

Ranajay Ghosh

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,031
citations

567144

15
h-index

434063

31
g-index

36
all docs

36
docs citations

36
times ranked

1077
citing authors

#	ARTICLE	IF	CITATIONS
1	Origami-based cellular metamaterial with auxetic, bistable, and self-locking properties. Scientific Reports, 2017, 7, 46046.	1.6	143
2	Hierarchical honeycomb auxetic metamaterials. Scientific Reports, 2016, 5, 18306.	1.6	140
3	Advanced Micro-Lattice Materials. Advanced Engineering Materials, 2015, 17, 1253-1264.	1.6	137
4	Hydrodynamics and surface properties influence biofilm proliferation. Advances in Colloid and Interface Science, 2021, 288, 102336.	7.0	107
5	Honeycomb phononic crystals with self-similar hierarchy. Physical Review B, 2015, 92, .	1.1	103
6	Contact kinematics of biomimetic scales. Applied Physics Letters, 2014, 105, .	1.5	52
7	Bacterial floc mediated rapid streamer formation in creeping flows. Scientific Reports, 2015, 5, 13070.	1.6	35
8	Dynamics of bacterial streamers induced clogging in microfluidic devices. Lab on A Chip, 2016, 16, 4091-4096.	3.1	34
9	Origami-Inspired Cellular Metamaterial With Anisotropic Multi-Stability. Advanced Engineering Materials, 2019, 21, 1800895.	1.6	30
10	Frictional effects in biomimetic scales engagement. Europhysics Letters, 2016, 113, 34003.	0.7	22
11	Non-ideal effects in bending response of soft substrates covered with biomimetic scales. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 72, 1-5.	1.5	19
12	Bending of biomimetic scale covered beams under discrete non-periodic engagement. International Journal of Solids and Structures, 2019, 166, 22-31.	1.3	19
13	Nonlinear deformation and localized failure of bacterial streamers in creeping flows. Scientific Reports, 2016, 6, 32204.	1.6	18
14	Frictional Damping from Biomimetic Scales. Scientific Reports, 2019, 9, 14628.	1.6	18
15	Transverse vibration and stability of a functionally graded rotating annular disk with a circumferential crack. International Journal of Mechanical Sciences, 2016, 113, 26-35.	3.6	16
16	Bacterial streamers as colloidal systems: Five grand challenges. Journal of Colloid and Interface Science, 2021, 594, 265-278.	5.0	14
17	Highly Anisotropic Adhesive Film Made from Upside-Down, Flat, and Uniform Vertically Aligned CNTs. ACS Applied Materials & Interfaces, 2016, 8, 34061-34067.	4.0	13
18	Tailorable twisting of biomimetic scale-covered substrate. Europhysics Letters, 2019, 127, 24002.	0.7	13

#	ARTICLE	IF	CITATIONS
19	Tailorable elasticity of cantilever using spatio-angular functionally graded biomimetic scales. <i>Mechanics of Soft Materials</i> , 2019, 1, 1.	0.4	12
20	Origami-equivalent compliant mechanism. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	11
21	High-speed microjets issue from bursting oil gland reservoirs of citrus fruit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5887-E5895.	3.3	9
22	Coulomb friction in twisting of biomimetic scale-covered substrate. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 056013.	1.5	8
23	Fish scale inspired structures - a review of materials, manufacturing and models. <i>Bioinspiration and Biomimetics</i> , 0, , .	1.5	8
24	Lattice Materials with Reversible Foldability. <i>Advanced Engineering Materials</i> , 2017, 19, 1600646.	1.6	7
25	Bending behavior of biomimetic scale covered beam with tunable stiffness scales. <i>Scientific Reports</i> , 2020, 10, 17083.	1.6	7
26	Computational Model of Mechano-Electrochemical Effect of Aluminum Alloys Corrosion. <i>Journal of Engineering for Gas Turbines and Power</i> , 2022, 144, .	0.5	7
27	Near wall void growth leads to disintegration of colloidal bacterial streamer. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 249-255.	5.0	6
28	Fish scales: Primitive basis for modern metamaterials. <i>Europhysics Letters</i> , 2021, 133, 68001.	0.7	6
29	Type-IV Pilus Deformation Can Explain Retraction Behavior. <i>PLoS ONE</i> , 2014, 9, e114613.	1.1	6
30	Coupled bend&twist mechanics of biomimetic scale substrate. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 159, 104711.	2.3	6
31	Color and Morphology Camouflaging using Biomimetic Scales. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900021.	3.3	2
32	Fouling of mammalian hair fibres exposed to a titanium dioxide colloidal suspension. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210904.	1.5	2
33	Energy harvesting using snap-through deformation in lattice structures. <i>Applied Physics Letters</i> , 2018, 113, 253902.	1.5	1
34	<i>In situ</i> Measurement of the Adhesion Strength and Effective Elastic Stiffness of Single Soft Micropillar. <i>Journal of Adhesion</i> , 2015, 91, 369-380.	1.8	0
35	10.1063/1.5115790.1. , 2019, , .		0