

# J Galbajin Bernal

## List of Publications by Year in descending order

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107  
papers

1,773  
citations

279798

23  
h-index

361022

35  
g-index

108  
all docs

108  
docs citations

108  
times ranked

1747  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct determination of uric acid in serum by a fluorometric-enzymatic method based on uricase. <i>Talanta</i> , 2001, 54, 847-854.	5.5	109
2	Determination of Glucose in Blood Based on the Intrinsic Fluorescence of Glucose Oxidase. <i>Analytical Chemistry</i> , 1997, 69, 1471-1476.	6.5	66
3	Removal of Naphthalene, Phenanthrene, and Pyrene by Sorbents from Hot Gas. <i>Environmental Science &amp; Technology</i> , 2001, 35, 2395-2400.	10.0	61
4	An optical glucose biosensor based on derived glucose oxidase immobilised onto a sol-gel matrix. <i>Sensors and Actuators B: Chemical</i> , 1999, 57, 227-232.	7.8	59
5	The intrinsic fluorescence of FAD and its application in analytical chemistry: a review. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 042005.	2.3	57
6	Application of Molecular Absorption Properties of Horseradish Peroxidase for Self-Indicating Enzymatic Interactions and Analytical Methods. <i>Journal of the American Chemical Society</i> , 2005, 127, 1038-1048.	13.7	55
7	Study of a fluorometric-enzymatic method for bilirubin based on chemically modified bilirubin-oxidase and multivariate calibration. <i>Talanta</i> , 2002, 57, 343-353.	5.5	53
8	Sensor film for Vitamin C determination based on absorption properties of polyaniline. <i>Talanta</i> , 2005, 65, 1045-1051.	5.5	45
9	Direct determination of glucose in serum by fluorimetry using a labeled enzyme. <i>Analytica Chimica Acta</i> , 2000, 414, 33-41.	5.4	44
10	Spectrally Matched Upconverting Luminescent Nanoparticles for Monitoring Enzymatic Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15427-15433.	8.0	39
11	Polycyclic aromatic hydrocarbon emissions from fluidized bed combustion of coal. <i>Fuel</i> , 1995, 74, 1762-1766.	6.4	35
12	Fluorimetric enzymatic determination of glucose based on labelled glucose oxidase. <i>Analytica Chimica Acta</i> , 1998, 368, 97-104.	5.4	33
13	Fluorometric sensors based on chemically modified enzymes Glucose determination in drinks. <i>Talanta</i> , 2003, 60, 415-423.	5.5	33
14	Three-Ring PAH Removal from Waste Hot Gas by Sorbents: Influence of the Sorbent Characteristics. <i>Environmental Science &amp; Technology</i> , 2002, 36, 1821-1826.	10.0	32
15	Extraction-atomic-absorption spectrophotometric determination of lead by hydride generation in non-aqueous media. <i>Analyst</i> , The, 1984, 109, 713-715.	3.5	31
16	Intrinsic fluorescence of enzymes and fluorescence of chemically modified enzymes for analytical purposes: a review. <i>Luminescence</i> , 2001, 16, 199-210.	2.9	30
17	Fluorometric-enzymatic lactate determination based on enzyme cytochrome b2 fluorescence. <i>Analytical Chemistry</i> , 1993, 65, 3076-3080.	6.5	29
18	Direct glucose determination in blood using a reagentless optical biosensor. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2876-2883.	10.1	29

