

# Biyang Deng

## List of Publications by Year in descending order

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63  
papers

1,867  
citations

201575  
27  
h-index

302012  
39  
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64  
all docs

64  
docs citations

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times ranked

1722  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Carbon Quantum Dots Signal Amplification Strategy Coupled with Sandwich Electrochemiluminescence Immunosensor for the Detection of CA15-3 in Human Serum. <i>ACS Sensors</i> , 2019, 4, 504-512.	4.0	92
2	A novel ECL sensor based on a boronate affinity molecular imprinting technique and functionalized SiO <sub>2</sub> @CQDs/AuNPs/MPBA nanocomposites for sensitive determination of alpha-fetoprotein. <i>Biosensors and Bioelectronics</i> , 2019, 126, 558-564.	5.3	92
3	Ginkgo leaf-based synthesis of nitrogen-doped carbon quantum dots for highly sensitive detection of salazosulfapyridine in mouse plasma. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 164, 514-519.	1.4	83
4	Facile Preparation of Boron and Nitrogen Codoped Green Emission Carbon Quantum Dots for Detection of Permanganate and Captopril. <i>Analytical Chemistry</i> , 2019, 91, 11455-11460.	3.2	79
5	A highly efficient introduction system for single cell- ICP-MS and its application to detection of copper in single human red blood cells. <i>Talanta</i> , 2020, 206, 120174.	2.9	73
6	Pharmacokinetics and residues of tetracycline in crucian carp muscle using capillary electrophoresis on-line coupled with electrochemiluminescence detection. <i>Food Chemistry</i> , 2012, 134, 2350-2354.	4.2	72
7	Determination of norfloxacin in human urine by capillary electrophoresis with electrochemiluminescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1336-1341.	1.9	59
8	Speciation of inorganic selenium using capillary electrophoresis-inductively coupled plasma-atomic emission spectrometry with on-line hydride generation. <i>Analytica Chimica Acta</i> , 2007, 583, 92-97.	2.6	58
9	A sensitive electrochemiluminescence biosensor based on metal-organic framework and imprinted polymer for squamous cell carcinoma antigen detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127852.	4.0	49
10	Sensitive detection of hydroquinone based on electrochemiluminescence energy transfer between the excited ZnSe quantum dots and benzoquinone. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 784-792.	4.0	45
11	Spatially-resolved dual-potential sandwich electrochemiluminescence immunosensor for the simultaneous determination of carbohydrate antigen 19â€”9 and carbohydrate antigen 24-2. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113024.	5.3	45
12	Determination of ultra-trace formaldehyde in air using ammonium sulfate as derivatization reagent and capillary electrophoresis coupled with on-line electrochemiluminescence detection. <i>Talanta</i> , 2012, 91, 128-133.	2.9	43
13	Determination of Free Calcium and Calcium-Containing Species in Human Plasma by Capillary Electrophoresis-Inductively Coupled Plasma Optical Emission Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 5721-5726.	3.2	42
14	One step hydrothermal synthesis of nitrogen-doped graphitic quantum dots as a fluorescent sensing strategy for highly sensitive detection of metacycline in mice plasma. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 256-264.	4.0	41
15	Based on ZnSe quantum dots labeling and single particle mode ICP-MS coupled with sandwich magnetic immunoassay for the detection of carcinoembryonic antigen in human serum. <i>Analytica Chimica Acta</i> , 2018, 1028, 22-31.	2.6	37
16	An ultrasensitive electrochemiluminescence sensor based on reduced graphene oxide-copper sulfide composite coupled with capillary electrophoresis for determination of amlodipine besylate in mice plasma. <i>Biosensors and Bioelectronics</i> , 2016, 86, 714-719.	5.3	36
17	Simultaneous determination of chlortetracycline, ampicillin and sarafloxacin in milk using capillary electrophoresis with electrochemiluminescence detection. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2017, 34, 24-31.	1.1	36
18	Facile Syntheses of S,N-Codoped Carbon Quantum Dots and Their Applications to a Novel Offâ€”On Nanoprobe for Detection of 6-Thioguanine and Its Bioimaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16112-16120.	3.2	36

