

Mark D Tarn

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,122
citations

361413

20
h-index

414414

32
g-index

45
all docs

45
docs citations

45
times ranked

1598
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Active Ice-Nucleating Particles at the Summer North Pole. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	22
2	An evaluation of the heat test for the ice-nucleating ability of minerals and biological material. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2635-2665.	3.1	13
3	Homogeneous Freezing of Water Using Microfluidics. <i>Micromachines</i> , 2021, 12, 223.	2.9	9
4	On-chip analysis of atmospheric ice-nucleating particles in continuous flow. <i>Lab on A Chip</i> , 2020, 20, 2889-2910.	6.0	24
5	On-chip density-based sorting of supercooled droplets and frozen droplets in continuous flow. <i>Lab on A Chip</i> , 2020, 20, 3876-3887.	6.0	5
6	On-chip electrochemical detection of glucose towards the miniaturised quality control of carbohydrate-based radiotracers. <i>Analyst</i> , The, 2020, 145, 4920-4930.	3.5	4
7	Resolving the size of ice-nucleating particles with a balloon deployable aerosol sampler: the SHARK. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2905-2921.	3.1	16
8	A Major Combustion Aerosol Event Had a Negligible Impact on the Atmospheric Ice-Nucleating Particle Population. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032938.	3.3	14
9	The ice-nucleating ability of quartz immersed in water and its atmospheric importance compared to K-feldspar. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11343-11361.	4.9	50
10	High-speed imaging of ice nucleation in water proves the existence of active sites. <i>Science Advances</i> , 2019, 5, eaav4316.	10.3	87
11	Two-Step Numerical Approach To Predict Ferrofluid Droplet Generation and Manipulation inside Multilaminar Flow Chambers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10065-10080.	3.1	12
12	The study of atmospheric ice-nucleating particles via microfluidically generated droplets. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 52.	2.2	32
13	Fabrication of tailorable pH responsive cationic amphiphilic microgels on a microfluidic device for drug release. <i>Journal of Polymer Science Part A</i> , 2018, 56, 59-66.	2.3	20
14	Microcapsules as assay compartments formed through layer-by-layer deposition. <i>Analytical Methods</i> , 2018, 10, 5335-5340.	2.7	5
15	An instrument for quantifying heterogeneous ice nucleation in multiwell plates using infrared emissions to detect freezing. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5629-5641.	3.1	22
16	Contributions of biogenic material to the atmospheric ice-nucleating particle population in North Western Europe. <i>Scientific Reports</i> , 2018, 8, 13821.	3.3	56
17	Plastic Scintillator-Based Microfluidic Devices for Miniaturized Detection of Positron Emission Tomography Radiopharmaceuticals. <i>Chemistry - A European Journal</i> , 2018, 24, 13749-13753.	3.3	13
18	On-Chip Magnetic Particle-Based Immunoassays Using Multilaminar Flow for Clinical Diagnostics. <i>Methods in Molecular Biology</i> , 2017, 1547, 69-83.	0.9	12

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19	On-chip polyelectrolyte coating onto magnetic droplets “towards continuous flow assembly of drug delivery capsules. Lab on A Chip, 2017, 17, 3785-3795.	6.0	38
20	A Microfluidic Device for Rapid Screening of <i>E. coli</i> O157:H7 Based on IFAST and ATP Bioluminescence Assay for Water Analysis. Chemistry - A European Journal, 2017, 23, 12754-12757.	3.3	17
21	Van de Graaff generator for capillary electrophoresis. Journal of Chromatography A, 2017, 1517, 195-202.	3.7	5
22	Magnetic Particle Plug-Based Assays for Biomarker Analysis. Micromachines, 2016, 7, 77.	2.9	9
23	Lab-on-a-chip workshop activities for secondary school students. Biomicrofluidics, 2016, 10, 011301.	2.4	13
24	Positron detection in silica monoliths for miniaturised quality control of PET radiotracers. Chemical Communications, 2016, 52, 7221-7224.	4.1	11
25	Development of radiodetection systems towards miniaturised quality control of PET and SPECT radiopharmaceuticals. Lab on A Chip, 2016, 16, 1605-1616.	6.0	26
26	Sample introduction interface for on-chip nucleic acid-based analysis of <i>Helicobacter pylori</i> from stool samples. Lab on A Chip, 2016, 16, 2108-2115.	6.0	55
27	Microfluidically fabricated pH-responsive anionic amphiphilic microgels for drug release. Journal of Materials Chemistry B, 2016, 4, 3086-3093.	5.8	17
28	Tailoring pH-responsive acrylic acid microgels with hydrophobic crosslinks for drug release. Journal of Materials Chemistry B, 2015, 3, 4524-4529.	5.8	16
29	Diamagnetic repulsion of particles for multilaminar flow assays. RSC Advances, 2015, 5, 103776-103781.	3.6	6
30	On-chip processing of particles and cells via multilaminar flow streams. Analytical and Bioanalytical Chemistry, 2014, 406, 139-161.	3.7	46
31	On-Chip Determination of C-Reactive Protein Using Magnetic Particles in Continuous Flow. Analytical Chemistry, 2014, 86, 10552-10559.	6.5	39
32	Phaseguide assisted liquid lamination for magnetic particle-based assays. Lab on A Chip, 2014, 14, 2334-2343.	6.0	20
33	Simultaneous trapping of magnetic and diamagnetic particle plugs for separations and bioassays. RSC Advances, 2013, 3, 7209.	3.6	33
34	Radiochemistry on chip: towards dose-on-demand synthesis of PET radiopharmaceuticals. Lab on A Chip, 2013, 13, 2328.	6.0	58
35	Purification of 2-[¹⁸ F]fluoro-2-deoxy-d-glucose by on-chip solid-phase extraction. Journal of Chromatography A, 2013, 1280, 117-121.	3.7	18
36	Microfluidic device for the rapid coating of magnetic cells with polyelectrolytes. Materials Letters, 2013, 95, 182-185.	2.6	28

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37	Microfluidic devices in superconducting magnets: on-chip free-flow diamagnetophoresis of polymer particles and bubbles. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 625-635.	2.2	47
38	Flow focussing of particles and cells based on their intrinsic properties using a simple diamagnetic repulsion setup. <i>Lab on A Chip</i> , 2011, 11, 1240-1248.	6.0	80
39	Microfluidic platforms for performing surface-based clinical assays. <i>Expert Review of Molecular Diagnostics</i> , 2011, 11, 711-720.	3.1	24
40	Sorting and Manipulation of Magnetic Droplets in Continuous Flow. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	11
41	On-chip diamagnetic repulsion in continuous flow. <i>Science and Technology of Advanced Materials</i> , 2009, 10, 014611.	6.1	39
42	The importance of particle type selection and temperature control for on-chip free-flow magnetophoresis. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 4115-4122.	2.3	47