

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
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93
all docs

93
docs citations

93
times ranked

1912
citing authors

#	ARTICLE	IF	CITATIONS
1	Untargeted Metabolomics Identifies a Novel Panel of Markers for Autologous Blood Transfusion. <i>Metabolites</i> , 2022, 12, 425.	2.9	4
2	Biosafety Level 2 cabinet UVâ€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
3	Horseradishâ€peroxidaseâ€conjugated antiâ€erythropoietin antibodies for direct recombinant human erythropoietin detection: Proof of concept. <i>Drug Testing and Analysis</i> , 2021, 13, 529-538.	2.6	2
4	Ultraâ€fast retroactive processing by MetAlign of liquid chromatography/highâ€resolution fullâ€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
5	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
6	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
7	Detecting â€“ the 2004 Athens Olympic Games. <i>Drug Testing and Analysis</i> , 2020, 12, 641-646.	2.6	4
8	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
9	Metabolomics and doping analysis: promises and pitfalls. <i>Bioanalysis</i> , 2020, 12, 719-722.	1.5	10
10	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
11	Alternative markers for Methyltestosterone misuse in human urine. <i>Drug Testing and Analysis</i> , 2020, 12, 1544-1553.	2.6	5
12	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
13	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
14	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
15	Ultraâ€fast retroactive processing of liquid chromatography highâ€resolution fullâ€scan Orbitrap mass spectrometry data in antiâ€doping screening of human urine. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1578-1588.	1.5	9
16	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
17	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
18	Metabolic GWAS of elite athletes reveals novel genetically-influenced metabolites associated with athletic performance. <i>Scientific Reports</i> , 2019, 9, 19889.	3.3	33

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19	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
20	High resolution full scan liquid chromatography mass spectrometry comprehensive screening in sports antidoping urine analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 151, 10-24.	2.8	48
21	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
22	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
23	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
24	A pilot study comparing the metabolic profiles of elite-level athletes from different sporting disciplines. <i>Sports Medicine - Open</i> , 2018, 4, 2.	3.1	94
25	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
26	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
27	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
28	Doping control container for urine stabilization: a pilot study. <i>Drug Testing and Analysis</i> , 2017, 9, 699-712.	2.6	7
29	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
30	Athlome Project Consortium: a concerted effort to discover genomic and other omic markers of athletic performance. <i>Physiological Genomics</i> , 2016, 48, 183-190.	2.3	96
31	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
32	Comparison of sulfoconjugated and glucoconjugated urinary metabolites for detection of methenolone misuse in doping control by LC-HRMS, GC-MS and GC-HRMS. <i>Journal of Mass Spectrometry</i> , 2015, 50, 740-748.	1.6	37
33	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
34	Advances and Challenges in Antidoping Analysis. , 2015, , .		2
35	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
36	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

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37	Advances in the detection of designer steroids in anti-doping. <i>Bioanalysis</i> , 2014, 6, 881-896.	1.5	24
38	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
39	Sports doping: Emerging designer and therapeutic \hat{I}^{22} -agonists. <i>Clinica Chimica Acta</i> , 2013, 425, 242-258.	1.1	24
40	Chemical derivatization to enhance ionization of anabolic steroids in LC-MS for doping-control analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 42, 137-156.	11.4	41
41	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
42	Analytical progresses of the International Olympic Committee and World Anti-Doping Agency Olympic laboratories. <i>Bioanalysis</i> , 2012, 4, 1549-1563.	1.5	8
43	Evolving concepts and techniques for anti-doping. <i>Bioanalysis</i> , 2012, 4, 1667-1680.	1.5	7
44	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
45	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
46	Stabilization of human urine doping control samples: a current opinion. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 553-561.	3.7	16
47	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
48	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
49	Generic sample preparation combined with high-resolution liquid chromatography-time-of-flight mass spectrometry for unification of urine screening in doping-control laboratories. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2583-2598.	3.7	50
50	Stabilization of human urine doping control samples: IV. Human chorionic gonadotropin. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1313-1318.	3.7	10
51	Screening in veterinary drug analysis and sports doping control based on full-scan, accurate-mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1250-1268.	11.4	80
52	Preventive doping control screening analysis of prohibited substances in human urine using rapid-resolution liquid chromatography/high-resolution time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1595-1609.	1.5	78
53	Stabilization of human urine doping control samples: III. Recombinant human erythropoietin. <i>Clinica Chimica Acta</i> , 2010, 411, 448-452.	1.1	12
54	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