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19	Boron nitride quantum dots as electrochemiluminescence coreactants of rGO@Au@Ru@SiO <sub>2</sub> for label-free detection of AFP in human serum. <i>Electrochimica Acta</i> , 2020, 335, 135621.	2.6	34
20	Selenium speciation using capillary electrophoresis coupled with modified electrothermal atomic absorption spectrometry after selective extraction with 5-sulfosalicylic acid functionalized magnetic nanoparticles. <i>Journal of Chromatography A</i> , 2015, 1395, 173-179.	1.8	33
21	Design of a Dual-Wavelength Ratiometric Electrochemiluminescence Immunosensor for Sensitive Detection of Amyloid- $\beta$ Protein in Human Serum. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7541-7549.	3.2	33
22	An environmentally-friendly, highly efficient, gas pressure-assisted sample introduction system for ICP-MS and its application to detection of cadmium and lead in human plasma. <i>Talanta</i> , 2017, 167, 520-525.	2.9	32
23	N-doped carbon quantum dots from osmanthus fragrans as a novel off-on fluorescent nanosensor for highly sensitive detection of quercetin and aluminium ion, and cell imaging. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 192, 113673.	1.4	32
24	An electrochemiluminescence immunosensor based on ZnSe@ZnS QDs composite for CEA detection in human serum. <i>Journal of Electroanalytical Chemistry</i> , 2019, 844, 132-141.	1.9	31
25	Determination of erythromycin in rat plasma with capillary electrophoresis-electrochemiluminescence detection of tris(2,2'-bipyridyl) ruthenium(II). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 857, 136-141.	1.2	30
26	Determination of pseudolycorine in the bulb of lycoris radiata by capillary electrophoresis combined with online electrochemiluminescence using ultrasonic-assisted extraction. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 927-932.	1.2	30
27	Study of the binding equilibrium between Zn(II) and HSA by capillary electrophoresis-inductively coupled plasma optical emission spectrometry. <i>Analytica Chimica Acta</i> , 2010, 683, 58-62.	2.6	29
28	Simple interface for capillary electrophoresis-inductively coupled plasma atomic emission spectrometry. <i>Journal of Chromatography A</i> , 2000, 891, 139-148.	1.8	27
29	Cold vapor generation interface for mercury speciation coupling capillary electrophoresis with electrothermal quartz tube furnace atomic absorption spectrometry: Determination of mercury and methylmercury. <i>Talanta</i> , 2009, 79, 1265-1269.	2.9	25
30	Ultrasonic microdialysis coupled with capillary electrophoresis electrochemiluminescence study the interaction between trimetazidine dihydrochloride and human serum albumin. <i>Analytica Chimica Acta</i> , 2014, 851, 37-42.	2.6	25
31	Aggregation-induced electrochemiluminescence resonance energy transfer with dual quenchers for the sensitive detection of prostate-specific antigen. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132176.	4.0	25
32	Electrochemiluminescence immunoassay of human chorionic gonadotropin using silver carbon quantum dots and functionalized polymer nanospheres. <i>Mikrochimica Acta</i> , 2020, 187, 482.	2.5	23
33	Determination of josamycin in rat plasma by capillary electrophoresis coupled with post-column electrochemiluminescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 859, 125-130.	1.2	22
34	Speciation of magnesium in rat plasma using capillary electrophoresis-inductively coupled plasma-atomic emission spectrometry. <i>Electrophoresis</i> , 2008, 29, 1534-1539.	1.3	22
35	Based on reduced graphene oxide-copper sulfide-carbon nitride nanosheets composite electrochemiluminescence sensor for determination of gatifloxacin in mouse plasma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 378-385.	2.5	22
36	Detection of three tumor biomarkers in human lung cancer serum using single particle inductively coupled plasma mass spectrometry combined with magnetic immunoassay. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 166, 105797.	1.5	22

