

J Mark Meacham

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3891434/publications.pdf>

Version: 2024-02-01

37
papers

857
citations

516710

16
h-index

477307

29
g-index

37
all docs

37
docs citations

37
times ranked

1052
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Phototrophic extracellular electron uptake is linked to carbon dioxide fixation in the bacterium <i>Rhodospseudomonas palustris</i> . <i>Nature Communications</i> , 2019, 10, 1355. | 12.8 | 101 |
| 2 | Physical Methods for Intracellular Delivery: Practical Aspects from Laboratory Use to Industrial-Scale Processing. <i>Journal of the Association for Laboratory Automation</i> , 2014, 19, 1-18. | 2.8 | 88 |
| 3 | Medication eluting devices for the field of OBGYN (MEDOBGYN): 3D printed biodegradable hormone eluting constructs, a proof of concept study. <i>PLoS ONE</i> , 2017, 12, e0182929. | 2.5 | 82 |
| 4 | Droplet formation and ejection from a micromachined ultrasonic droplet generator: Visualization and scaling. <i>Physics of Fluids</i> , 2005, 17, 100605. | 4.0 | 79 |
| 5 | Micromachined ultrasonic droplet generator based on a liquid horn structure. <i>Review of Scientific Instruments</i> , 2004, 75, 1347-1352. | 1.3 | 47 |
| 6 | Photoferrotrophs Produce a PioAB Electron Conduit for Extracellular Electron Uptake. <i>MBio</i> , 2019, 10, . | 4.1 | 40 |
| 7 | Electrosonic ejector microarray for drug and gene delivery. <i>Biomedical Microdevices</i> , 2008, 10, 299-308. | 2.8 | 37 |
| 8 | Tumor-on-a-chip platform to interrogate the role of macrophages in tumor progression. <i>Integrative Biology (United Kingdom)</i> , 2020, 12, 221-232. | 1.3 | 37 |
| 9 | Enhanced intracellular delivery via coordinated acoustically driven shear mechanoporation and electrophoretic insertion. <i>Scientific Reports</i> , 2018, 8, 3727. | 3.3 | 32 |
| 10 | Nanoelectrospray ion generation for high-throughput mass spectrometry using a micromachined ultrasonic ejector array. <i>Applied Physics Letters</i> , 2005, 86, 203110. | 3.3 | 31 |
| 11 | Patient-derived small intestinal myofibroblasts direct perfused, physiologically responsive capillary development in a microfluidic Gut-on-a-Chip Model. <i>Scientific Reports</i> , 2020, 10, 3842. | 3.3 | 29 |
| 12 | Microchannel component technology for system-wide application in ammonia/water absorption heat pumps. <i>International Journal of Refrigeration</i> , 2011, 34, 1184-1196. | 3.4 | 27 |
| 13 | Counterflow Rejection of Adsorbing Proteins for Characterization of Biomolecular Interactions by Temperature Gradient Focusing. <i>Analytical Chemistry</i> , 2008, 80, 172-178. | 6.5 | 26 |
| 14 | Using pattern homogenization of binary grayscale masks to fabricate microfluidic structures with 3D topography. <i>Lab on A Chip</i> , 2007, 7, 1567. | 6.0 | 24 |
| 15 | Analytical Performance of a Venturi-Assisted Array of Micromachined Ultrasonic Electrospays Coupled to Ion Trap Mass Spectrometry for the Analysis of Peptides and Proteins. <i>Analytical Chemistry</i> , 2007, 79, 8154-8161. | 6.5 | 23 |
| 16 | Comparison of the internal energy deposition of venturi-assisted electro spray ionization and a venturi-assisted array of micromachined ultrasonic electrospays (AMUSE). <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1320-1329. | 2.8 | 18 |
| 17 | Development of aptamer-based affinity assays using temperature gradient focusing: Minimization of the limit of detection. <i>Electrophoresis</i> , 2008, 29, 3456-3465. | 2.4 | 12 |
| 18 | Photoferrotrophy and phototrophic extracellular electron uptake is common in the marine anoxygenic phototroph <i>Rhodovulum sulfidophilum</i> . <i>ISME Journal</i> , 2021, 15, 3384-3398. | 9.8 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | MICROMACHINED ULTRASONIC ATOMIZER FOR LIQUID FUELS. Small Group Research, 2008, 18, 163-190. | 2.7 | 12 |
| 20 | An integrated MEMS infrastructure for fuel processing: hydrogen generation and separation for portable power generation. Journal of Micromechanics and Microengineering, 2007, 17, S257-S264. | 2.6 | 11 |
| 21 | Design, modeling, and experimental validation of an acoustofluidic platform for nanoscale molecular synthesis and detection. Physics of Fluids, 2019, 31, 082007. | 4.0 | 11 |
| 22 | Acoustic trap-and-release for rapid assessment of cell motility. Soft Matter, 2019, 15, 4266-4275. | 2.7 | 11 |
| 23 | Motile cells as probes for characterizing acoustofluidic devices. Lab on A Chip, 2021, 21, 521-533. | 6.0 | 11 |
| 24 | Micromachined Ultrasonic Print-Head for Deposition of High-Viscosity Materials. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, . | 2.2 | 9 |
| 25 | Thermal considerations for microswimmer trap-and-release using standing surface acoustic waves. Lab on A Chip, 2021, 21, 2534-2543. | 6.0 | 9 |
| 26 | Tuning the Coupled-Domain Response for Efficient Ultrasonic Droplet Generation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1893-1904. | 3.0 | 8 |
| 27 | Augmented longitudinal acoustic trap for scalable microparticle enrichment. Biomicrofluidics, 2018, 12, 034110. | 2.4 | 8 |
| 28 | Fuel Atomization From a Micromachined Ultrasonic Droplet Generator: Visualization, Scaling, and Modeling. , 2006, , 117. | | 7 |
| 29 | Antibody Conjugate Assembly on Ultrasound-Confined Microcarrier Particles. ACS Biomaterials Science and Engineering, 2020, 6, 6108-6116. | 5.2 | 6 |
| 30 | Rapid measurement of the local pressure amplitude in microchannel acoustophoresis using motile cells. Journal of the Acoustical Society of America, 2021, 150, 1565-1576. | 1.1 | 4 |
| 31 | Spray characteristics of an ultrasonic microdroplet generator with a continuously variable operating frequency. Journal of the Acoustical Society of America, 2021, 150, 1300-1310. | 1.1 | 3 |
| 32 | Evaporation-enhanced, dynamically-adaptive air (gas)-cooled heat sink for thermal management of high heat dissipation devices. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , . | 0.0 | 1 |
| 33 | Protection levels of N95-level respirator substitutes proposed during the COVID-19 pandemic: safety concerns and quantitative evaluation procedures. BMJ Open, 2021, 11, e045557. | 1.9 | 1 |
| 34 | Reduced Order Modeling and Experimental Investigation of Acoustic Particle Manipulation in Complex 3D Geometries. , 2016, , . | | 0 |
| 35 | Micromachined Ultrasonic ElectroSpray Source Array for High Throughput Mass Spectrometry. , 2004, , . | | 0 |
| 36 | Acoustofluidic platform for in-channel immunoassays. , 2019, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------|----|-----------|
| 37 | 10.1063/1.5100149.1., 2019,, . | | 0 |