Laurent Malaquin

List of Publications by Citations

Source: https://exaly.com/author-pdf/9475135/laurent-malaquin-publications-by-citations.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72 2,705 25 51 g-index

77 3,103 6.5 4.89 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
72	Nanoparticle printing with single-particle resolution. <i>Nature Nanotechnology</i> , 2007 , 2, 570-6	28.7	360
71	Controlled particle placement through convective and capillary assembly. <i>Langmuir</i> , 2007 , 23, 11513-21	4	282
70	Microfluidic sorting and multimodal typing of cancer cells in self-assembled magnetic arrays. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14524-9	11.5	260
69	A review of microfabrication and hydrogel engineering for micro-organs on chips. <i>Biomaterials</i> , 2014 , 35, 1816-32	15.6	166
68	Stress clamp experiments on multicellular tumor spheroids. <i>Physical Review Letters</i> , 2011 , 107, 188102	7.4	148
67	Microfluidic: an innovative tool for efficient cell sorting. <i>Methods</i> , 2012 , 57, 297-307	4.6	110
66	Printing chemical gradients. <i>Langmuir</i> , 2005 , 21, 7796-804	4	82
65	New family of fluorinated polymer chips for droplet and organic solvent microfluidics. <i>Lab on A Chip</i> , 2011 , 11, 508-12	7.2	67
64	Closing the Gap Between Self-Assembly and Microsystems Using Self-Assembly, Transfer, and Integration of Particles. <i>Advanced Materials</i> , 2005 , 17, 2438-2442	24	61
63	Fabrication of 3D scaffolds reproducing intestinal epithelium topography by high-resolution 3D stereolithography. <i>Biomaterials</i> , 2019 , 221, 119404	15.6	52
62	Programmable magnetic tweezers and droplet microfluidic device for high-throughput nanoliter multi-step assays. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10765-9	16.4	52
61	Two-photon lithography and microscopy of 3D hydrogel scaffolds for neuronal cell growth. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 027009	1.5	51
60	High purity microfluidic sorting and analysis of circulating tumor cells: towards routine mutation detection. <i>Lab on A Chip</i> , 2015 , 15, 2090-101	7.2	50
59	Combining microfluidics, optogenetics and calcium imaging to study neuronal communication in vitro. <i>PLoS ONE</i> , 2015 , 10, e0120680	3.7	49
58	A new microfluidic approach for the one-step capture, amplification and label-free quantification of bacteria from raw samples. <i>Chemical Science</i> , 2017 , 8, 1329-1336	9.4	47
57	A low cost and high throughput magnetic bead-based immuno-agglutination assay in confined droplets. <i>Lab on A Chip</i> , 2013 , 13, 2344-9	7.2	44
56	Design, modeling and characterization of microfluidic architectures for high flow rate, small footprint microfluidic systems. <i>Lab on A Chip</i> , 2011 , 11, 822-32	7.2	39

