

Gerhard J Mohr

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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.

102
papers

3,355
citations

37
h-index

52
g-index

105
ext. papers

3,546
ext. citations

5.9
avg, IF

5.38
L-index

#	Paper	IF	Citations
102	An ATP fluorescent chemosensor based on a Zn(II)-complexed dipicolylamine receptor coupled with a naphthalimide chromophore. <i>Chemical Communications</i> , 2010 , 46, 1085-7	5.8	146
101	Optical sensors for a wide pH range based on azo dyes immobilized on a novel support. <i>Analytica Chimica Acta</i> , 1994 , 292, 41-48	6.6	106
100	Application of Chromogenic and Fluorogenic Reactands in the Optical Sensing of Dissolved Aliphatic Amines. <i>Analytical Chemistry</i> , 1998 , 70, 3868-3873	7.8	103
99	Chromo- and fluororeactands: indicators for detection of neutral analytes by using reversible covalent-bond chemistry. <i>Chemistry - A European Journal</i> , 2004 , 10, 1082-90	4.8	97
98	New chromogenic and fluorogenic reagents and sensors for neutral and ionic analytes based on covalent bond formation—a review of recent developments. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 1201-14	4.4	92
97	On the design of fluorescent ratiometric nanosensors. <i>Chemistry - A European Journal</i> , 2010 , 16, 10290-94.8		91
96	A chromoreactand for the selective detection of HSO ₃ ⁻ based on the reversible bisulfite addition reaction in polymer membranes. <i>Chemical Communications</i> , 2002 , 2646-7	5.8	83
95	Biocompatible fluorescent nanoparticles for pH-sensing. <i>Soft Matter</i> , 2008 , 4, 1169-1172	3.6	81
94	Novel type of ion-selective fluorosensor based on the inner filter effect: an optrode for potassium. <i>Analytical Chemistry</i> , 1993 , 65, 123-127	7.8	74
93	Star-shaped tripodal chemosensors for the detection of aliphatic amines. <i>Chemistry - A European Journal</i> , 2011 , 17, 969-75	4.8	73
92	Ratiometric pH-nanosensors based on rhodamine-doped silica nanoparticles functionalized with a naphthalimide derivative. <i>Journal of Colloid and Interface Science</i> , 2009 , 339, 266-70	9.3	68
91	Ammonia fluorosensors based on reversible lactonization of polymer-entrapped rhodamine dyes, and the effects of plasticizers. <i>Analytica Chimica Acta</i> , 1996 , 334, 113-123	6.6	68
90	The effect of polymeric supports and methods of immobilization on the performance of an optical copper(II)-sensitive membrane based on the colourimetric reagent Zincon. <i>Talanta</i> , 1998 , 47, 595-604	6.2	65
89	Two-Dye Core/Shell Zeolite Nanoparticles: A New Tool for Ratiometric pH Measurements. <i>Advanced Functional Materials</i> , 2009 , 19, 117-122	15.6	64
88	Developing a sensor layer for the optical detection of amines during food spoilage. <i>Talanta</i> , 2017 , 170, 481-487	6.2	60
87	On the performance of surface plasmon resonance based fibre optic sensor with different bimetallic nanoparticle alloy combinations. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 055106	3	60
86	Smart bandage with wireless connectivity for optical monitoring of pH. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 455-460	8.5	59

