

# David A Issadore

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

4,181  
citations

94433

37  
h-index

114465

63  
g-index

76  
all docs

76  
docs citations

76  
times ranked

5948  
citing authors

#	ARTICLE	IF	CITATIONS
1	Injectable Granular Hydrogels with Multifunctional Properties for Biomedical Applications. <i>Advanced Materials</i> , 2018, 30, e1705912.	21.0	224
2	Ultrasensitive Clinical Enumeration of Rare Cells ex Vivo Using a Micro-Hall Detector. <i>Science Translational Medicine</i> , 2012, 4, 141ra92.	12.4	211
3	Combining Machine Learning and Nanofluidic Technology To Diagnose Pancreatic Cancer Using Exosomes. <i>ACS Nano</i> , 2017, 11, 11182-11193.	14.6	196
4	Detection and isolation of circulating exosomes and microvesicles for cancer monitoring and diagnostics using micro-/nano-based devices. <i>Analyst</i> , 2016, 141, 450-460.	3.5	175
5	Magnetic Nanoparticles and microNMR for Diagnostic Applications. <i>Theranostics</i> , 2012, 2, 55-65.	10.0	152
6	Silicon and glass very large scale microfluidic droplet integration for terascale generation of polymer microparticles. <i>Nature Communications</i> , 2018, 9, 1222.	12.8	148
7	Integrated circuit/microfluidic chip to programmably trap and move cells and droplets with dielectrophoresis. <i>Lab on A Chip</i> , 2008, 8, 81-87.	6.0	144
8	Microfluidic formulation of nanoparticles for biomedical applications. <i>Biomaterials</i> , 2021, 274, 120826.	11.4	143
9	Mobile platform for rapid sub-picogram-per-milliliter, multiplexed, digital droplet detection of proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4489-4495.	7.1	133
10	Ubiquitous Detection of Gram-Positive Bacteria with Bioorthogonal Magnetofluorescent Nanoparticles. <i>ACS Nano</i> , 2011, 5, 8834-8841.	14.6	127
11	Miniature magnetic resonance system for point-of-care diagnostics. <i>Lab on A Chip</i> , 2011, 11, 2282.	6.0	124
12	Scalable mRNA and siRNA Lipid Nanoparticle Production Using a Parallelized Microfluidic Device. <i>Nano Letters</i> , 2021, 21, 5671-5680.	9.1	120
13	Kilo-scale droplet generation in three-dimensional monolithic elastomer device (3D MED). <i>Lab on A Chip</i> , 2015, 15, 4387-4392.	6.0	119
14	Machine learning to detect signatures of disease in liquid biopsies – a user's guide. <i>Lab on A Chip</i> , 2018, 18, 395-405.	6.0	106
15	Proteomic and biological profiling of extracellular vesicles from Alzheimer's disease human brain tissues. <i>Alzheimer's and Dementia</i> , 2020, 16, 896-907.	0.8	105
16	Use of magnetic fields and nanoparticles to trigger drug release and improve tumor targeting. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2019, 11, e1571.	6.1	97
17	Microwave dielectric heating of drops in microfluidic devices. <i>Lab on A Chip</i> , 2009, 9, 1701.	6.0	86
18	Recent developments in scale-up of microfluidic emulsion generation via parallelization. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1757-1766.	2.7	83

