

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	High-speed imaging of ice nucleation in water proves the existence of active sites. <i>Science Advances</i> , 2019, 5, eaav4316.	10.3	87
2	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
3	Radiochemistry on chip: towards dose-on-demand synthesis of PET radiopharmaceuticals. <i>Lab on A Chip</i> , 2013, 13, 2328.	6.0	58
4	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
5	Sample introduction interface for on-chip nucleic acid-based analysis of <i>Helicobacter pylori</i> from stool samples. <i>Lab on A Chip</i> , 2016, 16, 2108-2115.	6.0	55
6	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
7	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
8	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
9	On-chip processing of particles and cells via multilaminar flow streams. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 139-161.	3.7	46
10	On-chip diamagnetic repulsion in continuous flow. <i>Science and Technology of Advanced Materials</i> , 2009, 10, 014611.	6.1	39
11	On-Chip Determination of C-Reactive Protein Using Magnetic Particles in Continuous Flow. <i>Analytical Chemistry</i> , 2014, 86, 10552-10559.	6.5	39
12	On-chip polyelectrolyte coating onto magnetic droplets “towards continuous flow assembly of drug delivery capsules. <i>Lab on A Chip</i> , 2017, 17, 3785-3795.	6.0	38
13	Simultaneous trapping of magnetic and diamagnetic particle plugs for separations and bioassays. <i>RSC Advances</i> , 2013, 3, 7209.	3.6	33
14	The study of atmospheric ice-nucleating particles via microfluidically generated droplets. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 52.	2.2	32
15	Microfluidic device for the rapid coating of magnetic cells with polyelectrolytes. <i>Materials Letters</i> , 2013, 95, 182-185.	2.6	28
16	Development of radiodetection systems towards miniaturised quality control of PET and SPECT radiopharmaceuticals. <i>Lab on A Chip</i> , 2016, 16, 1605-1616.	6.0	26
17	Microfluidic platforms for performing surface-based clinical assays. <i>Expert Review of Molecular Diagnostics</i> , 2011, 11, 711-720.	3.1	24
18	On-chip analysis of atmospheric ice-nucleating particles in continuous flow. <i>Lab on A Chip</i> , 2020, 20, 2889-2910.	6.0	24

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19	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
20	Highly Active Ice-Nucleating Particles at the Summer North Pole. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	22
21	Phaseguide assisted liquid lamination for magnetic particle-based assays. <i>Lab on A Chip</i> , 2014, 14, 2334-2343.	6.0	20
22	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
23	Purification of 2-[18F]fluoro-2-deoxy-d-glucose by on-chip solid-phase extraction. <i>Journal of Chromatography A</i> , 2013, 1280, 117-121.	3.7	18
24	Microfluidically fabricated pH-responsive anionic amphiphilic microgels for drug release. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3086-3093.	5.8	17
25	A Microfluidic Device for Rapid Screening of <i>E. coli</i> O157:H7 Based on IFAST and ATP Bioluminescence Assay for Water Analysis. <i>Chemistry - A European Journal</i> , 2017, 23, 12754-12757.	3.3	17
26	Tailoring pH-responsive acrylic acid microgels with hydrophobic crosslinks for drug release. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4524-4529.	5.8	16
27	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
28	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
29	Lab-on-a-chip workshop activities for secondary school students. <i>Biomicrofluidics</i> , 2016, 10, 011301.	2.4	13
30	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
31	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
32	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
33	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
34	Sorting and Manipulation of Magnetic Droplets in Continuous Flow. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	11
35	Positron detection in silica monoliths for miniaturised quality control of PET radiotracers. <i>Chemical Communications</i> , 2016, 52, 7221-7224.	4.1	11
36	Magnetic Particle Plug-Based Assays for Biomarker Analysis. <i>Micromachines</i> , 2016, 7, 77.	2.9	9

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37	Homogeneous Freezing of Water Using Microfluidics. <i>Micromachines</i> , 2021, 12, 223.	2.9	9
38	Diamagnetic repulsion of particles for multilaminar flow assays. <i>RSC Advances</i> , 2015, 5, 103776-103781.	3.6	6
39	Van de Graaff generator for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2017, 1517, 195-202.	3.7	5
40	Microcapsules as assay compartments formed through layer-by-layer deposition. <i>Analytical Methods</i> , 2018, 10, 5335-5340.	2.7	5
41	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
42	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