

# Kostantinos Georgakopoulos

## List of Publications by Year in descending order

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92  
papers

2,169  
citations

218677

26  
h-index

265206

42  
g-index

93  
all docs

93  
docs citations

93  
times ranked

1912  
citing authors

#	ARTICLE	IF	CITATIONS
1	Another designer steroid: discovery, synthesis, and detection of ?madol? in urine. Rapid Communications in Mass Spectrometry, 2005, 19, 781-784.	1.5	134
2	Preventive doping control analysis: liquid and gas chromatography time-of-flight mass spectrometry for detection of designer steroids. Rapid Communications in Mass Spectrometry, 2007, 21, 2439-2446.	1.5	99
3	Structural characteristics of anabolic androgenic steroids contributing to binding to the androgen receptor and to their anabolic and androgenic activities. Steroids, 2009, 74, 172-197.	1.8	99
4	Athlome Project Consortium: a concerted effort to discover genomic and other "omic" markers of athletic performance. Physiological Genomics, 2016, 48, 183-190.	2.3	96
5	A pilot study comparing the metabolic profiles of elite-level athletes from different sporting disciplines. Sports Medicine - Open, 2018, 4, 2.	3.1	94
6	Multi-detection of corticosteroids in sports doping and veterinary control using high-resolution liquid chromatography/time-of-flight mass spectrometry. Analytica Chimica Acta, 2007, 586, 137-146.	5.4	85
7	Screening in veterinary drug analysis and sports doping control based on full-scan, accurate-mass spectrometry. TrAC - Trends in Analytical Chemistry, 2010, 29, 1250-1268.	11.4	80
8	Preventive doping control screening analysis of prohibited substances in human urine using rapid-resolution liquid chromatography/high-resolution time-of-flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 1595-1609.	1.5	78
9	Doping control analysis in human urine by liquid chromatography-electrospray ionization ion trap mass spectrometry for the Olympic Games Athens 2004: Determination of corticosteroids and quantification of ephedrines, salbutamol and morphine. Analytica Chimica Acta, 2006, 573-574, 242-249.	5.4	64
10	Schemes of metabolic patterns of anabolic androgenic steroids for the estimation of metabolites of designer steroids in human urine. Journal of Steroid Biochemistry and Molecular Biology, 2009, 115, 44-61.	2.5	52
11	Generic sample preparation combined with high-resolution liquid chromatography-time-of-flight mass spectrometry for unification of urine screening in doping-control laboratories. Analytical and Bioanalytical Chemistry, 2010, 396, 2583-2598.	3.7	50
12	High resolution full scan liquid chromatography mass spectrometry comprehensive screening in sports antidoping urine analysis. Journal of Pharmaceutical and Biomedical Analysis, 2018, 151, 10-24.	2.8	48
13	An overview of the doping control analysis during the Olympic Games of 2004 in Athens, Greece. Analytica Chimica Acta, 2006, 555, 1-13.	5.4	47
14	Determination of ephedrines in urine by gas chromatography-mass spectrometry. Biomedical Applications, 2001, 758, 311-314.	1.7	41
15	Chemical derivatization to enhance ionization of anabolic steroids in LC-MS for doping-control analysis. TrAC - Trends in Analytical Chemistry, 2013, 42, 137-156.	11.4	41
16	Comparison of sulfo-conjugated and gluco-conjugated urinary metabolites for detection of methenolone misuse in doping control by LC-HRMS, GC-MS and GC-HRMS. Journal of Mass Spectrometry, 2015, 50, 740-748.	1.6	37
17	Statistical analysis of fragmentation patterns of electron ionization mass spectra of enolized-trimethylsilylated anabolic androgenic steroids. International Journal of Mass Spectrometry, 2009, 285, 58-69.	1.5	36
18	Metabolic GWAS of elite athletes reveals novel genetically-influenced metabolites associated with athletic performance. Scientific Reports, 2019, 9, 19889.	3.3	33

