

Raymond H W Lam

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4879496/raymond-h-w-lam-publications-by-citations.pdf>

Version: 2024-04-24

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.

59
papers

1,774
citations

21
h-index

41
g-index

78
ext. papers

2,136
ext. citations

6.5
avg, IF

4.82
L-index

#	Paper	IF	Citations
59	Nanotopography influences adhesion, spreading, and self-renewal of human embryonic stem cells. <i>ACS Nano</i> , 2012 , 6, 4094-103	16.7	287
58	Nanoroughened surfaces for efficient capture of circulating tumor cells without using capture antibodies. <i>ACS Nano</i> , 2013 , 7, 566-75	16.7	194
57	Photolithographic surface micromachining of polydimethylsiloxane (PDMS). <i>Lab on A Chip</i> , 2012 , 12, 391-5	7.2	107
56	Culturing aerobic and anaerobic bacteria and mammalian cells with a microfluidic differential oxygenator. <i>Analytical Chemistry</i> , 2009 , 81, 5918-24	7.8	94
55	Mechanics regulates fate decisions of human embryonic stem cells. <i>PLoS ONE</i> , 2012 , 7, e37178	3.7	92
54	Hacking macrophage-associated immunosuppression for regulating glioblastoma angiogenesis. <i>Biomaterials</i> , 2018 , 161, 164-178	15.6	90
53	A silicone-based stretchable micropost array membrane for monitoring live-cell subcellular cytoskeletal response. <i>Lab on A Chip</i> , 2012 , 12, 731-40	7.2	80
52	Elastomeric microposts integrated into microfluidics for flow-mediated endothelial mechanotransduction analysis. <i>Lab on A Chip</i> , 2012 , 12, 1865-73	7.2	70
51	Effect of triethanolamine on cement hydration toward initial setting time. <i>Construction and Building Materials</i> , 2017 , 141, 94-103	6.7	62
50	Molecular dynamics simulations on adhesion of epoxy-silica interface in salt environment. <i>Composites Part B: Engineering</i> , 2017 , 131, 165-172	10	55
49	Live-cell subcellular measurement of cell stiffness using a microengineered stretchable micropost array membrane. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 1289-98	3.7	46
48	Building a better cell trap: Applying Lagrangian modeling to the design of microfluidic devices for cell biology. <i>Journal of Applied Physics</i> , 2008 , 103, 044701	2.5	39
47	Surface-micromachined microfiltration membranes for efficient isolation and functional immunophenotyping of subpopulations of immune cells. <i>Advanced Healthcare Materials</i> , 2013 , 2, 965-975	10.1	38
46	Mathematical analysis of oxygen transfer through polydimethylsiloxane membrane between double layers of cell culture channel and gas chamber in microfluidic oxygenator. <i>Microfluidics and Nanofluidics</i> , 2013 , 15, 285-296	2.8	35
45	Multiparametric Biomechanical and Biochemical Phenotypic Profiling of Single Cancer Cells Using an Elasticity Microcytometer. <i>Small</i> , 2016 , 12, 2300-11	11	31
44	Effects of 4-methylbenzylidene camphor (4-MBC) on neuronal and muscular development in zebrafish (<i>Danio rerio</i>) embryos. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 8275-85	5.1	31
43	A fluorescent microbead-based microfluidic immunoassay chip for immune cell cytokine secretion quantification. <i>Lab on A Chip</i> , 2018 , 18, 522-531	7.2	30

42	A simplified sheathless cell separation approach using combined gravitational-sedimentation-based prefocusing and dielectrophoretic separation. <i>Lab on A Chip</i> , 2018 , 18, 1521-1532	7.2	29
41	Dynamics of Microvalve Operations in Integrated Microfluidics. <i>Micromachines</i> , 2014 , 5, 50-65	3.3	27
40	A microfluidic device for isolation and characterization of transendothelial migrating cancer cells. <i>Biomicrofluidics</i> , 2017 , 11, 014105	3.2	25
39	Nanowire Magnetoscope Reveals a Cellular Torque with Left-Right Bias. <i>ACS Nano</i> , 2016 , 10, 7409-17	16.7	22
38	High-throughput dental biofilm growth analysis for multiparametric microenvironmental biochemical conditions using microfluidics. <i>Lab on A Chip</i> , 2016 , 16, 1652-62	7.2	20
37	Mechanics designs-performance relationships in epidermal triboelectric nanogenerators. <i>Nano Energy</i> , 2020 , 76, 105017	17.1	18
36	Revealing elasticity of largely deformed cells flowing along confining microchannels.. <i>RSC Advances</i> , 2018 , 8, 1030-1038	3.7	18
35	Deterministic sequential isolation of floating cancer cells under continuous flow. <i>Lab on A Chip</i> , 2016 , 16, 2813-9	7.2	17
34	Protein-Substrate Adhesion in Microcontact Printing Regulates Cell Behavior. <i>Langmuir</i> , 2018 , 34, 1750-1759	16	
33	Microengineered Conductive Elastomeric Electrodes for Long-Term Electrophysiological Measurements with Consistent Impedance under Stretch. <i>Sensors</i> , 2015 , 15, 26906-20	3.8	15
32	Characterization of viscoelastic properties of normal and cancerous human breast cells using a confining microchannel. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	13
31	Preferred cell alignment along concave microgrooves. <i>RSC Advances</i> , 2017 , 7, 6788-6794	3.7	12
30	Investigation of Drug Cocktail Effects on Cancer Cell-Spheroids Using a Microfluidic Drug-Screening Assay. <i>Micromachines</i> , 2017 , 8, 167	3.3	12
29	Biophysical Phenotyping and Modulation of ALDH+ Inflammatory Breast Cancer Stem-Like Cells. <i>Small</i> , 2019 , 15, e1802891	11	12
28	Chemical Technologies for Modern Concrete Production. <i>Procedia Engineering</i> , 2017 , 172, 1270-1277		11
27	Biofluidic Random Laser Cytometer for Biophysical Phenotyping of Cell Suspensions. <i>ACS Sensors</i> , 2019 , 4, 832-840	9.2	11
26	A Digitally Controllable Polymer-Based Microfluidic Mixing Module Array. <i>Micromachines</i> , 2012 , 3, 279-294	3.5	11
25	Substrate Stiffness Regulates the Development of Left-Right Asymmetry in Cell Orientation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17976-86	9.5	11

