Olivier Frey

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Reconfigurable microfluidic hanging drop network for multi-tissue interaction and analysis. Nature Communications, 2014, 5, 4250. | 5.8 | 319 |
| 2 | A guide to the organ-on-a-chip. Nature Reviews Methods Primers, 2022, 2, . | 11.8 | 247 |
| 3 | Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 272-321. | 0.9 | 214 |
| 4 | Electrochemical comparison of IrO2 prepared by anodic oxidation of pure iridium and IrO2 prepared by thermal decomposition of H2IrCl6 precursor solution. Journal of Applied Electrochemistry, 2009, 39, 1361-1367. | 1.5 | 141 |
| 5 | Multi-analyte biosensor interface for real-time monitoring of 3D microtissue spheroids in hanging-drop networks. Microsystems and Nanoengineering, 2016, 2, 16022. | 3.4 | 124 |
| 6 | Biology-inspired microphysiological systems to advance medicines for patient benefit and animal welfare. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 365-394. | 0.9 | 123 |
| 7 | 3D spherical microtissues and microfluidic technology for multi-tissue experiments and analysis. Journal of Biotechnology, 2015, 205, 24-35. | 1.9 | 121 |
| 8 | A Synthetic Multifunctional Mammalian pH Sensor and CO2 Transgene-Control Device. Molecular Cell, 2014, 55, 397-408. | 4.5 | 96 |
| 9 | Electrochemical oxidation of ammonia (NH4+/NH3) on thermally and electrochemically prepared IrO2 electrodes. Electrochimica Acta, 2011, 56, 1361-1365. | 2.6 | 71 |
| 10 | Microfluidic single-cell cultivation chip with controllable immobilization and selective release of yeast cells. Lab on A Chip, 2012, 12, 906-915. | 3.1 | 68 |
| 11 | 96-Well Format-Based Microfluidic Platform for Parallel Interconnection of Multiple Multicellular Spheroids. Journal of the Association for Laboratory Automation, 2015, 20, 274-282. | 2.8 | 68 |
| 12 | Fully Integrated CMOS Microsystem for Electrochemical Measurements on 32 × 32 Working Electrodes at 90 Frames Per Second. Analytical Chemistry, 2014, 86, 6425-6432. | 3.2 | 64 |
| 13 | Enzyme-based choline and l-glutamate biosensor electrodes on silicon microprobe arrays. Biosensors and Bioelectronics, 2010, 26, 477-484. | 5.3 | 59 |
| 14 | Electrical Impedance Spectroscopy for Microtissue Spheroid Analysis in Hanging-Drop Networks. ACS Sensors, 2016, 1, 1028-1035. | 4.0 | 52 |
| 15 | Adding the â€~heart' to hanging drop networks for microphysiological multi-tissue experiments. Lab on A Chip, 2015, 15, 4138-4147. | 3.1 | 51 |
| 16 | Autonomous microfluidic multi-channel chip for real-time PCR with integrated liquid handling. Biomedical Microdevices, 2007, 9, 711-718. | 1.4 | 50 |
| 17 | In Vitro Platform for Studying Human Insulin Release Dynamics of Single Pancreatic Islet Microtissues at High Resolution. Advanced Biology, 2020, 4, e1900291. | 3.0 | 50 |
| 18 | Time-lapse electrical impedance spectroscopy for monitoring the cell cycle of single immobilized S. pombe cells. Scientific Reports, 2015, 5, 17180. | 1.6 | 40 |

