

Sayan Gupta

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

1,103
citations

361388

20
h-index

454934

30
g-index

92
all docs

92
docs citations

92
times ranked

682
citing authors

#	ARTICLE	IF	CITATIONS
1	Ageing transitions in a network of Rulkov neurons. <i>Scientific Reports</i> , 2022, 12, 433.	3.3	6
2	Crystal Elasticity Simulations of Polycrystalline Material Using Rank-One Approximation. <i>Integrating Materials and Manufacturing Innovation</i> , 2022, 11, 139-157.	2.6	1
3	Stochastic reduced order modelling and analysis of rotating bladed discs. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, .	2.1	1
4	Dynamics of stochastic vibro-impact oscillator with compliant contact force models. <i>International Journal of Non-Linear Mechanics</i> , 2022, 144, 104086.	2.6	4
5	Uncertainty quantification of bladed disc systems using data driven stochastic reduced order models. <i>International Journal of Mechanical Sciences</i> , 2021, 190, 106011.	6.7	8
6	Transitional Flow Dynamics Past a Passively Flapping Airfoil in Gusty Flow. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2021, , 135-148.	0.3	0
7	Dynamic interlinking between near- and far-field wakes behind a pitching heaving airfoil. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	15
8	Local and global bifurcations in 3D piecewise smooth discontinuous maps. <i>Chaos</i> , 2021, 31, 013126.	2.5	1
9	Static condensation based reduced order modelling of stochastically parametered large ordered systems. <i>Probabilistic Engineering Mechanics</i> , 2021, 66, 103166.	2.7	3
10	Characterising stochastic fixed points and limit cycles for dynamical systems with additive noise. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 101, 105870.	3.3	2
11	Intermittency in a cantilever plate in a randomly fluctuating fluid flow. <i>Journal of Fluids and Structures</i> , 2020, 93, 102855.	3.4	1
12	Bifurcations in a Pre-Stressed, Harmonically Excited, Vibro-Impact Oscillator at Subharmonic Resonances. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020, 30, 2050111.	1.7	4
13	Stochastic P-bifurcation in a nonlinear impact oscillator with soft barrier under Ornstein-Uhlenbeck process. <i>Nonlinear Dynamics</i> , 2020, 99, 2657-2674.	5.2	16
14	Vibration Energy Harvesting in Fluctuating Fluid Flows. <i>Energy, Environment, and Sustainability</i> , 2020, , 215-236.	1.0	0
15	Intermittency in a Pitch-Plunge Aeroelastic System. <i>Energy, Environment, and Sustainability</i> , 2020, , 171-194.	1.0	1
16	Fluid-Structure Interaction Dynamics of a Flexible Foil in Low Reynolds Number Flows. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 449-459.	0.4	0
17	Interaction of a Flexible Splitter Plate with Vortex Shedding Past a Rigid Circular Cylinder. <i>Lecture Notes in Civil Engineering</i> , 2019, , 841-852.	0.4	3
18	Multiplicative noise induced intermittency in maps. <i>International Journal of Non-Linear Mechanics</i> , 2019, 117, 103251.	2.6	5

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19	Effect of fast parametric excitation on the instability behaviour of a spinning disc bounded in a compressible fluid-filled enclosure. <i>Nonlinear Dynamics</i> , 2019, 96, 2257-2279.	5.2	5
20	Energy harvesting from chaos in base excited double pendulum. <i>Mechanical Systems and Signal Processing</i> , 2019, 124, 49-64.	8.0	59
21	Transition to chaos in the flow-induced vibration of a pitchingâ€“plunging airfoil at low Reynolds numbers: Ruelleâ€“Takensâ€“Newhouse scenario. <i>International Journal of Non-Linear Mechanics</i> , 2019, 109, 189-203.	2.6	14
22	Targeted energy transfer in stochastically excited system with nonlinear energy sink. <i>European Journal of Applied Mathematics</i> , 2019, 30, 869-886.	2.9	7
23	Dynamic Parameters Estimation and Fault Identification From Random Response of Rolling Element Bearing in a Rotor Bearing System. , 2019, , .		2
24	Random Field Modeling and Analysis of Rotor Bladed Disc Sector Using a Data Driven PCE Based Approach. , 2019, , .		1
25	Reduced order modelling in stochastically parametered acousto-elastic system using arbitrary PCE based SEREP. <i>Probabilistic Engineering Mechanics</i> , 2018, 52, 1-14.	2.7	5
26	Dynamical Behavior of Unsteady Flowfield of an Elastically Mounted Flapping Airfoil. <i>AIAA Journal</i> , 2018, 56, 2062-2069.	2.6	7
27	Investigations on precursor measures for aeroelastic flutter. <i>Journal of Sound and Vibration</i> , 2018, 419, 318-336.	3.9	30
28	Intermittency in pitch-plunge aeroelastic systems explained through stochastic bifurcations. <i>Nonlinear Dynamics</i> , 2018, 92, 1225-1241.	5.2	32
29	The behavior of bilinear impact oscillators subjected to random forcings. <i>MATEC Web of Conferences</i> , 2018, 148, 08002.	0.2	0
30	Transient and Stable Chaos in Dipteran Flight Inspired Flapping Motion. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018, 13, .	1.2	2
31	Bifurcation analysis of an accelerating disc immersed in a bounded compressible medium near principal parametric resonance. <i>International Journal of Non-Linear Mechanics</i> , 2018, 101, 77-85.	2.6	1
32	Stochastic Bifurcation Analysis of an Elastically Mounted Flapping Airfoil. <i>MATEC Web of Conferences</i> , 2018, 148, 08001.	0.2	1
33	Estimation of terramechanics parameters of wheel-soil interaction model using particle filtering. <i>Journal of Terramechanics</i> , 2018, 79, 79-95.	3.1	13
34	Quasi-periodic Vortical Signature of an Elastically Mounted Flapping Airfoil. , 2017, , .		0
35	Bifurcation and response analysis of a nonlinear flexible rotating disc immersed in bounded compressible fluid. <i>Journal of Sound and Vibration</i> , 2017, 392, 260-279.	3.9	5
36	Bifurcation analysis of a stochastically excited vibro-impact Duffing-Van der Pol oscillator with bilateral rigid barriers. <i>International Journal of Mechanical Sciences</i> , 2017, 127, 103-117.	6.7	47