24	Microfluidic long-term differential oxygenation for bacterial growth characteristics analyses. <i>RSC Advances</i> , 2014 , 4, 16662-16673	3.7	8
23	Mixing in an enclosed microfluidic chamber through moving boundary motions. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 711-720	2.8	8
22	Gravitational sedimentation-based approach for ultra-simple and flexible cell patterning coculture on microfluidic device. <i>Biofabrication</i> , 2020 , 12, 035005	10.5	7
21	A two-chip acoustofluidic particle manipulation platform with a detachable and reusable surface acoustic wave device. <i>Analyst, The</i> , 2020 , 145, 7752-7758	5	7
20	Elasticity-Modulated Microbeads for Classification of Floating Normal and Cancer Cells Using Confining Microchannels. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 3889-3898	5.5	6
19	Reduction in cement content of normal strength concrete with used engine oil (UEO) as chemical admixture. <i>Construction and Building Materials</i> , 2020 , 261, 119967	6.7	6
18	Microfluidic Viscometer Using a Suspending Micromembrane for Measurement of Biosamples. <i>Micromachines</i> , 2020 , 11,	3.3	6
17	Antibody-coated microstructures for selective isolation of immune cells in blood. <i>Lab on A Chip</i> , 2020 , 20, 1072-1082	7.2	5
16	Label-free biosensor of phagocytosis for diagnosing bacterial infections. <i>Biosensors and Bioelectronics</i> , 2021 , 191, 113412	11.8	5
15	Nondestructive quantification of single-cell nuclear and cytoplasmic mechanical properties based on large whole-cell deformation. <i>Lab on A Chip</i> , 2020 , 20, 4175-4185	7.2	4
14	Piezoelectricity of Portland cement hydrates cured under the influence of electric field 2016 ,		4
13	Atomistic Prediction of Nanomaterials: Introduction to Molecular Dynamics Simulation and a Case Study of Graphene Wettability.. <i>IEEE Nanotechnology Magazine</i> , 2012 , 6, 8-13	1.7	3
12	Automated long-term monitoring of parallel microfluidic operations applying a machine vision-assisted positioning method. <i>Scientific World Journal, The</i> , 2014 , 2014, 608184	2.2	3
11	Adhesion Strengthening Mechanism of Carbon Nanotube-Embedded Epoxy Composites: A Fracture-Based Approach.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
10	An glioblastoma microenvironment model dissects the immunological mechanisms of resistance to PD-1 checkpoint blockade immunotherapy. <i>Small Methods</i> , 2021 , 5, 2100197	12.8	3
9	Low-cost laser-cut patterned chips for acoustic concentration of micro- to nanoparticles and cells by operating over a wide frequency range. <i>Analyst, The</i> , 2021 , 146, 3280-3288	5	3
8	Influence of micro-scale substrate curvature on subcellular behaviors of vascular cells 2016 ,		2
7	Acoustically Driven Manipulation of Microparticles and Cells on a Detachable Surface Micromachined Silicon Chip. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	2

6	Microfluidic implementation of functional cytometric microbeads for improved multiplexed cytokine quantification. <i>Biomicrofluidics</i> , 2018 , 12, 044112	3.2	2
5	Microfluidic biosensing of viscoelastic properties of normal and cancerous human breast cells 2017 ,		1
4	High-throughput deterministic pairing and coculturing of single cells in a microwell array using combined hydrodynamic and recirculation flow captures. <i>Biomicrofluidics</i> , 2021 , 15, 054103	3.2	1
3	Early Committed Clockwise Cell Chirality Upregulates Adipogenic Differentiation of Mesenchymal Stem Cells. <i>Advanced Biology</i> , 2020 , 4, e2000161	3.5	1
2	Spreading and Migration of Nasopharyngeal Normal and Cancer Cells on Microgratings.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 3224-3231	4.1	1
1	Characterization of Cytoskeletal Pore Size Using Quantum Dots. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 398-401	2.6	