

# Bartek Rajwa

## List of Publications by Citations

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

92  
papers

3,862  
citations

26  
h-index

61  
g-index

116  
ext. papers

4,700  
ext. citations

5.3  
avg, IF

4.62  
L-index

#	Paper	IF	Citations
92	Mitochondrial complex I inhibitor rotenone induces apoptosis through enhancing mitochondrial reactive oxygen species production. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 8516-25	5.4	887
91	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). <i>European Journal of Immunology</i> , <b>2019</b> , 49, 1457-1973	6.1	485
90	A community effort to assess and improve drug sensitivity prediction algorithms. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 1202-12	44.5	447
89	Guidelines for the use of flow cytometry and cell sorting in immunological studies. <i>European Journal of Immunology</i> , <b>2017</b> , 47, 1584-1797	6.1	359
88	A community computational challenge to predict the activity of pairs of compounds. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 1213-22	44.5	184
87	Label-free detection of multiple bacterial pathogens using light-scattering sensor. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 1685-92	11.8	110
86	Optical forward-scattering for detection of <i>Listeria monocytogenes</i> and other <i>Listeria</i> species. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 1664-71	11.8	106
85	DPI induces mitochondrial superoxide-mediated apoptosis. <i>Free Radical Biology and Medicine</i> , <b>2003</b> , 34, 465-77	7.8	77
84	Stimulated Raman scattering flow cytometry for label-free single-particle analysis. <i>Optica</i> , <b>2017</b> , 4, 103	8.6	62
83	Hyperspectral cytometry at the single-cell level using a 32-channel photodetector. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2012</b> , 81, 35-44	4.6	50
82	Automated classification of bacterial particles in flow by multiangle scatter measurement and support vector machine classifier. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2008</b> , 73, 369-79	4.6	50
81	Feature extraction from light-scatter patterns of <i>Listeria</i> colonies for identification and classification. <i>Journal of Biomedical Optics</i> , <b>2006</b> , 11, 34006	3.5	49
80	Light-scattering sensor for real-time identification of <i>Vibrio parahaemolyticus</i> , <i>Vibrio vulnificus</i> and <i>Vibrio cholerae</i> colonies on solid agar plate. <i>Microbial Biotechnology</i> , <b>2012</b> , 5, 607-20	6.3	42
79	A numerical recipe for accurate image reconstruction from discrete orthogonal moments. <i>Pattern Recognition</i> , <b>2007</b> , 40, 659-669	7.7	41
78	Generalized unmixing model for multispectral flow cytometry utilizing nonsquare compensation matrices. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2013</b> , 83, 508-20	4.6	40
77	Light scattering sensor for direct identification of colonies of <i>Escherichia coli</i> serogroups O26, O45, O103, O111, O121, O145 and O157. <i>PLoS ONE</i> , <b>2014</b> , 9, e105272	3.7	40
76	Laser optical sensor, a label-free on-plate <i>Salmonella enterica</i> colony detection tool. <i>MBio</i> , <b>2014</b> , 5, e01071-13	3.8	38

75	Automated quantification and reconstruction of collagen matrix from 3D confocal datasets. <i>Journal of Microscopy</i> , <b>2003</b> , 210, 158-65	1.9	38
74	Computational analysis of high-throughput flow cytometry data. <i>Expert Opinion on Drug Discovery</i> , <b>2012</b> , 7, 679-93	6.2	35
73	Differential mitochondrial toxicity screening and multi-parametric data analysis. <i>PLoS ONE</i> , <b>2012</b> , 7, e45226	3.7	35
72	Actin cytoskeleton in <i>Arabidopsis thaliana</i> under blue and red light. <i>Biology of the Cell</i> , <b>2007</b> , 99, 251-60	3.5	32
71	Loss of image quality in photobleaching during microscopic imaging of fluorescent probes bound to chromatin. <i>Journal of Biomedical Optics</i> , <b>2005</b> , 10, 064015	3.5	30
70	Classification of bacterial contamination using image processing and distributed computing. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2013</b> , 17, 232-9	7.2	29
69	Comparative three-dimensional imaging of living neurons with confocal and atomic force microscopy. <i>Journal of Neuroscience Methods</i> , <b>2005</b> , 142, 177-84	3	29
68	Discovering the unknown: detection of emerging pathogens using a label-free light-scattering system. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2010</b> , 77, 1103-12	4.6	27
67	Effects of sugars and sugar alcohols on the gelatinization temperature of wheat starch. <i>Food Hydrocolloids</i> , <b>2018</b> , 84, 593-607	10.6	27
66	A non-parametric Bayesian model for joint cell clustering and cluster matching: identification of anomalous sample phenotypes with random effects. <i>BMC Bioinformatics</i> , <b>2014</b> , 15, 314	3.6	25
65	Analysis of orientations of collagen fibers by novel fiber-tracking software. <i>Microscopy and Microanalysis</i> , <b>2003</b> , 9, 574-80	0.5	24
64	Interaction of maize zein with wheat gluten in composite dough and bread as determined by confocal laser scanning microscopy. <i>Scanning</i> , <b>2002</b> , 24, 1-5	1.6	22
63	An excitation wavelength-scanning spectral imaging system for preclinical imaging. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 023707	1.7	21
62	Quadratic form: a robust metric for quantitative comparison of flow cytometric histograms. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2008</b> , 73, 715-26	4.6	21
61	Adaptive image-processing technique and effective visualization of confocal microscopy images. <i>Microscopy Research and Technique</i> , <b>2004</b> , 64, 156-63	2.8	19
60	The design and construction of a cost-efficient confocal laser scanning microscope. <i>American Journal of Physics</i> , <b>2007</b> , 75, 203-207	0.7	18
59	Compression of fluorescence microscopy images based on the signal-to-noise estimation. <i>Microscopy Research and Technique</i> , <b>2006</b> , 69, 1-9	2.8	17
58	AFM/CLSM data visualization and comparison using an open-source toolkit. <i>Microscopy Research and Technique</i> , <b>2004</b> , 64, 176-84	2.8	16

