

# GÃ¼nter Gauglitz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6575290/publications.pdf>

Version: 2024-02-01

102  
papers

7,111  
citations

201674

27  
h-index

95266

68  
g-index

539  
all docs

539  
docs citations

539  
times ranked

7656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advancements in sensor technology with innovative and significant research publications: how to write that perfect paper?. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 21-24.	3.7	1
2	Comparison of methods for quantitative biomolecular interaction analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 661-673.	3.7	5
3	An integrated device for fast and sensitive immunosuppressant detection. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3243-3255.	3.7	6
4	Through the looking-glass - Recent developments in reflectometry open new possibilities for biosensor applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 156, 116708.	11.4	9
5	Fibronectin adsorption on oxygen plasma-treated polyurethane surfaces modulates endothelial cell response. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1647-1660.	5.8	9
6	Parallelized label-free monitoring of cell adhesion on extracellular matrix proteins measured by single colour reflectometry. <i>Analytical and Bioanalytical Chemistry</i> , 2021, , 1.	3.7	1
7	Recent trends in (bio)analytical chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5533-5534.	3.7	2
8	The new generation: quantum sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5679-5680.	3.7	1
9	ABC Spotlight on single-molecule detection. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7043-7045.	3.7	5
10	Advances in direct optical detection. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3263-3264.	3.7	1
11	<i>Analytical and Bioanalytical Chemistry (ABC): tradition and vision. Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3951-3953.	3.7	0
12	ABC presents recent trends in (bio)analytical chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1955-1956.	3.7	1
13	Critical assessment of relevant methods in the field of biosensors with direct optical detection based on fibers and waveguides using plasmonic, resonance, and interference effects. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3317-3349.	3.7	51
14	Artificial vs. human intelligence in analytics. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 5631-5632.	3.7	12
15	European analytical column number 47. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3695-3698.	3.7	0
16	Blister-Actuated LIFT Printing for Multiparametric Functionalization of Paper-Like Biosensors. <i>Micromachines</i> , 2019, 10, 221.	2.9	12
17	Smartphone biosensor for Salmonella and Amitriptyline. , 2019, , .		0
18	Nano-MIP based sensor for penicillin G: Sensitive layer and analytical validation. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 26-33.	7.8	27

#	ARTICLE	IF	CITATIONS
19	ABC presents bioanalysis and environmental analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2273-2274.	3.7	0
20	Glyphosate analysis using sensors and electromigration separation techniques as alternatives to gas or liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 725-746.	3.7	24
21	Development of a paper-based lateral flow immunoassay for simultaneous detection of lipopolysaccharides of <i>Salmonella</i> serovars. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 863-868.	3.7	30
22	Analytical evaluation of sensor measurements. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5-13.	3.7	38
23	ABC Spotlight on paper-based strips analytics. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1-3.	3.7	44
24	Lab 4.0: SiLA or OPC UA. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5093-5094.	3.7	14
25	Terminology of bioanalytical methods (IUPAC Recommendations 2018). <i>Pure and Applied Chemistry</i> , 2018, 90, 1121-1198.	1.9	19
26	Reflectometric Interference Spectroscopy. <i>Methods in Molecular Biology</i> , 2017, 1571, 207-220.	0.9	9
27	Social impact of analytical chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5613-5614.	3.7	0
28	Laser-induced fluorescence detection platform for point-of-care testing. <i>Measurement Science and Technology</i> , 2017, 28, 085701.	2.6	15
29	ABC Spotlight on metal-organic frameworks (MOFs). <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1-2.	3.7	67
30	Surface-enhanced infrared absorption studies towards a new optical biosensor. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1736-1742.	2.8	7
31	ABC's spotlight on the nanoworld. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6235-6237.	3.7	1
32	E-Health" a topic for analytical chemists?. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1-2.	3.7	89
33	Catching the eye with an abstract. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 637-638.	3.7	0
34	ABC Spotlight on effect-directed analysis" dose instead of concentration. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3261-3263.	3.7	4
35	A multi-analyte biosensor for the simultaneous label-free detection of pathogens and biomarkers in point-of-need animal testing. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4005-4013.	3.7	16
36	Direct optical detection. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3881-3882.	3.7	4

