

PD Dr Axel Duerkop

List of Publications by Year in descending order

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67
papers

1,902
citations

293460

24
h-index

299063

42
g-index

69
all docs

69
docs citations

69
times ranked

3125
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical methods for sensing glucose. <i>Chemical Society Reviews</i> , 2011, 40, 4805.	18.7	431
2	Electrochemiluminescence Bioassays with a Water-Soluble Luminol Derivative Can Outperform Fluorescence Assays. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 408-411.	7.2	109
3	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, 8402-8405.	3.2	99
4	Detection of nanomolar concentrations of copper(II) with a Tb-quinoline-2-one probe using luminescence quenching or luminescence decay time. <i>Analytica Chimica Acta</i> , 2009, 644, 53-60.	2.6	60
5	Optical sensors for determination of biogenic amines in food. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4023-4036.	1.9	60
6	Determination of picomolar concentrations of proteins using novel amino reactive chameleon labels and capillary electrophoresis laser-induced fluorescence detection. <i>Electrophoresis</i> , 2005, 26, 2208-2213.	1.3	55
7	Novel type of general protein assay using a chromogenic and fluorogenic amine-reactive probe. <i>Analytical Biochemistry</i> , 2005, 344, 122-129.	1.1	51
8	Determination of biogenic amines by capillary electrophoresis using a chameleon type of fluorescent stain. <i>Mikrochimica Acta</i> , 2009, 167, 259-266.	2.5	47
9	Design, selective alkylation and X-ray crystal structure determination of dihydro-indolyl-1,2,4-triazole-3-thione and its 3-benzylsulfanyl analogue as potent anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2017, 125, 360-371.	2.6	47
10	Microtiter plate assay for phosphate using a europium-tetracycline complex as a sensitive luminescent probe. <i>Analytica Chimica Acta</i> , 2006, 555, 292-298.	2.6	45
11	Nanocontainers for Analytical Applications. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12840-12860.	7.2	45
12	Electrochemical multi-analyte point-of-care perspiration sensors using on-chip three-dimensional graphene electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 763-777.	1.9	37
13	Enzyme-Based Test Strips for Visual or Photographic Detection and Quantitation of Gaseous Sulfur Mustard. <i>Analytical Chemistry</i> , 2016, 88, 6044-6049.	3.2	36
14	Fluorescence and Electrochemical Sensing of Pesticides Methomyl, Aldicarb and Prometryne by the Luminescent Europium-3-Carboxycoumarin Probe. <i>Journal of Fluorescence</i> , 2012, 22, 659-676.	1.3	35
15	Functional electrospun nanofibers for multimodal sensitive detection of biogenic amines in food via a simple dipstick assay. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1111-1121.	1.9	34
16	Time-Resolved Fluorescence-Based Assay for the Determination of Alkaline Phosphatase Activity and Application to the Screening of Its Inhibitors. <i>Journal of Biomolecular Screening</i> , 2008, 13, 9-16.	2.6	33
17	A Resonance Energy Transfer Immunoassay Based on a Thiol-Reactive Ruthenium Donor Dye and a Longwave-Emitting Acceptor. <i>ChemBioChem</i> , 2007, 8, 122-128.	1.3	31
18	Luminescence recognition of different organophosphorus pesticides by the luminescent Eu(III)-pyridine-2,6-dicarboxylic acid probe. <i>Analytica Chimica Acta</i> , 2013, 759, 81-91.	2.6	31

