Ranajay Ghosh

List of Publications by Year in descending order

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		566801	433756
35	1,031	15	31
papers	citations	h-index	g-index

36	36	36	1077
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Computational Model of Mechano-Electrochemical Effect of Aluminum Alloys Corrosion. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	0.5	7
2	Coupled bendâ€“twist mechanics of biomimetic scale substrate. Journal of the Mechanics and Physics of Solids, 2022, 159, 104711.	2.3	6
3	Fouling of mammalian hair fibres exposed to a titanium dioxide colloidal suspension. Journal of the Royal Society Interface, 2022, 19, 20210904.	1.5	2
4	Hydrodynamics and surface properties influence biofilm proliferation. Advances in Colloid and Interface Science, 2021, 288, 102336.	7.0	107
5	Fish scales: Primitive basis for modern metamaterials. Europhysics Letters, 2021, 133, 68001.	0.7	6
6	Bacterial streamers as colloidal systems: Five grand challenges. Journal of Colloid and Interface Science, 2021, 594, 265-278.	5.0	14
7	Bending behavior of biomimetic scale covered beam with tunable stiffness scales. Scientific Reports, 2020, 10, 17083.	1.6	7
8	Coulomb friction in twisting of biomimetic scale-covered substrate. Bioinspiration and Biomimetics, 2020, 15, 056013.	1.5	8
9	Origami-equivalent compliant mechanism. Applied Physics Letters, 2019, 115, .	1.5	11
10	Frictional Damping from Biomimetic Scales. Scientific Reports, 2019, 9, 14628.	1.6	18
11	Tailorable twisting of biomimetic scale-covered substrate. Europhysics Letters, 2019, 127, 24002.	0.7	13
12	Tailorable elasticity of cantilever using spatio-angular functionally graded biomimetic scales. Mechanics of Soft Materials, 2019, 1, 1.	0.4	12
13	Color and Morphology Camouflaging using Biomimetic Scales. Advanced Intelligent Systems, 2019, 1, 1900021.	3.3	2
14	Bending of biomimetic scale covered beams under discrete non-periodic engagement. International Journal of Solids and Structures, 2019, 166, 22-31.	1.3	19
15	Origamiâ€Inspired Cellular Metamaterial With Anisotropic Multiâ€Stability. Advanced Engineering Materials, 2019, 21, 1800895.	1.6	30
16	10.1063/1.5115790.1. , 2019, , .		0
17	Near wall void growth leads to disintegration of colloidal bacterial streamer. Journal of Colloid and Interface Science, 2018, 522, 249-255.	5.0	6
18	Energy harvesting using snap-through deformation in lattice structures. Applied Physics Letters, 2018, 113, 253902.	1.5	1

#	Article	IF	Citations
19	High-speed microjets issue from bursting oil gland reservoirs of citrus fruit. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5887-E5895.	3.3	9
20	Lattice Materials with Reversible Foldability. Advanced Engineering Materials, 2017, 19, 1600646.	1.6	7
21	Origami-based cellular metamaterial with auxetic, bistable, and self-locking properties. Scientific Reports, 2017, 7, 46046.	1.6	143
22	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
23	Hierarchical honeycomb auxetic metamaterials. Scientific Reports, 2016, 5, 18306.	1.6	140
24	Nonlinear deformation and localized failure of bacterial streamers in creeping flows. Scientific Reports, 2016, 6, 32204.	1.6	18
25	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
26	Dynamics of bacterial streamers induced clogging in microfluidic devices. Lab on A Chip, 2016, 16, 4091-4096.	3.1	34
27	Frictional effects in biomimetic scales engagement. Europhysics Letters, 2016, 113, 34003.	0.7	22
28	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
29	Honeycomb phononic crystals with self-similar hierarchy. Physical Review B, 2015, 92, .	1.1	103
30	Bacterial floc mediated rapid streamer formation in creeping flows. Scientific Reports, 2015, 5, 13070.	1.6	35
31	Advanced Microâ€Lattice Materials. Advanced Engineering Materials, 2015, 17, 1253-1264.	1.6	137
32	In situ Measurement of the Adhesion Strength and Effective Elastic Stiffness of Single Soft Micropillar. Journal of Adhesion, 2015, 91, 369-380.	1.8	0
33	Contact kinematics of biomimetic scales. Applied Physics Letters, 2014, 105, .	1.5	52
34	Type-IV Pilus Deformation Can Explain Retraction Behavior. PLoS ONE, 2014, 9, e114613.	1.1	6
35	Fish scale inspired structures - a review of materials, manufacturing and models. Bioinspiration and Biomimetics, 0, , .	1.5	8