

Otto S Wolfbeis

List of Publications by Citations

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522
papers

32,846
citations

92
h-index

156
g-index

553
ext. papers

35,491
ext. citations

7
avg, IF

7.86
L-index

#	Paper	IF	Citations
522	Luminescent probes and sensors for temperature. <i>Chemical Society Reviews</i> , 2013 , 42, 7834-69	58.5	1098
521	An overview of nanoparticles commonly used in fluorescent bioimaging. <i>Chemical Society Reviews</i> , 2015 , 44, 4743-68	58.5	1063
520	Optical biosensors. <i>Chemical Reviews</i> , 2008 , 108, 423-61	68.1	773
519	Optical methods for sensing and imaging oxygen: materials, spectroscopies and applications. <i>Chemical Society Reviews</i> , 2014 , 43, 3666-761	58.5	705
518	Photonic crystals for chemical sensing and biosensing. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3318-35	16.4	522
517	Upconverting nanoparticles for nanoscale thermometry. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4546-51	16.4	490
516	Fiber-optic chemical sensors and biosensors. <i>Analytical Chemistry</i> , 2008 , 80, 4269-83	7.8	411
515	Materials for fluorescence-based optical chemical sensors. <i>Journal of Materials Chemistry</i> , 2005 , 15, 2657		405
514	Upconverting luminescent nanoparticles for use in bioconjugation and bioimaging. <i>Current Opinion in Chemical Biology</i> , 2010 , 14, 582-96	9.7	400
513	Fiber-optic chemical sensors and biosensors (2008-2012). <i>Analytical Chemistry</i> , 2013 , 85, 487-508	7.8	367
512	Optical methods for sensing glucose. <i>Chemical Society Reviews</i> , 2011 , 40, 4805-39	58.5	367
511	Luminescent Europium(III) nanoparticles for sensing and imaging of temperature in the physiological range. <i>Advanced Materials</i> , 2010 , 22, 716-9	24	367
510	Photon-upconverting nanoparticles for optical encoding and multiplexing of cells, biomolecules, and microspheres. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3584-600	16.4	352
509	Fiber-Optic Chemical Sensors and Biosensors (2013-2015). <i>Analytical Chemistry</i> , 2016 , 88, 203-27	7.8	291
508	Multiple fluorescent chemical sensing and imaging. <i>Chemical Society Reviews</i> , 2010 , 39, 3102-14	58.5	287
507	Fiber-optic chemical sensors and biosensors. <i>Analytical Chemistry</i> , 2004 , 76, 3269-83	7.8	275
506	Fiber-optic chemical sensors and biosensors. <i>Analytical Chemistry</i> , 2000 , 72, 81R-89R	7.8	273

