

# Simon A Rogers

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67  
papers

1,676  
citations

23  
h-index

39  
g-index

74  
ext. papers

2,017  
ext. citations

5.4  
avg, IF

5.55  
L-index

#	Paper	IF	Citations
67	Comparison of Sequence of Physical Processes (SPP) and Fourier Transform Coupled with Chebyshev Polynomials (FTC) methods to Interpret Large Amplitude Oscillatory Shear (LAOS) Response of Viscoelastic Doughs and Viscous Pectin Solution. <i>Food Hydrocolloids</i> , <b>2022</b> , 107558	10.6	4
66	The nonlinear rheology of complex yield stress foods. <i>Physics of Fluids</i> , <b>2022</b> , 34, 023107	4.4	4
65	Rheological Characteristics of Ionic Liquids under Nanoconfinement.. <i>Langmuir</i> , <b>2022</b> , 38, 2961-2971	4	1
64	Materials Design of Highly Branched Bottlebrush Polymers at the Intersection of Modeling, Synthesis, Processing, and Characterization. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 1990-2024	9.6	3
63	Charge-Induced Structural Changes of Confined Copolymer Hydrogels for Controlled Surface Morphology, Rheological Response, Adhesion, and Friction. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2111414	15.6	0
62	Digital rheometer twins: Learning the hidden rheology of complex fluids through rheology-informed graph neural networks.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2202234119	11.5	1
61	Self-locomotive, antimicrobial microrobot (SLAM) swarm for enhanced biofilm elimination. <i>Biomaterials</i> , <b>2022</b> , 121610	15.6	0
60	Unification of the Rheological Physics of Yield Stress Fluids. <i>Physical Review Letters</i> , <b>2021</b> , 126, 218002	7.4	14
59	Probing nonlinear velocity profiles of shear-thinning, nematic platelet dispersions in Couette flow using x-ray photon correlation spectroscopy. <i>Physics of Fluids</i> , <b>2021</b> , 33, 063102	4.4	1
58	Revisiting the basis of transient rheological material functions: Insights from recoverable strain measurements. <i>Journal of Rheology</i> , <b>2021</b> , 65, 129-144	4.1	4
57	The role of elasticity in thixotropy: Transient elastic stress during stepwise reduction in shear rate. <i>Physics of Fluids</i> , <b>2021</b> , 33, 033112	4.4	8
56	oreo: An R package for large amplitude oscillatory analysis. <i>SoftwareX</i> , <b>2021</b> , 15, 100769	2.7	1
55	Oldroyd-B model and the foundation of modern rheology of yield stress fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2021</b> , 295, 104604	2.7	4
54	Anomalous dynamic response of nematic platelets studied by spatially resolved rheo-small angle x-ray scattering in the 1D plane. <i>Physics of Fluids</i> , <b>2021</b> , 33, 123104	4.4	1
53	Microscopic ergodicity breaking governs the emergence and evolution of elasticity in glass-forming nanoclay suspensions. <i>Physical Review E</i> , <b>2020</b> , 102, 042619	2.4	1
52	Color, structure, and rheology of a diblock bottlebrush copolymer solution. <i>Soft Matter</i> , <b>2020</b> , 16, 4919-4931	5.8	11
51	Rheological manifestation of microstructural change of colloidal gel under oscillatory shear flow. <i>Physics of Fluids</i> , <b>2020</b> , 32, 063102	4.4	16

