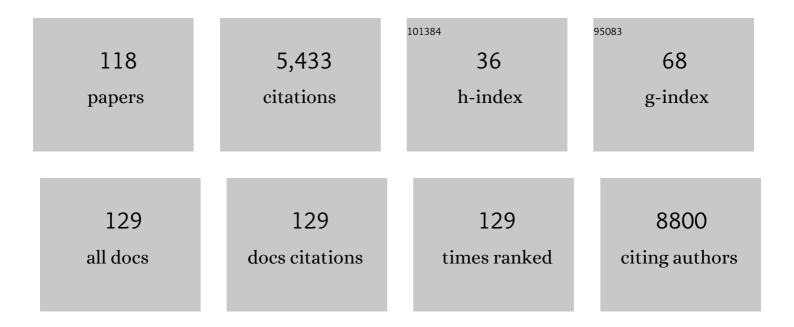
## Susann Müller

List of Publications by Year in descending order

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SUSANN MÃI/ILED

#	Article	IF	CITATIONS
1	Stabilizing microbial communities by looped mass transfer. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117814119.	3.3	4
2	Exploring the Extent of Phosphorus and Heavy Metal Uptake by Single Cells of Saccharomyces cerevisiae and Their Effects on Intrinsic Elements by SC-ICP-TOF-MS. Frontiers in Microbiology, 2022, 13, 870931.	1.5	3
3	A framework for P-cycle assessment in wastewater treatment plants. Science of the Total Environment, 2021, 760, 143392.	3.9	15
4	New developments in biological phosphorus accessibility and recovery approaches from soil and waste streams. Engineering in Life Sciences, 2021, 21, 77-86.	2.0	11
5	Determination of elemental distribution and evaluation of elemental concentration in single <i>Saccharomyces cerevisiae</i> cells using single cell-inductively coupled plasma mass spectrometry. Metallomics, 2021, 13, .	1.0	8
6	Predicting the Presence and Abundance of Bacterial Taxa in Environmental Communities through Flow Cytometric Fingerprinting. MSystems, 2021, 6, e0055121.	1.7	9
7	Community and single cell analyses reveal complex predatory interactions between bacteria in high diversity systems. Nature Communications, 2021, 12, 5481.	5.8	14
8	The Impact of the Antibiotic Fosfomycin on Wastewater Communities Measured by Flow Cytometry. Frontiers in Microbiology, 2021, 12, 737831.	1.5	5
9	Monitoring stratification of anode biofilms in bioelectrochemical laminar flow reactors using flow cytometry. Environmental Science and Ecotechnology, 2020, 4, 100062.	6.7	5
10	Bacterial mock communities as standards for reproducible cytometric microbiome analysis. Nature Protocols, 2020, 15, 2788-2812.	5.5	26
11	The Activation of Mucosal-Associated Invariant T (MAIT) Cells Is Affected by Microbial Diversity and Riboflavin Utilization in vitro. Frontiers in Microbiology, 2020, 11, 755.	1.5	14
12	Microorganisms and Their Activities Within Microbial Communities. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 681-682.	1.1	0
13	Gastric bypass surgery in a rat model alters the community structure and functional composition of the intestinal microbiota independently of weight loss. Microbiome, 2020, 8, 13.	4.9	40
14	Bacterial Community Diversity Dynamics Highlight Degrees of Nestedness and Turnover Patterns. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 742-748.	1.1	15
15	Following the community development of SIHUMIx – a new intestinal <i>in vitro</i> model for bioreactor use. Gut Microbes, 2020, 11, 1116-1129.	4.3	32
16	Investigating Community Dynamics and Performance During Microbial Electrochemical Degradation of Whey. ChemElectroChem, 2020, 7, 989-997.	1.7	8
17	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). European Journal of Immunology, 2019, 49, 1457-1973.	1.6	766
18	Key sub-community dynamics of medium-chain carboxylate production. Microbial Cell Factories, 2019, 18, 92.	1.9	56