85	A fluorescent water-soluble naphthalimide-based receptor for saccharides with highest sensitivity in the physiological pH range. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 2965-8	3.9	58
84	Ratiometric porphyrin-based layers and nanoparticles for measuring oxygen in biosamples. <i>Sensors and Actuators B: Chemical</i> , 2009 , 135, 472-477	8.5	54
83	Development and critical evaluation of fluorescent chloride nanosensors. <i>Analytical Chemistry</i> , 2008 , 80, 6526-31	7.8	53
82	Using N-aminoperylene-3,4,9,10-tetracarboxylbisimide as a fluorogenic reactand in the optical sensing of aqueous propionaldehyde. <i>Analytical Chemistry</i> , 2000 , 72, 1084-7	7.8	53
81	Reversible chemical reactions as the basis for optical sensors used to detect amines, alcohols and humidity. <i>Journal of Materials Chemistry</i> , 1999 , 9, 2259-2264		52
80	Surface-functionalized fluorescent silica nanoparticles for the detection of ATP. <i>Chemical Communications</i> , 2011 , 47, 6066-8	5.8	51
79	Functional liquid crystal films selectively recognize amine vapours and simultaneously change their colour. <i>Chemical Communications</i> , 2006 , 1512-4	5.8	50
78	Enzyme biosensor for urea based on a novel pH bulk optode membrane. <i>Biosensors and Bioelectronics</i> , 1995 , 10, 653-9	11.8	49
77	Chemosensors based on molecularly imprinted polymers. <i>Topics in Current Chemistry</i> , 2012 , 325, 165-265		48
76	Optical sensor arrays: one-pot, multiparallel synthesis and cellulose immobilization of pH and metal ion sensitive azo-dyes. <i>Tetrahedron</i> , 2006 , 62, 1502-1507	2.4	46
75	Covalent bond formation as an analytical tool to optically detect neutral and anionic analytes. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 2-13	8.5	44
74	Fluorescent ligands for optical sensing of alcohols: Synthesis and characterisation of p-N,N-dialkylamino-trifluoroacetylstilbenes. <i>Analytica Chimica Acta</i> , 1997 , 344, 215-225	6.6	43
73	Chemosensor for the optical detection of aliphatic amines and diamines. <i>Chemical Communications</i> , 2008 , 2272-4	5.8	43
72	Development of chromogenic reactands for optical sensing of alcohols. <i>Sensors and Actuators B: Chemical</i> , 1998 , 49, 226-234	8.5	42
71	Development of Chromogenic Copolymers for Optical Detection of Amines. <i>Advanced Materials</i> , 1998 , 10, 1353-1357	24	41
70	Hybrid functionalised mesoporous silica/polymer composites for enhanced analyte monitoring using optical sensors. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5815		41
69	New chromoreactands for the detection of aldehydes, amines and alcohols. <i>Sensors and Actuators B: Chemical</i> , 2003 , 90, 31-36	8.5	39
68	Fluorosensors for ammonia using rhodamines immobilized in plasticized poly(vinyl chloride) and in sol-gel; a comparative study. <i>Analytica Chimica Acta</i> , 1997 , 342, 207-213	6.6	38

67	Fluorescent nanoparticles for ratiometric pH-monitoring in the neutral range. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1475		37
66	Evaluation of fluorescent polysaccharide nanoparticles for pH-sensing. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 1884-9	3.9	37
65	Design of acidochromic dyes for facile preparation of pH sensor layers. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 392, 1411-8	4.4	37
64	Optical alcohol sensor using lipophilic Reichardt's dyes in polymer membranes. <i>Analytica Chimica Acta</i> , 2001 , 432, 269-275	6.6	36
63	Novel optical sensor materials based on solubilization of polar dyes in apolar polymers. <i>Advanced Materials</i> , 1997 , 9, 1108-1113	24	34
62	Fluoro reactants and dual luminophore referencing: a technique to optically measure amines. <i>Analytical Chemistry</i> , 2001 , 73, 1053-6	7.8	32
61	Magnetic and fluorescent core-shell nanoparticles for ratiometric pH sensing. <i>Nanotechnology</i> , 2011 , 22, 415501	3.4	31
60	Novel fluorescent sensor membranes for alcohols based on p-N, N-dioctylamino-4'-trifluoroacetylstilbene. <i>Analytica Chimica Acta</i> , 1997 , 351, 189-196	6.6	31
59	Tailoring colour changes of optical sensor materials by combining indicator and inert dyes and their use in sensor layers, textiles and non-wovens. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 788-793	8.5	30
58	Optical sensing of anions via polarity-sensitive dyes: A bulk sensor membrane for nitrate. <i>Analytica Chimica Acta</i> , 1995 , 316, 239-246	6.6	30
57	Novel pH indicator dyes for array preparation via NHS ester activation or solid-phase organic synthesis. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 4319-22	3.9	28
56	Optical sensor materials for the detection of amines in organic solvents. <i>Analytica Chimica Acta</i> , 2006 , 565, 42-47	6.6	28
55	Mitoxantrone-loaded zeolite beta nanoparticles: preparation, physico-chemical characterization and biological evaluation. <i>Journal of Colloid and Interface Science</i> , 2012 , 365, 33-40	9.3	27
54	New polar plasticizers for luminescence-based sensors. <i>Analytica Chimica Acta</i> , 1997 , 337, 201-205	6.6	27
53	Plasticizer-Free Optode Membranes for Dissolved Amines Based on Copolymers from Alkyl Methacrylates and the Fluoro Reactand ETHHT 4014. <i>Analytical Chemistry</i> , 1999 , 71, 1534-1539	7.8	27
52	Tailoring the sensitivity and spectral properties of a chromoreactand for the detection of amines and alcohols. <i>Analytica Chimica Acta</i> , 2004 , 508, 233-237	6.6	26
51	Fluorescent potential-sensitive dyes for use in solid state sensors for potassium ion. <i>Analytica Chimica Acta</i> , 1996 , 334, 125-132	6.6	26
50	Spectroscopic Properties of Azobenzene-Based pH Indicator Dyes: A Quantum Chemical and Experimental Study. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 1062-72	6.4	25