#	ARTICLE	IF	CITATIONS
37	Ultrasensitive Label-Free Immunoassay for Optical Determination of Amitriptyline and Related Tricyclic Antidepressants in Human Serum. <i>Analytical Chemistry</i> , 2015, 87, 8845-8850.	6.5	17
38	Plasmonic Vertical Dimer arrays as elements for biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8225-8231.	3.7	18
39	ABC Spotlight on carbon nanotubes (CNTs). <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6077-6079.	3.7	2
40	Development of a new parallelized, optical biosensor platform for label-free detection of autoimmunity-related antibodies. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3305-3314.	3.7	30
41	Label-free optical biosensor for detection and quantification of the non-steroidal anti-inflammatory drug diclofenac in milk without any sample pretreatment. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3377-3386.	3.7	30
42	Preparation of Liquid and Solid Samples. , 2014, , 1-14.		2
43	Point-of-Care Platforms. <i>Annual Review of Analytical Chemistry</i> , 2014, 7, 297-315.	5.4	53
44	Section III: Methods 2: NMR. , 2014, , 183-192.		0
45	Section VI: Methods 5: Surface Analysis. , 2014, , 699-708.		0
46	A robust sensor platform for label-free detection of anti-Salmonella antibodies using undiluted animal sera. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6461-6469.	3.7	21
47	On-Chip Integrated Mid-Infrared GaAs/AlGaAs Mach-Zehnder Interferometer. <i>Analytical Chemistry</i> , 2013, 85, 3050-3052.	6.5	56
48	Optical sensors with molecularly imprinted nanospheres: a promising approach for robust and label-free detection of small molecules. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3245-3252.	3.7	26
49	Label-free quantification of cystatin C as an improved marker for renal failure. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 349-356.	3.7	12
50	Reflectometric interference spectroscopy (RIFS) as a new tool to measure in the complex matrix milk at low analyte concentration. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 529-536.	3.7	27
51	Meet the Editors of an Outstanding Journal – An interview. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 7-13.	3.7	2
52	Direct optical detection in bioanalysis: an update. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2363-2372.	3.7	91
53	Nuclear receptors in analytics – a fruitful joint venture or a wasteful futility?. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 297-305.	11.4	10
54	CCD camera image analysis for mapping solute concentrations in saturated porous media. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1867-1876.	3.7	21

#	ARTICLE	IF	CITATIONS
55	IR absorption and reflectometric interference spectroscopy (RIFS) combined to a new sensing approach for gas analytes absorbed into thin polymer films. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 72, 994-999.	3.9	20
56	Characterisation of morphology of self-assembled PEG monolayers: a comparison of mixed and pure coatings optimised for biosensor applications. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1783-1791.	3.7	41
57	Strategies for Label-Free Optical Detection. , 2008, 109, 395-432.		28
58	Potential of label-free detection in high-content-screening applications. <i>Journal of Chromatography A</i> , 2007, 1161, 2-8.	3.7	35
59	Biomolecular interaction analysis under electrophoretic flow conditions. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 1129-1133.	3.7	8
60	Microarray Biochips - Thousands of Reactions on a Small Chip (MOBA). , 2006, , 405-476.		0
61	Atomic Absorption Spectrometry (AAS) and Atomic Emission Spectrometry (AES). , 2005, , 421-496.		4
62	Measurement Techniques. , 2005, , 70-88.		0
63	X-Ray Fluorescence Analysis. , 2005, , 363-420.		4
64	Collection and Preparation of Gaseous Samples. , 2005, , 4-16.		0
65	Surface Analysis Techniques. , 2005, , 497-599.		1
66	Bioanalysis. , 2005, , 1-147.		0
67	LC-MS in Environmental Analysis. , 2005, , 152-243.		1
68	Optical Spectroscopy. , 2005, , 279-296.		0
69	NMR. , 2005, , 297-315.		1
70	Process Mass Spectrometry. , 2005, , 316-335.		0
71	Elemental Analysis. , 2005, , 336-376.		0
72	Hyphenated Techniques for Chromatographic Detection. , 2005, , 381-435.		0