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37	Physical mechanism of intermittency route to aeroelastic flutter. Journal of Fluids and Structures, 2017, 75, 9-26.	3.4	28
38	Stochastic model order reduction in randomly parametered linear dynamical systems. Applied Mathematical Modelling, 2017, 51, 744-763.	4.2	13
39	3-D stochastic finite elements for thermal creep analysis of piping structures with spatial material inhomogeneities. Acta Mechanica, 2017, 228, 3039-3062.	2.1	5
40	Multi-fractality in aeroelastic response as a precursor to flutter. Journal of Sound and Vibration, 2017, 386, 390-406.	3.9	41
41	Investigations on a vortex induced vibration based energy harvester. Applied Physics Letters, 2017, 111, .	3.3	24
42	Investigations on the bifurcation of a noisy Duffingâ€“Van der Pol oscillator. Probabilistic Engineering Mechanics, 2016, 45, 70-86.	2.7	30
43	Reduced Order Models in Analysis of Stochastically Parametered Linear Dynamical Systems. Procedia Engineering, 2016, 144, 1325-1331.	1.2	2
44	Multivariate Extreme Value Distributions for Vector of Non-stationary Gaussian Processes. Procedia Engineering, 2016, 144, 504-511.	1.2	0
45	Stochastic bifurcations in a vibro-impact Duffingâ€“Van der Pol oscillator. Nonlinear Dynamics, 2016, 85, 439-452.	5.2	44
46	Stochastic Bifurcation Analysis of a Duffing Oscillator with Coulomb Friction Excited by Poisson White Noise. Procedia Engineering, 2016, 144, 998-1006.	1.2	13
47	Numerical Investigations on Intermittency Route to Aeroelastic Flutter. Procedia Engineering, 2016, 144, 967-973.	1.2	1
48	Stochastic Reduced Order Modelling of a Fluid Structure Interaction System. Procedia Engineering, 2016, 144, 1213-1219.	1.2	2
49	Dynamical Stability Analysis of a Fluid Structure Interaction System Using a High Fidelity Navier-stokes Solver. Procedia Engineering, 2016, 144, 883-890.	1.2	13
50	Uncertainty Quantification in Structural Engineering: Current Status and Computational Challenges. , 2016, , 119-149.		2
51	Stability Analysis of a Cantilevered Plate in Randomly Fluctuating Flow. Procedia Engineering, 2016, 144, 990-997.	1.2	0
52	A saddlepoint approach to estimating joint extreme value distributions for vector non-stationary Gaussian processes. Applied Ocean Research, 2016, 58, 178-188.	4.1	1
53	Precursors to flutter instability by an intermittency route: A model free approach. Journal of Fluids and Structures, 2016, 61, 376-391.	3.4	51
54	The use of polynomial chaos for parameter identification from measurements in nonlinear dynamical systems. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2015, 95, 1372-1392.	1.6	3