505	Oxygen-Sensitive Luminescent Materials Based on Silicone-Soluble Ruthenium Diimine Complexes. <i>Analytical Chemistry</i> , 1995 , 67, 3160-3166	7.8	270
504	A europium-ion-based luminescent sensing probe for hydrogen peroxide. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4495-8	16.4	260
503	Optical sensors for determination of heavy metal ions. <i>Mikrochimica Acta</i> , 1997 , 126, 177-192	5.8	259
502	Nanomaterial-based electrochemical sensing of neurological drugs and neurotransmitters. <i>Mikrochimica Acta</i> , 2015 , 182, 1-41	5.8	244
501	Capacitive monitoring of protein immobilization and antigen-antibody reactions on monomolecular alkylthiol films on gold electrodes. <i>Biosensors and Bioelectronics</i> , 1997 , 12, 977-89	11.8	244
500	Electropolymerized Molecularly Imprinted Polymers as Receptor Layers in Capacitive Chemical Sensors. <i>Analytical Chemistry</i> , 1999 , 71, 4609-4613	7.8	236
499	Fiber-optic chemical sensors and biosensors. <i>Analytical Chemistry</i> , 2006 , 78, 3859-74	7.8	235
498	Optical Fiber Sensor for Biological Oxygen Demand. <i>Analytical Chemistry</i> , 1994 , 66, 1841-1846	7.8	228
497	Luminescent sensing of oxygen using a quenchable probe and upconverting nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 260-3	16.4	213
496	Fibre-optic oxygen sensor with the fluorescence decay time as the information carrier. <i>Analytica Chimica Acta</i> , 1988 , 205, 1-6	6.6	213
495	Fiber-optic fluorosensor for oxygen and carbon dioxide. <i>Analytical Chemistry</i> , 1988 , 60, 2028-2030	7.8	213
494	A nanogel for ratiometric fluorescent sensing of intracellular pH values. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4246-9	16.4	203
493	Fiber-optic chemical sensors and biosensors. <i>Analytical Chemistry</i> , 2002 , 74, 2663-77	7.8	200
492	Dual fluorescence sensor for trace oxygen and temperature with unmatched range and sensitivity. <i>Analytical Chemistry</i> , 2008 , 80, 6449-57	7.8	198
491	Temperature-sensitive europium(III) probes and their use for simultaneous luminescent sensing of temperature and oxygen. <i>Analytical Chemistry</i> , 2006 , 78, 5094-101	7.8	196
490	Determination of oxygen gradients in engineered tissue using a fluorescent sensor. <i>Biotechnology and Bioengineering</i> , 2002 , 80, 73-83	4.9	190
489	Ultra-small, highly stable, and sensitive dual nanosensors for imaging intracellular oxygen and pH in cytosol. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17011-4	16.4	189
488	pH optical sensors based on solgels: Chemical doping versus covalent immobilization. <i>Analytica Chimica Acta</i> , 1998 , 367, 159-165	6.6	187

487	Luminescence Lifetime Imaging of Oxygen, pH, and Carbon Dioxide Distribution Using Optical Sensors. <i>Applied Spectroscopy</i> , 2000 , 54, 548-559	3.1	186
486	Upconversion nanoparticles: from hydrophobic to hydrophilic surfaces. <i>Accounts of Chemical Research</i> , 2014 , 47, 3481-93	24.3	181
485	Photon upconverting nanoparticles for luminescent sensing of temperature. <i>Nanoscale</i> , 2012 , 4, 7090-6	7.7	181
484	Optical ammonia sensor based on upconverting luminescent nanoparticles. <i>Analytical Chemistry</i> , 2010 , 82, 5002-4	7.8	173
483	Water dispersible upconverting nanoparticles: effects of surface modification on their luminescence and colloidal stability. <i>Nanoscale</i> , 2015 , 7, 1403-10	7.7	172
482	Graphenes in chemical sensors and biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 39, 87-113	14.6	170
481	pH sensor based on upconverting luminescent lanthanide nanorods. <i>Chemical Communications</i> , 2009 , 5000-2	5.8	170
480	Fluorescent imaging of pH with optical sensors using time domain dual lifetime referencing. <i>Analytical Chemistry</i> , 2001 , 73, 4354-63	7.8	164
479	Boronic acid based probes for microdetermination of saccharides and glycosylated biomolecules. <i>Mikrochimica Acta</i> , 2008 , 162, 1-34	5.8	163
478	A MXene-Based Wearable Biosensor System for High-Performance In Vitro Perspiration Analysis. <i>Small</i> , 2019 , 15, e1901190	11	157
477	Composite Luminescent Material for Dual Sensing of Oxygen and Temperature. <i>Advanced Functional Materials</i> , 2006 , 16, 1536-1542	15.6	154
476	2D luminescence imaging of pH in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2432-7	11.5	153
475	Sol-gel based optical carbon dioxide sensor employing dual luminophore referencing for application in food packaging technology. <i>Analyst, The</i> , 2002 , 127, 1478-83	5	152
474	Fluorimetric analysis. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1983 , 314, 119-124		147
473	Hydrogen sensor based on a graphene palladium nanocomposite. <i>Electrochimica Acta</i> , 2011 , 56, 3707-3712		145
472	Tuning the dual emission of photon-upconverting nanoparticles for ratiometric multiplexed encoding. <i>Advanced Materials</i> , 2011 , 23, 1652-5	24	142
471	A Dual Luminescent Sensor Material for Simultaneous Imaging of Pressure and Temperature on Surfaces. <i>Advanced Functional Materials</i> , 2008 , 18, 1399-1406	15.6	142
470	Oxygen optrode for use in a fiber-optic glucose biosensor. <i>Analytical Chemistry</i> , 1990 , 62, 2377-80	7.8	141

