

Constantinos K Zacharis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2089838/publications.pdf>

Version: 2024-02-01

97
papers

1,596
citations

331670

21
h-index

361022

35
g-index

100
all docs

100
docs citations

100
times ranked

1420
citing authors

#	ARTICLE	IF	CITATIONS
1	Dispersive liquid-liquid microextraction for the determination of organochlorine pesticides residues in honey by gas chromatography-electron capture and ion trap mass spectrometric detection. <i>Food Chemistry</i> , 2012, 134, 1665-1672.	8.2	83
2	Automated sample preparation based on the sequential injection principle. <i>Journal of Chromatography A</i> , 2004, 1030, 69-76.	3.7	81
3	Determination of bisphosphonate active pharmaceutical ingredients in pharmaceuticals and biological material: A review of analytical methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 483-496.	2.8	76
4	Solvent-based de-emulsification dispersive liquid-liquid microextraction combined with gas chromatography-mass spectrometry for determination of trace organochlorine pesticides in environmental water samples. <i>Journal of Chromatography A</i> , 2010, 1217, 5896-5900.	3.7	76
5	Liquid chromatography coupled to on-line post column derivatization for the determination of organic compounds: A review on instrumentation and chemistries. <i>Analytica Chimica Acta</i> , 2013, 798, 1-24.	5.4	73
6	Vortex-assisted liquid-liquid microextraction combined with gas chromatography-mass spectrometry for the determination of organophosphate pesticides in environmental water samples and wines. <i>Journal of Separation Science</i> , 2012, 35, 2422-2429.	2.5	71
7	Fabrication of hollow microneedles using liquid crystal display (LCD) vat polymerization 3D printing technology for transdermal macromolecular delivery. <i>International Journal of Pharmaceutics</i> , 2021, 597, 120303.	5.2	48
8	Development and validation of a rapid HPLC method for the determination of five banned fat-soluble colorants in spices using a narrow-bore monolithic column. <i>Talanta</i> , 2011, 84, 480-486.	5.5	41
9	Coupling of sequential injection analysis and capillary electrophoresis - Laser-induced fluorescence via a valve interface for on-line derivatization and analysis of amino acids and peptides. <i>Journal of Chromatography A</i> , 2006, 1132, 297-303.	3.7	35
10	Application of analytical quality by design principles for the determination of alkyl p-toluenesulfonates impurities in Aprepitant by HPLC. Validation using total-error concept. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 150, 152-161.	2.8	35
11	A validated liquid chromatographic method for the determination of polycyclic aromatic hydrocarbons in honey after homogeneous liquid-liquid extraction using hydrophilic acetonitrile and sodium chloride as mass separating agent. <i>Journal of Chromatography A</i> , 2015, 1377, 46-54.	3.7	34
12	Rapid determination of methylxanthines in real samples by high-performance liquid chromatography using the new FastGradient® narrow-bore monolithic column. <i>Talanta</i> , 2010, 81, 1494-1501.	5.5	33
13	Ethyl propiolate as a post-column derivatization reagent for thiols: Development of a green liquid chromatographic method for the determination of glutathione in vegetables. <i>Analytica Chimica Acta</i> , 2011, 690, 122-128.	5.4	31
14	Determination of glutathione in baker's yeast by capillary electrophoresis using methyl propiolate as derivatizing reagent. <i>Journal of Chromatography A</i> , 2013, 1300, 204-208.	3.7	31
15	Ethyl-propiolate as a novel and promising analytical reagent for the derivatization of thiols: Study of the reaction under flow conditions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 50, 384-391.	2.8	28
16	Amperometric determination of cyanides at the low ppb level by automated preconcentration based on gas diffusion coupled to sequential injection analysis. <i>Talanta</i> , 2009, 77, 1620-1626.	5.5	27
17	Bioanalytical HPLC Applications of In-Tube Solid Phase Microextraction: A Two-Decade Overview. <i>Molecules</i> , 2020, 25, 2096.	3.8	26
18	A new method for the HPLC determination of gamma-hydroxybutyric acid (GHB) following derivatization with a coumarin analogue and fluorescence detection. <i>Talanta</i> , 2008, 75, 356-361.	5.5	25