55	Collective beating of artificial microcilia. <i>Physical Review Letters</i> , 2011 , 107, 014501	7.4	38
54	Multiphoton Direct Laser Writing and 3D Imaging of Polymeric Freestanding Architectures for Cell Colonization. <i>Small</i> , 2017 , 13, 1700621	11	37
53	Microfluidic platform combining droplets and magnetic tweezers: application to HER2 expression in cancer diagnosis. <i>Scientific Reports</i> , 2016 , 6, 25540	4.9	37
52	Fabrication of thermoplastics chips through lamination based techniques. <i>Lab on A Chip</i> , 2012 , 12, 1849	9-56	36
51	Selective handling of droplets in a microfluidic device using magnetic rails. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 141-153	2.8	35
50	An in situ study of the adsorption behavior of functionalized particles on self-assembled monolayers via different chemical interactions. <i>Langmuir</i> , 2007 , 23, 9990-9	4	33
49	Continuous chemical operations and modifications on magnetic IFe2O3 nanoparticles confined in nanoliter droplets for the assembly of fluorescent and magnetic SiO2@IFe2O3. <i>Chemical Communications</i> , 2015 , 51, 16904-7	5.8	32
48	Patterning of polystyrene by scanning electrochemical microscopy. Biological applications to cell adhesion. <i>Langmuir</i> , 2010 , 26, 17348-56	4	30
47	FISH in chips: turning microfluidic fluorescence in situ hybridization into a quantitative and clinically reliable molecular diagnosis tool. <i>Lab on A Chip</i> , 2015 , 15, 811-22	7.2	25
46	Magnetic fluidized bed for solid phase extraction in microfluidic systems. <i>Lab on A Chip</i> , 2017 , 17, 1603	-1,615	24
46 45	Magnetic fluidized bed for solid phase extraction in microfluidic systems. <i>Lab on A Chip</i> , 2017 , 17, 1603 New non-covalent strategies for stable surface treatment of thermoplastic chips. <i>Lab on A Chip</i> , 2013 , 13, 4409-18	-1,615 7.2	24
	New non-covalent strategies for stable surface treatment of thermoplastic chips. <i>Lab on A Chip</i> ,	•	
45	New non-covalent strategies for stable surface treatment of thermoplastic chips. <i>Lab on A Chip</i> , 2013 , 13, 4409-18 Development of pH-ISFET sensors for the detection of bacterial activity. <i>Sensors and Actuators B:</i>	7.2	24
45	New non-covalent strategies for stable surface treatment of thermoplastic chips. <i>Lab on A Chip</i> , 2013 , 13, 4409-18 Development of pH-ISFET sensors for the detection of bacterial activity. <i>Sensors and Actuators B: Chemical</i> , 2004 , 103, 247-251 In-mold patterning and actionable axo-somatic compartmentalization for on-chip neuron culture.	7.2 8.5	24
45 44 43	New non-covalent strategies for stable surface treatment of thermoplastic chips. <i>Lab on A Chip</i> , 2013 , 13, 4409-18 Development of pH-ISFET sensors for the detection of bacterial activity. <i>Sensors and Actuators B: Chemical</i> , 2004 , 103, 247-251 In-mold patterning and actionable axo-somatic compartmentalization for on-chip neuron culture. <i>Lab on A Chip</i> , 2016 , 16, 2059-68 Resolution improvement of 3D stereo-lithography through the direct laser trajectory programming: Application to microfluidic deterministic lateral displacement device. <i>Analytica Chimica Acta</i> , 2018 ,	7.2 8.5 7.2	24
45 44 43 42	New non-covalent strategies for stable surface treatment of thermoplastic chips. <i>Lab on A Chip</i> , 2013 , 13, 4409-18 Development of pH-ISFET sensors for the detection of bacterial activity. <i>Sensors and Actuators B: Chemical</i> , 2004 , 103, 247-251 In-mold patterning and actionable axo-somatic compartmentalization for on-chip neuron culture. <i>Lab on A Chip</i> , 2016 , 16, 2059-68 Resolution improvement of 3D stereo-lithography through the direct laser trajectory programming: Application to microfluidic deterministic lateral displacement device. <i>Analytica Chimica Acta</i> , 2018 , 1000, 239-247 Direct laser fabrication of free-standing PEGDA-hydrogel scaffolds for neuronal cell growth:	7.2 8.5 7.2 6.6	24 24 24 24
45 44 43 42 41	New non-covalent strategies for stable surface treatment of thermoplastic chips. <i>Lab on A Chip</i> , 2013 , 13, 4409-18 Development of pH-ISFET sensors for the detection of bacterial activity. <i>Sensors and Actuators B: Chemical</i> , 2004 , 103, 247-251 In-mold patterning and actionable axo-somatic compartmentalization for on-chip neuron culture. <i>Lab on A Chip</i> , 2016 , 16, 2059-68 Resolution improvement of 3D stereo-lithography through the direct laser trajectory programming: Application to microfluidic deterministic lateral displacement device. <i>Analytica Chimica Acta</i> , 2018 , 1000, 239-247 Direct laser fabrication of free-standing PEGDA-hydrogel scaffolds for neuronal cell growth: Engineering 3D biocompatible microenvironments. <i>Materials Today</i> , 2018 , 21, 315-316 Centrifugal microfluidic platform for radiochemistry: potentialities for the chemical analysis of	7.2 8.5 7.2 6.6	24 24 24 24 20

37	Experimental observation of ultrasound fast and slow waves through three-dimensional printed trabecular bone phantoms. <i>Journal of the Acoustical Society of America</i> , 2016 , 139, EL13-18	2.2	17
36	A three dimensional thermoplastic microfluidic chip for robust cell capture and high resolution imaging. <i>Biomicrofluidics</i> , 2014 , 8, 024109	3.2	17
35	Simple Synthetic Molecular Hydrogels from Self-Assembling Alkylgalactonamides as Scaffold for 3D Neuronal Cell Growth. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 17004-17017	9.5	17
34	4D printing with spin-crossover polymer composites. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6001-60	0 5 .1	15
33	Water-in-PDMS Emulsion Templating of Highly Interconnected Porous Architectures for 3D Cell Culture. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 28631-28640	9.5	15
32	Wet spinning and radial self-assembly of a carbohydrate low molecular weight gelator into well organized hydrogel filaments. <i>Nanoscale</i> , 2019 , 11, 15043-15056	7.7	13
31	A low-cost, label-free DNA detection method in lab-on-chip format based on electrohydrodynamic instabilities, with application to long-range PCR. <i>Lab on A Chip</i> , 2012 , 12, 4738-47	7.2	13
30	Cyclic olefin copolymer plasma millireactors. <i>Lab on A Chip</i> , 2014 , 14, 3037-42	7.2	12
29	Precision patterning with luminescent nanocrystal-functionalized beads. <i>Langmuir</i> , 2010 , 26, 14294-30	04	11
28	Effects of ultraviolet/ozone treatment on benzocyclobutene films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2003 , 21, 766-771	2.9	11
27	In vitro models of intestinal epithelium: Toward bioengineered systems. <i>Journal of Tissue Engineering</i> , 2021 , 12, 2041731420985202	7.5	11
26	VEGF (Vascular Endothelial Growth Factor) Functionalized Magnetic Beads in a Microfluidic Device to Improve the Angiogenic Balance in Preeclampsia. <i>Hypertension</i> , 2019 , 74, 145-153	8.5	10
25	Multiplexed Remote SPR Detection of Biological Interactions through Optical Fiber Bundles. <i>Sensors</i> , 2020 , 20,	3.8	10
24	Chromatin immunoprecipitation in microfluidic droplets: towards fast and cheap analyses. <i>Lab on A Chip</i> , 2017 , 17, 530-537	7.2	9
23	Extracellular Matrix Mechanical Properties and Regulation of the Intestinal Stem Cells: When Mechanics Control Fate. <i>Cells</i> , 2020 , 9,	7.9	8
22	Interdigitated nanoelectrodes for nanoparticle detection. <i>Nanotechnology</i> , 2005 , 16, S240-S245	3.4	8
21	High throughput micropatterning of interspersed cell arrays using capillary assembly. <i>Biofabrication</i> , 2017 , 9, 015015	10.5	7
20	Thermo-resistance based micro-calorimeter for continuous chemical enthalpy measurements. <i>Microelectronic Engineering</i> , 2008 , 85, 1367-1369	2.5	7

