

# Stuart J Williams

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

400  
citations

933447  
10  
h-index

752698  
20  
g-index

23  
all docs

23  
docs citations

23  
times ranked

583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclic force driven colloidal self-assembly near a solid surface. Journal of Colloid and Interface Science, 2022, 607, 1402-1410.	9.4	2
2	Particle-Induced Electrostatic Repulsion within an Electric Curtain Operating below the Paschen Limit. Micromachines, 2022, 13, 288.	2.9	4
3	Rapid detection of SARS-CoV-2 antibodies using electrochemical impedance-based detector. Biosensors and Bioelectronics, 2021, 171, 112709.	10.1	148
4	Membrane tension may define the deadliest virus infection. Colloids and Interface Science Communications, 2021, 40, 100338.	4.1	7
5	Electrical characterization of phytoplankton suspensions using impedance spectroscopy. Journal of Applied Phycology, 2021, 33, 1643-1650.	2.8	0
6	Time-resolved particle image velocimetry analysis and computational modeling of transient optically induced electrothermal micro vortex. Electrophoresis, 2021, 42, 2483-2489.	2.4	3
7	Scaling law analysis of electrohydrodynamics and dielectrophoresis for isomotive dielectrophoresis microfluidic devices. Electrophoresis, 2020, 41, 148-155.	2.4	6
8	Multiscale Self-Assembly of Distinctive Weblike Structures from Evaporated Drops of Dilute American Whiskeys. ACS Nano, 2020, 14, 5417-5425.	14.6	22
9	Advances and applications of isomotive dielectrophoresis for cell analysis. Analytical and Bioanalytical Chemistry, 2020, 412, 3813-3833.	3.7	11
10	New insights into anhydrobiosis using cellular dielectrophoresis-based characterization. Biomicrofluidics, 2019, 13, 064113.	2.4	6
11	Viscous resistance in drop coalescence. Physics of Fluids, 2019, 31, .	4.0	30
12	Advances and Applications of Rapid Electrokinetic Patterning. Journal of the Indian Institute of Science, 2018, 98, 85-101.	1.9	3
13	Isomotive dielectrophoresis for parallel analysis of individual particles. Electrophoresis, 2017, 38, 1441-1449.	2.4	16
14	An orbital shear platform for real-time, in vitro endothelium characterization. Biotechnology and Bioengineering, 2016, 113, 1336-1344.	3.3	15
15	Electrothermal pumping with interdigitated electrodes and resistive heaters. Electrophoresis, 2015, 36, 1681-1689.	2.4	34
16	Characterization of 2D colloid aggregations created by optically induced electrohydrodynamics. Electrophoresis, 2015, 36, 1674-1680.	2.4	2
17	Characterization of 2D colloids assembled by optically-induced electrohydrodynamics. Soft Matter, 2015, 11, 4266-4272.	2.7	15
18	Inexpensive three-dimensional dielectrophoretic microfluidic devices using milled copperclad substrates. Journal of Electrostatics, 2015, 75, 49-53.	1.9	4

#	ARTICLE	IF	CITATIONS
19	Dielectrophoretic trapping of nanoparticles with an electrokinetic nanoprobe. Electrophoresis, 2013, 34, 1922-1930.	2.4	19
20	Enhanced electrothermal pumping with thin film resistive heaters. Electrophoresis, 2013, 34, 1400-1408.	2.4	41
21	Electrokinetic concentration and patterning of colloids with a scanning laser. Electrophoresis, 2012, 33, 1931-1937.	2.4	12
22	Light scattering of colloidal suspensions: formation and stability in bourbon whiskeys. Journal of the Institute of Brewing, 0, , .	2.3	0