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19	Cytometry Score: 23 to 4. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 259-260.	1.1	2
20	Long-Term Behavior of Defined Mixed Cultures of Geobacter sulfurreducens and Shewanella oneidensis in Bioelectrochemical Systems. Frontiers in Bioengineering and Biotechnology, 2019, 7, 60.	2.0	51
21	Quantitation and Comparison of Phenotypic Heterogeneity Among Single Cells of Monoclonal Microbial Populations. Frontiers in Microbiology, 2019, 10, 2814.	1.5	17
22	The Simplified Human Intestinal Microbiota (SIHUMIx) Shows High Structural and Functional Resistance against Changing Transit Times in In Vitro Bioreactors. Microorganisms, 2019, 7, 641.	1.6	35
23	flowEMMi: an automated model-based clustering tool for microbial cytometric data. BMC Bioinformatics, 2019, 20, 643.	1.2	16
24	Neutral mechanisms and niche differentiation in steadyâ€state insular microbial communities revealed by single cell analysis. Environmental Microbiology, 2019, 21, 164-181.	1.8	46
25	Overview of recent advances in phosphorus recovery for fertilizer production. Engineering in Life Sciences, 2018, 18, 434-439.	2.0	73
26	Ecological Stability Properties of Microbial Communities Assessed by Flow Cytometry. MSphere, 2018, 3, .	1.3	46
27	Personalized microbiome dynamics – Cytometric fingerprints for routine diagnostics. Molecular Aspects of Medicine, 2018, 59, 123-134.	2.7	28
28	The intestinal microbiota determines the colitisâ€inducing potential of Tâ€betâ€deficient Th cells in mice. European Journal of Immunology, 2018, 48, 161-167.	1.6	11
29	A cytometric approach to follow variation and dynamics of the salivary microbiota. Methods, 2018, 134-135, 67-79.	1.9	21
30	Long-Term Biogas Production from Glycolate by Diverse and Highly Dynamic Communities. Microorganisms, 2018, 6, 103.	1.6	12
31	Characterizing Microbiome Dynamics – Flow Cytometry Based Workflows from Pure Cultures to Natural Communities. Journal of Visualized Experiments, 2018, , .	0.2	12
32	AgNPs Change Microbial Community Structures of Wastewater. Frontiers in Microbiology, 2018, 9, 3211.	1.5	14
33	Heterogenic response of prokaryotes toward silver nanoparticles and ions is facilitated by phenotypes and attachment of silver aggregates to cell surfaces. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 775-784.	1.1	12
34	Guidelines for the use of flow cytometry and cell sorting in immunological studies <sup>*</sup> . European Journal of Immunology, 2017, 47, 1584-1797.	1.6	505
35	Mass Cytometry for Detection of Silver at the Bacterial Single Cell Level. Frontiers in Microbiology, 2017, 8, 1326.	1.5	28
36	Flow cytometric quantification, sorting and sequencing of methanogenic archaea based on F420 autofluorescence. Microbial Cell Factories, 2017, 16, 180.	1.9	39