19	Building a microfluidic cell culture platform with stiffness control using Loctite 3525 glue. <i>Lab on A Chip</i> , 2019 , 19, 3512-3525	7.2	6	
18	3D deterministic lateral displacement (3D-DLD) cartridge system for high throughput particle sorting. <i>Chemical Communications</i> , 2020 , 56, 5190-5193	5.8	6	
17	Imprint lithography using thermo-polymerisation of MMA. <i>Microelectronic Engineering</i> , 2002 , 61-62, 42	9- <u>4.3</u> 3	6	
16	Dynamic inking of large-scale stamps for multiplexed microcontact printing and fabrication of cell microarrays. <i>PLoS ONE</i> , 2018 , 13, e0202531	3.7	6	
15	3D printing of a biocompatible low molecular weight supramolecular hydrogel by dimethylsulfoxide water solvent exchange. <i>Additive Manufacturing</i> , 2020 , 33, 101162	6.1	5	
14	Programmable Magnetic Tweezers and Droplet Microfluidic Device for High-Throughput Nanoliter Multi-Step Assays. <i>Angewandte Chemie</i> , 2012 , 124, 10923-10927	3.6	5	
13	A method for fast monitoring of flow rates in microfluidic channels. <i>Journal of Applied Physics</i> , 2008 , 104, 124909	2.5	5	
12	Development of a Droplet Microfluidics Device Based on Integrated Soft Magnets and Fluidic Capacitor for Passive Extraction and Redispersion of Functionalized Magnetic Particles. <i>Advanced Materials Technologies</i> , 2020 , 5, 1901088	6.8	4	
11	Fabrication of Biomolecule Microarrays for Cell Immobilization Using Automated Microcontact Printing. <i>Methods in Molecular Biology</i> , 2018 , 1771, 83-95	1.4	4	
10	Polymeric coatings on micro- and nanometric particles for bioapplications. <i>Bioanalytical Reviews</i> , 2011 , 3, 41-66	1	4	
9	Reversible magnetic clamp of a microfluidic interface for the seric detection of food allergies on allergen microarrays. <i>Microelectronic Engineering</i> , 2016 , 158, 16-21	2.5	4	
8	Sliding walls: a new paradigm for fluidic actuation and protocol implementation in microfluidics. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 18	7.7	3	
7	A microfluidic fluidized bed to capture, amplify and detect bacteria from raw samples. <i>Methods in Cell Biology</i> , 2018 , 147, 59-75	1.8	3	
6	Fabrication of high density gold nanoparticle arrays on glass for high sensitivity bio-detection. <i>Microelectronic Engineering</i> , 2011 , 88, 2474-2477	2.5	3	
5	Tuning the Nanotopography and Chemical Functionality of 3D Printed Scaffolds through Cellulose Nanocrystal Coatings <i>ACS Applied Bio Materials</i> , 2021 , 4, 8443-8455	4.1	3	
4	Wet spinning of a library of carbohydrate low molecular weight gels. <i>Journal of Colloid and Interface Science</i> , 2021 , 603, 333-343	9.3	3	
3	Droplet Microfluidic and Magnetic Particles Platform for Cancer Typing. <i>Methods in Molecular Biology</i> , 2017 , 1547, 113-121	1.4	2	
2	FISH-in-CHIPS: A Microfluidic Platform for Molecular Typing of Cancer Cells. <i>Methods in Molecular Biology</i> , 2017 , 1547, 211-220	1.4	1	

Controlled sealing of nanopores using an easily fabricated silicon platform combining in situ optical and electrical monitoring. *Microelectronic Engineering*, **2015**, 144, 57-60

2.5 1