50	Microscopic dynamics of stress relaxation in a nanocolloidal soft glass. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	6
49	Challenges of Size-Exclusion Chromatography for the Analysis of Bottlebrush Polymers. <i>Macromolecules</i> , <b>2020</b> , 53, 8610-8620	5.5	12
48	Catalytic microgelators for decoupled control of gelation rate and rigidity of the biological gels. <i>Journal of Controlled Release</i> , <b>2020</b> , 317, 166-180	11.7	2
47	Optimal conditions for pre-shearing thixotropic or aging soft materials. <i>Rheologica Acta</i> , <b>2020</b> , 59, 921-934	3.4	10
46	Re-entrant solid behavior of 3D-printable epoxy inks. <i>Rheologica Acta</i> , <b>2020</b> , 59, 631-638	2.3	2
45	A small-scale study of nonlinear blood rheology shows rapid transient transitions. <i>Rheologica Acta</i> , <b>2020</b> , 59, 687-705	2.3	1
44	Mediating the Enhanced Interaction Between Hydroxyapatite and Agarose through Amorphous Calcium Carbonate. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 6917-6929	3.5	3
43	Elucidating the G' overshoot in soft materials with a yield transition via a time-resolved experimental strain decomposition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 21945-21952	11.5	44
42	Strain shifts under stress-controlled oscillatory shearing in theoretical, experimental, and structural perspectives: Application to probing zero-shear viscosity. <i>Journal of Rheology</i> , <b>2019</b> , 63, 863-881	4.1	10
41	Dilute solution structure of bottlebrush polymers. <i>Soft Matter</i> , <b>2019</b> , 15, 2928-2941	3.6	38
40	Structure-Property Relationships via Recovery Rheology in Viscoelastic Materials. <i>Physical Review Letters</i> , <b>2019</b> , 122, 248003	7.4	25
39	Yielding and recovery of conductive pastes for screen printing. <i>Rheologica Acta</i> , <b>2019</b> , 58, 361-382	2.3	17
38	Instantaneous dimensionless numbers for transient nonlinear rheology. <i>Rheologica Acta</i> , <b>2019</b> , 58, 539-556	2.6	11
37	Ionic Hydrogels with Biomimetic 4D-Printed Mechanical Gradients: Models for Soft-Bodied Aquatic Organisms. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806723	15.6	24
36	Rheological Analysis of the Gelation Kinetics of an Enzyme Cross-linked PEG Hydrogel. <i>Biomacromolecules</i> , <b>2019</b> , 20, 2198-2206	6.9	22
35	Studying Large Amplitude Oscillatory Shear Response of Soft Materials. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	4
34	The unification of disparate rheological measures in oscillatory shearing. <i>Physics of Fluids</i> , <b>2019</b> , 31, 073107	1.7	10
33	Unveiling Temporal Nonlinear Structure-Rheology Relationships under Dynamic Shearing. <i>Polymers</i> , <b>2019</b> , 11,	4.5	14

32	Time-resolved dynamics of the yielding transition in soft materials. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2019</b> , 264, 117-134	2.7	34
31	3D-Printed Hydrogel Composites for Predictive Temporal (4D) Cellular Organizations and Patterned Biogenic Mineralization. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1800788	10.1	17
30	A Printing-Centric Approach to the Electrostatic Modification of Polymer/Clay Composites for Use in 3D Direct-Ink Writing. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701579	4.6	7
29	Diatom Microbubbler for Active Biofilm Removal in Confined Spaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 35685-35692	9.5	9
28	The transient behavior of soft glassy materials far from equilibrium. <i>Journal of Rheology</i> , <b>2018</b> , 62, 869-888	4.8	21
27	Large amplitude oscillatory shear: Simple to describe, hard to interpret. <i>Physics Today</i> , <b>2018</b> , 71, 34-40	0.9	25
26	In search of physical meaning: defining transient parameters for nonlinear viscoelasticity. <i>Rheologica Acta</i> , <b>2017</b> , 56, 501-525	2.3	56
25	Dynamic shear rheology and structure kinetics modeling of a thixotropic carbon black suspension. <i>Rheologica Acta</i> , <b>2017</b> , 56, 811-824	2.3	18
24	Anomalous structural response of nematic colloidal platelets subjected to large amplitude stress oscillations. <i>Physics of Fluids</i> , <b>2017</b> , 29, 023102	4.4	4
23	A sequence of physical processes quantified in LAOS by continuous local measures <b>2017</b> , 29, 269-279		21
22	An optimized protocol for the analysis of time-resolved elastic scattering experiments. <i>Soft Matter</i> , <b>2016</b> , 12, 2301-8	3.6	17
21	Dynamic shear rheology of a thixotropic suspension: Comparison of an improved structure-based model with large amplitude oscillatory shear experiments. <i>Journal of Rheology</i> , <b>2016</b> , 60, 433-450	4.1	69
20	Understanding steady and dynamic shear banding in a model wormlike micellar solution. <i>Journal of Rheology</i> , <b>2016</b> , 60, 1001-1017	4.1	18
19	The rheology and microstructure of branched micelles under shear. <i>Journal of Rheology</i> , <b>2015</b> , 59, 1299-1328	4.2	40
18	Translational and rotational near-wall diffusion of spherical colloids studied by evanescent wave scattering. <i>Soft Matter</i> , <b>2014</b> , 10, 4312-23	3.6	23
17	Unlocking Chain Exchange in Highly Amphiphilic Block Polymer Micellar Systems: Influence of Agitation. <i>ACS Macro Letters</i> , <b>2014</b> , 3, 1106-1111	6.6	17
16	Rheology of branched wormlike micelles. <i>Current Opinion in Colloid and Interface Science</i> , <b>2014</b> , 19, 530-535		87
15	Viscosity of ring polymer melts. <i>ACS Macro Letters</i> , <b>2013</b> , 2, 874-878	6.6	107