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37	Speciesâ€sorting and massâ€transfer paradigms control managed natural metacommunities. Environmental Microbiology, 2016, 18, 4862-4877.	1.8	31
38	Copy number variability of expression plasmids determined by cell sorting and Droplet Digital PCR. Microbial Cell Factories, 2016, 15, 211.	1.9	111
39	Environmental stress speeds up DNA replication in <i>Pseudomonas putida</i> in chemostat cultivations. Biotechnology Journal, 2016, 11, 155-163.	1.8	16
40	Highâ€resolution microbiota flow cytometry reveals dynamic colitisâ€associated changes in fecal bacterial composition. European Journal of Immunology, 2016, 46, 1300-1303.	1.6	57
41	Facilitated gate setting by sequential dot plot scanning. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 661-664.	1.1	6
42	Phenotypic heterogeneity in metabolic traits among single cells of a rare bacterial species in its natural environment quantified with a combination of flow cell sorting and NanoSIMS. Frontiers in Microbiology, 2015, 06, 243.	1.5	72
43	Variability in subpopulation formation propagates into biocatalytic variability of engineered Pseudomonas putida strains. Frontiers in Microbiology, 2015, 6, 1042.	1.5	16
44	Non-random distribution of macromolecules as driving forces for phenotypic variation. Current Opinion in Microbiology, 2015, 25, 49-55.	2.3	18
45	Editorial overview: Environmental microbiology: Revisiting the physiology of microorganisms on the single cell scale. Current Opinion in Microbiology, 2015, 25, v-vi.	2.3	1
46	Coupling electric energy and biogas production in anaerobic digesters – impacts on the microbiome. RSC Advances, 2015, 5, 31329-31340.	1.7	44
47	Cytometric patterns reveal growth states of S hewanella putrefaciens. Microbial Biotechnology, 2015, 8, 379-391.	2.0	7
48	Monitoring and engineering reactor microbiomes of denitrifying bioelectrochemical systems. RSC Advances, 2015, 5, 68326-68333.	1.7	39
49	Cytometric fingerprints: evaluation of new tools for analyzing microbial community dynamics. Frontiers in Microbiology, 2014, 5, 273.	1.5	67
50	Dynamics in the microbial cytome—single cell analytics in natural systems. Current Opinion in Biotechnology, 2014, 27, 134-141.	3.3	38
51	Analysis of aging in lager brewing yeast during serial repitching. Journal of Biotechnology, 2014, 187, 60-70.	1.9	16
52	Subpopulation-proteomics reveal growth rate, but not cell cycling, as a major impact on protein composition in Pseudomonas putida KT2440. AMB Express, 2014, 4, 71.	1.4	16
53	Microbiomes in bioenergy production: From analysis to management. Current Opinion in Biotechnology, 2014, 27, 65-72.	3.3	60
54	Accurate Determination of Plasmid Copy Number of Flow-Sorted Cells using Droplet Digital PCR. Analytical Chemistry, 2014, 86, 5969-5976.	3.2	45

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55	Isolation of Intact RNA from Sorted S. cerevisiae Cells for Differential Gene Expression Analysis. , 2013, , 265-277.		0
56	Sustainability of industrial yeast serial repitching practice studied by gene expression and correlation analysis. Journal of Biotechnology, 2013, 168, 718-728.	1.9	18
57	Monitoring of population dynamics of <i><scp>C</scp>orynebacterium glutamicum</i> by multiparameter flow cytometry. Microbial Biotechnology, 2013, 6, 157-167.	2.0	41
58	From multi-omics to basic structures of biological systems. Current Opinion in Biotechnology, 2013, 24, 1-3.	3.3	74
59	Subpopulation-proteomics in prokaryotic populations. Current Opinion in Biotechnology, 2013, 24, 79-87.	3.3	35
60	CHIC—an automated approach for the detection of dynamic variations in complex microbial communities. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83A, 561-567.	1,1	55
61	Recovery of soil unicellular eukaryotes: An efficiency and activity analysis on the single cell level. Journal of Microbiological Methods, 2013, 95, 463-469.	0.7	16
62	Cytometric fingerprinting for analyzing microbial intracommunity structure variation and identifying subcommunity function. Nature Protocols, 2013, 8, 190-202.	5.5	114
63	Monitoring Functions in Managed Microbial Systems by Cytometric Bar Coding. Environmental Science & Technology, 2013, 47, 130108105239000.	4.6	29
64	Biodiversity of Polyphosphate Accumulating Bacteria in Eight WWTPs with Different Modes of Operation. Journal of Environmental Engineering, ASCE, 2013, 139, 1089-1098.	0.7	16
65	Cultivation of Aquincola tertiaricarbonis L108 on the fuel oxygenate intermediate tert-butyl alcohol induces aerobic anoxygenic photosynthesis at extremely low feeding rates. Microbiology (United) Tj ETQq1 1 0.	7843114 rg	BT⊉Øverlock
66	Comparison of preservation methods for bacterial cells in cytomics and proteomics. Journal of Integrated OMICS, 2013, 3, .	0.5	5
67	High resolution single cell analytics to follow microbial community dynamics in anaerobic ecosystems. Methods, 2012, 57, 338-349.	1.9	20
68	Correlation of Community Dynamics and Process Parameters As a Tool for the Prediction of the Stability of Wastewater Treatment. Environmental Science & amp; Technology, 2012, 46, 84-92.	4.6	57
69	Revealing the electrochemically driven selection in natural community derived microbial biofilms using flow-cytometry. Energy and Environmental Science, 2011, 4, 1265.	15.6	74
70	Electroactive mixed culture derived biofilms in microbial bioelectrochemical systems: The role of pH on biofilm formation, performance and composition. Bioresource Technology, 2011, 102, 9683-9690.	4.8	203
71	Using a carbon-based ASM3 EAWAG Bio-P for modelling the enhanced biological phosphorus removal in anaerobic/aerobic activated sludge systems. Bioprocess and Biosystems Engineering, 2011, 34, 287-295.	1.7	4
72	20 years of the German Society for Cytometry: Past and future concepts. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2011, 79A, 891-893.	1.1	0

