

Balint Szabo

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

983
citations

567281

15
h-index

642732

23
g-index

24
all docs

24
docs citations

24
times ranked

1561
citing authors

#	ARTICLE	IF	CITATIONS
1	A robotic multidimensional directed evolution approach applied to fluorescent voltage reporters. <i>Nature Chemical Biology</i> , 2018, 14, 352-360.	8.0	264
2	Microglia control the spread of neurotropic virus infection via P2Y12 signalling and recruit monocytes through P2Y12-independent mechanisms. <i>Acta Neuropathologica</i> , 2018, 136, 461-482.	7.7	108
3	Dependence of cancer cell adhesion kinetics on integrin ligand surface density measured by a high-throughput label-free resonant waveguide grating biosensor. <i>Scientific Reports</i> , 2014, 4, 4034.	3.3	95
4	CD11c/CD18 Dominates Adhesion of Human Monocytes, Macrophages and Dendritic Cells over CD11b/CD18. <i>PLoS ONE</i> , 2016, 11, e0163120.	2.5	72
5	Single-cell adhesion force kinetics of cell populations from combined label-free optical biosensor and robotic fluidic force microscopy. <i>Scientific Reports</i> , 2020, 10, 61.	3.3	61
6	Bulk and surface sensitivity of a resonant waveguide grating imager. <i>Applied Physics Letters</i> , 2014, 104, 083506.	3.3	47
7	Complement MASP-1 enhances adhesion between endothelial cells and neutrophils by up-regulating E-selectin expression. <i>Molecular Immunology</i> , 2016, 75, 38-47.	2.2	35
8	Single Cell Adhesion Assay Using Computer Controlled Micropipette. <i>PLoS ONE</i> , 2014, 9, e111450.	2.5	30
9	Sample handling in surface sensitive chemical and biological sensing: A practical review of basic fluidics and analyte transport. <i>Advances in Colloid and Interface Science</i> , 2014, 211, 1-16.	14.7	29
10	Atomic force microscopy of height fluctuations of fibroblast cells. <i>Physical Review E</i> , 2002, 65, 041910.	2.1	26
11	High-Resolution Adhesion Kinetics of EGCG-Exposed Tumor Cells on Biomimetic Interfaces: Comparative Monitoring of Cell Viability Using Label-Free Biosensor and Classic End-Point Assays. <i>ACS Omega</i> , 2018, 3, 3882-3891.	3.5	23
12	Adhesion force measurements on functionalized microbeads: An in-depth comparison of computer controlled micropipette and fluidic force microscopy. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 245-253.	9.4	23
13	The differential role of CR3 (CD11b/CD18) and CR4 (CD11c/CD18) in the adherence, migration and podosome formation of human macrophages and dendritic cells under inflammatory conditions. <i>PLoS ONE</i> , 2020, 15, e0232432.	2.5	21
14	Adhesion kinetics of human primary monocytes, dendritic cells, and macrophages: Dynamic cell adhesion measurements with a label-free optical biosensor and their comparison with end-point assays. <i>Biointerphases</i> , 2016, 11, 031001.	1.6	15
15	Subnanoliter precision piezo pipette for single-cell isolation and droplet printing. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	12
16	Inhibition of myosin II triggers morphological transition and increased nuclear motility. <i>Cytoskeleton</i> , 2011, 68, 325-339.	2.0	10
17	Single-cell adhesion strength and contact density drops in the M phase of cancer cells. <i>Scientific Reports</i> , 2021, 11, 18500.	3.3	9
18	Dissociation Constant of Integrin-RGD Binding in Live Cells from Automated Micropipette and Label-Free Optical Data. <i>Biosensors</i> , 2021, 11, 32.	4.7	6

#	ARTICLE	IF	CITATIONS
19	Nanonewton scale adhesion force measurements on biotinylated microbeads with a robotic micropipette. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 291-299.	9.4	5
20	Characterization of the Dissolution of Water Microdroplets in Oil. <i>Colloids and Interfaces</i> , 2022, 6, 14.	2.1	5
21	Label-free tracking of whole-cell response on RGD functionalized surfaces to varied flow velocities generated by fluidic rotation. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 620-630.	9.4	4
22	Prospects of fluidic force microscopy and related biosensors for medical applications. , 2022, , 1-28.		0