

# Gordon F Christopher

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

2,023  
citations

331259

21  
h-index

344852

36  
g-index

38  
all docs

38  
docs citations

38  
times ranked

2615  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic methods for generating continuous droplet streams. <i>Journal Physics D: Applied Physics</i> , 2007, 40, R319-R336.	1.3	677
2	Experimental observations of the squeezing-to-dripping transition in T-shaped microfluidic junctions. <i>Physical Review E</i> , 2008, 78, 036317.	0.8	291
3	Coalescence and splitting of confined droplets at microfluidic junctions. <i>Lab on A Chip</i> , 2009, 9, 1102.	3.1	176
4	3D printing of an extremely tough hydrogel. <i>RSC Advances</i> , 2015, 5, 81324-81329.	1.7	97
5	Characterizing the feasibility of processing wet granular materials to improve rheology for 3D printing. <i>Journal of Materials Science</i> , 2017, 52, 13040-13053.	1.7	68
6	Large Deborah number flows around confined microfluidic cylinders. <i>Rheologica Acta</i> , 2013, 52, 485-497.	1.1	59
7	Simultaneous Interfacial Rheology and Microstructure Measurement of Densely Aggregated Particle Laden Interfaces Using a Modified Double Wall Ring Interfacial Rheometer. <i>Langmuir</i> , 2014, 30, 9752-9760.	1.6	59
8	3D printed agar/ calcium alginate hydrogels with high shape fidelity and tailorable mechanical properties. <i>Polymer</i> , 2021, 214, 123238.	1.8	44
9	Combined interfacial shear rheology and microstructure visualization of asphaltenes at air-water and oil-water interfaces. <i>Journal of Rheology</i> , 2018, 62, 1-10.	1.3	43
10	The nonlinear viscoelasticity of hyaluronic acid and its role in joint lubrication. <i>Soft Matter</i> , 2015, 11, 2596-2603.	1.2	41
11	Growth of viscoelastic instabilities around linear cylinder arrays. <i>Physics of Fluids</i> , 2016, 28, .	1.6	41
12	Role of capillarity and microstructure on interfacial viscoelasticity of particle laden interfaces. <i>Journal of Rheology</i> , 2016, 60, 35-45.	1.3	40
13	Mechanisms of onset for moderate Mach number instabilities of viscoelastic flows around confined cylinders. <i>Rheologica Acta</i> , 2015, 54, 805-815.	1.1	38
14	Contact Angle Distribution of Particles at Fluid Interfaces. <i>Langmuir</i> , 2015, 31, 891-897.	1.6	36
15	Development of a MEMS based dynamic rheometer. <i>Lab on A Chip</i> , 2010, 10, 2749.	3.1	35
16	Ultrasensitive Wearable Strain Sensors of 3D Printing Tough and Conductive Hydrogels. <i>Polymers</i> , 2019, 11, 1873.	2.0	30
17	Spreading, encapsulation and transition to arrested shapes during drop impact onto hydrophobic powders. <i>Journal of Colloid and Interface Science</i> , 2016, 468, 10-20.	5.0	28
18	Role of Flagella, Type IV Pili, Biosurfactants, and Extracellular Polymeric Substance Polysaccharides on the Formation of Pellicles by <i>Pseudomonas aeruginosa</i> . <i>Langmuir</i> , 2019, 35, 5294-5304.	1.6	26

#	ARTICLE	IF	CITATIONS
19	The role of protein content on the steady and oscillatory shear rheology of model synovial fluids. <i>Soft Matter</i> , 2014, 10, 5965-5973.	1.2	25
20	3D processing and characterization of acrylonitrile butadiene styrene (ABS) energetic thin films. <i>Journal of Materials Science</i> , 2017, 52, 993-1004.	1.7	25
21	Modifying interfacial interparticle forces to alter microstructure and viscoelasticity of densely packed particle laden interfaces. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 30-41.	5.0	23
22	2D stokesian simulation of particle aggregation at quiescent air/oil-water interfaces. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 259-268.	5.0	13
23	Effect of collagen and EPS components on the viscoelasticity of <i>Pseudomonas aeruginosa</i> biofilms. <i>Soft Matter</i> , 2021, 17, 6225-6237.	1.2	13
24	Microrheology of <i>Pseudomonas aeruginosa</i> biofilms grown in wound beds. <i>Npj Biofilms and Microbiomes</i> , 2022, 8, .	2.9	13
25	Effect of Particulate Contaminants on the Development of Biofilms at Air/Water Interfaces. <i>Langmuir</i> , 2016, 32, 2724-2730.	1.6	12
26	Interfacial Viscoelasticity of Self-Assembled Hydrophobic/Hydrophilic Particles at an Air/Water Interface. <i>Langmuir</i> , 2019, 35, 13116-13125.	1.6	12
27	Effect of interfacial viscoelasticity on the bulk linear viscoelastic moduli of globular protein solutions. <i>Physical Review E</i> , 2014, 89, 052306.	0.8	10
28	Correlation between valvular interstitial cell morphology and phenotypes: A novel way to detect activation. <i>Tissue and Cell</i> , 2018, 54, 38-46.	1.0	10
29	Rheological variability of <i>Pseudomonas aeruginosa</i> biofilms. <i>Rheologica Acta</i> , 2021, 60, 219-230.	1.1	9
30	Cavitation structures formed during the collision of a sphere with an ultra-viscous wetted surface. <i>Journal of Fluid Mechanics</i> , 2016, 796, 473-515.	1.4	7
31	2D Stokesian Approach to Modeling Flow Induced Deformation of Particle Laden Interfaces. <i>Langmuir</i> , 2018, 34, 904-916.	1.6	4
32	Effects of Shear Rate during Energetic Material Processing on Reactivity. <i>Advanced Engineering Materials</i> , 2019, 21, 1801324.	1.6	4
33	Synthesis and characterization of polymeric films with stress-altered aluminum particle fillers. <i>Journal of Materials Science</i> , 2020, 55, 14229-14242.	1.7	4
34	Effects of non-ionic surfactant on the formation of pellicles by <i>Pseudomonas aeruginosa</i> . <i>Rheologica Acta</i> , 2022, 61, 59-68.	1.1	4
35	Two component model oils for interfacial shear characterization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123780.	2.3	3
36	Rheological behavior of a low crystallinity polyolefin-modified asphalt binder for flexible pavements. <i>Case Studies in Construction Materials</i> , 2021, 15, e00640.	0.8	3

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37	Droplet Breakup in Shear and Elongation Dominated Flows in Microfluidic Devices. , 2005, , 669.		0
38	Sub-Diffraction Limit Three Dimensional Particle Tracking Velocimetry. , 2013, , .		0