14	The molecular origin of stress generation in worm-like micelles, using a rheo-SANS LAOS approach. <i>Soft Matter</i> , <b>2012</b> , 8, 7831	3.6	47
13	Rotational diffusion of spherical colloids close to a wall. <i>Physical Review Letters</i> , <b>2012</b> , 109, 098305	7.4	27
12	A sequence of physical processes determined and quantified in large-amplitude oscillatory shear (LAOS): Application to theoretical nonlinear models. <i>Journal of Rheology</i> , <b>2012</b> , 56, 1-25	4.1	126
11	A sequence of physical processes determined and quantified in LAOS: An instantaneous local 2D/3D approach. <i>Journal of Rheology</i> , <b>2012</b> , 56, 1129-1151	4.1	89
10	Nonlinear behavior of nematic platelet dispersions in shear flow. <i>Physical Review Letters</i> , <b>2012</b> , 109, 246601	7.4	27
9	Oscillatory yielding of a colloidal star glass. <i>Journal of Rheology</i> , <b>2011</b> , 55, 733-752	4.1	30
8	A sequence of physical processes determined and quantified in LAOS: Application to a yield stress fluid. <i>Journal of Rheology</i> , <b>2011</b> , 55, 435-458	4.1	161
7	Time-dependent rheology of colloidal star glasses. <i>Journal of Rheology</i> , <b>2010</b> , 54, 133-158	4.1	59
6	Examining the validity of strain-rate frequency superposition when measuring the linear viscoelastic properties of soft materials. <i>Journal of Rheology</i> , <b>2010</b> , 54, 187-195	4.1	29
5	Frieze group analysis of asymmetric response to large-amplitude oscillatory shear. <i>Journal of Rheology</i> , <b>2010</b> , 54, 859-880	4.1	10
4	Time-dependent NMR-velocimetry of a colloidal glass. <i>Rheologica Acta</i> , <b>2009</b> , 48, 735-745	2.3	8
3	Aging, yielding, and shear banding in soft colloidal glasses. <i>Physical Review Letters</i> , <b>2008</b> , 100, 128304	7.4	95
2	Thermopower and resistivity of carbon nanotube networks and organic conducting polymers. <i>Current Applied Physics</i> , <b>2004</b> , 4, 407-410	2.6	10
1	Charge Transport in Conducting Polymers: Polyacetylene Nanofibres. <i>Molecular Crystals and Liquid Crystals</i> , <b>2004</b> , 415, 115-124	0.5	27