Thomas Gervais

List of Publications by Year
in descending order

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35	1,218	567281 15	477307 29
papers	citations	h-index	g-index

35	35	35	1744
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flow-induced deformation of shallow microfluidic channels. Lab on A Chip, 2006, 6, 500.	6.0	283
2	Mass transport and surface reactions in microfluidic systems. Chemical Engineering Science, 2006, 61, 1102-1121.	3.8	248
3	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
4	Microfluidic quadrupole and floating concentration gradient. Nature Communications, 2011, 2, 464.	12.8	83
5	Self-coalescing flows in microfluidics for pulse-shaped delivery of reagents. Nature, 2019, 574, 228-232.	27.8	55
6	Multi-size spheroid formation using microfluidic funnels. Lab on A Chip, 2018, 18, 304-314.	6.0	53
7	Empirical chemosensitivity testing in a spheroid model of ovarian cancer using a microfluidics-based multiplex platform. Biomicrofluidics, 2013, 7, 11805.	2.4	44
8	3D Printed Microfluidic Probes. Scientific Reports, 2018, 8, 10995.	3.3	35
9	Two-Aperture Microfluidic Probes as Flow Dipoles: Theory and Applications. Scientific Reports, 2015, 5, 11943.	3.3	30
10	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
11	Microfluidic multipoles theory and applications. Nature Communications, 2019, 10, 1781.	12.8	26
12	Additive manufacturing of resonant fluidic sensors based on photonic bandgap waveguides for terahertz applications. Optics Express, 2019, 27, 27663.	3.4	24
13	On-chip combined radiotherapy and chemotherapy testing on soft-tissue sarcoma spheroids to study cell death using flow cytometry and clonogenic assay. Scientific Reports, 2019, 9, 2214.	3.3	20
14	Surface Plasmon Resonance Determination of the Binding Mechanisms of <scp>l</scp>-Cysteine and Mercaptoundecanoic Acid on Gold. Journal of Physical Chemistry C, 2013, 117, 6712-6718.	3.1	18
15	Fluorescence hyperspectral imaging for live monitoring of multiple spheroids in microfluidic chips. Analyst, The, 2018, 143, 3829-3840.	3.5	16
16	Carboplatin sensitivity in epithelial ovarian cancer cell lines: The impact of model systems. PLoS ONE, 2020, 15, e0244549.	2.5	16
17	Paraffin-embedding lithography and micro-dissected tissue micro-arrays: tools for biological and pharmacological analysis of ex vivo solid tumors. Lab on A Chip, 2019, 19, 693-705.	6.0	14
18	Microdissected Tissue vs Tissue Slicesâ€"A Comparative Study of Tumor Explant Models Cultured On-Chip and Off-Chip. Cancers, 2021, 13, 4208.	3.7	13

#	Article	IF	Citations
19	Pixel-based open-space microfluidics for versatile surface processing. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
20	Hypoxic Jumbo Spheroids On-A-Chip (HOnAChip): Insights into Treatment Efficacy. Cancers, 2021, 13, 4046.	3.7	11
21	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
22	X-ray on chip: Quantifying therapeutic synergies between radiotherapy and anticancer drugs using soft tissue sarcoma tumor spheroids. Radiotherapy and Oncology, 2021, 157, 175-181.	0.6	8
23	Two-dimensional convectionâ€“diffusion in multipolar flows with applications in microfluidics and groundwater flow. Physics of Fluids, 2020, 32, .	4.0	5
24	A simple static contact angle-based mesh-dependency correction for 3D capillary flow simulations. Computers and Fluids, 2021, 228, 105060.	2.5	5
25	Radiotherapy on-chip: Microfluidics for Translational Radiation Oncology. Lab on A Chip, 2022, , .	6.0	5
26	Long-term fluorescence hyperspectral imaging of on-chip treated co-culture tumour spheroids to follow clonal evolution. Integrative Biology (United Kingdom), 2019, 11, 130-141.	1.3	4
27	Rapid quantitative assays for glucose-6-phosphate dehydrogenase (G6PD) and hemoglobin combined on a capillary-driven microfluidic chip. Lab on A Chip, 2021, 21, 3573-3582.	6.0	4
28	Largeâ€Scale Dried Reagent Reconstitution and Diffusion Control Using Microfluidic Selfâ€Coalescence Modules. Small, 2022, 18, e2105939.	10.0	4
29	Microfluidic Surface Shields: Control of Flow and Diffusion over Sensitive Surfaces. Physical Review Applied, 2022, 17, .	3.8	3
30	Systematic analysis of microfluidic probe design and operation. , 2014, 2014, 1567-70.		1
31	Hele-Shaw Flow Theory in the Context of Open Microfluidics: From Dipoles to Quadrupoles. , 2018, , 63-82.		1
32	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
33	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
34	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
35	A multiplexed microfluidic and microscopy study of vasodilation signaling pathways using microbubble and ultrasound therapy. , 2020, , .		0