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19	New Nanomaterials and Luminescent Optical Sensors for Detection of Hydrogen Peroxide. <i>Chemosensors</i> , 2015, 3, 253-273.	1.8	29
20	Determination of citrate in tablets and of oxytetracycline in serum using europium (III) luminescence. <i>Microchemical Journal</i> , 2006, 83, 1-6.	2.3	28
21	SDS-PAGE of Proteins Using a Chameleon-Type of Fluorescent Prestain. <i>Analytical Chemistry</i> , 2008, 80, 6274-6279.	3.2	28
22	Renal Fanconi Syndrome Is Caused by a Mistargeting-Based Mitochondriopathy. <i>Cell Reports</i> , 2016, 15, 1423-1429.	2.9	27
23	Food Safety Analysis Enabled through Biological and Synthetic Materials: A Critical Review of Current Trends. <i>Analytical Chemistry</i> , 2019, 91, 569-587.	3.2	27
24	High-throughput sensing microtiter plate for determination of biogenic amines in seafood using fluorescence or eye-vision. <i>Analyst, The</i> , 2011, 136, 4492.	1.7	26
25	Sensitive luminescent determination of DNA using the terbium(III)–difloxacin complex. <i>Analytica Chimica Acta</i> , 2007, 584, 260-267.	2.6	25
26	A New Fluorescent PET Probe for Hydrogen Peroxide and its Use in Enzymatic Assays for Lactate and D-Glucose. <i>ChemBioChem</i> , 2011, 12, 2779-2785.	1.3	24
27	Dipsticks and sensor microtiterplate for determination of copper (II) in drinking water using reflectometric RGB readout of digital images, fluorescence or eye-vision. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 878-884.	4.0	23
28	A novel luminescent terbium-3-carboxycoumarin probe for time-resolved fluorescence sensing of pesticides methomyl, aldicarb and prometryne. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 915-922.	2.0	21
29	Intrinsically Referenced Fluorimetric Sensing and Detection Schemes: Methods, Advantages and Applications. <i>Springer Series on Fluorescence</i> , 2008, , 373-414.	0.8	20
30	Reactivity of a luminescent –on–pyrylium dye toward various classes of amines and its use in a fluorescence sensor microtiter plate for environmental samples. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 243, 41-46.	2.0	20
31	New luminescent terbium complex for the determination of DNA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 109-116.	2.0	19
32	Novel multicolor fluorescently labeled silica nanoparticles for interface fluorescence resonance energy transfer to and from labeled avidin. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1615-1623.	1.9	19
33	Strong emission increase of a dicarboxyterpyridene europium (III) complex in the presence of citrate and hydrogen peroxide. <i>Inorganica Chimica Acta</i> , 2005, 358, 2445-2448.	1.2	17
34	A Fluorescent Probe for Diacetyl Detection. <i>Journal of Fluorescence</i> , 2009, 19, 601-606.	1.3	17
35	Elektrochemilumineszenz–Bioassays k–nnen Fluoreszenzassays mithilfe eines wasserl–lichen Luminolderivats –bertreffen. <i>Angewandte Chemie</i> , 2018, 130, 414-418.	1.6	17
36	Signal enhancement and low oxidation potentials for miniaturized ECL biosensors via N-butyl-diethanolamine. <i>Analyst, The</i> , 2017, 142, 2469-2474.	1.7	16

