

# Benjamin Rappaz

## List of Publications by Year in descending order

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45  
papers

3,963  
citations

331538

21  
h-index

414303

32  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2710  
citing authors

#	ARTICLE	IF	CITATIONS
1	Image- and Fluorescence-Based Test Shows Oxidant-Dependent Damages in Red Blood Cells and Enables Screening of Potential Protective Molecules. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4293.	1.8	4
2	Marker-Free Automatic Quantification of Drug-Treated Cardiomyocytes with Digital Holographic Imaging. <i>ACS Photonics</i> , 2020, 7, 105-113.	3.2	14
3	Image-Based Marker-Free Screening of GABAA Agonists, Antagonists, and Modulators. <i>SLAS Discovery</i> , 2020, 25, 458-470.	1.4	4
4	High-throughput, nonperturbing quantification of lipid droplets with digital holographic microscopy. <i>Journal of Lipid Research</i> , 2018, 59, 1301-1310.	2.0	20
5	Quantification of stored red blood cell fluctuations by time-lapse holographic cell imaging. <i>Biomedical Optics Express</i> , 2018, 9, 4714.	1.5	29
6	Red blood cells ageing markers: a multi-parametric analysis. <i>Blood Transfusion</i> , 2017, 15, 239-248.	0.3	61
7	Automated tracking of temporal displacements of a red blood cell obtained by time-lapse digital holographic microscopy. <i>Applied Optics</i> , 2016, 55, A86.	2.1	14
8	Quantitative phase-digital holographic microscopy: a new imaging modality to identify original cellular biomarkers of diseases. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
9	Netrin-1-Regulated Distribution of UNC5B and DCC in Live Cells Revealed by TICCS. <i>Biophysical Journal</i> , 2016, 110, 623-634.	0.2	16
10	FLIM FRET Visualization of Cdc42 Activation by Netrin-1 in Embryonic Spinal Commissural Neuron Growth Cones. <i>PLoS ONE</i> , 2016, 11, e0159405.	1.1	8
11	Automated multi-parameter measurement of cardiomyocytes dynamics with digital holographic microscopy. <i>Optics Express</i> , 2015, 23, 13333.	1.7	40
12	Spatial Intensity Distribution Analysis Reveals Abnormal Oligomerization of Proteins in Single Cells. <i>Biophysical Journal</i> , 2015, 109, 710-721.	0.2	29
13	Digital Holographic Microscopy: A Quantitative Label-Free Microscopy Technique for Phenotypic Screening. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2014, 17, 80-88.	0.6	83
14	Phase retrieval by using transport-of-intensity equation and differential interference contrast microscopy. , 2014, , .		13
15	Label-Free Cytotoxicity Screening Assay by Digital Holographic Microscopy. <i>Assay and Drug Development Technologies</i> , 2013, 11, 101-107.	0.6	105
16	Fluorescence resonance energy transfer microscopy as demonstrated by measuring the activation of the serine/threonine kinase Akt. <i>Nature Protocols</i> , 2013, 8, 265-281.	5.5	122
17	Image Correlation Spectroscopy for Measurements of Particle Densities and Colocalization. <i>Current Protocols in Cell Biology</i> , 2013, 59, Unit 4.27.1-15.	2.3	8
18	Digital Holographic Microscopy (DHM) for Measuring Biophysical Parameters of Living Cells. , 2013, , 71-95.		3

#	ARTICLE	IF	CITATIONS
19	Spatially-Resolved Eigenmode Decomposition of Red Blood Cells Membrane Fluctuations Questions the Role of ATP in Flickering. PLoS ONE, 2012, 7, e40667.	1.1	48
20	Simultaneous Optical Recording in Multiple Cells by Digital Holographic Microscopy of Chloride Current Associated to Activation of the Ligand-Gated Chloride Channel GABAA Receptor. PLoS ONE, 2012, 7, e51041.	1.1	38
21	Determination of Transmembrane Water Fluxes in Neurons Elicited by Glutamate Ionotropic Receptors and by the Cotransporters KCC2 and NKCC1: A Digital Holographic Microscopy Study. Journal of Neuroscience, 2011, 31, 11846-11854.	1.7	113
22	Enhanced Ca <sup>2+</sup> entry due to Orai1 plasma membrane insertion increases IL-8 secretion by cystic fibrosis airways. FASEB Journal, 2011, 25, 4274-4291.	0.2	51
23	Noninvasive characterization of the fission yeast cell cycle by monitoring dry mass with digital holographic microscopy. Journal of Biomedical Optics, 2009, 14, 034049.	1.4	181
24	Tomography of red blood cells by multiple-wavelength digital holographic microscopy. , 2009, , .		0
25	Spatial analysis of erythrocyte membrane fluctuations by digital holographic microscopy. Blood Cells, Molecules, and Diseases, 2009, 42, 228-232.	0.6	92
26	Submicrometer tomography of cells by multiple-wavelength digital holographic microscopy in reflection. Optics Letters, 2009, 34, 653.	1.7	89
27	Exploring cell dynamics with Digital Holographic Microscopy. , 2009, , .		0
28	Comparative study of human erythrocytes by digital holographic microscopy, confocal microscopy, and impedance volume analyzer. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 895-903.	1.1	171
29	Simultaneous cell morphometry and refractive index measurement with dual-wavelength digital holographic microscopy and dye-enhanced dispersion of perfusion medium. Optics Letters, 2008, 33, 744.	1.7	179
30	Non-invasive dry mass determination and monitoring at the single cell level with digital holographic microscopy. Proceedings of SPIE, 2008, , .	0.8	0
31	Cell biology explored with Digital Holographic Microscopy. , 2008, , .		2
32	Simultaneous cell morphometry and refractive index measurement with dual-wavelength Digital Holographic Microscopy. , 2008, , .		0
33	Digital holographic microscopy applied to life sciences. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6244-7.	0.5	10
34	Erythrocytes volume and refractive index measurement with a digital holographic microscope. , 2007, , .		8
35	Influence of shot noise on phase measurement accuracy in digital holographic microscopy. Optics Express, 2007, 15, 8818.	1.7	88
36	DHM (Digital Holography Microscope) for imaging cells. Journal of Physics: Conference Series, 2007, 61, 1317-1321.	0.3	11

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37	Living specimen tomography by digital holographic microscopy: morphometry of testate amoeba. Optics Express, 2006, 14, 7005.	1.7	255
38	Processes Involved in Oculomotor Adaptation to Eccentric Reading. , 2006, 47, 1439.		19
39	Digital holographic microscopy: a new optical imaging technique to investigate cellular dynamics. , 2006, , .		3
40	Digital Holographic Microscopy (DHM). Imaging & Microscopy, 2006, 8, 46-48.	0.1	0
41	Quantitative measurements of dynamic cell morphometry and intracellular integral refractive index with Digital holographic microscopy. , 2006, , .		0
42	Simulation of Artificial Vision, III: Do the Spatial or Temporal Characteristics of Stimulus Pixelization Really Matter?. , 2005, 46, 3906.		70
43	Measurement of the integral refractive index and dynamic cell morphometry of living cells with digital holographic microscopy. Optics Express, 2005, 13, 9361.	1.7	641
44	Digital holographic microscopy: a noninvasive contrast imaging technique allowing quantitative visualization of living cells with subwavelength axial accuracy. Optics Letters, 2005, 30, 468.	1.7	1,209
45	Simulation of artificial vision: II. Eccentric reading of full-page text and the learning of this task. Vision Research, 2004, 44, 1693-1706.	0.7	104