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|----|---|-----|-----------|
| 19 | Automated, Multiplexed Electrical Impedance Spectroscopy Platform for Continuous Monitoring of Microtissue Spheroids. Analytical Chemistry, 2016, 88, 10876-10883. | 3.2 | 40 |
| 20 | Microfluidic Multitissue Platform for Advanced Embryotoxicity Testing In Vitro. Advanced Science, 2019, 6, 1900294. | 5.6 | 35 |
| 21 | Real-time monitoring of immobilized single yeast cells through multifrequency electrical impedance spectroscopy. Analytical and Bioanalytical Chemistry, 2014, 406, 7015-7025. | 1.9 | 32 |
| 22 | Scalable Microfluidic Platform for Flexible Configuration of and Experiments with Microtissue Multiorgan Models. SLAS Technology, 2019, 24, 79-95. | 1.0 | 32 |
| 23 | Integrating impedance-based growth-rate monitoring into a microfluidic cell culture platform for live-cell microscopy. Microsystems and Nanoengineering, 2018, 4, 8. | 3.4 | 31 |
| 24 | A novel enzyme entrapment in SU-8 microfabricated films for glucose micro-biosensors. Biosensors and Bioelectronics, 2010, 26, 1582-1587. | 5.3 | 27 |
| 25 | Versatile, Simple-to-Use Microfluidic Cell-Culturing Chip for Long-Term, High-Resolution, Time-Lapse Imaging. Analytical Chemistry, 2015, 87, 4144-4151. | 3.2 | 26 |
| 26 | Seamless Combination of Fluorescence-Activated Cell Sorting and Hanging-Drop Networks for Individual Handling and Culturing of Stem Cells and Microtissue Spheroids. Analytical Chemistry, 2016, 88, 1222-1229. | 3.2 | 23 |
| 27 | Multiple extraâ€synaptic spillover mechanisms regulate prolonged activity in cerebellar Golgi cell–granule cell loops. Journal of Physiology, 2011, 589, 3837-3854. | 1.3 | 22 |
| 28 | Multi-target electrochemical biosensing enabled by integrated CMOS electronics. Journal of Micromechanics and Microengineering, 2011, 21, 054010. | 1.5 | 21 |
| 29 | The fibrotic response of primary liver spheroids recapitulates in vivo hepatic stellate cell activation. Biomaterials, 2020, 261, 120335. | 5.7 | 21 |
| 30 | Biosensor microprobes with integrated microfluidic channels for bi-directional neurochemical interaction. Journal of Neural Engineering, 2011, 8, 066001. | 1.8 | 20 |
| 31 | A Framework for Optimizing High-Content Imaging of 3D Models for Drug Discovery. SLAS Discovery, 2020, 25, 709-722. | 1.4 | 19 |
| 32 | Continuous-flow multi-analyte biosensor cartridge with controllable linear response range. Lab on A Chip, 2010, 10, 2226. | 3.1 | 17 |
| 33 | Predicting Metabolismâ€Related Drug–Drug Interactions Using a Microphysiological Multitissue System. Advanced Biology, 2020, 4, e2000079. | 3.0 | 16 |
| 34 | Electrochemical behaviour of ammonia (NH4+/NH3) on electrochemically grown anodic iridium oxide film (AIROF) electrode. Electrochemistry Communications, 2009, 11, 1590-1592. | 2.3 | 15 |
| 35 | Tubing-Free Microfluidic Microtissue Culture System Featuring Gradual, in vivo-Like Substance Exposure Profiles. Frontiers in Bioengineering and Biotechnology, 2019, 7, 72. | 2.0 | 15 |
| 36 | Simultaneous neurochemical stimulation and recording using an assembly of biosensor silicon microprobes and SU-8 microinjectors. Sensors and Actuators B: Chemical, 2011, 154, 96-105. | 4.0 | 13 |

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|----|--|-----|-----------|
| 37 | Microfluidic Hydrogel Hangingâ€Drop Network for Longâ€Term Culturing of 3D Microtissues and Simultaneous Highâ€Resolution Imaging. Advanced Biology, 2018, 2, 1800054. | 3.0 | 13 |
| 38 | Robust Functionalization of Large Microelectrode Arrays by Using Pulsed Potentiostatic Deposition. Sensors, 2017, 17, 22. | 2.1 | 11 |
| 39 | The CellClamper: A Convenient Microfluidic Device for Time-Lapse Imaging of Yeast. Methods in Molecular Biology, 2018, 1672, 537-555. | 0.4 | 9 |
| 40 | Fabrication and Operation of Microfluidic Hanging-Drop Networks. Methods in Molecular Biology, 2018, 1771, 183-202. | 0.4 | 8 |
| 41 | A Microphysiological Cell-Culturing System for Pharmacokinetic Drug Exposure and High-Resolution Imaging of Arrays of 3D Microtissues. Frontiers in Pharmacology, 2021, 12, 785851. | 1.6 | 6 |
| 42 | Microelectrode-array of IrO2 prepared by thermal treatment of pure Ir. Electrochemistry Communications, 2010, 12, 587-591. | 2.3 | 4 |
| 43 | A Tubing-Free, Microfluidic Platform for the Realization of Physiologically Relevant Dosing Curves on Cellular Models. Proceedings (mdpi), 2017, 1, . | 0.2 | 4 |
| 44 | Design and engineering of multiorgan systems. , 2020, , 393-427. | | 4 |
| 45 | Wide-band Electrical Impedance Spectroscopy (EIS) Measures S. pombe Cell Growth in vivo. Methods in Molecular Biology, 2018, 1721, 135-153. | 0.4 | 2 |
| 46 | Microfluidic Cell Culturing Platform Combining Long-term, High-resolution Imaging with Impedance Spectroscopy. Procedia Engineering, 2015, 120, 154-157. | 1.2 | 1 |
| 47 | Microfluidic hanging-drop platform for parallel closed-loop multi-tissue experiments. , 2015, , . | | 1 |
| 48 | Miniature Fluidic Microtissue Culturing Device for Rapid Biological Detection. Integrated Analytical Systems, 2018, , 207-225. | 0.4 | 1 |
| 49 | Multisite monitoring of choline using biosensor microprobe arrays in combination with CMOS circuitry. Biomedizinische Technik, 2014, 59, 305-14. | 0.9 | 0 |
| 50 | Pro-drug activation in dynamic microphysiological fluidic systems interconnecting liver and tumor microtissues. Toxicology Letters, 2015, 238, S179. | 0.4 | 0 |
| 51 | Integrating multi-electrode arrays in microfluidic hanging-drop networks. , 2017, , . | | 0 |
| 52 | Microfluidics: Microfluidic Hydrogel Hanging-Drop Network for Long-Term Culturing of 3D Microtissues and Simultaneous High-Resolution Imaging (Adv. Biosys. 7/2018). Advanced Biology, 2018, 2, 1870062. | 3.0 | 0 |