49	Sol-gel-based optical sensor for the detection of aqueous amines. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 2863-70	4.4	24
48	Optical nitrite sensor based on a potential-sensitive dye and a nitrite-selective carrier. <i>Analyst, The</i> , 1996 , 121, 1489	5	24
47	Spectroscopic and quantum chemical study of the Brønsted acid sites in zeolite L channels with acidochromic cyanine dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 204, 90-96	4.7	23
46	Application of potential-sensitive fluorescent dyes in anion and cation-sensitive polymer membranes. <i>Sensors and Actuators B: Chemical</i> , 1997 , 39, 239-245	8.5	23
45	Fluorescence dye as novel label molecule for quantitative SERS investigations of an antibiotic. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 2625-31	4.4	22
44	Effect of the polymer matrix on the response of optical sensors for dissolved aliphatic amines based on the chromoreactand ETH 4001. <i>Analytica Chimica Acta</i> , 2000 , 414, 181-187	6.6	22
43	The Development of Indicator Cotton Swabs for the Detection of pH in Wounds. <i>Sensors</i> , 2017 , 17,	3.8	21
42	Electronic properties of neutral dyes in the channels of zeolite L: a combined spectroscopic and quantum chemical study. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8-15	3.4	21
41	Covalent immobilization of a fluorescent pH-sensitive naphthalimide dye in sol-gel films. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 63, 23-29	2.3	20
40	Fluorescent polyacrylamide nanoparticles for naproxen recognition. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 1821-30	4.4	19
39	Synthesis and characterization of fluorophore-absorber pairs for sensing of ammonia based on fluorescence. <i>Analytica Chimica Acta</i> , 1998 , 360, 119-128	6.6	19
38	Optode membrane for continuous measurement of silver ions. <i>Mikrochimica Acta</i> , 1995 , 121, 249-258	5.8	19
37	A chromoreactand for optical sensing of amphetamines. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 374, 399-402	4.4	18
36	Continuous optical monitoring of aqueous amines in transfectance mode. <i>Sensors and Actuators B: Chemical</i> , 2000 , 62, 154-161	8.5	18
35	Application of a novel lipophilized fluorescent dye in an optical nitrate sensor. <i>Journal of Fluorescence</i> , 1995 , 5, 135-8	2.4	17
34	Synthesis of reactive vinylsulphonyl azo dyes for application in optical pH sensing. <i>Dyes and Pigments</i> , 1994 , 24, 223-240	4.6	17
33	New near infrared absorbing acidochromic dyes and their application in sensor techniques. <i>Dyes and Pigments</i> , 1994 , 26, 229-235	4.6	17
32	Investigation of potential-sensitive fluorescent dyes for application in nitrate sensitive polymer membranes. <i>Fresenius Journal of Analytical Chemistry</i> , 1997 , 357, 284-291		16

