

# Maria Kristina Parr

## List of Publications by Year in descending order

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Version: 2024-02-01

110  
papers

2,935  
citations

159585

30  
h-index

197818

49  
g-index

117  
all docs

117  
docs citations

117  
times ranked

2376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nutritional supplements cross-contaminated and faked with doping substances. <i>Journal of Mass Spectrometry</i> , 2008, 43, 892-902.	1.6	319
2	Analysis of Non-Hormonal Nutritional Supplements for Anabolic-Androgenic Steroids - Results of an International Study. <i>International Journal of Sports Medicine</i> , 2004, 25, 124-129.	1.7	264
3	Mass spectrometric identification and characterization of a new long-term metabolite of metandienone in human urine. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2252-2258.	1.5	114
4	NDMA impurity in valsartan and other pharmaceutical products: Analytical methods for the determination of N-nitrosamines. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 164, 536-549.	2.8	110
5	Detection of the misuse of steroids in doping control. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010, 121, 528-537.	2.5	89
6	Estrogen receptor beta is involved in skeletal muscle hypertrophy induced by the phytoecdysteroid ecdysterone. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 1861-1872.	3.3	82
7	Ecdysteroids: A novel class of anabolic agents?. <i>Biology of Sport</i> , 2014, 32, 169-173.	3.2	75
8	Life cycle management of analytical methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 147, 506-517.	2.8	75
9	Ecdysteroids as non-conventional anabolic agent: performance enhancement by ecdysterone supplementation in humans. <i>Archives of Toxicology</i> , 2019, 93, 1807-1816.	4.2	75
10	Physicochemical characterization of biopharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 130, 366-389.	2.8	58
11	Detection and Characterization of a New Metabolite of 17 $\beta$ -Methyltestosterone. <i>Drug Metabolism and Disposition</i> , 2009, 37, 2153-2162.	3.3	50
12	SFC for chiral separations in bioanalysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 162, 47-59.	2.8	47
13	Clenbuterol marketed as dietary supplement. <i>Biomedical Chromatography</i> , 2008, 22, 298-300.	1.7	46
14	Distinction of clenbuterol intake from drug or contaminated food of animal origin in a controlled administration trial – the potential of enantiomeric separation for doping control analysis. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2017, 34, 525-535.	2.3	46
15	Synthetic Androgens as Designer Supplements. <i>Current Neuropharmacology</i> , 2015, 13, 89-100.	2.9	43
16	Analytical strategies for the detection of non-labelled anabolic androgenic steroids in nutritional supplements. <i>Food Additives and Contaminants</i> , 2004, 21, 632-640.	2.0	42
17	Methods in endogenous steroid profiling – A comparison of gas chromatography mass spectrometry (GC-MS) with supercritical fluid chromatography tandem mass spectrometry (SFC-MS/MS). <i>Journal of Chromatography A</i> , 2018, 1554, 101-116.	3.7	41
18	Current methods for stress marker detection in saliva. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 191, 113604.	2.8	41