57	Automated Assessment of Disease Progression in Acute Myeloid Leukemia by Probabilistic Analysis of Flow Cytometry Data. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 1089-1098	5	15
56	Precision of light intensity measurement in biological optical microscopy. <i>Journal of Microscopy</i> , <b>2007</b> , 226, 163-74	1.9	15
55	High-throughput secondary screening at the single-cell level. <i>Journal of the Association for Laboratory Automation</i> , <b>2013</b> , 18, 85-98		14
54	Simplicity of Kmeans Versus Deepness of Deep Learning: A Case of Unsupervised Feature Learning with Limited Data <b>2015</b> ,		13
53	Portable bacterial identification system based on elastic light scatter patterns. <i>Journal of Biological Engineering</i> , <b>2012</b> , 6, 12	6.3	13
52	Infection-Induced Transcriptional Changes in Hepatic Macrophage Metabolism Correlate With an Athero-Protective Phenotype. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 2580	8.4	13
51	Alternatives to current flow cytometry data analysis for clinical and research studies. <i>Methods</i> , <b>2018</b> , 134-135, 113-129	4.6	12
50	High speed classification of individual bacterial cells using a model-based light scatter system and multivariate statistics. <i>Applied Optics</i> , <b>2008</b> , 47, 678-86	1.7	12
49	A statistical modeling approach to computer-aided quantification of dental biofilm. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2015</b> , 19, 358-66	7.2	11
48	Development of a multispectral light-scatter sensor for bacterial colonies. <i>Journal of Biophotonics</i> , <b>2017</b> , 10, 634-644	3.1	11
47	Hyperspectral cytometry. <i>Current Topics in Microbiology and Immunology</i> , <b>2014</b> , 377, 191-210	3.3	11
46	The SH3 domain of Lck modulates T-cell receptor-dependent activation of extracellular signal-regulated kinase through activation of Raf-1. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 630-41	4.8	11
45	Single- and two-photon spectral imaging of intrinsic fluorescence of transformed human hepatocytes. <i>Microscopy Research and Technique</i> , <b>2007</b> , 70, 869-79	2.8	11
44	Point-of-care test for cervical cancer in LMICs. <i>Oncotarget</i> , <b>2016</b> , 7, 18787-97	3.3	11
43	flowVS: channel-specific variance stabilization in flow cytometry. <i>BMC Bioinformatics</i> , <b>2016</b> , 17, 291	3.6	11
42	Development of a microbial high-throughput screening instrument based on elastic light scatter patterns. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 044304	1.7	9
41	A Machine-Learning Approach to Detecting Unknown Bacterial Serovars. <i>Statistical Analysis and Data Mining</i> , <b>2010</b> , 3, 289-301	1.4	9
40	Application of detector precision characteristics and histogram packing for compression of biological fluorescence micrographs. <i>Computer Methods and Programs in Biomedicine</i> , <b>2012</b> , 108, 511-23	6.9	8