31	Synthesis of naphthalimide-based indicator dyes with a 2-hydroxyethylsulfonyl function for covalent immobilisation to cellulose. <i>Sensors and Actuators B: Chemical</i> , 2018 , 275, 439-445	8.5	15
30	Design considerations for surface plasmon resonance-based fiber-optic detection of human blood group. <i>Journal of Biomedical Optics</i> , 2009 , 14, 064041	3.5	14
29	A tricyanovinyl azobenzene dye used for the optical detection of amines via a chemical reaction in polymer layers. <i>Dyes and Pigments</i> , 2004 , 62, 77-81	4.6	14
28	On the temperature sensing capability of a fibre optic SPR mechanism based on bimetallic alloy nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 045104	3	12
27	Tailor-made dyes for fluorescence correlation spectroscopy (FCS). <i>Biological Chemistry</i> , 2001 , 382, 495-84.5	4.5	12
26	A highly sensitive NO ₂ -selective optode membrane. <i>Sensors and Actuators B: Chemical</i> , 2000 , 70, 165-168.5	3.5	12
25	Plasmonic optical sensor for determination of refractive index of human skin tissues. <i>Sensors and Actuators B: Chemical</i> , 2016 , 226, 312-317	8.5	11
24	Effects of the polymer matrix on an optical nitrate sensor based on a polarity-sensitive dye. <i>Sensors and Actuators B: Chemical</i> , 1996 , 37, 103-109	8.5	11
23	Development of an optical membrane for humidity. <i>Mikrochimica Acta</i> , 1998 , 130, 29-34	5.8	10
22	Fluororeactands for the Detection of Saccharides Based on Hemicyanine Dyes with a Boronic Acid Receptor. <i>Mikrochimica Acta</i> , 2006 , 153, 127-131	5.8	10
21	Indicator washcloth for detecting alkaline washing solutions to prevent dermatitis patients and babies from skin irritation. <i>Fashion and Textiles</i> , 2017 , 4,	2.8	9
20	Photochemistry of the amine-sensor dye 4-N,N-dioctylamino-4'-trifluoroacetylazobenzene. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 163, 341-345	4.7	9
19	On the application of different bimetallic alloy nanoparticle combinations in fiber optic surface plasmon resonance salinity sensor and its performance optimization against thermal effects. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3145-54	1.3	8
18	Fluorescent Polysaccharide Nanoparticles for pH-Sensing. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2009 , 22, 671-673	0.7	7
17	Effect of the Sol-Gel Matrix on the Performance of Ammonia Fluorosensors Based on Energy Transfer. <i>Journal of Fluorescence</i> , 1998 , 8, 199-205	2.4	7
16	Synthesis and structure-property relationships of amphiphilic acidochromic hydroxystilbazolium dyes. <i>Sensors and Actuators B: Chemical</i> , 1997 , 39, 229-234	8.5	6
15	POLYMERS FOR OPTICAL SENSORS. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2006 , 297-321		6
14	Indicator Layers Based on Ethylene-Vinyl Acetate Copolymer (EVA) and Dicyanovinyl Azobenzene Dyes for Fast and Selective Evaluation of Vaporious Biogenic Amines. <i>Sensors</i> , 2018 , 18,	3.8	6

13	Synthesis and sensing properties of a new carbazole fluorosensor for detection of abacavir. <i>Supramolecular Chemistry</i> , 2010 , 22, 598-602	1.8	5
12	Comparison of trifluoroacetyl monostyryl and distyryl dyes: effects of chromophore elongation on the spectral properties and chemical reactivity. <i>Journal of Fluorescence</i> , 2006 , 16, 185-90	2.4	5
11	Design and Characterization of Dicyanovinyl Reactive Dyes for the Colorimetric Detection of Thiols and Biogenic Amines. <i>Sensors</i> , 2018 , 18,	3.8	4
10	Aquacyanocobalt(III)-cobyrinate as a key compound in NO ₂ -sensitive polymeric liquid membranes. <i>Analytical Sciences</i> , 2003 , 19, 551-6	1.7	4
9	Using reactands in CMOS-based calorimetric sensors: new functional materials for electronic noses. <i>Analytical Sciences</i> , 2002 , 18, 109-11	1.7	3
8	Molecular recognition of the antiretroviral drug abacavir: towards the development of a novel carbazole-based fluorosensor. <i>Journal of Fluorescence</i> , 2011 , 21, 1195-204	2.4	2
7	Fibre-Optic and Nanoparticle-Based Fluorescence Sensing Using Indicator Dyes: Pitfalls, Self-Referencing, Application, and Future Trends. <i>Springer Series on Fluorescence</i> , 2008 , 347-372	0.5	2
6	Scalable production of magnetic fluorescent cellulose microparticles. <i>Cellulose</i> , 2021 , 28, 7675-7685	5.5	2
5	Nanosensoren für die biotechnologische und medizinische Forschung Nanosensors for Biotechnological and Medical Research. <i>TM Technisches Messen</i> , 2010 , 77,	0.7	1
4	Optical sensor based on sensitive polymer layer 2008 ,		1
3	Predicting spectral characteristics and reactivity of receptor molecules that perform reversible chemical reactions with analyte molecules. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 414-419	8.5	1
2	Capillary microfluidic platform for sulfite determination in wines. <i>Sensors and Actuators B: Chemical</i> , 2022 , 359, 131549	8.5	0
1	Chromogenic and Fluorogenic Reactands: New Indicator Dyes for Monitoring Amines, Alcohols and Aldehydes 2004 , 51-66		