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19	Gas chromatographic quadrupole time-of-flight full scan high resolution mass spectrometric screening of human urine in antidoping analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1063, 74-83.	2.3	32
20	Determination of xylazine and its metabolites by GC-MS in equine urine for doping analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 35, 107-116.	2.8	30
21	Gas chromatographic quantitative structure-retention relationships of trimethylsilylated anabolic androgenic steroids by multiple linear regression and partial least squares. <i>Journal of Chromatography A</i> , 2009, 1216, 8404-8420.	3.7	30
22	Stabilization of human urine doping control samples: II. Microbial degradation of steroids. <i>Analytical Biochemistry</i> , 2009, 388, 146-154.	2.4	30
23	Genome-Wide Association Study Reveals a Novel Association Between MYBPC3 Gene Polymorphism, Endurance Athlete Status, Aerobic Capacity and Steroid Metabolism. <i>Frontiers in Genetics</i> , 2020, 11, 595.	2.3	30
24	Study of excretion of ecdysterone in human urine. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1796-1801.	1.5	29
25	Quantitative structure-retention relationship study of $\hat{1}\pm$ , $\hat{1}21$ , and $\hat{1}22$ -agonists using multiple linear regression and partial least-squares procedures. <i>Analytica Chimica Acta</i> , 2004, 512, 165-171.	5.4	28
26	Metabolomics profiling of xenobiotics in elite athletes: relevance to supplement consumption. <i>Journal of the International Society of Sports Nutrition</i> , 2018, 15, 48.	3.9	28
27	Prediction of gas chromatographic relative retention times of anabolic steroids. <i>Analytical Chemistry</i> , 1991, 63, 2025-2028.	6.5	27
28	Comparison of multiple linear regression, partial least squares and artificial neural networks for prediction of gas chromatographic relative retention times of trimethylsilylated anabolic androgenic steroids. <i>Journal of Chromatography A</i> , 2012, 1256, 232-239.	3.7	27
29	Sports doping: Emerging designer and therapeutic $\hat{1}22$ -agonists. <i>Clinica Chimica Acta</i> , 2013, 425, 242-258.	1.1	24
30	Advances in the detection of designer steroids in anti-doping. <i>Bioanalysis</i> , 2014, 6, 881-896.	1.5	24
31	Metabolic profiling of elite athletes with different cardiovascular demand. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 933-943.	2.9	23
32	Comparison of gas chromatography/quadrupole time-of-flight and quadrupole Orbitrap mass spectrometry in anti-doping analysis: I. Detection of anabolic androgenic steroids. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 2055-2064.	1.5	22
33	Principal component analysis for resolving coeluting substances in gas chromatography-mass spectrometry doping control analysis. <i>Analytica Chimica Acta</i> , 1996, 331, 53-61.	5.4	21
34	Direct injection LC/ESI-MS horse urine analysis for the quantification and identification of threshold substances for doping control. I. Determination of hydrocortisone. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1255-1264.	1.6	20
35	Searching for <i>in silico</i> predicted metabolites and designer modifications of (cortico)steroids in urine by high-resolution liquid chromatography/time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2329-2337.	1.5	20
36	Stabilization of human urine doping control samples. <i>Analytical Biochemistry</i> , 2009, 388, 179-191.	2.4	19

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37	Markers of mesterolone abuse in sulfate fraction for doping control in human urine. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1409-1419.	1.6	19
38	Whole Blood Storage in CPDA1 Blood Bags Alters Erythrocyte Membrane Proteome. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-12.	4.0	18
39	Electrophoretic, size-exclusion high-performance liquid chromatography and liquid chromatography-electrospray ionization ion trap mass spectrometric detection of hemoglobin-based oxygen carriers. <i>Analytica Chimica Acta</i> , 2007, 583, 223-230.	5.4	17
40	Stabilization of human urine doping control samples: a current opinion. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 553-561.	3.7	16
41	A generic screening methodology for horse doping control by LC-TOF-MS, GC-HRMS and GC-MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 941, 69-80.	2.3	16
42	Two-step silylation procedure for the unified analysis of 190 doping control substances in human urine samples by GC-MS. <i>Bioanalysis</i> , 2009, 1, 1209-1224.	1.5	14
43	External calibration in Gas Chromatography-Combustion-Isotope Ratio Mass Spectrometry measurements of endogenous androgenic anabolic steroids in sports doping control. <i>Journal of Chromatography A</i> , 2011, 1218, 5675-5682.	3.7	14
44	Gas chromatographic-mass spectrometric quantitation of busulfan in human plasma for therapeutic drug monitoring: A new on-line derivatization procedure for the conversion of busulfan to 1,4-diiodobutane. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 90, 207-214.	2.8	14
45	Population reference ranges of urinary endogenous sulfate steroids concentrations and ratios as complement to the steroid profile in sports antidoping. <i>Steroids</i> , 2019, 152, 108477.	1.8	14
46	A novel mixed living high training low intervention and the hematological module of the athlete biological passport. <i>Drug Testing and Analysis</i> , 2020, 12, 323-330.	2.6	14
47	Assessment of Serum Cytokines and Oxidative Stress Markers in Elite Athletes Reveals Unique Profiles Associated With Different Sport Disciplines. <i>Frontiers in Physiology</i> , 2020, 11, 600888.	2.8	14
48	A method for the interpretation of pyrolysis-mass spectra of polyamides. <i>Journal of Analytical and Applied Pyrolysis</i> , 1992, 23, 15-32.	5.5	13
49	Elimination profiles of flurbiprofen and its metabolites in equine urine for doping analysis. <i>Talanta</i> , 2001, 55, 1173-1180.	5.5	13
50	Direct injection liquid chromatography/electrospray ionization mass spectrometric horse urine analysis for the quantification and confirmation of threshold substances for doping control. II. Determination of theobromine. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1020-1028.	1.5	13
51	Direct injection horse urine analysis for the quantification and identification of threshold substances for doping control. III. Determination of salicylic acid by liquid chromatography/quadrupole time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1403-1410.	3.7	12
52	Stabilization of human urine doping control samples: III. Recombinant human erythropoietin. <i>Clinica Chimica Acta</i> , 2010, 411, 448-452.	1.1	12
53	Analysis of RBC-microparticles in stored whole blood bags - a promising marker to detect blood doping in sports?. <i>Drug Testing and Analysis</i> , 2017, 9, 1794-1798.	2.6	12
54	A method for the interpretation of pyrolysis-mass spectra of polyesters. <i>Journal of Analytical and Applied Pyrolysis</i> , 1995, 34, 127-142.	5.5	10