#	ARTICLE	IF	CITATIONS
73	Optical Spectroscopy. , 2005, , 441-468.		0
74	An Introduction to Solution, Solid-State, and Imaging NMR Spectroscopy. , 2005, , 177-208.		1
75	Solution NMR Spectroscopy. , 2005, , 209-268.		2
76	Solid-State NMR. , 2005, , 269-326.		2
77	Direct optical sensors: principles and selected applications. Analytical and Bioanalytical Chemistry, 2005, 381, 141-155.	3.7	220
78	Label-free characterization of cell adhesion using reflectometric interference spectroscopy (RIfS). Analytical and Bioanalytical Chemistry, 2005, 384, 407-413.	3.7	37
79	Label-free characterisation of oligonucleotide hybridisation using reflectometric interference spectroscopy. Analytical and Bioanalytical Chemistry, 2005, 382, 1889-1894.	3.7	40
80	Reflectometric interference spectroscopy combined with MALDI~TOF mass spectrometry to determine quantitative and qualitative binding of mixtures of vancomycin derivatives. Analytical and Bioanalytical Chemistry, 2005, 382, 1942-1948.	3.7	19
81	To the memory of Wilhelm Fresenius. Analytical and Bioanalytical Chemistry, 2005, 382, 1727-1729.	3.7	0
82	Sample Collection and Preparation of Liquid and Solids. , 2005, , 17-35.		1
83	Basics of Optical Spectroscopy. , 2005, , 37-47.		3
84	Determination of affinity constants of locked nucleic acid (LNA) and DNA duplex formation using label free sensor technology. Analyst, The, 2005, 130, 1634.	3.5	24
85	Gas Chromatography/Ion Trap Mass Spectrometry (GC/ITMS) for Environmental Analysis. , 2005, , 244-267.		1
86	Investigation of initial pellicle formation on modified titanium dioxide (TiO2) surfaces by reflectometric interference spectroscopy (RIfS) in a model system. Dental Materials, 2004, 20, 814-822.	3.5	30
87	Different approaches to multivariate calibration of nonlinear sensor data. Analytical and Bioanalytical Chemistry, 2004, 380, 383-396.	3.7	19
88	Focus on bioanalysis. Analytical and Bioanalytical Chemistry, 2003, 377, 383-385.	3.7	0
89	Genetic algorithms and neural networks for the quantitative analysis of ternary mixtures using surface plasmon resonance. Chemometrics and Intelligent Laboratory Systems, 2003, 65, 67-81.	3.5	19
90	Development of an assay for label-free high-throughput screening of thrombin inhibitors by use of reflectometric interference spectroscopy. Analytical and Bioanalytical Chemistry, 2002, 372, 141-147.	3.7	40

#	ARTICLE	IF	CITATIONS
91	Surface plasmon resonance sensors: review. <i>Sensors and Actuators B: Chemical</i> , 1999, 54, 3-15.	7.8	4,817
92	Interaction of Chemically Modified Antisense Oligonucleotides with Sense DNA: A Label-Free Interaction Study with Reflectometric Interference Spectroscopy. <i>Analytical Chemistry</i> , 1999, 71, 2850-2857.	6.5	42
93	Assessment of affinity constants by rapid solid phase detection of equilibrium binding in a flow system. <i>Journal of Immunological Methods</i> , 1997, 201, 189-206.	1.4	70
94	In-situ characterization of thin polymer films for applications in chemical sensing of volatile organic compounds by spectroscopic ellipsometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 357, 292-296.	1.5	25
95	Label free binding assay with spectroscopic detection for pharmaceutical screening. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 359, 15-22.	1.5	24
96	Specific binding of low molecular weight ligands with direct optical detection. <i>Biosensors and Bioelectronics</i> , 1997, 12, 531-538.	10.1	33
97	Affinity Detection of Low Molecular Weight Analytes. <i>Analytical Chemistry</i> , 1996, 68, 139-143.	6.5	96
98	Surface modification for direct immunoprobes. <i>Biosensors and Bioelectronics</i> , 1996, 11, 579-590.	10.1	173
99	A direct optical immunosensor for atrazine detection. <i>Analytica Chimica Acta</i> , 1995, 311, 289-299.	5.4	112
100	Optical reflectometric gas sensing: classification of hydrocarbon vapours by pattern recognition applied to RfS sensor signals. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1995, 30, 211-221.	3.5	15
101	Mustererkennung und Multikomponentenanalyse bei chemischen Sensoren. <i>TM Technisches Messen</i> , 1995, 62, 229-236.	0.7	4
102	Spectral interference refractometry by diode array spectrometry. <i>Analytical Chemistry</i> , 1988, 60, 2609-2612.	6.5	37