

Shyamal Chatterjee

List of Publications by Year in descending order

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74
papers

1,240
citations

331670

21
h-index

454955

30
g-index

75
all docs

75
docs citations

75
times ranked

762
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear dynamics of vortex-induced vibration of a nonlinear beam under high-frequency excitation. International Journal of Non-Linear Mechanics, 2021, 129, 103656.	2.6	5
2	Nonlinear feedback anti-control of limit cycle and chaos in a mechanical oscillator: theory and experiment. Nonlinear Dynamics, 2021, 104, 3223-3246.	5.2	6
3	Controlling self-excited vibration of a nonlinear beam by nonlinear resonant velocity feedback with time-delay. International Journal of Non-Linear Mechanics, 2021, 131, 103684.	2.6	21
4	High-frequency vibrational control of principal parametric resonance of a nonlinear cantilever beam: Theory and experiment. Journal of Sound and Vibration, 2021, 505, 116138.	3.9	13
5	Nonlinear feedback self-excitation of modal oscillations in a class of under-actuated two degrees-of-freedom mechanical systems. International Journal of Non-Linear Mechanics, 2021, 135, 103768.	2.6	3
6	Efficacy of Semi-active Absorber for Controlling Self-excited Vibration. Journal of the Institution of Engineers (India): Series C, 2020, 101, 97-103.	1.2	4
7	Resonant dynamics of a single degree-of-freedom mechanical system under stiffness switching control with time-delay. International Journal of Dynamics and Control, 2020, 8, 396-403.	2.5	1
8	Effect of high-frequency excitation on friction induced vibration caused by the combined action of velocity-weakening and mode-coupling. JVC/Journal of Vibration and Control, 2020, 26, 735-746.	2.6	15
9	Mitigating vortex-induced vibration by acceleration feedback control. International Journal of Dynamics and Control, 2020, 8, 570-580.	2.5	7
10	Controlling self-excited vibration using positive position feedback with time-delay. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	3
11	Effect of Annealing on the Microstructure, Texture and Mechanical Properties of a Dual-Phase Ultrahigh-strength TWIP Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4483-4498.	2.2	10
12	Controlling self-excited vibration using acceleration feedback with time-delay. International Journal of Dynamics and Control, 2019, 7, 1521-1531.	2.5	5
13	Deformation behaviour of a low carbon high Mn TWIP/TRIP steel. Materials Science and Technology, 2019, 35, 1483-1496.	1.6	6
14	Deformation and annealing behaviour of a low carbon high Mn TWIP steel microalloyed with Ti. Philosophical Magazine, 2019, 99, 2487-2516.	1.6	3
15	Insights into the microstructural parameters and mechanical property correlation of Al ₃ Ti phase reinforced Al based nanocomposites. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 1459-1470.	0.9	1
16	Effects of Thermo-mechanical Process Parameters on Microstructure and Crystallographic Texture of High Ni-Mo Ultrahigh Strength Steel. Metallography, Microstructure, and Analysis, 2018, 7, 222-238.	1.0	4
17	Modal self-excitation in a class of mechanical systems by nonlinear displacement feedback. JVC/Journal of Vibration and Control, 2018, 24, 784-796.	2.6	4
18	Nonlinear control of stick-slip oscillations by normal force modulation. JVC/Journal of Vibration and Control, 2018, 24, 1427-1439.	2.6	6