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19	A reagentless optical biosensor based on the intrinsic absorption properties of peroxidase. <i>Biosensors and Bioelectronics</i> , 2007, 22, 956-964.	10.1	27
20	Reagentless fluorescent biosensors based on proteins for continuous monitoring systems. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3039-3054.	3.7	27
21	Decay study of pesticide residues in apple samples. <i>Journal of Chromatography A</i> , 1996, 740, 146-150.	3.7	25
22	Enzymatic determination of ethanol based on the intrinsic fluorescence of alcohol dehydrogenase. <i>Analytica Chimica Acta</i> , 1997, 343, 117-123.	5.4	24
23	Reagentless system for sulphite determination based on polyaniline. <i>Analytica Chimica Acta</i> , 2004, 502, 7-13.	5.4	24
24	Enzyme-induced modulation of the emission of upconverting nanoparticles: Towards a new sensing scheme for glucose. <i>Biosensors and Bioelectronics</i> , 2014, 59, 14-20.	10.1	24
25	Gold nanocluster fluorescence as an indicator for optical enzymatic nanobiosensors: choline and acetylcholine determination. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 261-270.	7.8	23
26	Intrinsic Molecular Fluorescence of Lactate Dehydrogenase: an Analytical Alternative for Enzymic Determination of Pyruvate. <i>Analyst, The</i> , 1997, 122, 355-359.	3.5	21
27	Fluorescence detection by intensity changes for high-performance thin-layer chromatography separation of lipids using automated multiple development. <i>Journal of Chromatography A</i> , 2011, 1218, 2668-2675.	3.7	21
28	Simultaneous determination of inorganic arsenic(III) and arsenic(V) by arsine generation and gas-phase molecular absorption spectrometry. <i>Analytica Chimica Acta</i> , 1991, 255, 113-120.	5.4	20
29	Fluorometric enzymatic autoindicating biosensor for H <sub>2</sub> O <sub>2</sub> determination based on modified catalase. <i>Biosensors and Bioelectronics</i> , 2013, 41, 150-156.	10.1	20
30	Colorimetric-enzymatic determination of tyramine by generation of gold nanoparticles. <i>Mikrochimica Acta</i> , 2020, 187, 174.	5.0	20
31	Hydrogen peroxide and peracetic acid determination in waste water using a reversible reagentless biosensor. <i>Analytica Chimica Acta</i> , 2007, 583, 332-339.	5.4	19
32	Autoindicating optical properties of laccase as the base of an optical biosensor film for phenol determination. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 351-359.	3.7	19
33	Determination of selenium by hydride generation ultraviolet-visible molecular absorption spectrometry with diode-array detection. <i>Analyst, The</i> , 1988, 113, 1387-1391.	3.5	18
34	Choline determination based on the intrinsic and the extrinsic (chemically modified) fluorescence of choline oxidase. <i>Analytical Biochemistry</i> , 2004, 334, 207-215.	2.4	18
35	Potentiometric determination of metoclopramide using a double-membrane based ion-selective electrode. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 258, 295-302.	0.1	17
36	Study of the Adsorption of Polyaromatic Hydrocarbon Binary Mixtures on Carbon Materials by Gas-Phase Fluorescence Detection. <i>Energy &amp; Fuels</i> , 2003, 17, 669-676.	5.1	17

