## Surajit Sen

## List of Publications by Year

 in descending orderSource: https:/|exaly.com/author-pdf/7918870/publications.pdf
Version: 2024-02-01


2 Granular chains with fixed side decoration as impact protector and signals filter. Physical Review E, 2021, 103, 042904.
Small nanoparticles, surface geometry and contact forces. Proceedings of the Royal Society A:
Mathematical, Physical and Engineering Sciences, 2018, 474, 20170723.

Possibility of useful mechanical energy from noise: the solitary wave train problem in the granular
Early time evolution of a localized nonlinear excitation in the $\hat{2}$-FPUT chain. International Journal of
Modern Physics B, 2017, 31, 1742014.


20 Simulation, modeling and dynamical analysis of multibody flows. International Journal of Modern
Solitary wave propagation through two-dimensional treelike structures. Physical Review E, 2014, 89,
023209 .
$0.8 \quad 5$

30 Granular chain between asymmetric boundaries and the quasiequilibrium state. Physical Review E , 2014, 89, 053202.
0.8

11
2014, 89, 053202.

31 Newtonian chimpanzees? A molecular dynamics approach to understanding decision-making by wild chimpanzees. , 2014, , 81-102.

32 Strong plastic deformation and softening of fast colliding nanoparticles. Physical Review E, 2014, 89, 033308.

```
33 Spin Brazil-nut effect and its reverse in a rotating double-walled drum. European Physical Journal E,
2013, 36, }9855
```

SIMULINK MODELING FOR CIRCUIT REPRESENTATION OF GRANULAR CHAINS. Modern Physics Letters B,
2013, 27, 1350093.
1.0

$$
\begin{aligned}
& 37 \text { Sustained strong fluctuations in a nonlinear chain at acoustic vacuum: Beyond equilibrium. Physical } \\
& \text { Review E, 2011, 84, 046610. }
\end{aligned}
$$

38 Linearity stabilizes discrete breathers. Pramana - Journal of Physics, 2011, 77, 975-986.
$0.9 \quad 5$

Dynamics of stochastic and nearly stochastic two-party competitions. Physica A: Statistical Mechanics
and Its Applications, 2011, 390, 1800-1810.

Nonlinear repulsive force between two solids with axial symmetry. Physical Review E, 2011, 83, 066605.
0.8

29
41 Impulse absorption using small, hard panels of embedded cylinders with granular alignments. Applied Physics Letters, 2011, 99, .
AGENT BASED STUDY OF SURPRISE ATTACKS: ROLES OF SURVEILLANCE, PROMPT REACTION AND
INTELLIGENCE. Modern Physics Letters B, 2011, 25, 2279-2287.
43 Dynamics of metastable breathers in nonlinear chains in acoustic vacuum. Physical Review E, 2009, 79, 036603.
44 How solitary waves collide in discrete granular alignments. Physical Review E, 2009, 79, 046607. ..... 0.8 ..... 26
45 Nonlinear, Statistical and Applied Physics of Solitary Wave-like Objects in Granular Systems. , 2009, , . ..... 01.136
Energy partitioning and impulse dispersion in the decorated, tapered, strongly nonlinear granularalignment: A system with many potential applications. Journal of Applied Physics, 2009, 106, .
47 Solitary waves in the granular chain. Physics Reports, 2008, 462, 21-66. ..... 10.3 ..... 365
Multi-agent Model Analysis of the Containment Strategy for Avian Influenza (AI) in South Korea. ,2008, , .
A COMPUTATIONAL MODEL FOR LESION DYNAMICS IN MULTIPLE SCLEROSIS OF THE BRAIN. InternationalJournal of Modern Physics E, 2008, 17, 930-939.
0.4 ..... 10WINNING A BATTLE: THE IMPORTANCE OF KNOWING THE â€œNEICHBORHOODâ€: International Journal of
0.4 ..... 1
Modern Physics E, 2008, 17, 924-929.
51 Solitary wave train formation in Hertzian chains. Europhysics Letters, 2007, 77, 24002. ..... 0.7 ..... 691.58
Preferred frequencies for three unconsolidated earth materials. Applied Physics Letters, 2007, 91,254103.53 Acoustic interrogation of soil and possible remote detection of shallow buried inclusions. , 2007, , .1

| 57 | USING MECHANICAL ENERGY AS A PROBE FOR THE DETECTION AND IMACING OF SHALLOW BURIED |
| :--- | :--- | :--- |
| INCLUSIONS IN DRY GRANULAR BEDS. International Journal of Modern Physics B, 2005, 19, 2951-2973. |  |

60 The quasi-equilibrium phase in nonlinear 1D systems. Physica A: Statistical Mechanics and Its

Secondary solitary wave formation in systems with generalized Hertz interactions. Physical Review E, 2002, 66, 016616.

$65 \quad \begin{aligned} & \text { Solitary wave dynamics in generalized } \\ & \text { Physical Review E, 2001, 64, 056605. }\end{aligned}$
$0.8 \quad 97$
66 Nonlinear acoustics in granular assemblies. Granular Matter, 2001, 3, 33-39.1.1211.1

[^0]$1.3 \quad 95$

68 Thermalizing an impulse. Physica A: Statistical Mechanics and Its Applications, 2001, 299, 551-558.
1.2

52

$$
\begin{aligned}
& \text { Impulse acoustics based ejection of ferrofluid grains from a ferrofluid: the blueprint of a concept } \\
& \text { for a nozzle-free inkjet printer. Materials Research Society Symposia Proceedings, 2000, 627, } 1 .
\end{aligned}
$$

0.1

3

70 Crossing of identical solitary waves in a chain of elastic beads. Physical Review E, 2000, 63, 016614.

The propagation and backscattering of soliton-like pulses in a chain of quartz beads and related

```
75 Discrete Hertzian chains and solitons. Physica A: Statistical Mechanics and Its Applications, 1999, 268,Algebraic Relaxation Laws for Classical Particles in 1D Anharmonic Potentials. Physical Review
81 2D Lattices on Substrates with Randomly Distributed Pinning Centers: A Possible Scaling Law for
\begin{tabular}{ll}
\(83 \quad\)\begin{tabular}{l} 
Aspects of non-ergpdicity in Hermitian systems. Physica A: Statistical Mechanics and lts Applications, \\
\(1992,186,285-297\)
\end{tabular} \\
\(84 \quad\)\begin{tabular}{l} 
Solving the Liouville equation to probe relaxation in strongly nonlinear systems. International \\
Journal of Modern Physics B, 0, ,
\end{tabular} & 1.2
\end{tabular}```


[^0]:    67 Impulse propagation in dissipative and disordered chains with power-law repulsive potentials. Physica
    D: Nonlinear Phenomena, 2001, 157, 226-240.

