Ishan Sharma

List of Publications by Year
in descending order

30 papers	318 citations	1040056 9 h-index	839539 18 g-index
30 all docs	30 docs citations	30 times ranked	283 citing authors

#	Article	IF	Citations
1	Nutational damping times in solids of revolution. Monthly Notices of the Royal Astronomical Society, 2005, 359, 79-92.	4.4	51
2	Tidal encounters of ellipsoidal granular asteroids with planets. Icarus, 2006, 183, 312-330.	2.5	41
3	Dynamical passage to approximate equilibrium shapes for spinning, gravitating rubble asteroids. Icarus, 2009, 200, 304-322.	2.5	40
4	The equilibrium of rubble-pile satellites: The Darwin and Roche ellipsoids for gravitationally held granular aggregates. Icarus, 2009, 200, 636-654.	2.5	32
5	A simplified model for inelastic behavior of an idealized granular material. International Journal of Plasticity, 2008, 24, 168-189.	8.8	24
6	A novel microfluidic switch for pH control using Chitosan based hydrogels. Microsystem Technologies, 2014, 20, 1373-1381.	2.0	20
7	Structural stability of rubble-pile asteroids. Icarus, 2013, 223, 367-382.	2.5	14
8	Investigation of Planar and Helical Bend Losses in Single- and Few-Mode Optical Fibers. Journal of Lightwave Technology, 2019, 37, 3544-3556.	4.6	14
9	Equilibrium shapes of rubble-pile binaries: The Darwin ellipsoids for gravitationally held granular aggregates. Icarus, 2010, 205, 638-657.	2.5	13
10	Stability of rubble-pile satellites. Icarus, 2014, 229, 278-294.	2.5	9
11	Contact of a Rigid Cylindrical Punch with an Adhesive Elastic Layer. Journal of Adhesion, 2012, 88, 1-31.	3.0	8
12	Stability of rotating non-smooth complex fluids. Journal of Fluid Mechanics, 2012, 708, 71-99.	3.4	7
13	Planar equilibria of sessile and pendant liquid drops on geometrically non-linear elastic membranes. Physics of Fluids, 2018, 30, 082114.	4.0	6
14	Stability of binaries. Part 1: Rigid binaries. Icarus, 2015, 258, 438-453.	2.5	5
15	Indentation of adhesive beams. International Journal of Solids and Structures, 2018, 141-142, 137-157.	2.7	5
16	Dynamics of variable length geometrically exact beams in three-dimensions. International Journal of Solids and Structures, 2020, 191-192, 614-627.	2.7	5
17	Stability of binaries. Part II: Rubble-pile binaries. Icarus, 2016, 277, 125-140.	2.5	4
18	An exact dual-integral formulation of the indentation of finite, free-standing, end-supported adhesive elastic layers. Mathematics and Mechanics of Solids, 2019, 24, 1294-1319.	2.4	3

#	Article	IF	Citations
19	Granular flow on a rotating and gravitating elliptical body. Journal of Fluid Mechanics, 2021, 916, .	3.4	3
20	Transient planar dynamics of cable-payload systems using geometrically exact beam theory. International Journal of Mechanical Sciences, 2022, 224, 107271.	6.7	3
21	Rings of non-spherical, axisymmetric bodies. Icarus, 2018, 299, 97-116.	2.5	2
22	Dynamics and Stability of Variable-Length, Vertically-Traveling, Heavy Cables: Application to Tethered Aerostats. Journal of Aircraft, 2019, 56, 68-84.	2.4	2
23	Semi-analytical approach for calculation of intercore crosstalk in multicore fibers. Optical Fiber Technology, 2020, 60, 102366.	2.7	2
24	Indentation of a Periodically Layered, Planar, Elastic Half-Space. Journal of Elasticity, 2020, 141, 1-30.	1.9	2
25	Three-Dimensional Dynamics of Towed Underslung Systems Using Geometrically Exact Beam Theory. AIAA Journal, 2021, 59, 1469-1482.	2.6	2
26	High-speed impacts of slender bodies into non-smooth, complex fluids. Journal of Fluid Mechanics, 2019, 861, .	3.4	1
27	Axial segregation in horizontally vibrated granular materials: A numerical study. KSCE Journal of Civil Engineering, 2009, 13, 289-296.	1.9	0
28	Structural integrity of rubble asteroidal satellites. Icarus, 2019, 319, 770-784.	2.5	0
29	Estimating forces during ploughing of a granularÂbed. Journal of Fluid Mechanics, 2019, 875, 376-410.	3.4	0
30	Regolith flow on top-shaped asteroids. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, .	2.1	0