

# Constantinos K Zacharis

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83  
papers

1,099  
citations

20  
h-index

30  
g-index

100  
ext. papers

1,297  
ext. citations

4  
avg, IF

4.73  
L-index

#	Paper	IF	Citations
83	Combination of fabric phase sorptive extraction with UHPLC-ESI-MS/MS for the determination of adamantane analogues in human urine. <i>Microchemical Journal</i> , <b>2022</b> , 176, 107250	4.8	2
82	NGIWY-Amide: A Bioinspired Ultrashort Self-Assembled Peptide Gelator for Local Drug Delivery Applications.. <i>Pharmaceutics</i> , <b>2022</b> , 14,	6.4	1
81	Exploiting the capsule phase microextraction features in bioanalysis: Extraction of ibuprofen from urine samples. <i>Microchemical Journal</i> , <b>2022</b> , 172, 106934	4.8	3
80	Homogeneous liquid phase microextraction using hydrophilic media for the determination of fluoroquinolones in human urine using HPLC-FLD. <i>Microchemical Journal</i> , <b>2022</b> , 172, 106906	4.8	1
79	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> , <b>2022</b> , 54, 399-409	3.5	0
78	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> , <b>2022</b> , 197, 123215	3.2	1
77	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> , <b>2022</b> , 197, 123216	3.2	0
76	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> , <b>2022</b> , 214, 114699	3.5	1
75	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> , <b>2022</b> , 107594	4.8	0
74	HPLC Determination of Colistin in Human Urine Using Alkaline Mobile Phase Combined with Post-Column Derivatization: Validation Using Accuracy Profiles. <i>Molecules</i> , <b>2022</b> , 27, 3489	4.8	
73	Transdermal delivery of insulin across human skin in vitro with 3D printed hollow microneedles. <i>Journal of Drug Delivery Science and Technology</i> , <b>2021</b> , 67, 102891	4.5	0
72	Fabrication of hollow microneedles using liquid crystal display (LCD) vat polymerization 3D printing technology for transdermal macromolecular delivery. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 597, 120303	6.5	12
71	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> , <b>2021</b> , 193, 249	3.1	5
70	Sildenafil 4.0-Integrated Synthetic Chemistry, Formulation and Analytical Strategies Effecting Immense Therapeutic and Societal Impact in the Fourth Industrial Era. <i>Pharmaceutics</i> , <b>2021</b> , 14,	5.2	5
69	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> , <b>2021</b> , 1173, 122697	3.2	2
68	Metal-Organic Frameworks in Bioanalysis: Extraction of Small Organic Molecules. <i>Separations</i> , <b>2021</b> , 8, 60	3.1	3
67	Fast fabric phase sorptive extraction of selected $\beta$ -blockers from human serum and urine followed by UHPLC-ESI-MS/MS analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 199, 114053	3.5	8

66	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> , <b>2021</b> , 403, 123819	12.8	8
65	Amoxicillin chewable tablets intended for pediatric use: formulation development, stability evaluation and taste assessment. <i>Pharmaceutical Development and Technology</i> , <b>2021</b> , 26, 978-988	3.4	
64	Specific determination of histamine in cheese and cured meat products by ion chromatography coupled to fluorimetric detection. <i>Microchemical Journal</i> , <b>2021</b> , 168, 106513	4.8	3
63	Bioanalytical HPLC Applications of In-Tube Solid Phase Microextraction: A Two-Decade Overview. <i>Molecules</i> , <b>2020</b> , 25,	4.8	13
62	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> , <b>2020</b> , 187, 113354	3.5	1
61	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> , <b>2020</b> , 13,	5.2	7
60	Study of the Oxidative Forced Degradation of Glutathione in Its Nutraceutical Formulations Using Zone Fluidics and Green Liquid Chromatography. <i>Separations</i> , <b>2020</b> , 7, 16	3.1	2
59	Fluorimetric Method for the Determination of Histidine in Random Human Urine Based on Zone Fluidics. <i>Molecules</i> , <b>2020</b> , 25,	4.8	8
58	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> , <b>2020</b> , 43, 631-638	3.4	8
57	Automated fluorimetric sensor for glutathione based on zone fluidics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 229, 117963	4.4	7
56	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> , <b>2020</b> , 158, 105260	4.8	5
55	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> , <b>2020</b> , 21, 208	3.9	6
54	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> , <b>2020</b> , 177, 112887	3.5	4
53	Smart Materials as Stationary Phases in Chromatography <b>2019</b> , 643-674		
52	Automated Stopped-Flow Fluorimetric Sensor for Biologically Active Adamantane Derivatives Based on Zone Fluidics. <i>Molecules</i> , <b>2019</b> , 24,	4.8	3
51	Automated Post-Column Sample Manipulation Prior to Detection in Liquid Chromatography: A Review of Pharmaceutical and Bioanalytical Applications. <i>Current Analytical Chemistry</i> , <b>2019</b> , 15, 759-775 <sup>1-7</sup>		2
50	A new scalable synthesis of entecavir. <i>Tetrahedron</i> , <b>2018</b> , 74, 519-527	2.4	7
49	Extraction   Aqueous Two-Phase Extraction <b>2018</b> , 47-47		2