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55	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
56	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
57	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
58	Statistical analysis of fragmentation patterns of electron ionization mass spectra of enolized-trimethylsilylated anabolic androgenic steroids. <i>International Journal of Mass Spectrometry</i> , 2009, 285, 58-69.	1.5	36
59	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
60	Stabilization of human urine doping control samples: II. Microbial degradation of steroids. <i>Analytical Biochemistry</i> , 2009, 388, 146-154.	2.4	30
61	Stabilization of human urine doping control samples. <i>Analytical Biochemistry</i> , 2009, 388, 179-191.	2.4	19
62	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
63	Structural characteristics of anabolic androgenic steroids contributing to binding to the androgen receptor and to their anabolic and androgenic activities. <i>Steroids</i> , 2009, 74, 172-197.	1.8	99
64	Schemes of metabolic patterns of anabolic androgenic steroids for the estimation of metabolites of designer steroids in human urine. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2009, 115, 44-61.	2.5	52
65	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
66	Multi-detection of corticosteroids in sports doping and veterinary control using high-resolution liquid chromatography/time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2007, 586, 137-146.	5.4	85
67	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
68	Preventive doping control analysis: liquid and gas chromatography time-of-flight mass spectrometry for detection of designer steroids. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2439-2446.	1.5	99
69	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
70	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
71	An overview of the doping control analysis during the Olympic Games of 2004 in Athens, Greece. <i>Analytica Chimica Acta</i> , 2006, 555, 1-13.	5.4	47
72	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 ephedrine, salbutamol and morphine. <i>Analytica Chimica Acta</i> , 2006, 573-574, 242-249.	5.4	64

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73	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
74	Another designer steroid: discovery, synthesis, and detection of ?madol? in urine. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 781-784.	1.5	134
75	Gas Chromatographic ? Mass Spectrometric Cardiotonic Glycosides Detection in Equine Urine Doping Analysis. <i>Chromatographia</i> , 2004, 59, S105-S108.	1.3	7
76	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
77	Quantitative structure-retention relationship study of β_1 -, β_2 -agonists using multiple linear regression and partial least-squares procedures. <i>Analytica Chimica Acta</i> , 2004, 512, 165-171.	5.4	28
78	Elimination profiles of flurbiprofen and its metabolites in equine urine for doping analysis. <i>Talanta</i> , 2001, 55, 1173-1180.	5.5	13
79	Determination of ephedrines in urine by gas chromatography-mass spectrometry. <i>Biomedical Applications</i> , 2001, 758, 311-314.	1.7	41
80	Study of excretion of ecdysterone in human urine. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1796-1801.	1.5	29
81	Excretion study of the β_2 -agonist reproterol in human urine. <i>Biomedical Applications</i> , 1999, 726, 141-148.	1.7	8
82	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
83	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
84	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
85	Quantitative structure-retention relationships in doping control. <i>Biomedical Applications</i> , 1996, 687, 151-156.	1.7	9
86	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
87	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
88	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
89	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
90	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

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91	The interpretation of pyrolysis mass spectra of polymers using a "hybrid" software system based on library searching with heuristics. Journal of Analytical and Applied Pyrolysis, 1991, 20, 65-71.	5.5	9
92	Prediction of gas chromatographic relative retention times of anabolic steroids. Analytical Chemistry, 1991, 63, 2025-2028.	6.5	27