongly Nonlinear Benchtop Oscillator. <i>Nonlinear Dynamics</i> , 2005 , 40, 149-167	5	17
58	Motional coherence during resonance ejection of ions from Paul traps. <i>International Journal of Mass Spectrometry</i> , 2007 , 261, 159-169	1.9	14
57	Escape velocity and resonant ion dynamics in Paul trap mass spectrometers. <i>International Journal of Mass Spectrometry</i> , 2004 , 231, 1-16	1.9	14
56	Asymmetric Mathieu equations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006 , 462, 1643-1659	2.4	10
55	Vibrations of a Beam in Variable Contact With a Flat Surface. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2009 , 131,	1.6	9
54	Scalar generalization of Newtonian restitution for simultaneous impact. <i>International Journal of Mechanical Sciences</i> , 2015 , 103, 141-157	5.5	8
53	Vibrations of an Euler-Bernoulli beam with hysteretic damping arising from dispersed frictional microcracks. <i>Journal of Sound and Vibration</i> , 2018 , 412, 287-308	3.9	8
52	Dissipation in the Bouc-Wen model: Small amplitude, large amplitude and two-frequency forcing. <i>Journal of Sound and Vibration</i> , 2013 , 332, 1807-1819	3.9	8
51	A reduced-order model from high-dimensional frictional hysteresis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20130817	2.4	8
50	Anomalous Frictional Behavior in Collisions of Thin Disks Revisited. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008 , 75,	2.7	8
49	Multiple scales analysis of early and delayed boundary ejection in Paul traps. <i>International Journal of Mass Spectrometry</i> , 2007 , 261, 170-182	1.9	8
48	Decoupled three-dimensional finite element computation of thermoelastic damping using Zener's approximation. <i>Meccanica</i> , 2011 , 46, 371-381	2.1	7
47	Beyond fractional derivatives: local approximation of other convolution integrals. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010 , 466, 563-581	2.4	7
46	Continuation of limit cycles near saddle homoclinic points using splines in phase space. <i>Nonlinear Dynamics</i> , 2009 , 57, 383-399	5	7
45	Infinite dimensional slow modulations in a well known delayed model for cutting tool vibrations. <i>Nonlinear Dynamics</i> , 2010 , 62, 705-716	5	7

44	Modal projections for synchronous rotor whirl. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008 , 464, 1739-1760	2.4	7
43	Asymptotics for the Characteristic Roots of Delayed Dynamic Systems. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2005 , 72, 475-483	2.7	7
42	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	1.6	7
41	Higher-Order Pseudoaveraging via Harmonic Balance for Strongly Nonlinear Oscillations. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2005 , 127, 416-419	1.6	7
40	Transverse impact of a Hertzian body with an infinitely long Euler-Bernoulli beam. <i>Journal of Sound and Vibration</i> , 2018 , 429, 147-161	3.9	7
39	A two-state hysteresis model from high-dimensional friction. <i>Royal Society Open Science</i> , 2015 , 2, 150188	3	6
38	Galerkin Projections for Delay Differential Equations 2003 , 2211		6
37	The Simplest Resonance Capture Problem, Using Harmonic Balance Based Averaging. <i>Nonlinear Dynamics</i> , 2004 , 37, 271-284	5	6
36	Overhead water tank shapes with depth-independent sloshing frequencies for use as TLDs in buildings. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2049	4.5	6
35	Hysteretic damping in an elastic body with frictional microcracks. <i>International Journal of Mechanical Sciences</i> , 2016 , 108-109, 61-71	5.5	5
34	An internal damping formula derived from dispersed elasto-plastic flaws with Weibull-distributed strengths. <i>International Journal of Mechanical Sciences</i> , 2014 , 87, 137-149	5.5	5
33	Numerical Stability Analysis of Linear Incommensurate Fractional Order Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2013 , 8,	1.4	5
32	Modal damping in vibrating objects via dissipation from dispersed frictional microcracks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20120685	2.4	5
31	Nonintrusive Measurement of Contact Forces During Vibration Dominated Impacts. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2004 , 126, 489-497	1.6	5
30	A two-state hysteresis model for bolted joints, with minor loops from partial unloading. <i>International Journal of Mechanical Sciences</i> , 2018 , 140, 506-520	5.5	4
29	A generalized quarter car modelling approach with frame flexibility and other nonlocal effects. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2017 , 42, 1175-1192	1	4
28	Nonlinear secondary whirl of an overhung rotor. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010 , 466, 283-301	2.4	3
27	Unified Galerkin- and DAE-Based Approximation of Fractional Order Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2011 , 6,	1.4	3