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55	Stochastic model order reduction in uncertainty quantification of composite structures. Composite Structures, 2015, 128, 21-34.	5.8	19
56	A data driven polynomial chaos based approach for stochastic analysis of CFRP laminated composite plates. Composite Structures, 2015, 125, 212-227.	5.8	31
57	Investigations on a particle filter algorithm for crack identification in beams from vibration measurements. Structural Control and Health Monitoring, 2015, 22, 1049-1067.	4.0	10
58	Experimental characterisation of random field models for CFRP composite panels. Composite Structures, 2015, 120, 451-471.	5.8	31
59	Stochastic Creep Damage Estimation in Pipings with Spatial Non-gaussian Uncertainties Using Spectral Stochastic Finite Element Method. Procedia Engineering, 2014, 86, 677-684.	1.2	4
60	Probabilistic damage estimation in piping components against thermal creep and fatigue. Nuclear Engineering and Design, 2014, 273, 202-214.	1.7	7
61	Noise Models in Numerical Analysis of Stochastic Creep Damage Growth and Residual Life Assessment. Journal of Failure Analysis and Prevention, 2014, 14, 259-264.	0.9	1
62	Stochastic finite element analysis of layered composite beams with spatially varying non-Gaussian inhomogeneities. Acta Mechanica, 2014, 225, 1503-1522.	2.1	23
63	Damage estimation in vibrating beams from time domain experimental measurements. Archive of Applied Mechanics, 2014, 84, 1715-1737.	2.2	11
64	Finite element solution of Fokker-Planck equation of nonlinear oscillators subjected to colored non-Gaussian noise. Probabilistic Engineering Mechanics, 2014, 38, 143-155.	2.7	31
65	Analysis of CFRP laminated plates with spatially varying non-Gaussian inhomogeneities using SFEM. Composite Structures, 2014, 112, 308-326.	5.8	21
66	FE based solution of FPK equations for nonlinear oscillators driven by colored Gaussian noise. , 2014, , 1039-1046.		0
67	Probabilistic residual life assessment against thermal fatigue and creep. , 2014, , 3981-3988.		0
68	Crossing statistics of quadratic transformations of LMA processes. Probabilistic Engineering Mechanics, 2013, 33, 9-17.	2.7	1
69	Stochastic Creep Damage Growth Due to Random Thermal Fluctuations Using Continuum Damage Mechanics. Procedia Engineering, 2013, 55, 805-811.	1.2	6
70	Polynomial Chaos in Bootstrap Filtering for System Identification. , 2013, , 653-667.		1
71	Estimating Crossing Rate Statistics of Second Order Response of Structures Subjected to LMA Loadings. , 2013, , 697-710.		0
72	Estimating the Rain-Flow Fatigue Damage in Wind Turbine Blades Using Polynomial Chaos. , 2013, , 711-727.		0

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73	Wiener chaos expansions for estimating rain-flow fatigue damage in randomly vibrating structures with uncertain parameters. Probabilistic Engineering Mechanics, 2011, 26, 387-398.	2.7	15
74	Crossings of Second-Order Response Processes Subjected to LMA Loadings. Journal of Probability and Statistics, 2010, 2010, 1-22.	0.7	4
75	Approximation of Crossing Intensities for Non Linear Responses Subjected to Non Gaussian Loadings. , 2010, , .		0
76	Probability Distribution of Peaks for Nonlinear Combination of Vector Gaussian Loads. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, .	1.6	1
77	Rain-flow fatigue damage for transformed gaussian loads. International Journal of Fatigue, 2007, 29, 406-420.	5.7	32
78	Extreme value distributions for nonlinear transformations of vector Gaussian processes. Probabilistic Engineering Mechanics, 2007, 22, 136-149.	2.7	9
79	Rain-flow fatigue damage due to nonlinear combination of vector Gaussian loads. Probabilistic Engineering Mechanics, 2007, 22, 231-249.	2.7	13
80	Fatigue damage in randomly vibrating jack-up platforms under non-Gaussian loads. Applied Ocean Research, 2006, 28, 407-419.	4.1	21
81	Reliability analysis of randomly vibrating structures with parameter uncertainties. Journal of Sound and Vibration, 2006, 297, 1000-1024.	3.9	35
82	Time-Variant Reliability Analysis for Series Systems With Log-Normal Vector Response. , 2006, , 747-759.		3
83	Multivariate Extreme Value Distributions for Random Vibration Applications. Journal of Engineering Mechanics - ASCE, 2005, 131, 712-720.	2.9	19
84	Probability Distribution of Extremes of Von Mises Stress in Randomly Vibrating Structures. Journal of Vibration, Acoustics, Stress, and Reliability in Design, 2005, 127, 547.	2.0	17
85	Improved Response Surface Method for Time-Variant Reliability Analysis of Nonlinear Random Structures Under Non-Stationary Excitations. Nonlinear Dynamics, 2004, 36, 267-280.	5.2	24
86	An improved response surface method for the determination of failure probability and importance measures. Structural Safety, 2004, 26, 123-139.	5.3	111
87	DYNAMIC STIFFNESS METHOD FOR CIRCULAR STOCHASTIC TIMOSHENKO BEAMS: RESPONSE VARIABILITY AND RELIABILITY ANALYSES. Journal of Sound and Vibration, 2002, 253, 1051-1085.	3.9	25