48	Fentanyl and naloxone effects on glutamate and GABA release rates from anterior hypothalamus in freely moving rats. <i>European Journal of Pharmacology</i> , <b>2018</b> , 834, 169-175	5.3	5
47	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> , <b>2018</b> , 150, 152-161	3.5	21
46	(Chloromethyl)dimethylchlorosilane: 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> , <b>2017</b> , 21, 1413-1418	3.9	6
45	Assessment, modeling and optimization of parameters affecting the formation of disinfection by-products in water. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 16620-30	5.1	11
44	A Validated LC Method for the Determination of Enantiomeric Purity of Clopidogrel Intermediate Using Amylose-Based Stationary Phase. <i>Chromatographia</i> , <b>2015</b> , 78, 819-824	2.1	7
43	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> , <b>2015</b> , 1377, 46-54	4.5	29
42	Automated Fluorimetric Assay for Baclofen After On-line Derivatization with o-phthalaldehyde Based on the Sequential Injection Principle. <i>Current Analytical Chemistry</i> , <b>2014</b> , 10, 298-304	1.7	3
41	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> , <b>2013</b> , 798, 1-24	6.6	52
40	Zwitterionic hydrophilic interaction chromatography coupled with post-column derivatization for the analysis of glutathione in wine samples. <i>Analytica Chimica Acta</i> , <b>2013</b> , 795, 75-81	6.6	15
39	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> , <b>2013</b> , 927, 218-22	3.2	3
38	Determination of glutathione in baker's yeast by capillary electrophoresis using methyl propiolate as derivatizing reagent. <i>Journal of Chromatography A</i> , <b>2013</b> , 1300, 204-8	4.5	28
37	Trends and applications of fast liquid chromatography in bioanalysis. (preface). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2013</b> , 927, 1-2	3.2	0
36	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> , <b>2013</b> , 36, 1720-5	3.4	11
35	High-Throughput Determination of Quinine in Beverages and Soft Drinks Based on Zone-Fluidics Coupled to Monolithic Liquid Chromatography. <i>Analytical Letters</i> , <b>2013</b> , 46, 1718-1731	2.2	6
34	Editors' preface for the special issue Recent advances in separation science. <i>Open Chemistry</i> , <b>2012</b> , 10, 415-416	1.6	
33	Chromatographic behavior of the biologically active proline derivative captopril on particulate, monolithic and core-shell narrow bore columns. <i>Analytical Methods</i> , <b>2012</b> , 4, 4373	3.2	
32	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> , <b>2012</b> , 35, 2422-9	3.4	64
31	Chapter 11: Analysis of Caffeine and Related Compounds by Automated Flow Methods. <i>Food and Nutritional Components in Focus</i> , <b>2012</b> , 193-212		