#	ARTICLE	IF	CITATIONS
19	On-line coupling of sequential injection with liquid chromatography for the automated derivatization and determination of γ -aminobutyric acid in human biological fluids. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 808, 169-175.	2.3	24
20	Separation and determination of nimesulide related substances for quality control purposes by micellar electrokinetic chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 201-206.	2.8	24
21	Exploiting the capsule phase microextraction features in bioanalysis: Extraction of ibuprofen from urine samples. <i>Microchemical Journal</i> , 2022, 172, 106934.	4.5	24
22	Coupling of sequential injection with liquid chromatography for the automated derivatization and on-line determination of amino acids. <i>Talanta</i> , 2006, 69, 841-847.	5.5	21
23	Sequential injection affinity chromatography utilizing an albumin immobilized monolithic column to study drug-protein interactions. <i>Journal of Chromatography A</i> , 2007, 1144, 126-134.	3.7	21
24	Automated sample treatment by flow techniques prior to liquid-phase separations. <i>Journal of Proteomics</i> , 2007, 70, 243-252.	2.4	21
25	Optimized Photo-Fenton degradation of psychoactive pharmaceuticals alprazolam and diazepam using a chemometric approach—Structure and toxicity of transformation products. <i>Journal of Hazardous Materials</i> , 2021, 403, 123819.	12.4	21
26	Fast fabric phase sorptive extraction of selected β -blockers from human serum and urine followed by UHPLC-ESI-MS/MS analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 199, 114053.	2.8	21
27	Homogeneous liquid liquid extraction using salt as mass separating agent for the ultra high pressure liquid chromatographic determination of doxorubicin in human urine. <i>Microchemical Journal</i> , 2020, 158, 105260.	4.5	20
28	Incorporation of a monolithic column into sequential injection system for drug-protein binding studies. <i>Journal of Chromatography A</i> , 2006, 1121, 46-54.	3.7	19
29	Ocular Co-Delivery of Timolol and Brimonidine from a Self-Assembling Peptide Hydrogel for the Treatment of Glaucoma: In Vitro and Ex Vivo Evaluation. <i>Pharmaceuticals</i> , 2020, 13, 126.	3.8	19
30	Automated sample preparation coupled to sequential injection chromatography: On-line filtration and dilution protocols prior to separation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 726-732.	2.8	18
31	Zwitterionic hydrophilic interaction chromatography coupled with post-column derivatization for the analysis of glutathione in wine samples. <i>Analytica Chimica Acta</i> , 2013, 795, 75-81.	5.4	18
32	Fluorimetric Method for the Determination of Histidine in Random Human Urine Based on Zone Fluidics. <i>Molecules</i> , 2020, 25, 1665.	3.8	18
33	Determination of illicit drugs and psychoactive pharmaceuticals in wastewater from the area of Thessaloniki (Greece) using LC-MS/MS: estimation of drug consumption. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 249.	2.7	18
34	Homogeneous liquid phase microextraction using hydrophilic media for the determination of fluoroquinolones in human urine using HPLC-FLD. <i>Microchemical Journal</i> , 2022, 172, 106906.	4.5	18
35	Rapid spectrofluorimetric determination of lisinopril in pharmaceutical tablets using sequential injection analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 379, 759-63.	3.7	17
36	Accelerating the Quality Control of Pharmaceuticals Using Monolithic Stationary Phases: A Review of Recent HPLC Applications. <i>Journal of Chromatographic Science</i> , 2009, 47, 443-451.	1.4	17