26	The Short-Time Impulse Response of Euler-Bernoulli Beams. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2004 , 71, 208-218	2.7	3
25	Complete dimensional collapse in the continuum limit of a delayed SEIQR network model with separable distributed infectivity. <i>Nonlinear Dynamics</i> , 2020 , 101, 1-13	5	3
24	Acoustics of Idakk—An Indian snare drum with definite pitch. <i>Journal of the Acoustical Society of America</i> , 2018 , 143, 3184	2.2	2
23	ADAMS model validation for an all-terrain vehicle using test track data. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401985978	1.2	2
22	Computational prediction of modal damping ratios in thin-walled structures. <i>Journal of Sound and Vibration</i> , 2014 , 333, 7125-7134	3.9	2
21	Common underlying steering curves for motorcycles in steady turns. <i>Vehicle System Dynamics</i> , 2011 , 49, 931-948	2.8	2
20	Analytical Investigation of Hydrodynamic Cavitation Control by Ultrasonics. <i>Nonlinear Dynamics</i> , 2006 , 46, 179-194	5	2
19	DAE-based solution of nonlinear multiterm fractional integrodifferential equations. <i>Journal European Des Systemes Automatises</i> , 2008 , 42, 677-688	1.8	2
18	Restitution modeling in vibration-dominated impacts using energy minimization under outward constraints. <i>International Journal of Mechanical Sciences</i> , 2020 , 166, 105215	5.5	2
17	Data suggest COVID-19 affected numbers greatly exceeded detected numbers, in four European countries, as per a delayed SEIQR model. <i>Scientific Reports</i> , 2021 , 11, 8106	4.9	2
16	Stability aspects of the Hayes delay differential equation with scalable hysteresis. <i>Nonlinear Dynamics</i> , 2018 , 93, 1377-1393	5	1
15	Planar oscillations of a boat in a tank. <i>International Journal of Mechanical Sciences</i> , 2014 , 79, 152-161	5.5	1
14	Simple Recipe for Accurate Solution of Fractional Order Equations. <i>Journal of Computational and Nonlinear Dynamics</i> , 2013 , 8,	1.4	1
13	Interplay Between Dissipation and Modal Truncation in Ball-Beam Impact. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12,	1.4	1
12	Infinite Dimensional Slow Modulations in a Delayed Model for Orthogonal Cutting Vibrations 2008 ,		1
11	Mathematics in engineering—Part II 2005 , 10, 39-53		1
10	Nonlinear responses of an SDOF structure with a light, whirling, driven, untuned pendulum. <i>International Journal of Mechanical Sciences</i> , 2020 , 168, 105305	5.5	1
9	Unifying averaged dynamics of the Fokker-Planck equation for Paul traps. <i>Physics of Plasmas</i> , 2019 , 26, 012302	2.1	1

8	Fractional Damping: Stochastic Origin and Finite Approximations 2007 , 389-402		1
7	Performance limit for base-excited energy harvesting, and comparison with experiments. <i>Nonlinear Dynamics</i> , 2021 , 103, 197-214	5	0
6	Towards design of a nonlinear vibration stabilizer for suppressing single-mode instability. <i>Nonlinear Dynamics</i> , 2021 , 103, 1563-1583	5	0
5	Unexpectedly low angular extent of journal bearing pressures: experiment and theory. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2015 , 66, 455-471	1.6	
4	An engineering-design oriented exploration of human excellence in throwing. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2018 , 43, 1	1	
3	A Combinatorial Optimization Problem for High Order PODs with Few Sensors. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2007 , 129, 252-255	1.6	
2	Rationally Derived Three-Parameter Models for Elastomeric Suspension Bushings: Theory and Experiment. <i>Journal of Testing and Evaluation</i> , 2019 , 47, 20170102	1	
1	A LinearS-NCurve with Load Dependent Variance and Explicit Failure Probability. <i>Journal of Testing and Evaluation</i> , 2012 , 40, 104419	1	