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37	Uric acid determination using uricase and the autotransducer molecular absorption properties of peroxidase. <i>Analytica Chimica Acta</i> , 2008, 607, 211-218.	5.4	16
38	Simultaneous determination of arsenic, antimony, selenium and tin by gas phase molecular absorption spectrometry after two step hydride generation and preconcentration in a cold trap system. <i>Talanta</i> , 1998, 46, 631-638.	5.5	15
39	Direct Fluorometric Determination of Total Cholesterol in Serum Using Derivatized Cholesterol Oxidase. <i>Applied Spectroscopy</i> , 2000, 54, 1157-1162.	2.2	15
40	Uncertainty in modern spectrophotometers. <i>Analytical Chemistry</i> , 2007, 79, 4763-4767.	6.5	15
41	A blood-assisted optical biosensor for automatic glucose determination. <i>Talanta</i> , 2009, 78, 846-851.	5.5	15
42	The environmental effect on the fluorescence intensity in solution. An analytical model. <i>Analyst</i> , The, 2009, 134, 2286.	3.5	15
43	Antimony determination by hydride generation and UV-visible molecular absorption spectrophotometry with diode-array detection. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1988, 330, 510-515.	0.8	14
44	Simultaneous determination of sulphide and sulphite by gas-phase molecular absorption spectrometry. Comparative study of different calculation methods. <i>Talanta</i> , 1995, 42, 937-943.	5.5	14
45	A Hyphenated Technique based on High-Performance Thin Layer Chromatography for Determining Neutral Sphingolipids: A Proof of Concept. <i>Chromatography (Basel)</i> , 2015, 2, 167-187.	1.2	13
46	A reagentless enzymatic fluorescent biosensor for glucose based on upconverting glasses, as excitation source, and chemically modified glucose oxidase. <i>Talanta</i> , 2016, 160, 586-591.	5.5	13
47	Analytical possibilities of Putrescine and Cadaverine enzymatic colorimetric determination in tuna based on diamine oxidase: A critical study of the use of ABTS. <i>Talanta</i> , 2020, 208, 120392.	5.5	13
48	A double-membrane ion-selective electrode for the potentiometric determination of potassium. <i>Microchemical Journal</i> , 1989, 39, 289-297.	4.5	12
49	Determination of tin in organotin compounds by hydride generation atomic absorption spectrometry in organic media. <i>Journal of Analytical Atomic Spectrometry</i> , 1990, 5, 45.	3.0	12
50	Resonance driven regioselective demethylation of berberine. Microwave assisted synthesis of berberrubine and its assessment as fluorescent chemosensor for alkanes. <i>Tetrahedron</i> , 2015, 71, 6148-6154.	1.9	12
51	Gold nanoclusters as a quenchable fluorescent probe for sensing oxygen at high temperatures. <i>Mikrochimica Acta</i> , 2018, 185, 171.	5.0	12
52	Determination of lactate by the intrinsic fluorescence of lactate oxidase. <i>Analytica Chimica Acta</i> , 1994, 299, 277-284.	5.4	11
53	Fluorescence anisotropy: application in quantitative enzymatic determinations. <i>Talanta</i> , 2005, 65, 946-953.	5.5	11
54	High-Performance Thin-Layer Chromatography Coupled with Electrospray Ionization Tandem Mass Spectrometry for Identifying Neutral Lipids and Sphingolipids in Complex Samples. <i>Journal of AOAC INTERNATIONAL</i> , 2018, 101, 1993-2000.	1.5	11

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55	HPTLC coupled to ESI-Tandem MS for identifying phospholipids associated to membrane proteins in photosynthetic purple bacteria. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2019, 42, 1-8.	1.0	11
56	Scanning densitometry and mass spectrometry for HPTLC analysis of lipids: The last 10 years. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2021, 44, 148-170.	1.0	11
57	An optical sensor for pesticide determination based on the autoindicating optical properties of peroxidase. <i>Talanta</i> , 2014, 122, 251-256.	5.5	10
58	Direct lead determination in wine by hydride generation-atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 1989, 97, 271-279.	5.0	9
59	Some observations on the use of a hydride generation flame-heated silica tube atomic absorption spectrophotometric system for the determination of lead in wine. <i>Microchemical Journal</i> , 1989, 40, 115-124.	4.5	9
60	Some observations on the determination of germanium using hydride generation-ultraviolet-visible molecular absorption spectrometry with a diode-array detector. <i>Microchemical Journal</i> , 1990, 41, 29-40.	4.5	9
61	Surface plasmon resonance sensor as a detector in HPLC and specific lactate determination. <i>Sensors and Actuators A: Physical</i> , 1993, 37-38, 582-586.	4.1	9
62	Ammonium determination in wine by gas phase molecular absorption spectrometry. <i>Mikrochimica Acta</i> , 1993, 110, 193-204.	5.0	9
63	A simple detection system for gas chromatography based on molecular absorption spectrometry in the gas phase. <i>Chromatographia</i> , 1996, 42, 435-440.	1.3	9
64	Gas chromatography with UV-vis molecular absorption spectrometry detection: Increasing sensitivity of the determination of alcohols and phenols by derivatization. <i>Chromatographia</i> , 1998, 48, 542-547.	1.3	9
65	A theoretical approach for designing fluorescent reagentless biosensors: The optical model. <i>Analytica Chimica Acta</i> , 2008, 615, 148-157.	5.4	9
66	Separation and profiling of monoglycerides in biodiesel using a hyphenated technique based on high-performance thin-layer chromatography. <i>Fuel</i> , 2016, 177, 244-250.	6.4	9
67	Glucose oxidase immobilized on magnetic nanoparticles: Nanobiosensors for fluorescent glucose monitoring. <i>Mikrochimica Acta</i> , 2017, 184, 1325-1333.	5.0	9
68	Extraction-spectrofluorimetric determination of cadmium with diethyldithiocarbamate and calcein in non-aqueous media. <i>Analytica Chimica Acta</i> , 1987, 198, 281-286.	5.4	8
69	Simultaneous Determination of Arsenic(III) and Antimony(III) by Ozone-Induced Gas-Phase Chemiluminescence. <i>Applied Spectroscopy</i> , 1995, 49, 785-790.	2.2	8
70	Changes in fluorescent emission of cationic fluorophores in the presence of n-alkanes and alcohols in different polarity solvents. <i>Chemical Physics Letters</i> , 2011, 501, 547-553.	2.6	8
71	Electronic Communication in Binuclear Osmium- and Iridium-Polyhydrides. <i>Inorganic Chemistry</i> , 2021, 60, 2783-2796.	4.0	8
72	Direct minimally invasive enzymatic determination of tyramine in cheese using digital imaging. <i>Analytica Chimica Acta</i> , 2021, 1164, 338489.	5.4	8