#	ARTICLE	IF	CITATIONS
37	Normal spectrophotometric and stopped-flow spectrofluorimetric sequential injection methods for the determination of alendronic acid, an anti-osteoporosis amino-bisphosphonate drug, in pharmaceuticals. <i>Analytica Chimica Acta</i> , 2005, 547, 98-103.	5.4	16
38	Assessment, modeling and optimization of parameters affecting the formation of disinfection by-products in water. <i>Environmental Science and Pollution Research</i> , 2016, 23, 16620-16630.	5.3	14
39	Cereal-Based 3D Printed Dosage Forms for Drug Administration During Breakfast in Pediatric Patients within a Hospital Setting. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 2562-2570.	3.3	14
40	Derivatization of thiols under flow conditions using two commercially available propiolate esters. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 790-794.	2.8	13
41	NBD-Cl as a Post-Column Reagent for Primary and Secondary Amines after Separation by Ion-Exchange Chromatography. <i>Analytical Letters</i> , 2011, 44, 1821-1834.	1.8	13
42	Determination of rimantadine in human urine by HPLC using a monolithic stationary phase and on-line post-column derivatization. <i>Journal of Separation Science</i> , 2013, 36, 1720-1725.	2.5	13
43	Transdermal delivery of insulin across human skin in vitro with 3D printed hollow microneedles. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 67, 102891.	3.0	13
44	Self-Nanoemulsifying Drug Delivery Systems (SNEDDS) Containing Rice Bran Oil for Enhanced Fenofibrate Oral Delivery: In Vitro Digestion, Ex Vivo Permeability, and In Vivo Bioavailability Studies. <i>AAPS PharmSciTech</i> , 2020, 21, 208.	3.3	12
45	Determination of histidine in human serum and urine by cation exchange chromatography coupled to selective on-line post column derivatization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1173, 122697.	2.3	12
46	Combination of fabric phase sorptive extraction with UHPLC-ESI-MS/MS for the determination of adamantane analogues in human urine. <i>Microchemical Journal</i> , 2022, 176, 107250.	4.5	12
47	Sildenafil 4.0€”Integrated Synthetic Chemistry, Formulation and Analytical Strategies Effecting Immense Therapeutic and Societal Impact in the Fourth Industrial Era. <i>Pharmaceuticals</i> , 2021, 14, 365.	3.8	11
48	Metal-Organic Frameworks in Bioanalysis: Extraction of Small Organic Molecules. <i>Separations</i> , 2021, 8, 60.	2.4	11
49	(Chloromethyl)dimethylchlorosilane€”KF: A Two-Step Solution to the Selectivity Problem in the Methylation of a Pyrimidone Intermediate en Route to Raltegravir. <i>Organic Process Research and Development</i> , 2017, 21, 1413-1418.	2.7	10
50	Trace analysis of rimantadine in human urine after dispersive liquid liquid microextraction followed by liquid chromatography€”post column derivatization. <i>Journal of Separation Science</i> , 2020, 43, 631-638.	2.5	10
51	Automated fluorimetric sensor for glutathione based on zone fluidics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 117963.	3.9	10
52	Novel automated assay for the quality control of mexiletine hydrochloride formulations using sequential injection and on-line dilution. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 1254-1260.	2.8	9
53	A new scalable synthesis of entecavir. <i>Tetrahedron</i> , 2018, 74, 519-527.	1.9	9
54	Partial Least Square Model (PLS) as a Tool to Predict the Diffusion of Steroids Across Artificial Membranes. <i>Molecules</i> , 2020, 25, 1387.	3.8	9

