# Michele Zagnoni

List of Publications by Year
in descending order



| 57 | 2,239 | 196777 29 | 263392 45 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 61 | 61 | 61 | 3676 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A modular microfluidic platform to enable complex and customisable in vitro models for neuroscience. Lab on A Chip, 2022, , . | 3.1 | 7 |
| 2 | Assessment of CAR-T Cell-Mediated Cytotoxicity in 3D Microfluidic Cancer Co-Culture Models for Combination Therapy. IEEE Open Journal of Engineering in Medicine and Biology, 2022, 3, 86-95. | 1.7 | 8 |
| 3 | Cancer-associated fibroblasts require proline synthesis by PYCR1 for the deposition of pro-tumorigenic extracellular matrix. Nature Metabolism, 2022, 4, 693-710. | 5.1 | 49 |
| 4 | Microdroplet Operations in Polymeric Microtubes. Analytical Chemistry, 2021, 93, 2411-2418. | 3.2 | 4 |
| 5 | Microfluidic technologies for immunotherapy studies on solid tumours. Lab on A Chip, 2021, 21, 2306-2329. | 3.1 | 19 |
| 6 | Advances in microfluidic in vitro systems for neurological disease modeling. Journal of Neuroscience Research, 2021, 99, 1276-1307. | 1.3 | 56 |
| 7 | Detection of Estrogen Receptor Alpha and Assessment of Fulvestrant Activity in MCF-7 Tumor Spheroids Using Microfluidics and SERS. Analytical Chemistry, 2021, 93, 5862-5871. | 3.2 | 25 |
| 8 | Dynamic early clusters of nodal proteins contribute to node of Ranvier assembly during myelination of peripheral neurons. ELife, 2021, 10, . | 2.8 | 6 |
| 9 | Ultra-low flow rate measurement techniques. Measurement: Sensors, 2021, 18, 100279. | 1.3 | 6 |
| 10 | Functionalisation of human chloride intracellular ion channels in microfluidic droplet-interface-bilayers. Biosensors and Bioelectronics, 2020, 150, 111920. | 5.3 | 6 |
| 11 | Quantitative propagation of assembled human Tau from Alzheimer's disease brain in microfluidic neuronal cultures. Journal of Biological Chemistry, 2020, 295, 13079-13093. | 1.6 | 22 |
| 12 | Seeing around corners: Cells solve mazes and respond at a distance using attractant breakdown. Science, 2020, 369, . | 6.0 | 99 |
| 13 | Enhanced axonal response of mitochondria to demyelination offers neuroprotection: implications for multiple sclerosis. Acta Neuropathologica, 2020, 140, 143-167. | 3.9 | 48 |
| 14 | The Role of the BMP Pathway in Sustaining CML Stem Cells in the Bone Marrow Niche. Blood, 2019, 134, 3732-3732. | 0.6 | 0 |
| 15 | Toll-like receptor 3 activation impairs excitability and synaptic activity via TRIF signalling in immature rat and human neurons. Neuropharmacology, 2018, 135, 1-10. | 2.0 | 17 |
| 16 | Drug screening of biopsy-derived spheroids using a self-generated microfluidic concentration gradient. Scientific Reports, 2018, 8, 14672. | 1.6 | 93 |
| 17 | Surface-Enhanced Raman Scattering Based Microfluidics for Single-Cell Analysis. Analytical Chemistry, 2018, 90, 12004-12010. | 3.2 | 47 |
| 18 | A Microfluidic Platform for the Characterisation of CNS Active Compounds. Scientific Reports, 2017, 7, 15692. | 1.6 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Transitioning from multi-phase to single-phase microfluidics for long-term culture and treatment of multicellular spheroids. Lab on A Chip, 2016, 16, 3548-3557. | 3.1 | 33 |
| 20 | Real-time assessment of nanoparticle-mediated antigen delivery and cell response. Lab on A Chip, 2016, 16, 3374-3381. | 3.1 | 17 |
| 21 | Neuronal networks provide rapid neuroprotection against spreading toxicity. Scientific Reports, 2016, 6, 33746. | 1.6 | 40 |
| 22 | Emulsion technologies for multicellular tumour spheroid radiation assays. Analyst, The, 2016, 141, 100-110. | 1.7 | 62 |
| 23 | Developmental regulation of tau splicing is disrupted in stem cell-derived neurons from frontotemporal dementia patients with the 10 + 16 splice-site mutation in MAPT. Human Molecular Genetics, 2015, 24, 5260-5269. | 1.4 | 116 |
| 24 | Droplet-interface-bilayer assays in microfluidic passive networks. Scientific Reports, 2015, 5, 9951. | 1.6 | 50 |
| 25 | Self-Assembly: Biocatalytic Self-Assembly of Nanostructured Peptide Microparticles using Droplet Microfluidics (Small 2/2014). Small, 2014, 10, 284-284. | 5.2 | 1 |
| 26 | Theoretical and experimental analysis of side-polished fiber optofluidic variable attenuator. , 2014, , . | | 0 |
| 27 | Biocatalytic Selfâ€Assembly of Nanostructured Peptide Microparticles using Droplet Microfluidics. Small, 2014, 10, 285-293. | 5.2 | 41 |
| 28 | In-line single-mode fiber variable optical attenuator based on electrically addressable microdroplets. Applied Physics Letters, 2014, 105, 021105. | 1.5 | 2 |
| 29 | Chemically induced synaptic activity between mixed primary hippocampal co-cultures in a microfluidic system. Integrative Biology (United Kingdom), 2014, 6, 636-644. | 0.6 | 36 |
| 30 | Universal Surface-Enhanced Raman Tags: Individual Nanorods for Measurements from the Visible to the Infrared (514â€“1064 nm). ACS Nano, 2014, 8, 8600-8609. | 7.3 | 44 |
| 31 | Side-polished fiber optofluidic attenuator based on electrowetting-on-dielectric actuation. , 2013, , . | | 1 |
| 32 | Miniaturised technologies for the development of artificial lipid bilayer systems. Lab on A Chip, 2012, 12, 1026. | 3.1 | 152 |
| 33 | Single-Cell Analysis in Microdroplets. , 2012, , 211-228. | | 1 |
| 34 | Intracellular Protein Determination Using Droplet-Based Immunoassays. Analytical Chemistry, 2011, 83, 5361-5368. | 3.2 | 52 |
| 35 | Droplet Microfluidics for High-throughput Analysis of Cells and Particles. Methods in Cell Biology, 2011, 102, 23-48. | 0.5 | 13 |
| 36 | RÃ¼cktitelbild: Modular Redox-Active Inorganic Chemical Cells: iCHELLs (Angew. Chem. 44/2011). Angewandte Chemie, 2011, 123, 10646-10646. | 1.6 | 0 |

