

# Thomas Gervais

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3365624/publications.pdf>

Version: 2024-02-01

35  
papers

1,218  
citations

567281

15  
h-index

477307

29  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1744  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic Surface Shields: Control of Flow and Diffusion over Sensitive Surfaces. <i>Physical Review Applied</i> , 2022, 17, .	3.8	3
2	Large-scale Dried Reagent Reconstitution and Diffusion Control Using Microfluidic Self-coalescence Modules. <i>Small</i> , 2022, 18, e2105939.	10.0	4
3	Radiotherapy on-chip: Microfluidics for Translational Radiation Oncology. <i>Lab on A Chip</i> , 2022, , .	6.0	5
4	Rapid quantitative assays for glucose-6-phosphate dehydrogenase (G6PD) and hemoglobin combined on a capillary-driven microfluidic chip. <i>Lab on A Chip</i> , 2021, 21, 3573-3582.	6.0	4
5	X-ray on chip: Quantifying therapeutic synergies between radiotherapy and anticancer drugs using soft tissue sarcoma tumor spheroids. <i>Radiotherapy and Oncology</i> , 2021, 157, 175-181.	0.6	8
6	Microdissected Tissue vs Tissue Slices—A Comparative Study of Tumor Explant Models Cultured On-Chip and Off-Chip. <i>Cancers</i> , 2021, 13, 4208.	3.7	13
7	Hypoxic Jumbo Spheroids On-A-Chip (HOnAChip): Insights into Treatment Efficacy. <i>Cancers</i> , 2021, 13, 4046.	3.7	11
8	A simple static contact angle-based mesh-dependency correction for 3D capillary flow simulations. <i>Computers and Fluids</i> , 2021, 228, 105060.	2.5	5
9	Pixel-based open-space microfluidics for versatile surface processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
10	Two-dimensional convection-diffusion in multipolar flows with applications in microfluidics and groundwater flow. <i>Physics of Fluids</i> , 2020, 32, .	4.0	5
11	Carboplatin sensitivity in epithelial ovarian cancer cell lines: The impact of model systems. <i>PLoS ONE</i> , 2020, 15, e0244549.	2.5	16
12	A multiplexed microfluidic and microscopy study of vasodilation signaling pathways using microbubble and ultrasound therapy. , 2020, , .		0
13	Paraffin-embedding lithography and micro-dissected tissue micro-arrays: tools for biological and pharmacological analysis of <i>ex vivo</i> solid tumors. <i>Lab on A Chip</i> , 2019, 19, 693-705.	6.0	14
14	Long-term fluorescence hyperspectral imaging of on-chip treated co-culture tumour spheroids to follow clonal evolution. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 130-141.	1.3	4
15	Microfluidic multipoles theory and applications. <i>Nature Communications</i> , 2019, 10, 1781.	12.8	26
16	On-chip combined radiotherapy and chemotherapy testing on soft-tissue sarcoma spheroids to study cell death using flow cytometry and clonogenic assay. <i>Scientific Reports</i> , 2019, 9, 2214.	3.3	20
17	Self-coalescing flows in microfluidics for pulse-shaped delivery of reagents. <i>Nature</i> , 2019, 574, 228-232.	27.8	55
18	Additive manufacturing of resonant fluidic sensors based on photonic bandgap waveguides for terahertz applications. <i>Optics Express</i> , 2019, 27, 27663.	3.4	24

#	ARTICLE	IF	CITATIONS
19	Hele-Shaw Flow Theory in the Context of Open Microfluidics: From Dipoles to Quadrupoles. , 2018, , 63-82.		1
20	Multi-size spheroid formation using microfluidic funnels. Lab on A Chip, 2018, 18, 304-314.	6.0	53
21	3D Printed Microfluidic Probes. Scientific Reports, 2018, 8, 10995.	3.3	35
22	Fluorescence hyperspectral imaging for live monitoring of multiple spheroids in microfluidic chips. Analyst, The, 2018, 143, 3829-3840.	3.5	16
23	Novel ex vivo patient-derived 3D model as a powerful tool to apply precision medicine.. Journal of Clinical Oncology, 2018, 36, 12086-12086.	1.6	0
24	Simulation-assisted design of microfluidic sample traps for optimal trapping and culture of non-adherent single cells, tissues, and spheroids. Scientific Reports, 2017, 7, 245.	3.3	27
25	Reconfigurable Microfluidic Magnetic Valve Arrays: Towards a Radiotherapy-Compatible Spheroid Culture Platform for the Combinatorial Screening of Cancer Therapies. Sensors, 2017, 17, 2271.	3.8	8
26	Spectroscopic imaging system for high-throughput viability assessment of ovarian spheroids or microdissected tumor tissues (MDTs) in a microfluidic chip. Proceedings of SPIE, 2016, , .	0.8	0
27	Micro-dissected tumor tissues on chip: an ex vivo method for drug testing and personalized therapy. Lab on A Chip, 2016, 16, 312-325.	6.0	141
28	The use of a microfluidic chip platform for the ex vivo rapid measurement of chemotherapeutic responses in 3D sub millimeter biopsy samples.. Journal of Clinical Oncology, 2016, 34, e16621-e16621.	1.6	0
29	Two-Aperture Microfluidic Probes as Flow Dipoles: Theory and Applications. Scientific Reports, 2015, 5, 11943.	3.3	30
30	Systematic analysis of microfluidic probe design and operation. , 2014, 2014, 1567-70.		1
31	Surface Plasmon Resonance Determination of the Binding Mechanisms of <scp>I</scp>-Cysteine and Mercaptoundecanoic Acid on Gold. Journal of Physical Chemistry C, 2013, 117, 6712-6718.	3.1	18
32	Empirical chemosensitivity testing in a spheroid model of ovarian cancer using a microfluidics-based multiplex platform. Biomicrofluidics, 2013, 7, 11805.	2.4	44
33	Microfluidic quadrupole and floating concentration gradient. Nature Communications, 2011, 2, 464.	12.8	83
34	Flow-induced deformation of shallow microfluidic channels. Lab on A Chip, 2006, 6, 500.	6.0	283
35	Mass transport and surface reactions in microfluidic systems. Chemical Engineering Science, 2006, 61, 1102-1121.	3.8	248