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37	Determination of metformin hydrochloride using precolumn derivatization with acetaldehyde and capillary electrophoresis coupled with electrochemiluminescence. <i>Luminescence</i> , 2011, 26, 592-597.	1.5	21
38	Metal speciation using capillary electrophoresis - inductively coupled plasma atomic emission spectrometry and polytetrafluoroethylene capillaries. <i>Electrophoresis</i> , 2001, 22, 2186-2191.	1.3	20
39	Determination of the number of binding sites and binding constant between diltiazem hydrochloride and human serum albumin by ultrasonic microdialysis coupled with online capillary electrophoresis electrochemiluminescence. <i>Journal of Chromatography A</i> , 2010, 1217, 4753-4756.	1.8	20
40	Pharmacokinetics of amoxicillin in human urine using online coupled capillary electrophoresis with electrogenerated chemiluminescence detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 1249-1253.	1.4	19
41	Facile synthesis of bright yellow fluorescent nitrogen-doped carbon quantum dots and their applications to an offâ€œon probe for highly sensitive detection of methimazole. <i>Microchemical Journal</i> , 2021, 168, 106480.	2.3	19
42	Understanding the effects of potassium ferricyanide on lead hydride formation in tetrahydroborate system and its application for determination of lead in milk using hydride generation inductively coupled plasma optical emission spectrometry. <i>Analytica Chimica Acta</i> , 2015, 853, 179-186.	2.6	18
43	A novel electrochemiluminescence sensor coupled with capillary electrophoresis for simultaneous determination of quinapril hydrochloride and its metabolite quinaprilat hydrochloride in human plasma. <i>Talanta</i> , 2018, 179, 213-220.	2.9	18
44	Pharmacokinetics of pefloxacin mesylate in human urine using capillary electrophoresis electrochemiluminescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 2585-2588.	1.2	17
45	Simultaneous electrochemiluminescence determination of galanthamine, homolycorine, lycorenine, and tazettine in Lycoris radiata by capillary electrophoresis with ultrasonic-assisted extraction. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1055-1056, 15-19.	1.2	16
46	High Quantum Yield Boron and Nitrogen Codoped Carbon Quantum Dots with Red/Purple Emissions for Ratiometric Fluorescent IO <sub>4</sub> <sup>â€œ</sup> Sensing and Cell Imaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5195-5202.	3.2	16
47	Cathodic electrochemiluminescence based on resonance energy transfer between sulfur quantum dots and dopamine quinone for the detection of dopamine. <i>Microchemical Journal</i> , 2022, 181, 107776.	2.3	16
48	Determination of selenomethionine in selenium-enriched yeast using capillary electrophoresis on-line coupled with electrochemiluminescence detection. <i>Mikrochimica Acta</i> , 2009, 165, 279-283.	2.5	15
49	A potential-resolved electrochemiluminescence resonance energy transfer strategy for the simultaneous detection of neuron-specific enolase and the cytokeratin 19 fragment. <i>Analyst</i> , The, 2021, 146, 1334-1339.	1.7	15
50	Determination of galanthamine in Bulbus Lycoridis Radiatae by coupling capillary electrophoresis with endâ€œcolumn electrochemiluminescence detection. <i>Journal of Separation Science</i> , 2010, 33, 2356-2360.	1.3	14
51	Selenium speciation in radix puerariae using ultrasonic assisted extraction combined with reversed phase high performance liquid chromatography-inductively coupled plasma-mass spectrometry after magnetic solid-phase extraction with 5-sulfosalicylic acid functionalized magnetic nanoparticles. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 122, 172-177.	1.5	13
52	Interface of on line coupling capillary electrophoresis with hydride generation electrothermal atomic absorption spectrometry and its application to arsenic speciation in sediment. <i>Talanta</i> , 2013, 109, 128-132.	2.9	12
53	Selenium speciation in ginger using capillary electrophoresis online coupled with electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1889-1896.	1.6	12
54	Electrochemiluminescent immunoassay for neuron specific enolase by using amino-modified reduced graphene oxide loaded with N-doped carbon quantum dots. <i>Mikrochimica Acta</i> , 2019, 186, 817.	2.5	12

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55	Capillary electrophoresis with end-column electrochemiluminescence for ultrasensitive determination of urapidil hydrochloride in rat plasma and its application to pharmacokinetics study. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1006, 146-150.	1.2	11
56	Determination of the binding sites and binding constants between Pb(II) and DNA using capillary electrophoresis combined with electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 903-908.	1.6	10
57	Identification and analysis of calcium speciation in red blood cells by ultrasonic-dialysis capillary electrophoresis inductively coupled plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1859.	1.6	9
58	Determination of Selenium Species in Burdock and Panax Notoginseng Using Ultrasonic Assistant Extraction Combined with High Performance Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2015, 43, 1329-1334.	0.9	9
59	Pharmacokinetics of Propranolol Hydrochloride in Human Urine by Capillary Electrophoresis Coupled with Electrochemiluminescence. <i>Analytical Sciences</i> , 2011, 27, 55-59.	0.8	7
60	Response to "Comment on understanding the effects of potassium ferricyanide on lead hydride formation in tetrahydroborate system and its application of lead in milk using hydride generation inductively coupled plasma optical emission spectrometry" by Alessandro D'Ulivo. <i>Analytica Chimica Acta</i> , 2015, 884, 28.	2.6	7
61	Carbon quantum dots with blue/near infrared emissions for ratiometric fluorescent lornoxicam sensing and bio-imaging. <i>Mikrochimica Acta</i> , 2022, 189, 157.	2.5	4
62	Determination of Verapamil Hydrochloride and Norverapamil Hydrochloride in Rat Plasma by Capillary Electrophoresis With End-Column Electrochemiluminescence Detection and Their Pharmacokinetics Study. <i>Journal of Chromatographic Science</i> , 2021, 59, 289-296.	0.7	2
63	Ultrasonic-Dialysis Capillary Electrophoresis Inductively Coupled Plasma Optical Emission Spectrometry Analysis of Calcium Speciation in Red Blood Cells. <i>Food and Nutritional Components in Focus</i> , 2015, , 95-110.	0.1	0