469	A Phytic Acid Induced Super-Amphiphilic Multifunctional 3D Graphene-Based Foam. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3936-41	16.4	139
468	Size dependence of the upconverted luminescence of NaYF ₄ :Er,Yb microspheres for use in ratiometric thermometry. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20009-12	3.6	136
467	Optical sensing of pH using thin films of substituted polyanilines. <i>Analytica Chimica Acta</i> , 1997 , 357, 247-252	2.5	129
466	Luminescent sensing and imaging of oxygen: fierce competition to the Clark electrode. <i>BioEssays</i> , 2015 , 37, 921-8	4.1	125
465	Fast Response Oxygen Micro-Optodes Based on Novel Soluble Ormosil Glasses. <i>Mikrochimica Acta</i> , 1999 , 131, 35-46	5.8	124
464	Arenedicarboximide Building Blocks for Fluorescent Photoinduced Electron Transfer pH Sensors Applicable with Different Media and Communication Wavelengths. <i>Chemistry - A European Journal</i> , 1998 , 4, 1810-1815	4.8	123
463	Sol-gel based glucose biosensors employing optical oxygen transducers, and a method for compensating for variable oxygen background. <i>Biosensors and Bioelectronics</i> , 2000 , 15, 69-76	11.8	121
462	Impedometric herbicide chemosensors based on molecularly imprinted polymers. <i>Analytica Chimica Acta</i> , 2001 , 435, 157-162	6.6	118
461	Effects of Polymer Matrixes on the Time-Resolved Luminescence of a Ruthenium Complex Quenched by Oxygen. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 3162-3167		118
460	Optical Sensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2004 ,	2	117
459	Laser-Scribed Graphene Electrodes for Aptamer-Based Biosensing. <i>ACS Sensors</i> , 2017 , 2, 616-620	9.2	115
458	Optical multiple chemical sensing: status and current challenges. <i>Analyst, The</i> , 2007 , 132, 507-11	5	115
457	Europium tetracycline as a luminescent probe for nucleoside phosphates and its application to the determination of kinase activity. <i>Chemistry - A European Journal</i> , 2007 , 13, 4342-9	4.8	114
456	Optical Sensing and Imaging of pH Values: Spectroscopies, Materials, and Applications. <i>Chemical Reviews</i> , 2020 , 120, 12357-12489	68.1	113
455	Exceptional Oxygen Sensing Capabilities and Triplet State Properties of Ir(ppy-NPh ₂) ₃ . <i>Chemistry of Materials</i> , 2009 , 21, 2173-2175	9.6	113
454	Fully reversible fibre-optic glucose biosensor based on the intrinsic fluorescence of glucose oxidase. <i>Analytica Chimica Acta</i> , 1989 , 221, 195-203	6.6	112
453	Fluorescence optical sensors for continuous determination of near-neutral pH values. <i>Sensors and Actuators</i> , 1986 , 9, 73-84		109
452	Fluorescence Analysis in Microarray Technology. <i>Mikrochimica Acta</i> , 2005 , 151, 1-21	5.8	108

