

# Stephen J Ebbens

## List of Publications by Year in descending order

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52  
papers

3,019  
citations

257450

24  
h-index

233421

45  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2823  
citing authors

#	ARTICLE	IF	CITATIONS
1	In pursuit of propulsion at the nanoscale. <i>Soft Matter</i> , 2010, 6, 726.	2.7	534
2	Boundaries can steer active Janus spheres. <i>Nature Communications</i> , 2015, 6, 8999.	12.8	290
3	Size dependence of the propulsion velocity for catalytic Janus-sphere swimmers. <i>Physical Review E</i> , 2012, 85, 020401.	2.1	189
4	Electrokinetic effects in catalytic platinum-insulator Janus swimmers. <i>Europhysics Letters</i> , 2014, 106, 58003.	2.0	181
5	Direct Observation of the Direction of Motion for Spherical Catalytic Swimmers. <i>Langmuir</i> , 2011, 27, 12293-12296.	3.5	165
6	Importance of Particle Tracking and Calculating the Mean-Squared Displacement in Distinguishing Nanopropulsion from Other Processes. <i>Langmuir</i> , 2012, 28, 10997-11006.	3.5	159
7	Self-assembled autonomous runners and tumblers. <i>Physical Review E</i> , 2010, 82, 015304.	2.1	157
8	Active colloids: Progress and challenges towards realising autonomous applications. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 21, 14-23.	7.4	144
9	Gravitaxis in Spherical Janus Swimming Devices. <i>Langmuir</i> , 2013, 29, 14066-14073.	3.5	112
10	Covalently Cross-Linked Colloidosomes. <i>Macromolecules</i> , 2010, 43, 10466-10474.	4.8	98
11	A study of single drug particle adhesion interactions using atomic force microscopy. <i>International Journal of Pharmaceutics</i> , 2002, 238, 17-27.	5.2	79
12	Determination of the Surface Free Energy of Crystalline and Amorphous Lactose by Atomic Force Microscopy Adhesion Measurement. <i>Pharmaceutical Research</i> , 2006, 23, 401-407.	3.5	67
13	Experimental observation of flow fields around active Janus spheres. <i>Nature Communications</i> , 2019, 10, 3952.	12.8	67
14	Identifying and Mapping Surface Amorphous Domains. <i>Pharmaceutical Research</i> , 2005, 22, 1195-1202.	3.5	65
15	<i>In Situ</i> Imaging and Height Reconstruction of Phase Separation Processes in Polymer Blends during Spin Coating. <i>ACS Nano</i> , 2011, 5, 5124-5131.	14.6	65
16	Elastic modulus measurements from individual lactose particles using atomic force microscopy. <i>International Journal of Pharmaceutics</i> , 2007, 332, 168-175.	5.2	58
17	Reactive Inkjet Printing of Biocompatible Enzyme Powered Silk Micro-Rockets. <i>Small</i> , 2016, 12, 4048-4055.	10.0	57
18	Catalytic Janus Colloids: Controlling Trajectories of Chemical Microswimmers. <i>Accounts of Chemical Research</i> , 2018, 51, 1931-1939.	15.6	52