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73	NBDT (3â€( <i>N</i> â€(7â€nitrobenzâ€2â€oxaâ€1,3â€diazolâ€4â€yl)amino)â€3â€toluene)—A novel fluoresce mechanisms of toluene uptake into vital bacteria. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2010, 77A, 113-120.	nt dye for 1.1	studying 7
74	Resolution of Natural Microbial Community Dynamics by Community Fingerprinting, Flow Cytometry, and Trend Interpretation Analysis. Advances in Biochemical Engineering/Biotechnology, 2010, 124, 151-181.	0.6	13
75	Advanced tool for characterization of microbial cultures by combining cytomics and proteomics. Applied Microbiology and Biotechnology, 2010, 88, 575-584.	1.7	44
76	Viability states of bacteria—Specific mechanisms of selected probes. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2010, 77A, 623-634.	1.1	154
77	Origin and analysis of microbial population heterogeneity in bioprocesses. Current Opinion in Biotechnology, 2010, 21, 100-113.	3.3	123
78	Functional single-cell analyses: flow cytometry and cell sorting of microbial populations and communities. FEMS Microbiology Reviews, 2010, 34, 554-587.	3.9	303
79	Dynamics of Polyphosphate-Accumulating Bacteria in Wastewater Treatment Plant Microbial Communities Detected via DAPI (4′,6à€²-Diamidino-2-Phenylindole) and Tetracycline Labeling. Applied and Environmental Microbiology, 2009, 75, 2111-2121.	1.4	101
80	Prediction of flocculation ability of brewing yeast inoculates by flow cytometry, proteome analysis, and mRNA profiling. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 140-147.	1.1	23
81	Recent advances in the analysis of individual microbial cells. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 83-85.	1.1	23
82	Community dynamics within a bacterial consortium during growth on toluene under sulfate-reducing conditions. FEMS Microbiology Ecology, 2009, 70, 586-596.	1.3	37
83	Microbes' heterogeneousness – a focus issue on cytometric technologies in microbial single cell analytics. Biotechnology Journal, 2009, 4, 591-592.	1.8	1
84	Effect of electrokinetic transport on the vulnerability of PAH-degrading bacteria in a model aquifer. Environmental Geochemistry and Health, 2008, 30, 177-182.	1.8	48
85	Factors influencing the electrokinetic dispersion of PAH-degrading bacteria in a laboratory model aquifer. Applied Microbiology and Biotechnology, 2008, 80, 507-515.	1.7	29
86	Cytomics reaches microbiology—Population heterogeneity on the protein level caused by chemical stress. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 3-4.	1.1	6
87	Activity and viability of polycyclic aromatic hydrocarbonâ€degrading <i>Sphingomonas</i> sp. LB126 in a DCâ€electrical field typical for electrobioremediation measures. Microbial Biotechnology, 2008, 1, 53-61.	2.0	26
88	Fixation procedures for flow cytometric analysis of environmental bacteria. Journal of Microbiological Methods, 2008, 75, 127-134.	0.7	37
89	Community-based degradation of 4-chorosalicylate tracked on the single cell level. Journal of Microbiological Methods, 2008, 75, 117-126.	0.7	17
90	Fluorogenic surrogate substrates for toluene-degrading bacteria—Are they useful for activity analysis?. Journal of Microbiological Methods, 2007, 70, 272-283.	0.7	7

