

# 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	Microstructure, texture, property relationship in thermo-mechanically processed ultra-low carbon microalloyed steel for pipeline application. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 587, 201-208.	5.6	56
2	ON IMPACT DAMPERS FOR NON-LINEAR VIBRATING SYSTEMS. <i>Journal of Sound and Vibration</i> , 1995, 187, 403-420.	3.9	53
3	Effects of Intermetallic Phases on the Bond Strength of Diffusion-Bonded Joints between Titanium and 304 Stainless Steel Using Nickel Interlayer. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007, 38, 2053-2060.	2.2	53
4	Non-linear control of friction-induced self-excited vibration. <i>International Journal of Non-Linear Mechanics</i> , 2007, 42, 459-469.	2.6	52
5	Vibration control by recursive time-delayed acceleration feedback. <i>Journal of Sound and Vibration</i> , 2008, 317, 67-90.	3.9	52
6	Self-excited oscillation under nonlinear feedback with time-delay. <i>Journal of Sound and Vibration</i> , 2011, 330, 1860-1876.	3.9	42
7	Time-delayed feedback control of friction-induced instability. <i>International Journal of Non-Linear Mechanics</i> , 2007, 42, 1127-1143.	2.6	40
8	BIFURCATIONS AND CHAOS IN AUTONOMOUS SELF-EXCITED OSCILLATORS WITH IMPACT DAMPING. <i>Journal of Sound and Vibration</i> , 1996, 191, 539-562.	3.9	38
9	Interfacial reactions and strength properties of diffusion bonded joints of Ti64 alloy and 17-4PH stainless steel using nickel alloy interlayer. <i>Materials &amp; Design</i> , 2013, 51, 714-722.	5.1	34
10	Thermo-mechanically controlled processed ultrahigh strength steel: Microstructure, texture and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 663, 126-140.	5.6	33
11	PERIODIC RESPONSE OF PIECEWISE NON-LINEAR OSCILLATORS UNDER HARMONIC EXCITATION. <i>Journal of Sound and Vibration</i> , 1996, 191, 129-144.	3.9	32
12	Effect of high-frequency excitation on a class of mechanical systems with dynamic friction. <i>Journal of Sound and Vibration</i> , 2004, 269, 61-89.	3.9	32
13	IMPACT DAMPERS FOR CONTROLLING SELF-EXCITED OSCILLATION. <i>Journal of Sound and Vibration</i> , 1996, 193, 1003-1014.	3.9	30
14	Optimal active absorber with internal state feedback for controlling resonant and transient vibration. <i>Journal of Sound and Vibration</i> , 2010, 329, 5397-5414.	3.9	30
15	Evolution of Microstructure and Mechanical Properties of Thermomechanically Processed Ultrahigh-Strength Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 2742-2752.	2.2	30
16	On the Direct Diffusion Bonding of Titanium Alloy to Stainless Steel. <i>Materials and Manufacturing Processes</i> , 2010, 25, 1317-1323.	4.7	28
17	An Ultra-low Carbon, Thermomechanically Controlled Processed Microalloyed Steel: Microstructure and Mechanical Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4835-4845.	2.2	27
18	Structure-property relationship in a 2 $\hat{A}$ Pa grade micro-alloyed ultrahigh strength steel. <i>Journal of Alloys and Compounds</i> , 2017, 705, 817-827.	5.5	27

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19	Time-delayed absorber for controlling friction-driven vibration. Journal of Sound and Vibration, 2009, 322, 39-59.	3.9	24
20	On the principle of impulse damper: A concept derived from impact damper. Journal of Sound and Vibration, 2008, 312, 584-605.	3.9	22
21	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
22	Interface Microstructure and Strength Properties of the Diffusion-Bonded Joints of Titanium $\hat{\times}$ Cu Interlayer $\hat{\times}$ Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2106-2114.	2.2	21
23	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
24	Effects of temperature on interface microstructure and strength properties of titanium $\hat{\times}$ niobium stainless steel diffusion bonded joints. Materials Science and Technology, 2011, 27, 1177-1182.	1.6	20
25	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
26	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
27	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
28	Three kinds of intermittency in a nonlinear mechanical system. Physical Review E, 1996, 53, 4362-4367.	2.1	16
29	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
30	On the generation of steady motion using fast-vibration. Journal of Sound and Vibration, 2005, 283, 1187-1204.	3.9	15
31	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
32	Controlling friction-induced instability by recursive time-delayed acceleration feedback. Journal of Sound and Vibration, 2009, 328, 9-28.	3.9	14
33	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
34	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
35	Generating self-excited oscillation in a class of mechanical systems by relay-feedback. Nonlinear Dynamics, 2014, 76, 1253-1269.	5.2	13
36	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