#	ARTICLE	IF	CITATIONS
19	On the mechanisms of colloidal self-assembly during spin-coating. <i>Soft Matter</i> , 2014, 10, 8804-8812.	2.7	51
20	Glancing angle metal evaporation synthesis of catalytic swimming Janus colloids with well defined angular velocity. <i>Soft Matter</i> , 2015, 11, 6872-6880.	2.7	49
21	A Pickering Emulsion Route to Swimming Active Janus Colloids. <i>Advanced Science</i> , 2018, 5, 1700528.	11.2	49
22	Helical paths, gravitaxis, and separation phenomena for mass-anisotropic self-propelling colloids: Experiment versus theory. <i>Journal of Chemical Physics</i> , 2017, 147, 084905.	3.0	40
23	Inkjet printing of mammalian cells – Theory and applications. <i>Bioprinting</i> , 2021, 23, e00157.	5.8	28
24	Towards nanoscale metrology for biomolecular imaging by atomic force microscopy. <i>Nanotechnology</i> , 2005, 16, 966-973.	2.6	27
25	Synthetic running and tumbling: an autonomous navigation strategy for catalytic nanoswimmers. <i>Soft Matter</i> , 2012, 8, 3077.	2.7	25
26	Effect of Catalyst Distribution on Spherical Bubble Swimmer Trajectories. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15339-15348.	3.1	24
27	Spiral diffusion of rotating self-propellers with stochastic perturbation. <i>Physical Review E</i> , 2016, 94, 030601.	2.1	24
28	Direct observation of morphological development during the spin-coating of polystyrene-poly(methyl methacrylate) blends. <i>Journal of Applied Physics</i> , 2010, 108, 044301.	2.1	22
29	Symmetrical Catalytically Active Colloids Collectively Induce Convective Flow. <i>Langmuir</i> , 2018, 34, 4307-4313.	3.5	16
30	Reactive Inkjet Printing of Functional Silk Stirrers for Enhanced Mixing and Sensing. <i>Small</i> , 2019, 15, e1804213.	10.0	16
31	pH-Responsive Catalytic Janus Motors with Autonomous Navigation and Cargo Release Functions. <i>Advanced Functional Materials</i> , 2020, 30, 2000324.	14.9	16
32	Light-driven locomotion of a centimeter-sized object at the air-water interface: effect of fluid resistance. <i>RSC Advances</i> , 2019, 9, 8333-8339.	3.6	12
33	Surface Segregation and Plasma Oxidation of Poly(dimethylsiloxane)-Doped Polyolefins. <i>Macromolecules</i> , 2001, 34, 8149-8155.	4.8	11
34	Influence of Additives on the In Situ Crystallization Dynamics of Methyl Ammonium Lead Halide Perovskites. <i>ACS Applied Energy Materials</i> , 2021, 4, 1398-1409.	5.1	11
35	Copper conductive adhesives for printed circuit interconnects. , 2012, , .		10
36	The Thermal Stability of Alkanethiol Self-Assembled Monolayers on Copper for Fluxless Soldering Applications. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2010, 33, 251-259.	1.3	7

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37	3D inkjet printed self-propelled motors for micro-stirring. Journal of Colloid and Interface Science, 2022, 623, 96-108.	9.4	7
38	3D printable self-propelling sensors for the assessment of water quality via surface tension. Jcis Open, 2022, 5, 100044.	3.2	6
39	C9ORF72-derived poly-GA DPRs undergo endocytic uptake in Astrocytes and spread to motor neurons. Life Science Alliance, 2022, 5, e202101276.	2.8	6
40	Surface Segregation and Plasma Oxidation of Polyethylene/Poly(dimethylsiloxane) Copolymer Doped Polyethylene Films. Macromolecules, 2003, 36, 368-372.	4.8	5
41	Directed Propulsion, Chemotaxis and Clustering in Propelled Microparticles. Current Physical Chemistry, 2015, 5, 91-106.	0.2	4
42	Rotating ellipsoidal catalytic micro-swimmers via glancing angle evaporation. Materials Advances, 2021, 2, 7045-7053.	5.4	4
43	Reactive Inkjet Printing and Propulsion Analysis of Silk-based Self-propelled Micro-stirrers. Journal of Visualized Experiments, 2019, , .	0.3	3
44	Investigation of ink-jet printing of self-assembled monolayers for copper circuit patterning. , 2006, , .		2
45	Real time laser interference microscopy for spread polystyrene/poly(methyl methacrylate) blends. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 985-992.	2.1	2
46	Surface Micro-patterning with Self-assembled Monolayers Selectively Deposited on Copper Substrates by Ink-jet Printing. , 2007, , .		1
47	Mode of lysozyme protein adsorption at end-tethered polyethylene oxide brushes on gold surfaces determined by neutron reflectivity. European Physical Journal E, 2015, 38, 14.	1.6	1
48	Reactive Inkjet Printing: Reactive Inkjet Printing of Biocompatible Enzyme Powered Silk Micro-Rockets (Small 30/2016). Small, 2016, 12, 4022-4022.	10.0	1
49	Thermal Stability of Self-Assembled Monolayer Copper Preservatives for Fluxless Soldering. , 2006, , .		0
50	Patterning Copper using Ink Jet Printing of Self Assembled Monolayers. , 2007, , .		0
51	Controlling Phoretic Swimmer Trajectory. Materials Research Society Symposia Proceedings, 2011, 1346, 1.	0.1	0
52	Preparation and 3D Tracking of Catalytic Swimming Devices. Journal of Visualized Experiments, 2016, , .	0.3	0