451	Dual labeling of biomolecules by using click chemistry: a sequential approach. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 344-7	16.4	107
450	Synthesis, spectral properties, and detection limits of reactive squaraine dyes, a new class of diode laser compatible fluorescent protein labels. <i>Bioconjugate Chemistry</i> , 1999 , 10, 925-31	6.3	106
449	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
448	Upconverting nanoparticle based optical sensor for carbon dioxide. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 126-131	8.5	104
447	Optical sensor for continuous determination of halides. <i>Analytical Chemistry</i> , 1984 , 56, 427-429	7.8	104
446	Composite Films of Prussian Blue and N-Substituted Polypyrroles: Fabrication and Application to Optical Determination of pH. <i>Analytical Chemistry</i> , 1998 , 70, 2544-50	7.8	103
445	Simultaneous photographing of oxygen and pH in vivo using sensor films. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10893-6	16.4	101
444	Fiber optical fluorosensor for determination of halothane and or oxygen. <i>Analytical Chemistry</i> , 1985 , 57, 2556-2561	7.8	101
443	Multiplex bacterial growth monitoring in 24-well microplates using a dual optical sensor for dissolved oxygen and pH. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 430-8	4.9	100
442	Fluorescent pH-sensitive nanoparticles in an agarose matrix for imaging of bacterial growth and metabolism. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 406-9	16.4	99
441	Chameleon labels for staining and quantifying proteins. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5400-2	16.4	99
440	Cross-reactive metal ion sensor array in a micro titer plate format. <i>Analytical Chemistry</i> , 2003 , 75, 4389-96.8	9.8	99
439	Capacitive Creatinine Sensor Based on a Photografted Molecularly Imprinted Polymer. <i>Electroanalysis</i> , 2002 , 14, 221	3	96
438	Fiber-Optic Chemical Sensors and Biosensors (2015-2019). <i>Analytical Chemistry</i> , 2020 , 92, 397-430	7.8	96
437	Fluorescent pH sensors with negligible sensitivity to ionic strength. <i>Analyst, The</i> , 2004 , 129, 645-50	5	95
436	Mapping of the total fluorescence of human blood serum as a new method for its characterization. <i>Analytica Chimica Acta</i> , 1985 , 167, 203-215	6.6	95
435	Fiber-optic microsensors for simultaneous sensing of oxygen and pH, and of oxygen and temperature. <i>Analytical Chemistry</i> , 2007 , 79, 8486-93	7.8	94
434	Temperature-Sensitive Luminescent Nanoparticles and Films Based on a Terbium (III) Complex Probe. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12642-12648	3.8	93

433	A spreader-bar approach to molecular architecture: formation of stable artificial chemoreceptors. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 1108-10	16.4	93
432	Optical sensor for seawater salinity. <i>Fresenius Journal of Analytical Chemistry</i> , 2000 , 368, 196-202		92
431	A Polyaniline with Near-Infrared Optical Response to Saccharides. <i>Advanced Materials</i> , 1999 , 11, 865-868	24	92
430	Deposition of nanomaterials: A crucial step in biosensor fabrication. <i>Materials Today Communications</i> , 2018 , 17, 289-321	2.5	92
429	Luminescent dual sensors reveal extracellular pH-gradients and hypoxia on chronic wounds that disrupt epidermal repair. <i>Theranostics</i> , 2014 , 4, 721-35	12.1	91
428	Self-referenced RGB colour imaging of intracellular oxygen. <i>Chemical Science</i> , 2011 , 2, 901	9.4	91
427	Optical sensors. Part 34. Fibre optic glucose biosensor with an oxygen optrode as the transducer. <i>Analyst, The</i> , 1988 , 113, 1519-23	5	91
426	Cell-type specific protoporphyrin IX metabolism in human bladder cancer in vitro. <i>Photochemistry and Photobiology</i> , 2000 , 72, 226-33	3.6	90
425	New highly fluorescent ketocyanine polarity probes. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1991 , 47, 187-192		89
424	Phenol/phenolate-dependent on/off switching of the luminescence of 4,4-difluoro-4-bora-3a,4a-diaza-s-indacenes. <i>Chemical Communications</i> , 1997 , 1717-1718	5.8	88
423	Dual lifetime referencing as applied to a chloride optical sensor. <i>Analytical Chemistry</i> , 2001 , 73, 2097-103	7.8	88
422	Comparison of a nucleosidic vs non-nucleosidic postsynthetic "click" modification of DNA with base-labile fluorescent probes. <i>Bioconjugate Chemistry</i> , 2009 , 20, 558-64	6.3	87
421	Optical triple sensor for measuring pH, oxygen and carbon dioxide. <i>Journal of Biotechnology</i> , 1994 , 32, 127-38	3.7	87
420	An optical thermometer based on the delayed fluorescence of C70. <i>Chemistry - A European Journal</i> , 2007 , 13, 3643-51	4.8	86
419	Composite Material for Simultaneous and Contactless Luminescent Sensing and Imaging of Oxygen and Carbon Dioxide. <i>Advanced Materials</i> , 2006 , 18, 1511-1516	24	86
418	Multicolor Fluorescent and Permeation-Selective Microbeads Enable Simultaneous Sensing of pH, Oxygen, and Temperature. <i>Advanced Materials</i> , 2009 , 21, 2216-2220	24	85
417	Dual lifetime referenced optical sensor membrane for the determination of copper(II) ions. <i>Analytica Chimica Acta</i> , 2002 , 462, 1-10	6.6	85
416	Optical sensors: An ion-selective optrode for potassium. <i>Analytica Chimica Acta</i> , 1987 , 198, 1-12	6.6	85

