

# S Narayanan

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/10951066/s-narayanan-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

49  
papers

1,632  
citations

25  
h-index

40  
g-index

51  
ext. papers

1,839  
ext. citations

3  
avg, IF

4.86  
L-index

#	Paper	IF	Citations
49	Dynamics of stochastic vibro-impact oscillator with compliant contact force models. <i>International Journal of Non-Linear Mechanics</i> , <b>2022</b> , 104086	2.8	0
48	Dynamics of Nonlinear Oscillators with Discontinuous Nonlinearities Subjected to Harmonic and Stochastic Excitations. <i>Journal of the Institution of Engineers (India): Series C</i> , <b>2021</b> , 102, 1321-1363	0.9	0
47	Optimal response of half car vehicle model with sky-hook damper based on LQR control. <i>International Journal of Dynamics and Control</i> , <b>2020</b> , 8, 488-496	1.7	10
46	Optimal response of half car vehicle model with sky-hook damper using LQR with look ahead preview control. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2020</b> , 42, 1	2	1
45	Targeted energy transfer in stochastically excited system with nonlinear energy sink. <i>European Journal of Applied Mathematics</i> , <b>2019</b> , 30, 869-886	1	3
44	Investigations on the bifurcation of a noisy Duffing-Van der Pol oscillator. <i>Probabilistic Engineering Mechanics</i> , <b>2016</b> , 45, 70-86	2.6	27
43	Fokker-Planck equation analysis of randomly excited nonlinear energy harvester. <i>Journal of Sound and Vibration</i> , <b>2014</b> , 333, 2040-2053	3.9	44
42	Finite element solution of Fokker-Planck equation of nonlinear oscillators subjected to colored non-Gaussian noise. <i>Probabilistic Engineering Mechanics</i> , <b>2014</b> , 38, 143-155	2.6	26
41	Numeric-analytic solutions of the smooth and discontinuous oscillator. <i>International Journal of Mechanical Sciences</i> , <b>2014</b> , 84, 102-119	5.5	21
40	Response of a quarter car model with optimal magnetorheological damper parameters. <i>Journal of Sound and Vibration</i> , <b>2013</b> , 332, 2191-2206	3.9	43
39	Numerical solutions of Fokker-Planck equation of nonlinear systems subjected to random and harmonic excitations. <i>Probabilistic Engineering Mechanics</i> , <b>2012</b> , 27, 35-46	2.6	33
38	Efficient path integral solution of Fokker-Planck equation: response, bifurcation and periodicity of nonlinear systems. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , <b>2011</b> , 3, 111-125	0.6	1
37	Finite element modeling of stiffened piezolaminated plates and shells with piezoelectric layers for active vibration control. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 105003	3.4	14
36	Modified Path Integral Solution of Fokker-Planck Equation: Response and Bifurcation of Nonlinear Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2010</b> , 5,	1.4	19
35	Functionally Graded Shells with Distributed Piezoelectric Sensors and Actuators for Active Vibration Control <b>2010</b> , 3-13		3
34	Multilayer Higher Order Piezolaminated Smart Composite Shell Finite Element and its Application to Active Vibration Control. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2009</b> , 20, 425-441	2.3	14
33	Optimal semi-active preview control response of a half car vehicle model with magnetorheological damper. <i>Journal of Sound and Vibration</i> , <b>2009</b> , 326, 400-420	3.9	89