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19	High amounts of 17-methylated anabolic-androgenic steroids in effervescent tablets on the dietary supplement market. <i>Biomedical Chromatography</i> , 2007, 21, 164-168.	1.7	35
20	Unexpected contribution of cytochrome P450 enzymes CYP11B2 and CYP21, as well as CYP3A4 in xenobiotic androgen elimination – Insights from metandienone metabolism. <i>Toxicology Letters</i> , 2012, 213, 381-391.	0.8	35
21	Metabolism of 4-hydroxyandrostenedione and 4-hydroxytestosterone: Mass spectrometric identification of urinary metabolites. <i>Steroids</i> , 2007, 72, 278-286.	1.8	34
22	Investigations of the microbial transformation of cortisol to prednisolone in urine samples. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2012, 129, 54-60.	2.5	34
23	The use of nails as an alternative matrix for the long-term detection of previous drug intake: validation of sensitive UHPLC-MS/MS methods for the quantification of 76 substances and comparison of analytical results for drugs in nail and hair samples. <i>Forensic Science, Medicine, and Pathology</i> , 2016, 12, 416-434.	1.4	34
24	SFC-MS/MS as an orthogonal technique for improved screening of polar analytes in anti-doping control. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6789-6797.	3.7	34
25	Comparability study of Rituximab originator and follow-on biopharmaceutical. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 140, 239-251.	2.8	33
26	Splitless hyphenation of SFC with MS by APCI, APPI, and ESI exemplified by steroids as model compounds. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1091, 67-78.	2.3	33
27	Combination of liquid chromatography tandem mass spectrometry in different scan modes with human and chimeric mouse urine for the study of steroid metabolism. <i>Drug Testing and Analysis</i> , 2009, 1, 554-567.	2.6	32
28	CYP21-catalyzed production of the long-term urinary metandienone metabolite 17 $\beta$ -hydroxymethyl-17 $\alpha$ -methyl-18-norandrosta-1,4,13-trien-3-one: a contribution to the fight against doping. <i>Biological Chemistry</i> , 2010, 391, 119-27.	2.5	32
29	Polyglycerol-opioid conjugate produces analgesia devoid of side effects. <i>ELife</i> , 2017, 6, .	6.0	32
30	Analytical methods for the detection of clenbuterol. <i>Bioanalysis</i> , 2009, 1, 437-450.	1.5	31
31	Detection of $\beta$ -6-methyltestosterone in a “dietary supplement” and GC-MS/MS investigations on its urinary metabolism. <i>Toxicology Letters</i> , 2011, 201, 101-104.	0.8	31
32	Targeting the administration of ecdysterone in doping control samples. <i>Forensic Toxicology</i> , 2020, 38, 172-184.	2.4	31
33	Seized designer supplement named “1-Androsterone”. Identification as 3 $\beta$ -hydroxy-5 $\alpha$ -androst-1-en-17-one and its urinary elimination. <i>Steroids</i> , 2011, 76, 540-547.	1.8	30
34	Metabolism of androsta $\alpha$ -1,4,6 $\alpha$ -trien $\alpha$ -3,17 $\alpha$ -dione and detection by gas chromatography/mass spectrometry in doping control. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 207-218.	1.5	29
35	Ion exchange in supercritical fluid chromatography tandem mass spectrometry (SFC-MS/MS): Application for polar and ionic drugs and metabolites in forensic and anti-doping analysis. <i>Journal of Chromatography A</i> , 2020, 1614, 460726.	3.7	29
36	Sports-Related Issues and Biochemistry of Natural and Synthetic Anabolic Substances. <i>Endocrinology and Metabolism Clinics of North America</i> , 2010, 39, 45-57.	3.2	28