#	ARTICLE	IF	CITATIONS
19	Magnetic sensing technology for molecular analyses. <i>Lab on A Chip</i> , 2014, 14, 2385.	6.0	79
20	Miniaturized nuclear magnetic resonance platform for detection and profiling of circulating tumor cells. <i>Lab on A Chip</i> , 2014, 14, 14-23.	6.0	70
21	A Multianalyte Panel Consisting of Extracellular Vesicle miRNAs and mRNAs, cfDNA, and CA19-9 Shows Utility for Diagnosis and Staging of Pancreatic Ductal Adenocarcinoma. <i>Clinical Cancer Research</i> , 2020, 26, 3248-3258.	7.0	64
22	Smartphone-enabled optofluidic exosome diagnostic for concussion recovery. <i>Scientific Reports</i> , 2016, 6, 31215.	3.3	64
23	Diagnostic technologies for circulating tumour cells and exosomes. <i>Bioscience Reports</i> , 2016, 36, e00292.	2.4	63
24	miRNA Profiling of Magnetic Nanopore-Isolated Extracellular Vesicles for the Diagnosis of Pancreatic Cancer. <i>Cancer Research</i> , 2018, 78, 3688-3697.	0.9	63
25	Specific Pathogen Detection Using Bioorthogonal Chemistry and Diagnostic Magnetic Resonance. <i>Bioconjugate Chemistry</i> , 2011, 22, 2390-2394.	3.6	59
26	Use of Oppositely Polarized External Magnets To Improve the Accumulation and Penetration of Magnetic Nanocarriers into Solid Tumors. <i>ACS Nano</i> , 2020, 14, 142-152.	14.6	59
27	Hybrid soft-lithography/laser machined microchips for the parallel generation of droplets. <i>Lab on A Chip</i> , 2013, 13, 4750.	6.0	58
28	1/4Hall Chip for Sensitive Detection of Bacteria. <i>Advanced Healthcare Materials</i> , 2013, 2, 1224-1228.	7.6	55
29	Diagnosis of traumatic brain injury using miRNA signatures in nanomagnetically isolated brain-derived extracellular vesicles. <i>Lab on A Chip</i> , 2018, 18, 3617-3630.	6.0	53
30	Multi-Dimensional Mapping of Brain-Derived Extracellular Vesicle MicroRNA Biomarker for Traumatic Brain Injury Diagnostics. <i>Journal of Neurotrauma</i> , 2020, 37, 2424-2434.	3.4	50
31	Self-assembled magnetic filter for highly efficient immunomagnetic separation. <i>Lab on A Chip</i> , 2011, 11, 147-151.	6.0	49
32	Ultra-high throughput detection (1 million droplets per second) of fluorescent droplets using a cell phone camera and time domain encoded optofluidics. <i>Lab on A Chip</i> , 2017, 17, 1083-1094.	6.0	49
33	Anisotropic Rod-Shaped Particles Influence Injectable Granular Hydrogel Properties and Cell Invasion. <i>Advanced Materials</i> , 2022, 34, e2109194.	21.0	48
34	Rare cell isolation and profiling on a hybrid magnetic/size-sorting chip. <i>Biomicrofluidics</i> , 2013, 7, 54107.	2.4	46
35	Microfluidic Cell Sorter (<i>1/4</i>FCS) for On-chip Capture and Analysis of Single Cells. <i>Advanced Healthcare Materials</i> , 2012, 1, 432-436.	7.6	43
36	Microchip-based detection of magnetically labeled cancer biomarkers. <i>Advanced Drug Delivery Reviews</i> , 2014, 66, 101-109.	13.7	43

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37	Liter-scale production of uniform gas bubbles via parallelization of flow-focusing generators. <i>Lab on A Chip</i> , 2017, 17, 2667-2673.	6.0	40
38	A magnetic micropore chip for rapid (<1 hour) unbiased circulating tumor cell isolation and in situ RNA analysis. <i>Lab on A Chip</i> , 2017, 17, 3086-3096.	6.0	38
39	Microwave dielectric heating of non-aqueous droplets in a microfluidic device for nanoparticle synthesis. <i>Nanoscale</i> , 2013, 5, 5468.	5.6	36
40	Scaling of transverse nuclear magnetic relaxation due to magnetic nanoparticle aggregation. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 3122-3126.	2.3	32
41	Radiofrequency-Triggered Drug Release from Nanoliposomes with Millimeter-Scale Resolution Using a Superimposed Static Gating Field. <i>Small</i> , 2018, 14, e1802563.	10.0	30
42	Robust Microfabrication of Highly Parallelized Three-Dimensional Microfluidics on Silicon. <i>Scientific Reports</i> , 2019, 9, 12213.	3.3	30
43	A multi-scale PDMS fabrication strategy to bridge the size mismatch between integrated circuits and microfluidics. <i>Lab on A Chip</i> , 2014, 14, 4552-4558.	6.0	29
44	Scaling up the throughput of microfluidic droplet-based materials synthesis: A review of recent progress and outlook. <i>Applied Physics Reviews</i> , 2021, 8, 031304.	11.3	27
45	High-Voltage Dielectrophoretic and Magnetophoretic Hybrid Integrated Circuit/Microfluidic Chip. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 1220-1225.	2.5	26
46	A microfluidic microprocessor: controlling biomimetic containers and cells using hybrid integrated circuit/microfluidic chips. <i>Lab on A Chip</i> , 2010, 10, 2937.	6.0	26
47	Ultrasensitive Single Extracellular Vesicle Detection Using High Throughput Droplet Digital Enzyme-Linked Immunosorbent Assay. <i>Nano Letters</i> , 2022, 22, 4315-4324.	9.1	26
48	Track-Etched Magnetic Micropores for Immunomagnetic Isolation of Pathogens. <i>Advanced Healthcare Materials</i> , 2014, 3, 1078-1085.	7.6	25
49	Clinical Applications of Extracellular Vesicles in the Diagnosis and Treatment of Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 2045-2056.	3.4	25
50	Multiplexed detection of viral infections using rapid in situ RNA analysis on a chip. <i>Lab on A Chip</i> , 2015, 15, 3170-3182.	6.0	22
51	Nanoparticle-Mediated Measurement of Target-Drug Binding in Cancer Cells. <i>ACS Nano</i> , 2011, 5, 9216-9224.	14.6	21
52	Surface Topography-Adaptive Robotic Superstructures for Biofilm Removal and Pathogen Detection on Human Teeth. <i>ACS Nano</i> , 2022, 16, 11998-12012.	14.6	20
53	Microfluidic diafiltration-on-chip using an integrated magnetic peristaltic micropump. <i>Lab on A Chip</i> , 2017, 17, 3796-3803.	6.0	19
54	Extracellular vesicles as distinct biomarker reservoirs for mild traumatic brain injury diagnosis. <i>Brain Communications</i> , 2021, 3, fcab151.	3.3	19