32	Sky-hook control of nonlinear quarter car model traversing rough road matching performance of LQR control. <i>Journal of Sound and Vibration</i> , <b>2009</b> , 323, 515-529	3.9	52
31	A piezolaminated composite degenerated shell finite element for active control of structures with distributed piezosensors and actuators. <i>Smart Materials and Structures</i> , <b>2008</b> , 17, 035031	3.4	44
30	Active vibration control of beams with optimal placement of piezoelectric sensor/actuator pairs. <i>Smart Materials and Structures</i> , <b>2008</b> , 17, 055008	3.4	93
29	Control of response of a quarter-car vehicle model with optimal skyhook damper. <i>International Journal of Vehicle Autonomous Systems</i> , <b>2008</b> , 6, 396	0.4	5
28	Preview control of random response of a half-car vehicle model traversing rough road. <i>Journal of Sound and Vibration</i> , <b>2008</b> , 310, 352-365	3.9	36
27	A piezoelectric higher-order plate element for the analysis of multi-layer smart composite laminates. <i>Smart Materials and Structures</i> , <b>2007</b> , 16, 2026-2039	3.4	15
26	Parametric identification of nonlinear systems using multiple trials. <i>Nonlinear Dynamics</i> , <b>2007</b> , 48, 341-360	3.9	19
25	A HIGHER ORDER FINITE ELEMENT MODELING OF PIEZOLAMINATED SMART COMPOSITE PLATES AND ITS APPLICATION TO ACTIVE VIBRATION CONTROL. <i>International Journal of Computational Methods</i> , <b>2007</b> , 04, 141-162	1.1	1
24	The optimal location of piezoelectric actuators and sensors for vibration control of plates. <i>Smart Materials and Structures</i> , <b>2007</b> , 16, 2680-2691	3.4	69
23	Solution of Fokker-Planck equation by finite element and finite difference methods for nonlinear systems. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2006</b> , 31, 445-461	1	66
22	Finite element modelling of piezolaminated smart structures for active vibration control with distributed sensors and actuators. <i>Journal of Sound and Vibration</i> , <b>2003</b> , 262, 529-562	3.9	171
21	FINITE ELEMENT FORMULATION AND ACTIVE VIBRATION CONTROL STUDY ON BEAMS USING SMART CONSTRAINED LAYER DAMPING (SCLD) TREATMENT. <i>Journal of Sound and Vibration</i> , <b>2002</b> , 249, 227-250	3.9	40
20	Periodic Response and Chaos in Nonlinear Systems with Parametric Excitation and Time Delay. <i>Nonlinear Dynamics</i> , <b>2002</b> , 27, 341-365	5	18
19	Shell finite element for smart piezoelectric composite plate/shell structures and its application to the study of active vibration control. <i>Finite Elements in Analysis and Design</i> , <b>2001</b> , 37, 713-738	2.2	106
18	CONTROLLING CHAOTIC MOTIONS IN A TWO-DIMENSIONAL AIRFOIL USING TIME-DELAYED FEEDBACK. <i>Journal of Sound and Vibration</i> , <b>2001</b> , 239, 1037-1049	3.9	37
17	Active Vibration Control of Piezolaminated Smart Beams. <i>Defence Science Journal</i> , <b>2001</b> , 51, 103-114	1.4	17
16	Control of Chaos in Nonlinear Systems Subjected to Parametric and Stochastic Excitations. <i>Solid Mechanics and Its Applications</i> , <b>2001</b> , 171-184	0.4	
15	Chaos Control by Nonfeedback Methods in the Presence of Noise. <i>Chaos, Solitons and Fractals</i> , <b>1999</b> , 10, 1473-1489	9.3	55

14	NON-LINEAR DYNAMICS OF A TWO-DIMENSIONAL AIRFOIL BY INCREMENTAL HARMONIC BALANCE METHOD. <i>Journal of Sound and Vibration</i> , <b>1999</b> , 226, 493-517	3.9	48
13	BIFURCATION AND CHAOS IN GEARED ROTOR BEARING SYSTEM BY INCREMENTAL HARMONIC BALANCE METHOD. <i>Journal of Sound and Vibration</i> , <b>1999</b> , 226, 469-492	3.9	95
12	STOCHASTIC OPTIMAL ACTIVE CONTROL OF A 2-DOF QUARTER CAR MODEL WITH NON-LINEAR PASSIVE SUSPENSION ELEMENTS. <i>Journal of Sound and Vibration</i> , <b>1998</b> , 211, 495-506	3.9	35
11	CRITICAL AND COINCIDENCE FREQUENCIES OF FLAT PANELS. <i>Journal of Sound and Vibration</i> , <b>1997</b> , 205, 19-32	3.9	25
10	MODAL DENSITY OF COMPOSITE HONEYCOMB SANDWICH PANELS. <i>Journal of Sound and Vibration</i> , <b>1996</b> , 195, 687-699	3.9	44
9	Chaotic oscillations in pipes conveying pulsating fluid. <i>Nonlinear Dynamics</i> , <b>1996</b> , 10, 333-357	5	26
8	Optimal Preview Control of a Two-dof Vehicle Model Using Stochastic Optimal Control Theory. <i>Vehicle System Dynamics</i> , <b>1996</b> , 25, 413-430	2.8	53
7	Active control of non-stationary response of a two-degree of freedom vehicle model with nonlinear suspension. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>1995</b> , 20, 489-499	1	6
6	Chaos in mechanical systems A review. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>1995</b> , 20, 529-582	1	6
5	Optimal estimation and control of non-stationary response of a two-degree-of-freedom vehicle model. <i>Journal of Sound and Vibration</i> , <b>1991</b> , 149, 413-428	3.9	14
4	Sound transmission through layered cylindrical shells with applied damping treatment. <i>Journal of Sound and Vibration</i> , <b>1984</b> , 92, 541-558	3.9	8
3	Sound transmission through a damped sandwich panel. <i>Journal of Sound and Vibration</i> , <b>1982</b> , 80, 315-323	3.9	42
2	Sound transmission through elastically supported sandwich panels into a rectangular enclosure. <i>Journal of Sound and Vibration</i> , <b>1981</b> , 77, 251-270	3.9	36
1	OPTIMUM STRUCTURAL DESIGN IN RANDOM VIBRATION ENVIRONMENTS. <i>Engineering Optimization</i> , <b>1978</b> , 3, 97-108	2	2