415	Optical sensing of the ionic strength using photonic crystals in a hydrogel matrix. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 173-8	9.5	84
414	Red- and green-emitting iridium(III) complexes for a dual barometric and temperature-sensitive paint. <i>Chemistry - A European Journal</i> , 2009 , 15, 10857-63	4.8	84
413	Microsecond lifetime-based optical carbon dioxide sensor using luminescence resonance energy transfer. <i>Analytica Chimica Acta</i> , 1999 , 382, 67-75	6.6	84
412	Chromogenic sensing of biogenic amines using a chameleon probe and the red-green-blue readout of digital camera images. <i>Analytical Chemistry</i> , 2010 , 82, 8402-5	7.8	82
411	Quenching of the luminescence of upconverting luminescent nanoparticles by heavy metal ions. <i>Chemistry - A European Journal</i> , 2011 , 17, 14611-7	4.8	81
410	Multicolor upconversion nanoparticles for protein conjugation. <i>Theranostics</i> , 2013 , 3, 239-48	12.1	80
409	Albumin blue 580 fluorescence assay for albumin. <i>Analytical Biochemistry</i> , 1997 , 248, 180-2	3.1	80
408	Optical sensing and imaging of trace oxygen with record response. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 2317-9	16.4	80
407	Optical sensing of pH based on polypyrrole films. <i>Analytica Chimica Acta</i> , 1996 , 334, 149-153	6.6	80
406	Dependence of the fluorescence of immobilized 1-hydroxypyrene-3,6,8-trisulfonate on solution pH: Extension of the range of applicability of a pH fluorosensor. <i>Analytica Chimica Acta</i> , 1995 , 304, 165-170	6.6	80
405	ET(33), a solvatochromic polarity and micellar probe for neutral aqueous solutions. <i>Chemistry and Physics of Lipids</i> , 1989 , 50, 51-56	3.7	80
404	Fibre-optic fluorescing sensor for ammonia. <i>Analytica Chimica Acta</i> , 1986 , 185, 321-327	6.6	80
403	Indicator-Loaded Permeation-Selective Microbeads for Use in Fiber Optic Simultaneous Sensing of pH and Dissolved Oxygen. <i>Chemistry of Materials</i> , 2006 , 18, 4609-4616	9.6	78
402	Fiberoptic Oxygen Sensor Based on Fluorescence Quenching and Energy Transfer. <i>Applied Spectroscopy</i> , 1988 , 42, 1009-1011	3.1	78
401	Fluorescent Beads Coated with Polyaniline: A Novel Nanomaterial for Optical Sensing of pH. <i>Advanced Materials</i> , 2001 , 13, 819-822	24	77
400	A new sensing material for optical oxygen measurement, with the indicator embedded in an aqueous phase. <i>Mikrochimica Acta</i> , 1986 , 90, 359-366	5.8	77
399	Capillary Optical Sensors. <i>Analytical Chemistry</i> , 1994 , 66, 3323-3327	7.8	76
398	Microalbuminuria and borderline-increased albumin excretion determined with a centrifugal analyzer and the Albumin Blue 580 fluorescence assay. <i>Clinical Chemistry</i> , 1997 , 43, 996-1002	5.5	76