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55	Doping control analysis: the 6th World Championships of Athletics, Athens, Greece. <i>TrAC - Trends in Analytical Chemistry</i> , 1999, 18, 1-13.	11.4	10
56	Organization of the doping control laboratory in the Athens 2004 Olympic Games: A case study. <i>Technovation</i> , 2006, 26, 1162-1169.	7.8	10
57	Stabilization of human urine doping control samples: IV. Human chorionic gonadotropin. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1313-1318.	3.7	10
58	Metabolomics and doping analysis: promises and pitfalls. <i>Bioanalysis</i> , 2020, 12, 719-722.	1.5	10
59	The interpretation of pyrolysis mass spectra of polymers using a "hybrid" software system based on library searching with heuristics. <i>Journal of Analytical and Applied Pyrolysis</i> , 1991, 20, 65-71.	5.5	9
60	HEPHESTUS: An expert system in PROLOG for the interpretation of pyrolysis mass spectra of polyesters, polyethers and polyureas. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1993, 19, 75-85.	3.5	9
61	Quantitative structure-retention relationships in doping control. <i>Biomedical Applications</i> , 1996, 687, 151-156.	1.7	9
62	Two-step derivatization procedures for the ionization enhancement of anabolic steroids in LC-ESI-MS for doping control analysis. <i>Bioanalysis</i> , 2012, 4, 167-175.	1.5	9
63	Examination of the kinetic isotopic effect to the acetylation derivatization for the gas chromatographic-combustion-isotope ratio mass spectrometric doping control analysis of endogenous steroids. <i>Drug Testing and Analysis</i> , 2012, 4, 923-927.	2.6	9
64	Analytical progresses of the World Anti-Doping Agency Olympic laboratories: a 2016 update from London to Rio. <i>Bioanalysis</i> , 2016, 8, 2265-2279.	1.5	9
65	Ultra-fast retroactive processing of liquid chromatography high-resolution full-scan Orbitrap mass spectrometry data in anti-doping screening of human urine. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1578-1588.	1.5	9
66	Excretion study of the $\beta_2$ -agonist reproterol in human urine. <i>Biomedical Applications</i> , 1999, 726, 141-148.	1.7	8
67	Metabolism of isometheptene in human urine and analysis by gas chromatography-mass spectrometry in doping control. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 827, 199-204.	2.3	8
68	Analytical progresses of the International Olympic Committee and World Anti-Doping Agency Olympic laboratories. <i>Bioanalysis</i> , 2012, 4, 1549-1563.	1.5	8
69	The effect of fasting during Ramadan on parameters of the haematological and steroidal modules of the athletes biological passport "a pilot study. <i>Drug Testing and Analysis</i> , 2015, 7, 1017-1024.	2.6	8
70	The effect of athletes' hyperhydration on the urinary "steroid profile"™ markers in doping control analysis. <i>Drug Testing and Analysis</i> , 2018, 10, 1458-1468.	2.6	8
71	An expert system for the interpretation of pyrolysis mass spectra of condensation polymers. <i>Analytica Chimica Acta</i> , 1998, 359, 213-225.	5.4	7
72	Gas Chromatographic ? Mass Spectrometric Cardiotonic Glycosides Detection in Equine Urine Doping Analysis. <i>Chromatographia</i> , 2004, 59, S105-S108.	1.3	7