#	ARTICLE	IF	CITATIONS
55	Specific determination of histamine in cheese and cured meat products by ion chromatography coupled to fluorimetric detection. <i>Microchemical Journal</i> , 2021, 168, 106513.	4.5	9
56	Salting-out homogeneous liquid-liquid microextraction for the determination of azole drugs in human urine: Validation using total error concept. <i>Journal of Separation Science</i> , 2022, , .	2.5	9
57	In situ synthesis of monolithic sol-gel polyethylene glycol-based sorbent encapsulated in porous polypropylene microextraction capsules and its application for selective extraction of antifungal and anthelmintic drugs from human urine. <i>Microchemical Journal</i> , 2022, 180, 107594.	4.5	9
58	On-Line Derivatization of <i>N</i> -acetylcysteine Using Ethyl-Propiolate as a Novel Advantageous Reagent and Sequential Injection Analysis. <i>Analytical Letters</i> , 2010, 43, 1889-1901.	1.8	8
59	High-Throughput Determination of Quinine in Beverages and Soft Drinks Based on Zone-Fluidics Coupled to Monolithic Liquid Chromatography. <i>Analytical Letters</i> , 2013, 46, 1718-1731.	1.8	8
60	Solid-Phase Microextraction. <i>Molecules</i> , 2020, 25, 379.	3.8	8
61	A Validated LC Method for the Determination of Enantiomeric Purity of Clopidogrel Intermediate Using Amylose-Based Stationary Phase. <i>Chromatographia</i> , 2015, 78, 819-824.	1.3	7
62	Fentanyl and naloxone effects on glutamate and GABA release rates from anterior hypothalamus in freely moving rats. <i>European Journal of Pharmacology</i> , 2018, 834, 169-175.	3.5	7
63	Automated Stopped-Flow Fluorimetric Sensor for Biologically Active Adamantane Derivatives Based on Zone Fluidics. <i>Molecules</i> , 2019, 24, 3975.	3.8	7
64	UHPLC-fluorescence method for the determination of trace levels of hydrazine in allopurinol and its formulations: Validation using total-error concept. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 187, 113354.	2.8	7
65	Automated Post-Column Sample Manipulation Prior to Detection in Liquid Chromatography: A Review of Pharmaceutical and Bioanalytical Applications. <i>Current Analytical Chemistry</i> , 2019, 15, 759-775.	1.2	7
66	NGI-WY-Amide: A Bioinspired Ultrashort Self-Assembled Peptide Gelator for Local Drug Delivery Applications. <i>Pharmaceutics</i> , 2022, 14, 133.	4.5	7
67	High Throughput Automated Determination of Glutathione Based on the Formation of a UV-Absorbing Thioacrylate Derivative. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 461-468.	1.1	6
68	Automated fluorimetric determination of the genotoxic impurity hydrazine in allopurinol pharmaceuticals using zone fluidics and on-line solid phase extraction. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 177, 112887.	2.8	6
69	HPLC method with post-column derivatization for the analysis of endogenous histidine in human saliva validated using the total-error concept. <i>Amino Acids</i> , 2022, 54, 399-409.	2.7	5
70	Development and validation of HPLC-DAD and LC-(ESI)/MS methods for the determination of sulfasalazine, mesalazine and hydrocortisone 21-acetate in tablets and rectal suppositories: In vitro and ex vivo permeability studies. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2022, 1198, 123246.	2.3	5
71	Analytical quality-by-design optimization of UHPLC method for the analysis of octreotide release from a peptide-based hydrogel in-vitro. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 214, 114699.	2.8	5
72	HPLC Determination of Colistin in Human Urine Using Alkaline Mobile Phase Combined with Post-Column Derivatization: Validation Using Accuracy Profiles. <i>Molecules</i> , 2022, 27, 3489.	3.8	5