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37	Conversion of chenodeoxycholic acid to cholic acid by human CYP8B1. <i>Biological Chemistry</i> , 2019, 400, 625-628.	2.5	28
38	Steroidal isomers with uniform mass spectra of their per-TMS derivatives: Synthesis of 17-hydroxyandrostan-3-ones, androst-1-, and -4-ene-3,17-diols. <i>Steroids</i> , 2007, 72, 545-551.	1.8	27
39	The Effect of Proprioceptive Neuromuscular Facilitation and Static Stretch Training on Running Mechanics. <i>Journal of Strength and Conditioning Research</i> , 2009, 23, 1175-1180.	2.1	26
40	Physicochemical Characterization, Glycosylation Pattern and Biosimilarity Assessment of the Fusion Protein Etanercept. <i>Protein Journal</i> , 2018, 37, 164-179.	1.6	25
41	Identification of steroid isoxazole isomers marketed as designer supplement. <i>Steroids</i> , 2009, 74, 322-328.	1.8	24
42	Serum testosterone and urinary excretion of steroid hormone metabolites after administration of a high-dose zinc supplement. <i>European Journal of Clinical Nutrition</i> , 2009, 63, 65-70.	2.9	23
43	Risk assessment for nitrosated pharmaceuticals: A future perspective in drug development. <i>Archiv Der Pharmazie</i> , 2022, 355, e2100435.	4.1	23
44	Development of criteria for the detection of adrenosterone administration by gas chromatography-mass spectrometry and gas chromatography-combustion-isotope ratio mass spectrometry for doping control. <i>Drug Testing and Analysis</i> , 2009, 1, 587-595.	2.6	22
45	High doses of the anabolic steroid metandienone found in dietary supplements. <i>European Journal of Sport Science</i> , 2003, 3, 1-5.	2.7	21
46	6 $\alpha$ -Methylandrostenedione: gas chromatographic mass spectrometric detection in doping control. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 321-329.	1.5	20
47	Combined chemical and biotechnological production of 20 $\beta$ OH-NorDHCMT, a long-term metabolite of Oral-Turinabol (DHCMT). <i>Journal of Inorganic Biochemistry</i> , 2018, 183, 165-171.	3.5	20
48	Analytical lifecycle management for comprehensive and universal nitrosamine analysis in various pharmaceutical formulations by supercritical fluid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 197, 113960.	2.8	20
49	Terbutaline sulfoconjugate: characterization and urinary excretion monitored by LC/ESI-MS/MS. <i>Drug Testing and Analysis</i> , 2009, 1, 568-575.	2.6	18
50	Toxicological findings in suicides – frequency of antidepressant and antipsychotic substances. <i>Forensic Science, Medicine, and Pathology</i> , 2019, 15, 23-30.	1.4	17
51	Detection and quantification of synthetic cathinones and selected piperazines in hair by LC-MS/MS. <i>Forensic Science, Medicine, and Pathology</i> , 2020, 16, 32-42.	1.4	17
52	INGESTION OF DESIGNER SUPPLEMENTS PRODUCED POSITIVE DOPING CASES UNEXPECTED BY THE ATHLETES. <i>Biology of Sport</i> , 2011, 28, 153-157.	3.2	16
53	Combined effects of androgen anabolic steroids and physical activity on the hypothalamic-pituitary-gonadal axis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 150, 86-96.	2.5	15
54	Long-term detection of methyltestosterone (ab-) use by a yeast transactivation system. <i>Archives of Toxicology</i> , 2011, 85, 285-292.	4.2	14

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55	Detection of formestane abuse by mass spectrometric techniques. <i>Drug Testing and Analysis</i> , 2014, 6, 1133-1140.	2.6	14
56	Forced Degradation Testing as Complementary Tool for Biosimilarity Assessment. <i>Bioengineering</i> , 2019, 6, 62.	3.5	14
57	Fine-mapping of the substrate specificity of human steroid 21-hydroxylase (CYP21A2). <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019, 194, 105446.	2.5	14
58	Concentrations of Antidepressants, Antipsychotics, and Benzodiazepines in Hair Samples from Postmortem Cases. <i>SN Comprehensive Clinical Medicine</i> , 2020, 2, 284-300.	0.6	13
59	New Insights into the Metabolism of Methyltestosterone and Metandienone: Detection of Novel A-Ring Reduced Metabolites. <i>Molecules</i> , 2021, 26, 1354.	3.8	13
60	How reliable is dietary supplement labelling? Experiences from the analysis of ecdysterone supplements. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 177, 112877.	2.8	12
61	The influence of chronic l-carnitine supplementation on the formation of preneoplastic and atherosclerotic lesions in the colon and aorta of male F344 rats. <i>Archives of Toxicology</i> , 2015, 89, 2079-2087.	4.2	11
62	Functional Expression of All Human Sulfotransferases in Fission Yeast, Assay Development, and Structural Models for Isoforms SULT4A1 and SULT6B1. <i>Biomolecules</i> , 2020, 10, 1517.	4.0	11
63	Characterization of identity, metabolism and androgenic activity of 17-hydroxyandrost-3,5-diene by GC-MS and a yeast transactivation system. <i>Archives of Toxicology</i> , 2012, 86, 1873-1884.	4.2	10
64	Structure assisted impurity profiling for rapid method development in liquid chromatography. <i>Journal of Chromatography A</i> , 2018, 1577, 38-46.	3.7	10
65	Determination of neurosteroids in human cerebrospinal fluid in the 21st century: A review. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2020, 204, 105753.	2.5	10
66	Endocrine Characterization of the Designer Steroid Methyl-1-Testosterone: Investigations on Tissue-Specific Anabolic-Androgenic Potency, Side Effects, and Metabolism. <i>Endocrinology</i> , 2011, 152, 4718-4728.	2.8	9
67	Quality-by-Design Is a Tool for Quality Assurance in the Assessment of Enantioseparation of a Model Active Pharmaceutical Ingredient. <i>Pharmaceuticals</i> , 2020, 13, 364.	3.8	9
68	Prevalence and concentrations of new designer stimulants, synthetic opioids, benzodiazepines, and hallucinogens in postmortem hair samples: A 13-year retrospective study. <i>Drug Testing and Analysis</i> , 2022, 14, 110-121.	2.6	9
69	Urinary Elimination of Ecdysterone and Its Metabolites Following a Single-Dose Administration in Humans. <i>Metabolites</i> , 2021, 11, 366.	2.9	8
70	Pharmacology of doping agents mechanisms promoting muscle hypertrophy. <i>AIMS Molecular Science</i> , 2018, 5, 145-155.	0.5	8
71	Androgen- and estrogen-receptor mediated activities of 4-hydroxytestosterone, 4-hydroxyandrostenedione and their human metabolites in yeast based assays. <i>Toxicology Letters</i> , 2018, 292, 39-45.	0.8	7
72	Influence of Indomethacin on Steroid Metabolism: Endocrine Disruption and Confounding Effects in Urinary Steroid Profiling of Anti-Doping Analyses. <i>Metabolites</i> , 2020, 10, 463.	2.9	7