30	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> , <b>2012</b> , 134, 1665-72	8.5	72
29	Generic Preconcentration/Dilution Sequential Injection Manifold for the Automated Amperometric Determination of Free Cyanides from Sub-ppb to High ppm Levels. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , <b>2012</b> , 279-286	0.1	
28	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> , <b>2011</b> , 84, 480-6	6.2	37
27	HPLC Separation of Nimesulide and Five Impurities using a Narrow-Bore Monolithic Column: Application to Photo-Degradation Studies. <i>Chromatographia</i> , <b>2011</b> , 73, 347-352	2.1	3
26	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> , <b>2011</b> , 690, 122-8	6.6	25
25	NBD-Cl as a Post-Column Reagent for Primary and Secondary Amines after Separation by Ion-Exchange Chromatography. <i>Analytical Letters</i> , <b>2011</b> , 44, 1821-1834	2.2	12
24	On-Line Derivatization of N-acetylcysteine Using Ethyl-Propiolate as a Novel Advantageous Reagent and Sequential Injection Analysis. <i>Analytical Letters</i> , <b>2010</b> , 43, 1889-1901	2.2	6
23	Rapid determination of methylxanthines in real samples by high-performance liquid chromatography using the new FastGradient narrow-bore monolithic column. <i>Talanta</i> , <b>2010</b> , 81, 1494-501	6.2	29
22	High throughput automated determination of glutathione based on the formation of a UV-absorbing thioacrylate derivative. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2010</b> , 13, 461-8	1.3	4
21	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> , <b>2010</b> , 1217, 5896-900	4.5	74
20	Derivatization of thiols under flow conditions using two commercially available propiolate esters. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2010</b> , 53, 790-4	3.5	11
19	Validated Assay for the Determination of Mitoxantrone in Pharmaceuticals Using Capillary Zone Electrophoresis. <i>Analytical Letters</i> , <b>2009</b> , 42, 842-855	2.2	3
18	Separation and determination of nimesulide related substances for quality control purposes by micellar electrokinetic chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2009</b> , 49, 201-6	3.5	21
17	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> , <b>2009</b> , 49, 726-32	3.5	14
16	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> , <b>2009</b> , 50, 384-91	3.5	25
15	Accelerating the quality control of pharmaceuticals using monolithic stationary phases: a review of recent HPLC applications. <i>Journal of Chromatographic Science</i> , <b>2009</b> , 47, 443-51	1.4	14
14	Amperometric determination of cyanides at the low ppb level by automated preconcentration based on gas diffusion coupled to sequential injection analysis. <i>Talanta</i> , <b>2009</b> , 77, 1620-6	6.2	25
13	A new method for the HPLC determination of gamma-hydroxybutyric acid (GHB) following derivatization with a coumarin analogue and fluorescence detection: application in the analysis of biological fluids. <i>Talanta</i> , <b>2008</b> , 75, 356-61	6.2	24

12	Determination of bisphosphonate active pharmaceutical ingredients in pharmaceuticals and biological material: a review of analytical methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2008</b> , 48, 483-96	3.5	60
11	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> , <b>2008</b> , 48, 1254-60	3.5	7
10	Extraction of acyclovir from pharmaceutical creams for HPLC assay. Optimization and validation of pretreatment protocols. <i>Open Chemistry</i> , <b>2008</b> , 6, 140-144	1.6	1
9	Sequential injection affinity chromatography utilizing an albumin immobilized monolithic column to study drug-protein interactions. <i>Journal of Chromatography A</i> , <b>2007</b> , 1144, 126-34	4.5	21
8	Automated sample treatment by flow techniques prior to liquid-phase separations. <i>Journal of Proteomics</i> , <b>2007</b> , 70, 243-52		19
7	Coupling of sequential injection with liquid chromatography for the automated derivatization and on-line determination of amino acids. <i>Talanta</i> , <b>2006</b> , 69, 841-7	6.2	21
6	Incorporation of a monolithic column into sequential injection system for drug-protein binding studies. <i>Journal of Chromatography A</i> , <b>2006</b> , 1121, 46-54	4.5	18
5	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> , <b>2006</b> , 1132, 297-303	4.5	34
4	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> , <b>2005</b> , 547, 98-103	6.6	14
3	Rapid spectrofluorimetric determination of lisinopril in pharmaceutical tablets using sequential injection analysis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 379, 759-63	4.4	11
2	Automated sample preparation based on the sequential injection principle. Solid-phase extraction on a molecularly imprinted polymer coupled on-line to high-performance liquid chromatography. <i>Journal of Chromatography A</i> , <b>2004</b> , 1030, 69-76	4.5	74
1	On-line coupling of sequential injection with liquid chromatography for the automated derivatization and determination of gamma-aminobutyric acid in human biological fluids. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2004</b> , 808, 169-75	3.2	23