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73	Some observations on the spectrophotometric determination of zinc with 1-(2-pyridylazo)-2-naphthol, diphenylguanidine, and cetyltrimethylammonium bromide, in chloroform. <i>Microchemical Journal</i> , 1989, 40, 94-102.	4.5	7
74	Fluorometric Determination of Cadmium in Polyvinyl Chloride Stabilizers and Polyvinyl Chloride in Nonaqueous Media. <i>Analytical Sciences</i> , 1990, 6, 187-190.	1.6	7
75	Sulphide Determination in Water by Gas-Phase Molecular Absorption Spectrometry. <i>Analytical Letters</i> , 1992, 25, 2095-2105.	1.8	7
76	Evaluation of a fluorometric-enzymatic method based on 3 $\beta$ -hydroxysteroid dehydrogenase for the mycotoxin zearalenone determination in corn. <i>Talanta</i> , 2004, 64, 196-201.	5.5	7
77	Globotriaosylceramide-related biomarkers of fabry disease identified in plasma by high-performance thin-layer chromatography - densitometry- mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1638, 461895.	3.7	7
78	Gas chromatography with UV-vis molecular absorption spectrometry detection: Data acquisition and treatment when using a diode-array spectrophotometer. <i>Chromatographia</i> , 1998, 48, 535-541.	1.3	6
79	Integrated analytical pervaporation-“gas-phase absorptiometry: theoretical aspects and applications. <i>Analytica Chimica Acta</i> , 2001, 434, 81-93.	5.4	6
80	Uncertainty due to the quantification step in analytical methods. <i>Talanta</i> , 2007, 71, 1339-1344.	5.5	6
81	Simultaneous Determination of Glucose and Choline Based on the Intrinsic Fluorescence of the Enzymes. <i>Journal of Fluorescence</i> , 2009, 19, 583-591.	2.5	6
82	Selective peracetic acid determination in the presence of hydrogen peroxide using a label free enzymatic method based on catalase. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2117-2124.	3.7	6
83	CCD detectors for molecular absorption spectrophotometry. A theoretical and experimental study on characteristics and performance. <i>Analyst, The</i> , 2010, 135, 564.	3.5	6
84	Some observations on the determination of boron in wine by flame emission spectrometry after methyl borate generation in a heterogeneous phase. <i>Microchemical Journal</i> , 1990, 41, 164-171.	4.5	5
85	Comparative Study of Polymeric Supports as the Base of Immobilisation of Chemically Modified Enzymes. <i>Mikrochimica Acta</i> , 2006, 153, 163-170.	5.0	5
86	Using blood hemoglobin for blood analysis. <i>Analyst, The</i> , 2007, 132, 59-66.	3.5	5
87	Rapid enzymatic method for the determination of phosphoryl choline using the fluorescence of the enzyme choline oxidase. Sequential determination of choline and phosphorylcholine in milk powder for children. <i>Microchemical Journal</i> , 2015, 123, 259-266.	4.5	5
88	Smartphone-interrogated test supports for the enzymatic determination of putrescine and cadaverine in food. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4261-4271.	3.7	5
89	Uncapped Gold Nanoparticles for the Metallization of Organic Monolayers. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100876.	3.7	5
90	A double-membrane nitrate ion-selective electrode based on aliquat-nitrate in paraffin. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1989, 333, 619-623.	0.8	4