397	Fluorescent imaging of citrate and other intermediates in the citric Acid cycle. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1735-8	16.4	75
396	Strategies To Design pH Optodes with Luminescence Decay Times in the Microsecond Time Regime. <i>Analytical Chemistry</i> , 1998 , 70, 3892-3897	7.8	74
395	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
394	The total fluorescence of human urine. <i>Analytica Chimica Acta</i> , 1987 , 198, 13-23	6.6	74
393	Optical sensing scheme for carbon dioxide using a solvatochromic probe. <i>Analytical Chemistry</i> , 2011 , 83, 2846-51	7.8	73
392	Novel oxygen sensor material based on a ruthenium bipyridyl complex encapsulated in zeolite Y: dramatic differences in the efficiency of luminescence quenching by oxygen on going from surface-adsorbed to zeolite-encapsulated fluorophores. <i>Sensors and Actuators B: Chemical</i> , 1995 , 26, 219-227	8.5	73
391	Absorption and Fluorescence Spectra, pKa Values, and Fluorescence Lifetimes of Monohydroxyflavones and Monomethoxyflavones. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1984 , 88, 759-767		72
390	Luminescent chemical sensing, biosensing, and screening using upconverting nanoparticles. <i>Topics in Current Chemistry</i> , 2011 , 300, 29-50		71
389	Photographing oxygen distribution. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4907-9	16.4	71
388	Novel optical pH-sensor based on a boradiaza-indacene derivative. <i>Fresenius Journal of Analytical Chemistry</i> , 1997 , 359, 150-154		71
387	Reversible Optical Sensor Membrane for Hydrogen Peroxide Using an Immobilized Fluorescent Probe, and its Application to a Glucose Biosensor. <i>Mikrochimica Acta</i> , 2003 , 143, 221-227	5.8	70
386	Fluorescence imaging of the activity of glucose oxidase using a hydrogen-peroxide-sensitive europium probe. <i>Analytical Biochemistry</i> , 2005 , 340, 66-73	3.1	69
385	LED-compatible fluorosensor for measurement of near-neutral pH values. <i>Mikrochimica Acta</i> , 1992 , 108, 133-141	5.8	69
384	Disposable cuvette test with integrated sensor layer for enzymatic determination of heavy metals. <i>Biosensors and Bioelectronics</i> , 1996 , 11, 981-990	11.8	68
383	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
382	Nanoparticle-enhanced fluorescence imaging of latent fingerprints reveals drug abuse. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2268-9	16.4	66
381	Fiber-optic fluorescence carbon dioxide sensor for environmental monitoring. <i>Mikrochimica Acta</i> , 1998 , 129, 181-188	5.8	66
380	Effects of light fractionation and different fluence rates on photodynamic therapy with 5-aminolaevulinic acid in vivo. <i>British Journal of Cancer</i> , 2003 , 88, 1462-9	8.7	66