#	ARTICLE	IF	CITATIONS
73	Validated Assay for the Determination of Mitoxantrone in Pharmaceuticals Using Capillary Zone Electrophoresis. <i>Analytical Letters</i> , 2009, 42, 842-855.	1.8	4
74	Development and validation of a rapid ultra high pressure liquid chromatographic method for the determination of methylxanthines in herbal infusions. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 927, 218-222.	2.3	4
75	Study of the Oxidative Forced Degradation of Glutathione in Its Nutraceutical Formulations Using Zone Fluidics and Green Liquid Chromatography. <i>Separations</i> , 2020, 7, 16.	2.4	4
76	Development and validation of a direct HPLC method for the determination of salivary glutathione disulphide using a core shell column and post column derivatization with o-phthalaldehyde. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2022, 1197, 123216.	2.3	4
77	HPLC Separation of Nimesulide and Five Impurities using a Narrow-Bore Monolithic Column: Application to Photo-Degradation Studies. <i>Chromatographia</i> , 2011, 73, 347-352.	1.3	3
78	Fluorimetric Analysis of Five Amino Acids in Chocolate: Development and Validation. <i>Molecules</i> , 2021, 26, 4325.	3.8	3
79	Automated Fluorimetric Assay for Baclofen After On-line Derivatization with o-phthalaldehyde Based on the Sequential Injection Principle. <i>Current Analytical Chemistry</i> , 2014, 10, 298-304.	1.2	3
80	Salt-Induced Homogeneous Liquid-Liquid Microextraction of Piroxicam and Meloxicam from Human Urine Prior to Their Determination by HPLC-DAD. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6658.	2.5	3
81	Extraction of acyclovir from pharmaceutical creams for HPLC assay. Optimization and validation of pretreatment protocols. <i>Open Chemistry</i> , 2008, 6, 140-144.	1.9	2
82	Extraction: Solvent Extraction: Two-Phase Aqueous Liquid Extraction \hat{a}^{\dagger} . , 2018, , 47-47.		2
83	Recent Trends in Pharmaceutical Analytical Chemistry. <i>Molecules</i> , 2020, 25, 3560.	3.8	2
84	Solid Dosage Forms of Dexamethasone Sodium Phosphate Intended for Pediatric Use: Formulation and Stability Studies. <i>Pharmaceutics</i> , 2020, 12, 354.	4.5	2
85	Co-Spray Drying of Paracetamol and Propyphenazone with Polymeric Binders for Enabling Compaction and Stability Improvement in a Combination Tablet. <i>Pharmaceutics</i> , 2021, 13, 1259.	4.5	2
86	Single-Step Hydrolysis and Derivatization of Homocysteine Thiolactone Using Zone Fluidics: Simultaneous Analysis of Mixtures with Homocysteine Following Separation by Fluorosurfactant-Modified Gold Nanoparticles. <i>Molecules</i> , 2022, 27, 2040.	3.8	2
87	Determination of bisphosphonate active pharmaceutical ingredients in pharmaceuticals and biological materials: An updated review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 219, 114921.	2.8	2
88	Trends and applications of fast liquid chromatography in bioanalysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 927, 1-2.	2.3	1
89	Development and Validation of an Automated Zone Fluidics-Based Sensor for In Vitro Dissolution Studies of Captopril Using Total Error Concept. <i>Molecules</i> , 2021, 26, 824.	3.8	1
90	Amoxicillin chewable tablets intended for pediatric use: formulation development, stability evaluation and taste assessment. <i>Pharmaceutical Development and Technology</i> , 2021, 26, 978-988.	2.4	1

#	ARTICLE	IF	CITATIONS
91	Generic Preconcentration/Dilution Sequential Injection Manifold for the Automated Amperometric Determination of Free Cyanides from Sub-ppb to High ppm Levels. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 279-286.	0.5	1
92	Development and Validation of an HPLC-UV Method for the Dissolution Studies of 3D-Printed Paracetamol Formulations in Milk-Containing Simulated Gastrointestinal Media. Pharmaceuticals, 2022, 15, 755.	3.8	1
93	Editorial [Hot Topic: Analytical Aspects in Drug Metabolism (Guest Editor: Constantinos K. Zacharis)]. Current Drug Metabolism, 2011, 12, 312-312.	1.2	0
94	Chromatographic behavior of the biologically active proline derivative captopril on particulate, monolithic and core-shell narrow bore columns. Analytical Methods, 2012, 4, 4373.	2.7	0
95	Chapter 11. Analysis of Caffeine and Related Compounds by Automated Flow Methods. Food and Nutritional Components in Focus, 2012, , 193-212.	0.1	0
96	Editors'™ preface for the special issue "Recent advances in separation science". Open Chemistry, 2012, 10, 415-416.	1.9	0
97	Development and Validation of Hplc-Dad and Lc-(Esi)/Ms Methods for the Determination of Sulfasalazine, Mesalazine and Hydrocortisone 21-Acetate in Tablets and Rectal Suppositories: In Vitro and Ex Vivo Permeability Studies. SSRN Electronic Journal, 0, , .	0.4	0