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73	Influence of Pain Killers on the Urinary Anabolic Steroid Profile. <i>Journal of Analytical Toxicology</i> , 2020, 44, 871-879.	2.8	7
74	Detection and quantitation of ecdysterone in human serum by liquid chromatography coupled to tandem mass spectrometry. <i>Steroids</i> , 2020, 157, 108603.	1.8	7
75	Coupling high-resolution mass spectrometry and chemometrics for the structural characterization of anabolic-androgenic steroids and the early detection of unknown designer structures. <i>Talanta</i> , 2021, 227, 122173.	5.5	7
76	Nicotine delivery and relief of craving after consumption of European JUUL e-cigarettes prior and after pod modification. <i>Scientific Reports</i> , 2021, 11, 12078.	3.3	7
77	Rapid, sensitive, and reliable quantitation of nicotine and its main metabolites cotinine and trans-3-hydroxycotinine by LC-MS/MS: Method development and validation for human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1179, 122736.	2.3	7
78	Supercritical fluid chromatography mass spectrometry as an emerging technique in doping control analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 147, 116517.	11.4	7
79	Case Study: Doping Substances in Equestrian Food Supplements. <i>Chromatographia</i> , 2004, 59, S131-S135.	1.3	6
80	Drug-drug interaction and doping: Effect of non-prohibited drugs on the urinary excretion profile of methandienone. <i>Drug Testing and Analysis</i> , 2018, 10, 1554-1565.	2.6	6
81	Two dimensional chromatography mass spectrometry: Quantitation of chiral shifts in metabolism of propranolol in bioanalysis. <i>Journal of Chromatography A</i> , 2020, 1617, 460828.	3.7	6
82	Pursuing Experimental Reproducibility: An Efficient Protocol for the Preparation of Cerebrospinal Fluid Samples for NMR-Based Metabolomics and Analysis of Sample Degradation. <i>Metabolites</i> , 2020, 10, 251.	2.9	6
83	Controlled administration of dehydrochloromethyltestosterone in humans: Urinary excretion and long-term detection of metabolites for anti-doping purpose. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021, 214, 105978.	2.5	6
84	The Assay of Endogenous and Exogenous Anabolic Androgenic Steroids. <i>Growth Hormone</i> , 2011, , 121-130.	0.2	6
85	Anabolic and androgenic activity of 19-norandrostenedione after oral and subcutaneous administration—Analysis of side effects and metabolism. <i>Toxicology Letters</i> , 2009, 188, 137-141.	0.8	5
86	Photostability testing using online reactor HPLC hyphenation and mass spectrometric compound identification illustrated by ketoprofen as model compound. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 145, 414-422.	2.8	5
87	In-depth gas chromatography/tandem mass spectrometry fragmentation analysis of formestane and evaluation of mass spectral discrimination of isomeric 3-keto-4-ene hydroxy steroids. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8937.	1.5	5
88	Development and applications of liquid chromatography-mass spectrometry for simultaneous analysis of anti-malarial drugs in pharmaceutical formulations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 195, 113855.	2.8	5
89	Metabolomics workflow as a driven tool for rapid detection of metabolites in doping analysis. Development and validation. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, e9217.	1.5	5
90	Human Sulfotransferase Assays With PAPS Production in situ. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 827638.	3.5	5