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19	Response of a Harmonically Forced Dry Friction Damped System Under Time-Delayed State Feedback. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	1.2	8
20	Correlation Between Structure and Properties of Low-Carbon Cu-Ni-Mo-Ti-Nb Ultrahigh-Strength Steel. Journal of Materials Engineering and Performance, 2018, 27, 6516-6528.	2.5	1
21	Nonlinear roll oscillation of semisubmersible system and its control. International Journal of Non-Linear Mechanics, 2018, 107, 42-55.	2.6	4
22	Modeling and design of direct nonlinear velocity feedback for modal self-excitation in a class of multi degrees-of-freedom mechanical systems. JVC/Journal of Vibration and Control, 2017, 23, 656-672.	2.6	3
23	Limit cycle oscillation and multiple entrainment phenomena in a duffing oscillator under time-delayed displacement feedback. JVC/Journal of Vibration and Control, 2017, 23, 2742-2756.	2.6	7
24	Structure-property relationship in a 2ÅPa grade micro-alloyed ultrahigh strength steel. Journal of Alloys and Compounds, 2017, 705, 817-827.	5.5	27
25	Influence of tuning of passive TLD on the seismic vibration control of elevated water tanks under various tank-full conditions. Structural Control and Health Monitoring, 2017, 24, e1924.	4.0	13
26	State feedback control of surge oscillations of two-point mooring system. Journal of Sound and Vibration, 2017, 386, 1-20.	3.9	10
27	Amplitude Controlled Adaptive Feedback Resonance in a Single Degree-of-Freedom Mass-Spring Mechanical System. Procedia Engineering, 2016, 144, 697-704.	1.2	5
28	Thermo-mechanically controlled processed ultrahigh strength steel: Microstructure, texture and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 663, 126-140.	5.6	33
29	Modal self-excitation by nonlinear acceleration feedback in a class of mechanical systems. Journal of Sound and Vibration, 2016, 376, 1-17.	3.9	13
30	Tangential acceleration feedback control of friction induced vibration. Journal of Sound and Vibration, 2016, 377, 22-37.	3.9	10
31	Characterisation of microstructure, texture and mechanical properties in ultra low-carbon Ti-B microalloyed steels. Metals and Materials International, 2015, 21, 85-95.	3.4	11
32	Analysis and synthesis of modal and non-modal self-excited oscillations in a class of mechanical systems with nonlinear velocity feedback. Journal of Sound and Vibration, 2015, 334, 296-318.	3.9	14
33	Generating self-excited oscillation in a class of mechanical systems by relay-feedback. Nonlinear Dynamics, 2014, 76, 1253-1269.	5.2	13
34	Diffusion Bonding of Microduplex Stainless Steel and Ti Alloy with and without Interlayer: Interface Microstructure and Strength Properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 371-383.	2.2	16
35	Structure and properties of solid state diffusion bonding of 17-4PH stainless steel and titanium. Materials Science and Technology, 2014, 30, 248-256.	1.6	9
36	Evolution of Phases and Mechanical Properties of Thermomechanically Processed Ultra High Strength Steels. Transactions of the Indian Institute of Metals, 2013, 66, 611-619.	1.5	5

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37	Diffusion Bonding of 17-4 Precipitation Hardening Stainless Steel to Ti Alloy With and Without Ni Alloy Interlayer: Interface Microstructure and Mechanical Properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 2196-2211.	2.2	19
38	Interfacial reactions and strength properties of diffusion bonded joints of Ti64 alloy and 17-4PH stainless steel using nickel alloy interlayer. Materials & Design, 2013, 51, 714-722.	5.1	34
39	Resonant locking in viscous and dry friction damper kinematically driving mechanical oscillators. Journal of Sound and Vibration, 2013, 332, 3499-3516.	3.9	8
40	Microstructure, texture, property relationship in thermo-mechanically processed ultra-low carbon microalloyed steel for pipeline application. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 587, 201-208.	5.6	56
41	Nonlinear dynamics of two harmonic oscillators coupled by Rayleigh type self-exciting force. Nonlinear Dynamics, 2013, 72, 113-128.	5.2	6
42	An Ultra-low Carbon, Thermomechanically Controlled Processed Microalloyed Steel: Microstructure and Mechanical Properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4835-4845.	2.2	27
43	On the stiffness-switching methods for generating self-excited oscillations in simple mechanical systems. Journal of Sound and Vibration, 2012, 331, 1742-1758.	3.9	10
44	Effects of temperature on interface microstructure and strength properties of titanium-niobium stainless steel diffusion bonded joints. Materials Science and Technology, 2011, 27, 1177-1182.	1.6	20
45	Structure and Properties of a Low-Carbon, Microalloyed, Ultra-High-Strength Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1051-1061.	2.2	19
46	Evolution of Microstructure and Mechanical Properties of Thermomechanically Processed Ultrahigh-Strength Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2742-2752.	2.2	30
47	On the efficacy of an active absorber with internal state feedback for controlling self-excited oscillations. Journal of Sound and Vibration, 2011, 330, 1285-1299.	3.9	8
48	Self-excited oscillation under nonlinear feedback with time-delay. Journal of Sound and Vibration, 2011, 330, 1860-1876.	3.9	42
49	Mechanical Properties and Nanocrystallization Behavior of Al-Ni-La Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 861-869.	2.2	8
50	On the efficacy of an inertial active device with internal time-delayed feedback for controlling self-excited oscillations. Journal of Sound and Vibration, 2010, 329, 2435-2449.	3.9	9
51	Optimal active absorber with internal state feedback for controlling resonant and transient vibration. Journal of Sound and Vibration, 2010, 329, 5397-5414.	3.9	30
52	On the Direct Diffusion Bonding of Titanium Alloy to Stainless Steel. Materials and Manufacturing Processes, 2010, 25, 1317-1323.	4.7	28
53	Effect of microstructures on deformation behaviour of high-strength low-alloy steel. Journal of Materials Science, 2009, 44, 1094-1100.	3.7	11
54	Time-delayed absorber for controlling friction-driven vibration. Journal of Sound and Vibration, 2009, 322, 39-59.	3.9	24