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91	Limits of propidium iodide as a cell viability indicator for environmental bacteria. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2007, 71A, 592-598.	1.1	231
92	Isolation of intact RNA from cytometrically sorted Saccharomyces cerevisiae for the analysis of intrapopulation diversity of gene expression. Nature Protocols, 2007, 2, 2203-2211.	5.5	32
93	Modes of cytometric bacterial DNA pattern: a tool for pursuing growth. Cell Proliferation, 2007, 40, 621-639.	2.4	62
94	Detection of Sulfur Microparticles in Bacterial Cultures by Flow Cytometry. Engineering in Life Sciences, 2007, 7, 403-407.	2.0	10
95	A cytomic approach reveals population heterogeneity ofCupriavidus necator in response to harmful phenol concentrations. Proteomics, 2006, 6, 5983-5994.	1.3	44
96	Control of continuous polyhydroxybutyrate synthesis using calorimetry and flow cytometry. Biotechnology and Bioengineering, 2006, 93, 541-552.	1.7	22
97	Analysis of livingS. cerevisiae cell states—A three color approach. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 173-177.	1.1	38
98	Population Dynamics within a Microbial Consortium during Growth on Diesel Fuel in Saline Environments. Applied and Environmental Microbiology, 2006, 72, 3531-3542.	1.4	133
99	Population profiles of a stable, commensalistic bacterial culture grown with toluene under sulphate-reducing conditions. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 66A, 91-102.	1.1	26
100	Cell cycle synchronization ofCupriavidus necator by continuous phasing measured via flow cytometry. Biotechnology and Bioengineering, 2005, 92, 635-642.	1.7	15
101	Affinity of singleS. cerevisiaecells to 2-NBDglucose under changing substrate concentrations. , 2004, 61A, 88-98.		20
102	Population profiles of a commercial yeast strain in the course of brewing. Journal of Food Engineering, 2004, 63, 375-381.	2.7	29
103	Population analysis of a binary bacterial culture by multi-parametric flow cytometry. Journal of Biotechnology, 2002, 97, 163-176.	1.9	19
104	How Should Microbial Life be Quantified to Optimise Bioprocesses?. Acta Biotechnologica, 2002, 22, 401-409.	1.0	2
105	Muricauda ruestringensis Has an Asymmetric Cell Cycle. Acta Biotechnologica, 2001, 21, 343-357.	1.0	7
106	Optimisation of High Gravity and Diet Beer Production in a German Brewery by Flow Cytometry. Journal of the Institute of Brewing, 2001, 107, 373-382.	0.8	12
107	Flow cytometric techniques to characterise physiological states of Acinetobacter calcoaceticus. Journal of Microbiological Methods, 2000, 40, 67-77.	0.7	34
108	Adaptive responses of Ralstonia eutropha to feast and famine conditions analysed by flow cytometry. Journal of Biotechnology, 1999, 75, 81-97.	1.9	52

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109	Dynamics of yeast cell states during proliferation and non proliferation periods in a brewing reactor monitored by multidimensional flow cytometry. Bioprocess and Biosystems Engineering, 1997, 17, 287.	0.5	21
110	Flow cytometric discrimination betweenAcinetobacter calcoaceticus69-V andAlcaligenes eutrophusJMP134 by fluorescently labelled rRNA-targeted oligonucleotide probes and DNA staining. Acta Biotechnologica, 1997, 17, 19-38.	1.0	10
111	Membrane-potential-related fluorescence intensity indicates bacterial injury. Microbiological Research, 1996, 151, 127-131.	2.5	17
112	Flow Cytometric Monitoring of Bacterial Cell States Under Growth Limiting Conditions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 213-216.	0.4	1
113	Methylobacterium rhodesianum cells tend to double the DNA content under growth limitations and accumulate PHB. Journal of Biotechnology, 1995, 39, 9-20.	1.9	61
114	FLOW CYTOMETRIC MONITORING OF BACTERIAL CELL STATES UNDER GROWTH LIMITING CONDITIONS. , 1995, , 213-216.		2
115	Staining procedures for flow cytometric monitoring of bacterial populations. Acta Biotechnologica, 1993, 13, 289-297.	1.0	15
116	Immuno- and flow cytometric analytical methods for biotechnological research and process monitoring. Journal of Biotechnology, 1992, 25, 115-144.	1.9	42
117	Flow-cytometric investigation of sterol content and profliferation activity of yeast. Acta Biotechnologica, 1992, 12, 365-375.	1.0	13
118	Flow cytometric determination of yeast sterol content. Acta Biotechnologica, 1989, 9, 89-93.	1.0	12