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37	Influence of tuning of passive TLD on the seismic vibration control of elevated water tanks under various tank-full conditions. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1924.	4.0	13
38	High-frequency vibrational control of principal parametric resonance of a nonlinear cantilever beam: Theory and experiment. <i>Journal of Sound and Vibration</i> , 2021, 505, 116138.	3.9	13
39	Effect of microstructures on deformation behaviour of high-strength low-alloy steel. <i>Journal of Materials Science</i> , 2009, 44, 1094-1100.	3.7	11
40	Characterisation of microstructure, texture and mechanical properties in ultra low-carbon Ti-B microalloyed steels. <i>Metals and Materials International</i> , 2015, 21, 85-95.	3.4	11
41	On the stiffness-switching methods for generating self-excited oscillations in simple mechanical systems. <i>Journal of Sound and Vibration</i> , 2012, 331, 1742-1758.	3.9	10
42	Tangential acceleration feedback control of friction induced vibration. <i>Journal of Sound and Vibration</i> , 2016, 377, 22-37.	3.9	10
43	State feedback control of surge oscillations of two-point mooring system. <i>Journal of Sound and Vibration</i> , 2017, 386, 1-20.	3.9	10
44	Effect of Annealing on the Microstructure, Texture and Mechanical Properties of a Dual-Phase Ultrahigh-strength TWIP Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 4483-4498.	2.2	10
45	On the efficacy of an inertial active device with internal time-delayed feedback for controlling self-excited oscillations. <i>Journal of Sound and Vibration</i> , 2010, 329, 2435-2449.	3.9	9
46	Structure and properties of solid state diffusion bonding of 17-4PH stainless steel and titanium. <i>Materials Science and Technology</i> , 2014, 30, 248-256.	1.6	9
47	Mechanical Properties and Nanocrystallization Behavior of Al-Ni-La Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 861-869.	2.2	8
48	On the efficacy of an active absorber with internal state feedback for controlling self-excited oscillations. <i>Journal of Sound and Vibration</i> , 2011, 330, 1285-1299.	3.9	8
49	Resonant locking in viscous and dry friction damper kinematically driving mechanical oscillators. <i>Journal of Sound and Vibration</i> , 2013, 332, 3499-3516.	3.9	8
50	Response of a Harmonically Forced Dry Friction Damped System Under Time-Delayed State Feedback. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018, 13, .	1.2	8
51	Limit cycle oscillation and multiple entrainment phenomena in a duffing oscillator under time-delayed displacement feedback. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 2742-2756.	2.6	7
52	Mitigating vortex-induced vibration by acceleration feedback control. <i>International Journal of Dynamics and Control</i> , 2020, 8, 570-580.	2.5	7
53	Nonlinear dynamics of two harmonic oscillators coupled by Rayleigh type self-exciting force. <i>Nonlinear Dynamics</i> , 2013, 72, 113-128.	5.2	6
54	Nonlinear control of stick-slip oscillations by normal force modulation. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 1427-1439.	2.6	6

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55	Deformation behaviour of a low carbon high Mn TWIP/TRIP steel. <i>Materials Science and Technology</i> , 2019, 35, 1483-1496.	1.6	6
56	Nonlinear feedback anti-control of limit cycle and chaos in a mechanical oscillator: theory and experiment. <i>Nonlinear Dynamics</i> , 2021, 104, 3223-3246.	5.2	6
57	Evolution of Phases and Mechanical Properties of Thermomechanically Processed Ultra High Strength Steels. <i>Transactions of the Indian Institute of Metals</i> , 2013, 66, 611-619.	1.5	5
58	Amplitude Controlled Adaptive Feedback Resonance in a Single Degree-of-Freedom Mass-Spring Mechanical System. <i>Procedia Engineering</i> , 2016, 144, 697-704.	1.2	5
59	Controlling self-excited vibration using acceleration feedback with time-delay. <i>International Journal of Dynamics and Control</i> , 2019, 7, 1521-1531.	2.5	5
60	Nonlinear dynamics of vortex-induced vibration of a nonlinear beam under high-frequency excitation. <i>International Journal of Non-Linear Mechanics</i> , 2021, 129, 103656.	2.6	5
61	Effect of reaction products on mechanical properties of diffusion bonded of titanium to 304 stainless steel with Cu interlayer joints. <i>Transactions of the Indian Institute of Metals</i> , 2008, 61, 457-464.	1.5	4
62	Effects of Thermo-mechanical Process Parameters on Microstructure and Crystallographic Texture of High Ni-Mo Ultrahigh Strength Steel. <i>Metallography, Microstructure, and Analysis</i> , 2018, 7, 222-238.	1.0	4
63	Modal self-excitation in a class of mechanical systems by nonlinear displacement feedback. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 784-796.	2.6	4
64	Nonlinear roll oscillation of semisubmersible system and its control. <i>International Journal of Non-Linear Mechanics</i> , 2018, 107, 42-55.	2.6	4
65	Efficacy of Semi-active Absorber for Controlling Self-excited Vibration. <i>Journal of the Institution of Engineers (India): Series C</i> , 2020, 101, 97-103.	1.2	4
66	Magnetic and mechanical properties of Cu-strengthened aged HSLA-100 steel. <i>Philosophical Magazine</i> , 2007, 87, 5065-5078.	1.6	3
67	On the theoretical basis of vibro-frictional actuation in microsystems. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2007, 221, 119-131.	2.1	3
68	Modeling and design of direct nonlinear velocity feedback for modal self-excitation in a class of multi degrees-of-freedom mechanical systems. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 656-672.	2.6	3
69	Deformation and annealing behaviour of a low carbon high Mn TWIP steel microalloyed with Ti. <i>Philosophical Magazine</i> , 2019, 99, 2487-2516.	1.6	3
70	Controlling self-excited vibration using positive position feedback with time-delay. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	3
71	Nonlinear feedback self-excitation of modal oscillations in a class of under-actuated two degrees-of-freedom mechanical systems. <i>International Journal of Non-Linear Mechanics</i> , 2021, 135, 103768.	2.6	3
72	Correlation Between Structure and Properties of Low-Carbon Cu-Ni-Mo-Ti-Nb Ultrahigh-Strength Steel. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 6516-6528.	2.5	1

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73	Insights into the microstructural parameters and mechanical property correlation of Al <sub>3</sub> Ti phase reinforced Al based nanocomposites. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 1459-1470.	0.9	1
74	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