

Kyle D Schulze

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,151
citations

567281

15
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

1225
citing authors

#	ARTICLE	IF	CITATIONS
1	Meeting the Contact-Mechanics Challenge. Tribology Letters, 2017, 65, 1.	2.6	232
2	Self-assembled micro-organogels for 3D printing silicone structures. Science Advances, 2017, 3, e1602800.	10.3	195
3	Mesh Size Control of Polymer Fluctuation Lubrication in Gemini Hydrogels. Biotribology, 2015, 1-2, 24-29.	1.9	100
4	The effect of surface roughness and viscoelasticity on rubber adhesion. Soft Matter, 2017, 13, 3602-3621.	2.7	89
5	Polymer fluctuation lubrication in hydrogel gemini interfaces. Soft Matter, 2014, 10, 8955-8962.	2.7	77
6	Quantitative characterization of 3D bioprinted structural elements under cell generated forces. Nature Communications, 2019, 10, 3029.	12.8	73
7	Stability of High Speed 3D Printing in Liquid-Like Solids. ACS Biomaterials Science and Engineering, 2016, 2, 1796-1799.	5.2	57
8	Polymer Osmotic Pressure in Hydrogel Contact Mechanics. Biotribology, 2017, 11, 3-7.	1.9	50
9	Contact Measurements of Randomly Rough Surfaces. Tribology Letters, 2017, 65, 1.	2.6	28
10	Elastic modulus and hydraulic permeability of MDCK monolayers. Journal of Biomechanics, 2017, 53, 210-213.	2.1	26
11	In Situ Measurements of Contact Dynamics in Speed-dependent Hydrogel Friction. Biotribology, 2018, 13, 23-29.	1.9	26
12	Eliminating the surface location from soft matter contact mechanics measurements. Tribology - Materials, Surfaces and Interfaces, 2017, 11, 187-192.	1.4	23
13	Real Area of Contact in a Soft Transparent Interface by Particle Exclusion Microscopy. Journal of Tribology, 2016, 138, .	1.9	20
14	Lubricous Hydrogel Surface Coatings on Polydimethylsiloxane (PDMS). Tribology Letters, 2017, 65, 1.	2.6	20
15	Contact and Deformation of Randomly Rough Surfaces with Varying Root-Mean-Square Gradient. Tribology Letters, 2017, 65, 1.	2.6	17
16	Spherically capped membrane probes for low contact pressure tribology. Biotribology, 2017, 11, 69-72.	1.9	16
17	Considerations for Biotribometers: Cells, Gels, and Tissues. Tribology Letters, 2018, 66, 1.	2.6	16
18	The Role of Microstructure in Ultralow Wear Fluoropolymer Composites. Tribology Transactions, 2019, 62, 135-143.	2.0	16

#	ARTICLE	IF	CITATIONS
19	Review: Friction and Lubrication with High Water Content Crosslinked Hydrogels. Tribology Letters, 2020, 68, 1.	2.6	16
20	Kinetics of aqueous lubrication in the hydrophilic hydrogel Gemini interface. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2015, 229, 889-894.	1.8	14
21	Challenges and opportunities in soft tribology. Tribology - Materials, Surfaces and Interfaces, 2017, 11, 180-186.	1.4	14
22	Deformation Measurements of Randomly Rough Surfaces. Tribology Letters, 2017, 65, 1.	2.6	9
23	Dynamic Subsurface Deformation and Strain of Soft Hydrogel Interfaces Using an Embedded Speckle Pattern With 2D Digital Image Correlation. Experimental Mechanics, 2021, 61, 1017-1027.	2.0	7
24	Lâ€™Escargot Rapide: Soft Contacts at High Speeds. Tribology Letters, 2014, 55, 65-68.	2.6	5
25	Low force, high noise: Isolating indentation forces through autocorrelation analysis. Biotribology, 2019, 20, 100110.	1.9	4
26	Lessons from the Lollipop: Biotribology, Tribocorrosion, and Irregular Surfaces. Tribology Letters, 2014, 56, 273-280.	2.6	1