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91	Determination of Tellurium by Gas Phase Molecular Absorption Spectrometry After Hydrogen Telluride Generation. <i>Analytical Letters</i> , 1995, 28, 121-146.	1.8	4
92	Gas-phase molecular absorption spectrometry: Determination of sulphite with diode-array detection. <i>Mikrochimica Acta</i> , 1997, 127, 239-242.	5.0	4
93	Heated flow-cell for gas phase UV-visible detector in gas chromatography of polycyclic aromatic hydrocarbons. <i>Chromatographia</i> , 1999, 50, 202-208.	1.3	4
94	Reagentless Optical Biosensors for Organic Compounds Based on Autoindicating Proteins. <i>Protein and Peptide Letters</i> , 2008, 15, 772-778.	0.9	4
95	Spectrophotometric determination of chloride with malachite green and tributylphosphate in chloroform. <i>Microchemical Journal</i> , 1990, 41, 84-92.	4.5	3
96	Study and evaluation of a fluorimetric method for the determination of inorganic mercury in water. <i>Fresenius' Journal of Analytical Chemistry</i> , 1992, 342, 157-162.	1.5	3
97	Gold nanoparticle formation as an indicator of enzymatic methods: colorimetric l-phenylalanine determination. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2641-2649.	3.7	3
98	Polycyclic aromatic hydrocarbons from coal fluidised bed combustion. <i>Coal Science and Technology</i> , 1995, , 1951-1954.	0.0	2
99	New approaches on gas phase molecular absorption spectrometry detection in gas chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 1996, 355, 733-735.	3.7	2
100	Determination of Acetic Acid in Vinegar by Gas Phase Molecular Absorption Spectrometry After Methyl Acetate Generation. <i>Mikrochimica Acta</i> , 2000, 134, 199-203.	5.0	2
101	A Simplified Calculation of the Real Confidence Interval in Analytical Methods. <i>Journal of Chemical Education</i> , 2004, 81, 1053.	2.3	2
102	Fluorescence Detection by Intensity Change Based Sensors: A Theoretical Model. <i>Journal of Fluorescence</i> , 2012, 22, 381-389.	2.5	2
103	Uncertainty in CCD detectors with and without cooling devices when used for molecular fluorescence measurements. <i>Analytical Methods</i> , 2015, 7, 2379-2385.	2.7	2
104	A label-free platform for dopamine biosensing. <i>Bioanalysis</i> , 2018, 10, 11-21.	1.5	2
105	Solving Color Reproducibility between Digital Devices: A Robust Approach of Smartphones Color Management for Chemical (Bio)Sensors. <i>Biosensors</i> , 2022, 12, 341.	4.7	2
106	Analytical applications of the optical properties of ferric hemoglobin: A theoretical and experimental study. <i>Microchemical Journal</i> , 2014, 114, 175-181.	4.5	1
107	Enzymatic methods for choline-containing water soluble phospholipids based on fluorescence of choline oxidase: Application to lyso-PAF. <i>Analytical Biochemistry</i> , 2017, 519, 30-37.	2.4	1