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91	Quality by design approach for enantioseparation of terbutaline and its sulfate conjugate metabolite for bioanalytical application using supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2022, 1676, 463285.	3.7	5
92	A novel combined approach to detect androgenic activities with yeast based assays in <i>Schizosaccharomyces pombe</i> and <i>Saccharomyces cerevisiae</i> . <i>Toxicology Letters</i> , 2010, 199, 410-415.	0.8	4
93	Bioengineering of rFVIIa Biopharmaceutical and Structure Characterization for Biosimilarity Assessment. <i>Bioengineering</i> , 2018, 5, 7.	3.5	4
94	Metabolism of formestane in humans: Identification of urinary biomarkers for antidoping analysis. <i>Steroids</i> , 2019, 146, 34-42.	1.8	4
95	Application of SFC for bioanalysis. , 2020, , 151-183.		4
96	Mass spectral fragmentation analyses of isotopically labelled hydroxy steroids using gas chromatography/electron ionization low-resolution mass spectrometry: A practical approach. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8769.	1.5	4
97	Mass spectrometric analysis of 7 $\alpha$ -oxygenated androst $\alpha$ -5 $\alpha$ -ene structures. Influence in trimethylsilyl derivative formation. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8834.	1.5	4
98	Application of sub $\alpha$ -supercritical fluid chromatography for the fingerprinting of a complex therapeutic peptide. <i>Journal of Separation Science</i> , 2022, 45, 3095-3104.	2.5	4
99	Authenticity control and identification of origin of synthetic creatine-monohydrate by isotope ratio mass spectrometry. <i>Food Chemistry</i> , 2011, 125, 767-772.	8.2	3
100	What is the potential of measuring the enantiomeric ratio of drugs using supercritical fluid chromatography $\alpha$ -MS?. <i>Bioanalysis</i> , 2014, 6, 3267-3270.	1.5	3
101	Effect of non $\alpha$ -prohibited drugs on the phase II metabolic profile of morphine. An in vitro investigation for doping control purposes. <i>Drug Testing and Analysis</i> , 2018, 10, 984-994.	2.6	3
102	Reconsidering mass spectrometric fragmentation in electron ionization mass spectrometry $\alpha$ - new insights from recent instrumentation and isotopic labelling exemplified by ketoprofen and related compounds. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 215-228.	1.5	3
103	Automated Real-Time Tumor Pharmacokinetic Profiling in 3D Models: A Novel Approach for Personalized Medicine. <i>Pharmaceutics</i> , 2020, 12, 413.	4.5	3
104	Purification and Characterization of Antibodies Directed against the $\alpha$ -Gal Epitope. <i>Biochem</i> , 2021, 1, 81-97.	1.2	3
105	Low $\alpha$ -energy electron ionization optimization for steroidomics analysis using high $\alpha$ -resolution mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9196.	1.5	3
106	The ELSA trial: single versus combinatory effects of non-prohibited beta-2 agonists on skeletal muscle metabolism, cardio-pulmonary function and endurance performance $\alpha$ - study protocol for a randomized 4-way balanced cross-over trial. <i>Trials</i> , 2021, 22, 903.	1.6	2
107	Metabolism of the antipsychotic drug olanzapine by CYP3A43. <i>Xenobiotica</i> , 2022, , 1-29.	1.1	2
108	Complete Reaction Phenotyping of Propranolol and 4-Hydroxypropranolol with the 19 Enzymes of the Human UGT1 and UGT2 Families. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7476.	4.1	2

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109	Corticosteroid Biosynthesis Revisited: No Direct Hydroxylation of Pregnenolone by Steroid 21-Hydroxylase. <i>Frontiers in Endocrinology</i> , 2021, 12, 633785.	3.5	1
110	Medaka embryos as a model for metabolism of anabolic steroids. <i>Archives of Toxicology</i> , 2022, , 1.	4.2	1