39	Multispectral cytometry of single bio-particles using a 32-channel detector <b>2005</b> , 5692, 359		8
38	IL-4 promotes stromal cell expansion and is critical for development of a type-2, but not a type 1 immune response. <i>European Journal of Immunology</i> , <b>2019</b> , 49, 428-442	6.1	8
37	State of the Art in Information Extraction and Quantitative Analysis for Multimodality Biomolecular Imaging. <i>Proceedings of the IEEE</i> , <b>2008</b> , 96, 512-531	14.3	7
36	SEMANTIC ANALYSIS OF BIOLOGICAL IMAGING DATA: CHALLENGES AND OPPORTUNITIES. <i>International Journal of Semantic Computing</i> , <b>2007</b> , 01, 67-85	0.7	7
35	Phototoxicity, distribution and kinetics of association of UVA-activated chlorpromazine, 8-methoxypsoralen, and 4,6,4Rtrimethylangelicin in Jurkat cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2005</b> , 78, 155-64	6.7	7
34	Immunophenotype Discovery, Hierarchical Organization, and Template-Based Classification of Flow Cytometry Samples. <i>Frontiers in Oncology</i> , <b>2016</b> , 6, 188	5.3	6
33	Detection of E. coli labeled with metal-conjugated antibodies using lateral-flow assay and laser-induced breakdown spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 1291-1301	4.4	5
32	Using Scattering to Identify Bacterial Pathogens. <i>Optics and Photonics News</i> , <b>2011</b> , 22, 20	1.9	5
31	AOTF-based system for image cytometry <b>2005</b> , 5694, 16		5
30	Lipidomic Profiling of the Epidermis in a Mouse Model of Dermatitis Reveals Sexual Dimorphism and Changes in Lipid Composition before the Onset of Clinical Disease. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	5
29	A Chemogenomic Screening Platform Used to Identify Chemotypes Perturbing HSP90 Pathways. <i>SLAS Discovery</i> , <b>2017</b> , 22, 706-719	3.4	4
28	An emerging method to noninvasively measure and identify vagal response markers to enable bioelectronic control of gastroparesis symptoms with gastric electrical stimulation. <i>Journal of Neuroscience Methods</i> , <b>2020</b> , 336, 108631	3	4
27	Effect-Size Measures as Descriptors of Assay Quality in High-Content Screening: A Brief Review of Some Available Methodologies. <i>Assay and Drug Development Technologies</i> , <b>2017</b> , 15, 15-29	2.1	4
26	Self-Adjusting Models for Semi-supervised Learning in Partially Observed Settings <b>2012</b> ,		4
25	A novel experimental workflow to determine the impact of storage parameters on the mass spectrometric profiling and assessment of representative phosphatidylethanolamine lipids in mouse tissues. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 1837-1849	4.4	4
24	Current status and future prospects of using advanced computer-based methods to study bacterial colonial morphology. <i>Expert Review of Anti-Infective Therapy</i> , <b>2016</b> , 14, 207-18	5.5	3
23	Classifying Immunophenotypes With Templates From Flow Cytometry <b>2013</b> ,		3
22	Modern confocal microscopy. <i>Current Protocols in Cytometry</i> , <b>2005</b> , Chapter 12, Unit 12.3	3.6	3

21	Maternal schistosomiasis impairs offspring Interleukin-4 production and B cell expansion. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009260	7.6	3
20	A Portable Spark-Induced Breakdown Spectroscopic (SIBS) Instrument and its Analytical Performance. <i>Applied Spectroscopy</i> , <b>2019</b> , 73, 698-708	3.1	2
19	Partially-observed models for classifying minerals on Mars <b>2013</b> ,		2
18	Just compensation?. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2011</b> , 79, 973-4	4.6	2
17	Learning with a non-exhaustive training dataset <b>2009</b> ,		2
16	Multispectral imaging analysis: spectral deconvolution and applications in biology <b>2005</b> ,		2
15	. <i>Applied Immunohistochemistry &amp; Molecular Morphology</i> , <b>2002</b> , 10, 247-252		2
14	Batch discovery of recurring rare classes toward identifying anomalous samples <b>2014</b> ,		1
13	BiofilmQuant: a computer-assisted tool for dental biofilm quantification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 4244-7	0.9	1
12	A distributed national network for label-free rapid identification of emerging pathogens <b>2011</b> ,		1
11	Theta rotation and serial registration of light microscopical images using a novel camera rotating device. <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 239-47	0.5	1
10	Application of wavelet denoising to improve compression efficiency while preserving integrity of digital micrographs. <i>Journal of Microscopy</i> , <b>2008</b> , 231, 81-96	1.9	1
9	Noninvasive forward-scattering system for rapid detection, characterization, and identification of <i>Listeria</i> colonies: image-processing and data analysis <b>2006</b> ,		1
8	Rapid Detection and Classification of Bacterial Contamination Using Grid Computing <b>2007</b> ,		1
7	Feature extraction for cellular shape analysis in high-content screening (HCS) applications <b>2005</b> ,		1
6	A double blinded, placebo-controlled pilot study to examine reduction of CD34+/CD117+/CD133+ lymphoma progenitor cells and duration of remission induced by neoadjuvant valsopodar in dogs with large B-cell lymphoma. <i>F1000Research</i> , <b>4</b> , 42	3.6	1
5	Optical multi-channel interrogation instrument for bacterial colony characterization. <i>PLoS ONE</i> , <b>2021</b> , 16, e0247721	3.7	1
4	Determination of the Water Activities of Wines and Spirits. <i>Food Analytical Methods</i> , <b>2019</b> , 12, 2753-2763	3.4	0

- 3 Image cytometry goes multiphoton. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2007**, 71, 973-5 4.6
- 2 Bacterial phenotype identification using Zernike moment invariants **2006**, 6080, 155
- 1 SPARC: Chronic Simultaneous Recording of Gastric Motility and Ad Libitum Feeding Behavior in Awake, Freely Moving Rats with Vagal Nerve Simulation. *FASEB Journal*, **2020**, 34, 1-1 0.9