

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

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all docs

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docs citations

26
times ranked

1225
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Subsurface Deformation and Strain of Soft Hydrogel Interfaces Using an Embedded Speckle Pattern With 2D Digital Image Correlation. <i>Experimental Mechanics</i> , 2021, 61, 1017-1027.	2.0	7
2	Review: Friction and Lubrication with High Water Content Crosslinked Hydrogels. <i>Tribology Letters</i> , 2020, 68, 1.	2.6	16
3	The Role of Microstructure in Ultralow Wear Fluoropolymer Composites. <i>Tribology Transactions</i> , 2019, 62, 135-143.	2.0	16
4	Quantitative characterization of 3D bioprinted structural elements under cell generated forces. <i>Nature Communications</i> , 2019, 10, 3029.	12.8	73
5	Low force, high noise: Isolating indentation forces through autocorrelation analysis. <i>Biotribology</i> , 2019, 20, 100110.	1.9	4
6	In Situ Measurements of Contact Dynamics in Speed-dependent Hydrogel Friction. <i>Biotribology</i> , 2018, 13, 23-29.	1.9	26
7	Considerations for Biotribometers: Cells, Gels, and Tissues. <i>Tribology Letters</i> , 2018, 66, 1.	2.6	16
8	The effect of surface roughness and viscoelasticity on rubber adhesion. <i>Soft Matter</i> , 2017, 13, 3602-3621.	2.7	89
9	Polymer Osmotic Pressure in Hydrogel Contact Mechanics. <i>Biotribology</i> , 2017, 11, 3-7.	1.9	50
10	Spherically capped membrane probes for low contact pressure tribology. <i>Biotribology</i> , 2017, 11, 69-72.	1.9	16
11	Self-assembled micro-organogels for 3D printing silicone structures. <i>Science Advances</i> , 2017, 3, e1602800.	10.3	195
12	Elastic modulus and hydraulic permeability of MDCK monolayers. <i>Journal of Biomechanics</i> , 2017, 53, 210-213.	2.1	26
13	Lubricous Hydrogel Surface Coatings on Polydimethylsiloxane (PDMS). <i>Tribology Letters</i> , 2017, 65, 1.	2.6	20
14	Contact and Deformation of Randomly Rough Surfaces with Varying Root-Mean-Square Gradient. <i>Tribology Letters</i> , 2017, 65, 1.	2.6	17
15	Meeting the Contact-Mechanics Challenge. <i>Tribology Letters</i> , 2017, 65, 1.	2.6	232
16	Deformation Measurements of Randomly Rough Surfaces. <i>Tribology Letters</i> , 2017, 65, 1.	2.6	9
17	Contact Measurements of Randomly Rough Surfaces. <i>Tribology Letters</i> , 2017, 65, 1.	2.6	28
18	Challenges and opportunities in soft tribology. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2017, 11, 180-186.	1.4	14

#	ARTICLE	IF	CITATIONS
19	Eliminating the surface location from soft matter contact mechanics measurements. Tribology - Materials, Surfaces and Interfaces, 2017, 11, 187-192.	1.4	23
20	Stability of High Speed 3D Printing in Liquid-Like Solids. ACS Biomaterials Science and Engineering, 2016, 2, 1796-1799.	5.2	57
21	Real Area of Contact in a Soft Transparent Interface by Particle Exclusion Microscopy. Journal of Tribology, 2016, 138, .	1.9	20
22	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
23	Mesh Size Control of Polymer Fluctuation Lubrication in Gemini Hydrogels. Biotribology, 2015, 1-2, 24-29.	1.9	100
24	Lessons from the Lollipop: Biotribology, Tribocorrosion, and Irregular Surfaces. Tribology Letters, 2014, 56, 273-280.	2.6	1
25	Polymer fluctuation lubrication in hydrogel gemini interfaces. Soft Matter, 2014, 10, 8955-8962.	2.7	77
26	Lâ€™Escargot Rapide: Soft Contacts at High Speeds. Tribology Letters, 2014, 55, 65-68.	2.6	5