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55	Controlling friction-induced instability by recursive time-delayed acceleration feedback. Journal of Sound and Vibration, 2009, 328, 9-28.	3.9	14
56	Effect of reaction products on mechanical properties of diffusion bonded of titanium to 304 stainless steel with Cu interlayer joints. Transactions of the Indian Institute of Metals, 2008, 61, 457-464.	1.5	4
57	Interface Microstructure and Strength Properties of the Diffusion-Bonded Joints of Titanium $\hat{\wedge}$ Cu Interlayer $\hat{\wedge}$ Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2106-2114.	2.2	21
58	On the principle of impulse damper: A concept derived from impact damper. Journal of Sound and Vibration, 2008, 312, 584-605.	3.9	22
59	Vibration control by recursive time-delayed acceleration feedback. Journal of Sound and Vibration, 2008, 317, 67-90.	3.9	52
60	On the Design Criteria of Dynamic Vibration Absorbers for Controlling Friction-Induced Oscillations. JVC/Journal of Vibration and Control, 2008, 14, 397-415.	2.6	22
61	Magnetic and mechanical properties of Cu-strengthened aged HSLA-100 steel. Philosophical Magazine, 2007, 87, 5065-5078.	1.6	3
62	On the theoretical basis of vibro-frictional actuation in microsystems. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2007, 221, 119-131.	2.1	3
63	Non-linear control of friction-induced self-excited vibration. International Journal of Non-Linear Mechanics, 2007, 42, 459-469.	2.6	52
64	Time-delayed feedback control of friction-induced instability. International Journal of Non-Linear Mechanics, 2007, 42, 1127-1143.	2.6	40
65	Effects of Intermetallic Phases on the Bond Strength of Diffusion-Bonded Joints between Titanium and 304 Stainless Steel Using Nickel Interlayer. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 2053-2060.	2.2	53
66	On the generation of steady motion using fast-vibration. Journal of Sound and Vibration, 2005, 283, 1187-1204.	3.9	15
67	Effect of high-frequency excitation on a class of mechanical systems with dynamic friction. Journal of Sound and Vibration, 2004, 269, 61-89.	3.9	32
68	Non-trivial effect of fast vibration on the dynamics of a class of non-linearly damped mechanical systems. Journal of Sound and Vibration, 2003, 260, 711-730.	3.9	17
69	Controlling chaotic instability of cutting process by high-frequency excitation: a numerical investigation. Journal of Sound and Vibration, 2003, 267, 1184-1192.	3.9	13
70	PERIODIC RESPONSE OF PIECEWISE NON-LINEAR OSCILLATORS UNDER HARMONIC EXCITATION. Journal of Sound and Vibration, 1996, 191, 129-144.	3.9	32
71	BIFURCATIONS AND CHAOS IN AUTONOMOUS SELF-EXCITED OSCILLATORS WITH IMPACT DAMPING. Journal of Sound and Vibration, 1996, 191, 539-562.	3.9	38
72	IMPACT DAMPERS FOR CONTROLLING SELF-EXCITED OSCILLATION. Journal of Sound and Vibration, 1996, 193, 1003-1014.	3.9	30

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73	Three kinds of intermittency in a nonlinear mechanical system. <i>Physical Review E</i> , 1996, 53, 4362-4367.	2.1	16
74	ON IMPACT DAMPERS FOR NON-LINEAR VIBRATING SYSTEMS. <i>Journal of Sound and Vibration</i> , 1995, 187, 403-420.	3.9	53