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73	Evolving concepts and techniques for anti-doping. <i>Bioanalysis</i> , 2012, 4, 1667-1680.	1.5	7
74	Doping control container for urine stabilization: a pilot study. <i>Drug Testing and Analysis</i> , 2017, 9, 699-712.	2.6	7
75	Hyperhydration Effect on Pharmacokinetic Parameters and Detection Sensitivity of Recombinant Human Erythropoietin in Urine and Serum Doping Control Analysis of Males. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2162-2172.	3.3	7
76	Direct injection horse urine analysis for the quantification and confirmation of threshold substances for doping control. IV. Determination of 3-methoxytyramine by hydrophilic interaction liquid chromatography/quadrupole time-of-flight mass spectrometry. <i>Drug Testing and Analysis</i> , 2009, 1, 365-371.	2.6	6
77	Estimating measurement uncertainty in quantitative methods not based on chromatography for doping control purposes. <i>Drug Testing and Analysis</i> , 2010, 2, 19-23.	2.6	6
78	Effect of hyperhydration on the pharmacokinetics and detection of orally administered budesonide in doping control analysis. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 1489-1500.	2.9	6
79	Alternative markers for Methyltestosterone misuse in human urine. <i>Drug Testing and Analysis</i> , 2020, 12, 1544-1553.	2.6	5
80	HEPHESTUS: An expert system in PROLOG for the interpretation of the pyrolysis-mass spectra of polyesters, polyethers and polyureas using the certainty factor model. <i>Journal of Analytical and Applied Pyrolysis</i> , 1995, 34, 29-40.	5.5	4
81	Hyperhydration-Induced Decrease in Urinary Luteinizing Hormone Concentrations of Male Athletes in Doping Control Analysis. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2019, 29, 388-396.	2.1	4
82	Detecting "the 2004 Athens Olympic Games. <i>Drug Testing and Analysis</i> , 2020, 12, 641-646.	2.6	4
83	ISO/IEC 17025 Sysmex R-500 Hematology Reticulocyte Analyzer Validation. <i>Laboratory Hematology: Official Publication of the International Society for Laboratory Hematology</i> , 2007, 13, 43-48.	1.2	4
84	Untargeted Metabolomics Identifies a Novel Panel of Markers for Autologous Blood Transfusion. <i>Metabolites</i> , 2022, 12, 425.	2.9	4
85	Assessment of the performance of various search systems for mass spectra files of steroids. <i>Analytica Chimica Acta</i> , 1993, 279, 323-328.	5.4	3
86	Hyperhydration using different hydration agents does not affect the haematological markers of the athlete biological passport in euhydrated volunteers. <i>Journal of Sports Sciences</i> , 2020, 38, 1924-1932.	2.0	3
87	Advances and Challenges in Antidoping Analysis. , 2015, , .		2
88	Biosafety Level 2 cabinet UV-C light exposure of sports antidoping human urine samples does not affect the stability of selected prohibited substances. <i>Drug Testing and Analysis</i> , 2021, 13, 460-465.	2.6	2
89	Horse radish peroxidase-conjugated anti-erythropoietin antibodies for direct recombinant human erythropoietin detection: Proof of concept. <i>Drug Testing and Analysis</i> , 2021, 13, 529-538.	2.6	2
90	Ultrafast retroactive processing by MetAlign of liquid chromatography/high-resolution full-scan Orbitrap mass spectrometry data in WADA Human Urine Sample Monitoring Program. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9141.	1.5	2

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91	Olympic anti-doping laboratory: the analytical technological road from 2016 Rio De Janeiro to 2021 Tokyo. <i>Bioanalysis</i> , 2021, 13, 1511-1527.	1.5	1
92	A Synopsis of the Adverse Analytical and Atypical Findings Between 2005 and 2011 from the Doping Control Laboratory of Athens in Greece. <i>Journal of Analytical Toxicology</i> , 2014, 38, 16-23.	2.8	0