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|---|---|---|---|
| 37 | Back Cover: Modular Redox-Active Inorganic Chemical Cells: iCHELLs (Angew. Chem. Int. Ed. 44/2011). Angewandte Chemie - International Edition, 2011, 50, 10462-10462. | 7.2 | 0 |
| 38 | Design and characterization of polymeric pressure sensors for wireless wind sail monitoring. Sensors and Actuators A: Physical, 2011, 167, 162-170. | 2.0 | 9 |
| 39 | A PCB-embedded pressure sensor for wireless wind sail monitoring. Procedia Engineering, 2010, 5, 315-318. | 1.2 | 3 |
| 40 | Hysteresis in Multiphase Microfluidics at a T-Junction. Langmuir, 2010, 26, 9416-9422. | 1.6 | 31 |
| 41 | Electrocoalescence Mechanisms of Microdroplets Using Localized Electric Fields in Microfluidic Channels. Langmuir, 2010, 26, 14443-14449. | 1.6 | 66 |
| 42 | A microdroplet-based shift register. Lab on A Chip, 2010, 10, 3069. | 3.1 | 58 |
| 43 | Electrically initiated upstream coalescence cascade of droplets in a microfluidic flow. Physical Review E, 2009, 80, 046303. | 0.8 | 51 |
| 44 | Microfluidic array platform for simultaneous lipid bilayer membrane formation. Biosensors and Bioelectronics, 2009, 24, 1235-1240. | 5.3 | 58 |
| 45 | Bilayer lipid membranes from falling droplets. Analytical and Bioanalytical Chemistry, 2009, 393, 1601-1605. | 1.9 | 25 |
| 46 | Microfluidic Single-Cell Array Cytometry for the Analysis of Tumor Apoptosis. Analytical Chemistry, 2009, 81, 5517-5523. | 3.2 | 197 |
| 47 | On-chip electrocoalescence of microdroplets as a function of voltage, frequency and droplet size. Lab on A Chip, 2009, 9, 2652. | 3.1 | 107 |
| 48 | Binding of Anionic Lipids to at Least Three Nonannular Sites on the Potassium Channel KcsA is Required for Channel Opening. Biophysical Journal, 2008, 94, 1689-1698. | 0.2 | 121 |
| 49 | Formation of artificial lipid bilayers using droplet dielectrophoresis. Lab on A Chip, 2008, 8, 1617. | 3.1 | 77 |
| 50 | Micromachined glass apertures for artificial lipid bilayer formation in a microfluidic system. Journal of Micromechanics and Microengineering, 2007, 17, S189-S196. | 1.5 | 29 |
| 51 | Controlled delivery of proteins into bilayer lipid membranes on chip. Lab on A Chip, 2007, 7, 1176. | 3.1 | 64 |
| 52 | Air-Exposure Technique for the Formation of Artificial Lipid Bilayers in Microsystems. Langmuir, 2007, 23, 8277-8284. | 1.6 | 50 |
| 53 | Controlled delivery of membrane proteins to artificial lipid bilayers by nystatinâ€“ergosterol modulated vesicle fusion. IET Nanobiotechnology, 2006, 153, 21. | 2.1 | 21 |
| 54 | Applicability of Field Programmable Analog Arrays to Capacitive Sensing in the Sub-pF Range. Analog Integrated Circuits and Signal Processing, 2006, 47, 39-51. | 0.9 | 6 |

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|---|---|---|---|
| 55 | A non-invasive capacitive sensor strip for aerodynamic pressure measurement. Sensors and Actuators A: Physical, 2005, 123-124, 240-248. | 2.0 | 40 |
| 56 | Aircraft angle of attack and air speed detection by redundant strip pressure sensors. , 0, , . | | 14 |
| 57 | Acquisition system for pressure sensor network. , 0, , . | | 7 |