- 379 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. *Talanta*, **1998**, 47, 595-604 6.2 65
- 378 Detection of Hydrogen Peroxide in River Water via a Microplate Luminescence Assay with Time-Resolved (Gated) Detection. *Mikrochimica Acta*, **2003**, 143, 269-274 5.8 65
- 377 New hydrophobic materials for optical carbon dioxide sensors based on ion pairing. *Analytica Chimica Acta*, **1995**, 302, 249-254 6.6 65
- 376 Fluorescence-based sensor membrane for mercury (II) detection. *Sensors and Actuators B: Chemical*, **1997**, 39, 246-251 8.5 64
- 375 Characterisation of an optical sensor membrane based on the metal ion indicator Pyrocatechol Violet. *Sensors and Actuators B: Chemical*, **2003**, 90, 230-235 8.5 64
- 374 Fiber-optic remote detection of pesticides and related inhibitors of the enzyme acetylcholine esterase. *Sensors and Actuators B: Chemical*, **1993**, 11, 87-93 8.5 63
- 373 pH-dependent fluorescence spectroscopy XVII: First excited singlet state dissociation constants, photoautomerism and dual fluorescence of flavonol. *Journal of Photochemistry and Photobiology*, **1983**, 21, 67-79 63
- 372 Optical Carbon Dioxide Sensors Based on Silicone-Encapsulated Room-Temperature Ionic Liquids. *Chemistry of Materials*, **2007**, 19, 6187-6194 9.6 62
- 371 Characterization of microtiterplates with integrated optical sensors for oxygen and pH, and their applications to enzyme activity screening, respirometry, and toxicological assays. *Sensors and Actuators B: Chemical*, **2006**, 113, 639-648 8.5 62
- 370 In vivo phosphorescence imaging of pO₂ using planar oxygen sensors. *Microcirculation*, **2005**, 12, 477-87 2.9 62
- 369 Optical sensor for the pH 10⁻¹³ range using a new support material. *Fresenius Journal of Analytical Chemistry*, **1993**, 346, 564-568 62
- 368 Fibre-optic glucose sensor with a pH optrode as the transducer. *Biosensors*, **1989**, 4, 15-26 62
- 367 Clickable fluorophores for biological labeling--with or without copper. *Organic and Biomolecular Chemistry*, **2009**, 7, 3486-90 3.9 61
- 366 Determination of the activity of catalase using a europium(III)-tetracycline-derived fluorescent substrate. *Analytical Biochemistry*, **2003**, 320, 129-35 3.1 60
- 365 Optimization of capacitive affinity sensors: drift suppression and signal amplification. *Analytica Chimica Acta*, **1999**, 392, 77-84 6.6 60
- 364 Referenced luminescent sensing and imaging with digital color cameras: A comparative study. *Sensors and Actuators B: Chemical*, **2013**, 177, 500-506 8.5 59
- 363 A near-infrared fluorescent probe for monitoring tyrosinase activity. *Chemical Communications*, **2010**, 46, 2560-2 5.8 59
- 362 Fluorescent silica nanoparticles. *Annals of the New York Academy of Sciences*, **2008**, 1130, 218-23 6.5 59

361	Red laser-induced fluorescence energy transfer in an immunosystem. <i>Analytical Biochemistry</i> , 2000 , 280, 272-7	3.1	59
360	Ammonia-sensitive polymer matrix employing immobilized indicator ion pairs. <i>Analyst, The</i> , 1995 , 120, 1627	5	59
359	Optical sensors, 13: fibre-optic humidity sensor based on fluorescence quenching. <i>Sensors and Actuators</i> , 1988 , 15, 77-83		59
358	Sensing and imaging of oxygen with parts per billion limits of detection and based on the quenching of the delayed fluorescence of (13)C70 fullerene in polymer hosts. <i>Analytical Chemistry</i> , 2013 , 85, 1300-4	7.8	58
357	Surface-modified upconverting microparticles and nanoparticles for use in click chemistries. <i>Chemistry - A European Journal</i> , 2010 , 16, 5416-24	4.8	58
356	A highly K(+)-selective phenylaza-[18]crown-6-lariat-ether-based fluoroionophore and its application in the sensing of K+ ions with an optical sensor film and in cells. <i>Chemistry - A European Journal</i> , 2013 , 19, 14911-7	4.8	57
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