

# Matthew T Sullivan

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

813  
citations

759233

12  
h-index

839539

18  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1057  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrostatics at the oil-water interface, stability, and order in emulsions and colloids. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2585-2590.	7.1	244
2	Experiments on Random Packings of Ellipsoids. Physical Review Letters, 2005, 94, 198001.	7.8	210
3	Controllable Microfluidic Production of Microbubbles in Water in Oil Emulsions and the Formation of Porous Microparticles. Advanced Materials, 2008, 20, 3314-3318.	21.0	139
4	The role of feedback in microfluidic flow-focusing devices. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 2131-2143.	3.4	44
5	Concentrating colloids with electric field gradients. I. Particle transport and growth mechanism of hard-sphere-like crystals in an electric bottle. Journal of Chemical Physics, 2008, 128, 164508.	3.0	36
6	A microfluidic vibrating wire viscometer for operation at high pressure and high temperature. Review of Scientific Instruments, 2011, 82, 035113.	1.3	20
7	Transverse Instability of Bubbles in Viscoelastic Channel Flows. Physical Review Letters, 2008, 101, 244503.	7.8	17
8	Microfluidic Bubble Point Measurement Using Thermal Nucleation. Energy & Fuels, 2016, 30, 2655-2661.	5.1	15
9	Operation of a Vibrating Wire Viscometer at Viscosities Greater than 0.2 Pa·s: Results for a Certified Reference Fluid with Nominal Viscosity at T= 273 K and p= 0.1 MPa of 0.652 Pa·s while Stagnant and a Fluid of Nominal Viscosity of 0.037 Pa·s while Flowing. Journal of Chemical & Engineering Data, 2007, 52, 774-782.	1.9	14
10	Anomalous nucleation near a fluid phase boundary created by a rapid heat pulse. Fluid Phase Equilibria, 2016, 412, 218-227.	2.5	14
11	On the nonlinear interpretation of a vibrating wire viscometer operated at large amplitude. Fluid Phase Equilibria, 2009, 276, 99-107.	2.5	12
12	Bubble nucleation and dissolution in multicomponent fluids near a phase boundary using a rapid heat pulse. International Journal of Heat and Mass Transfer, 2017, 110, 172-192.	4.8	12
13	A Comparison of Both Steady State Resonance and Transient Decay Methods of Determining Viscosity with a Vibrating Wire Viscometer: Results for Certified Reference Fluids for Viscosity that are Stagnant with Viscosity between (2.5 and 66) mPa·s and Flowing at Volumetric Flow Rates Below 50 cm <sup>3</sup> ·s <sup>-1</sup> and Viscosities Less than 34 mPa·s. Journal of Chemical & Engineering Data, 2008, 53, 1601-1607.	1.9	7
14	Pressure controlled bubble growth in microchannels. International Journal of Heat and Mass Transfer, 2014, 69, 417-423.	4.8	7
15	Experimental Observation of Inertia-Dominated Squeeze Film Damping in Liquid. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	1.5	6
16	A Downhole Wireline Module for the Measurement of Bubble Point Pressure. , 2019, , .		5
17	Radially Ejected Bubbles Driven by Thermocapillarity in Equilibrated Vapor-Liquid Mixtures. Langmuir, 2017, 33, 4435-4443.	3.5	4
18	Interference Pressure Transient Test for Permeability Anisotropy Evaluation in Shallow Unconsolidated Reservoir Undergoing EOR Polymer Flood Pilot. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
19	Supersaturation in a Wide Range of Recombined Oils. Energy & Fuels, 2020, 34, 4318-4328.	5.1	2
20	Downhole AOP Measurements Applied to Mobile Oil in a Tar Mat: A Study on the Influence of Contamination. , 2020, , .		1
21	Development of a Downhole Measurement System for Phase Behavior of Reservoir Crude Oils and Retrograde Condensates. Energy & Fuels, 2022, 36, 8624-8638.	5.1	1