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55	Miniaturized, multiplexed readout of droplet-based microfluidic assays using time-domain modulation. <i>Lab on A Chip</i> , 2014, 14, 4638-4646.	6.0	17
56	Scalable Synthesis of Janus Particles with High Naturality. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17680-17686.	6.7	16
57	A web-based automated machine learning platform to analyze liquid biopsy data. <i>Lab on A Chip</i> , 2020, 20, 2166-2174.	6.0	15
58	Micro- and Nano-Devices for Studying Subcellular Biology. <i>Small</i> , 2021, 17, e2005793.	10.0	15
59	Laser micromachined hybrid open/paper microfluidic chips. <i>Biomicrofluidics</i> , 2013, 7, 064109.	2.4	14
60	Advancing microfluidic diagnostic chips into clinical use: a review of current challenges and opportunities. <i>Lab on A Chip</i> , 2022, 22, 3110-3121.	6.0	14
61	Toolbox for Exploring Modular Gene Regulation in Synthetic Biology Training. <i>ACS Synthetic Biology</i> , 2016, 5, 781-785.	3.8	13
62	Moldable Perfluoropolyether-Polyethylene Glycol Networks with Tunable Wettability and Solvent Resistance for Rapid Prototyping of Droplet Microfluidics. <i>Chemistry of Materials</i> , 2018, 30, 2583-2588.	6.7	13
63	Large-Scale Production of Compound Bubbles Using Parallelized Microfluidics for Efficient Extraction of Metal Ions. <i>Lab on A Chip</i> , 2019, 19, 665-673.	6.0	12
64	Proteomic Profiling of Extracellular Vesicles Separated from Plasma of Former National Football League Players at Risk for Chronic Traumatic Encephalopathy. , 2021, 12, 1363.		12
65	Point-of-Care Rare Cell Cancer Diagnostics. <i>Methods in Molecular Biology</i> , 2015, 1256, 123-137.	0.9	9
66	Ultrahigh Throughput On-Chip Synthesis of Microgels with Tunable Mechanical Properties. <i>Advanced Materials Technologies</i> , 2022, 7, 2101160.	5.8	8
67	Extracellular Vesicle-Based Multianalyte Liquid Biopsy as a Diagnostic for Cancer. <i>Annual Review of Biomedical Data Science</i> , 2022, 5, 269-292.	6.5	6
68	Magnetic Nickel iron Electroformed Trap (MagNET): a master/replica fabrication strategy for ultra-high throughput (>100 mL h <sup>-1</sup> ) immunomagnetic sorting. <i>Lab on A Chip</i> , 2016, 16, 3049-3057.	6.0	5
69	Anisotropic Rod-Shaped Particles Influence Injectable Granular Hydrogel Properties and Cell Invasion ( <i>Adv. Mater.</i> 12/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	5
70	Pico-washing: simultaneous liquid addition and removal for continuous-flow washing of microdroplets. <i>Microsystems and Nanoengineering</i> , 2022, 8, 46.	7.0	5
71	Multicolor detection of fluorescent droplets on a cell phone using time domain encoded optofluidics. , 2017, , .		1
72	Magnetic Separation: Track-Etched Magnetic Micropores for Immunomagnetic Isolation of Pathogens ( <i>Adv. Healthcare Mater.</i> 7/2014). <i>Advanced Healthcare Materials</i> , 2014, 3, 950-950.	7.6	0