Arun K Singh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7977496/publications.pdf

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25	205	1163117 8	1125743 13
papers	citations	h-index	g-index

30	30	30	111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Steady dynamic friction at elastomerâ€“hard solid interface: A model based on population balance of bonds. Soft Matter, 2011, 7, 10601.	2.7	29
2	Adhesion of Microchannel-Based Complementary Surfaces. Langmuir, 2012, 28, 4213-4222.	3.5	20
3	Energy release rate of gelatin hydrogels on glass surface in direct shear sliding experiments. Journal of Adhesion Science and Technology, 2018, 32, 1899-1910.	2.6	16
4	Scaling laws of gelatin hydrogels for steady dynamic friction. International Journal of Modern Physics B, 2016, 30, 1650198.	2.0	15
5	Prediction of factor of safety of a slope with an advanced friction model. International Journal of Rock Mechanics and Minings Sciences, 2012, 55, 164-167.	5.8	12
6	An experimental study on stick-slip of gelatin hydrogels using fracture mechanics. Materials Research Express, 2018, 5, 085301.	1.6	12
7	Stress relaxation at a gelatin hydrogelâ€“glass interface in direct shear sliding. Modern Physics Letters B, 2018, 32, 1750345.	1.9	11
8	Frictional Study of the Soft and Hard Solid Interface Using Response Surface Methodology. Journal of Tribology, 2018, 140, .	1.9	10
9	Simulation of Frictional Strength and Steady Relaxation Using the Rate and State Dependent Friction Model. Pure and Applied Geophysics, 2013, 170, 247-257.	1.9	8
10	Ergonomic Study and Design of the Pulpit of a Wire Rod Mill at an Integrated Steel Plant. Journal of Industrial Engineering, 2015, 2015, 1-11.	0.6	8
11	Stability of the rate, state and temperature dependent friction model and its applications. Geophysical Journal International, 2016, 205, 636-647.	2.4	8
12	Specimen Thickness Dependency of Energy Release Rate of a Gelatin Hydrogel and Glass Substrate Interface. Journal of Tribology, 2019, 141, .	1.9	7
13	A model for frictional stress relaxation at the interface between a soft and a hard solid. Journal of the Mechanics and Physics of Solids, 2021, 146, 104191.	4.8	7
14	The Effect of Carbon Nanotubes Based Nanolubricant on Stickâ€“Slip Behavior. Transactions of the Indian Institute of Metals, 2018, 71, 1061-1065.	1.5	7
15	Natural frequencies of multiple pendulum systems under free condition. Archive of Applied Mechanics, 2016, 86, 1049-1061.	2.2	6
16	Determination of work of adhesion of gelatin hydrogels on a glass substrate. Materials Research Express, 2018, 5, 045302.	1.6	6
17	Mass and Length Dependent Chaotic Behavior of a Double Pendulum. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 297-301.	0.4	5
18	Shear Rateâ€“Dependent Frictional Properties of a Wet Granular Layer. International Journal of Geomechanics, 2022, 22, .	2.7	4

#	Article	IF	Citations
19	Stabilization of triple link inverted pendulum system based on LQR control technique. , 2014, , .		3
20	Dynamic Stability of the Rate, State, Temperature, and Pore Pressure Friction Model at a Rock Interface. Pure and Applied Geophysics, 2019, 176, 4969-4982.	1.9	3
21	The effect of inertia, viscous damping, temperature and normal stress on chaotic behaviour of the rate and state friction model. Journal of Earth System Science, 2018, 127, 1.	1.3	2
22	Effect of residual strength on frictional properties of a soft and hard solid interface. Materials Research Express, 2019, 6, 085317.	1.6	1
23	EXPERIMENTAL STUDY ON STEADY DYNAMIC FRICTION OF MWCNTs MIXED LUBRICANTS. Surface Review and Letters, 2020, 27, 1950172.	1.1	1
24	Friction of hard surfaces and its application in earthquakes and rock slope stability. AIP Conference Proceedings, 2018, , .	0.4	0
25	An Experimental Study on Adhesion, Friction and Stick-Slip Phenomena. Lecture Notes in Mechanical Engineering, 2020, , 581-587.	0.4	0