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37	Improving ruthenium-based ECL through nonionic surfactants and tertiary amines. <i>Analyst, The</i> , 2017, 142, 2648-2653.	1.7	14
38	Reusable optical sensing microplate for hydrogen peroxide using a fluorescent photoinduced electron transfer probe (HP Green). <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 799-805.	4.0	13
39	Embedded nanolamps in electrospun nanofibers enabling online monitoring and ratiometric measurements. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9712-9720.	2.7	13
40	Validation of a Fluorescence Sensor Microtiterplate for Biogenic Amines in Meat and Cheese. <i>Journal of Fluorescence</i> , 2016, 26, 1905-1916.	1.3	12
41	A luminescent europium complex for wide-range pH sensors and sensor microtiterplates. <i>Analyst, The</i> , 2018, 143, 3176-3183.	1.7	12
42	Magnetosomes for bioassays by merging fluorescent liposomes and magnetic nanoparticles: encapsulation and bilayer insertion strategies. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6295-6305.	1.9	12
43	Sensitive Terbium Probes for Luminescent Determination of both Alkaline Phosphatase and Codeine Phosphate. <i>Annals of the New York Academy of Sciences</i> , 2008, 1130, 172-178.	1.8	11
44	Luminescent ruthenium probe for the determination of acetyl phosphate in complex biological matrices. <i>Analyst, The</i> , 2011, 136, 148-154.	1.7	10
45	Regioselectivity of the alkylation of S-substituted 1,2,4-triazoles with dihaloalkanes. <i>Chemistry Central Journal</i> , 2016, 10, 22.	2.6	10
46	Highly sensitive interleukin 6 detection by employing commercially ready liposomes in an LFA format. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3231-3241.	1.9	10
47	Sensor and sensor microtiterplate with expanded pH detection range and their use in real samples. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126848.	4.0	9
48	Microtiterplate phosphate assay based on luminescence quenching of a terbium complex amenable to decay time detection. <i>Analytica Chimica Acta</i> , 2010, 675, 42-48.	2.6	8
49	Shedding Light on the Diversity of Surfactant Interactions with Luminol Electrochemiluminescence for Bioanalysis. <i>Analytical Chemistry</i> , 2019, 91, 13080-13087.	3.2	8
50	Nanocontainer in der Analytik. <i>Angewandte Chemie</i> , 2019, 131, 12970-12992.	1.6	8
51	Isoquinoline-based Eu(III) luminescent probes for citrate sensing in complex matrix. <i>Dalton Transactions</i> , 2021, 50, 4700-4712.	1.6	8
52	Next generation luminol derivative as powerful benchmark probe for chemiluminescence assays. <i>Analytica Chimica Acta</i> , 2021, 1188, 339161.	2.6	8
53	New luminescent ruthenium probes for detection of diacetyl. <i>Microchemical Journal</i> , 2013, 108, 156-160.	2.3	7
54	A new synthetic access to 2-(glycosyl)thiosemicarbazides from 3-(glycosyl)oxadiazolinethiones and the regioselectivity of the glycosylation of their oxadiazolinethione precursors. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 135-146.	1.3	6

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55	An efficient post-doping strategy creating electrospun conductive nanofibers with multi-functionalities for biomedical applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9316-9325.	2.7	6
56	Cationic liposomes for generic signal amplification strategies in bioassays. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3383-3393.	1.9	6
57	Optical pH Sensing in Milk: A Small Puzzle of Indicator Concentrations and the Best Detection Method. <i>Chemosensors</i> , 2021, 9, 177.	1.8	5
58	Glucose Sensing and Glucose Determination Using Fluorescent Probes and Molecular Receptors. , 2006, , 351-375.		4
59	Tethering functionality to lipid interfaces by a fast, simple and controllable post synthesis method. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 325-332.	2.5	4
60	Dipsticks with Reflectometric Readout of an NIR Dye for Determination of Biogenic Amines. <i>Chemosensors</i> , 2020, 8, 99.	1.8	4
61	Synthesis and Regioselectivity in the Alkylation of 1,3,4-oxadiazolethiones with Dihaloalkanes and Epichlorohydrin. <i>Journal of Heterocyclic Chemistry</i> , 2017, 54, 95-101.	1.4	3
62	Frontispiz: Elektrochemilumineszenz-Bioassays können Fluoreszenzassays mithilfe eines wasserlöslichen Luminolderivats überbieten. <i>Angewandte Chemie</i> , 2018, 130, .	1.6	1
63	En konjunkturbetraktelse. <i>Ekonomisk Tidskrift</i> , 1946, 48, 109.	0.0	0
64	<title>Novel europium-tetracycline probe for phosphate determination in microtiter plate</title>. , 2006, , .		0
65	A fluorescence diagnostic system detecting cancer-specific enzymatic activities: preliminary results. , 2009, , .		0
66	Intramolecular photoinduced electron transfer of fluorescent probes based on 1,8-naphthalimide and aniline derivatives. , 2015, , .		0
67	Frontispiece: Electrochemiluminescence Bioassays with a Water-Soluble Luminol Derivative Can Outperform Fluorescence Assays. <i>Angewandte Chemie - International Edition</i> , 2018, 57, .	7.2	0