

Josep Marcos

List of Publications by Year in descending order

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66
papers

3,012
citations

147801

31
h-index

168389

53
g-index

66
all docs

66
docs citations

66
times ranked

3205
citing authors

#	ARTICLE	IF	CITATIONS
1	In humans, early cortisol biosynthesis provides a mechanism to safeguard female sexual development. <i>Journal of Clinical Investigation</i> , 2006, 116, 953-960.	8.2	235
2	A novel pathway for sequential transformation of 7 α -dehydrocholesterol and expression of the P450 scc system in mammalian skin. <i>FEBS Journal</i> , 2004, 271, 4178-4188.	0.2	219
3	Hexose-6-phosphate Dehydrogenase Knock-out Mice Lack 11 β -Hydroxysteroid Dehydrogenase Type 1-mediated Glucocorticoid Generation. <i>Journal of Biological Chemistry</i> , 2006, 281, 6546-6551.	3.4	189
4	Maternal separation induces neuroinflammation and long-lasting emotional alterations in mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 65, 104-117.	4.8	110
5	Identifying Smith-Lemli-Opitz syndrome in conjunction with prenatal screening for Down syndrome. <i>Prenatal Diagnosis</i> , 2006, 26, 842-849.	2.3	108
6	Prenatal diagnosis of P450 oxidoreductase deficiency (ORD): A disorder causing low pregnancy estriol, maternal and fetal virilization, and the Antley-Bixler syndrome phenotype. <i>American Journal of Medical Genetics Part A</i> , 2004, 129A, 105-112.	2.4	93
7	Use of LC-MS/MS for the Open Detection of Steroid Metabolites Conjugated with Glucuronic Acid. <i>Analytical Chemistry</i> , 2013, 85, 5005-5014.	6.5	93
8	Biochemical diagnosis of Antley-Bixler syndrome by steroid analysis. <i>American Journal of Medical Genetics Part A</i> , 2004, 128A, 223-231.	2.4	74
9	Analytical strategies based on mass spectrometric techniques for the study of steroid metabolism. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 53, 106-116.	11.4	74
10	Targeting tryptophan and tyrosine metabolism by liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1434, 91-101.	3.7	72
11	Fast screening of anabolic steroids and other banned doping substances in human urine by gas chromatography/tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2002, 37, 1059-1073.	1.6	71
12	Derivatization of steroids in biological samples for GC-MS and LC-MS analyses. <i>Bioanalysis</i> , 2015, 7, 2515-2536.	1.5	71
13	Dissecting the energy metabolism in <i>Mycoplasma pneumoniae</i> through genome-scale metabolic modeling. <i>Molecular Systems Biology</i> , 2013, 9, 653.	7.2	69
14	Alternative long-term markers for the detection of methyltestosterone misuse. <i>Steroids</i> , 2013, 78, 44-52.	1.8	67
15	Circadian Variation of Melatonin, Light Exposure, and Diurnal Preference in Day and Night Shift Workers of Both Sexes. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2014, 23, 1176-1186.	2.5	66
16	Investigation of endogenous corticosteroids profiles in human urine based on liquid chromatography tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2014, 812, 92-104.	5.4	60
17	New potential markers for the detection of boldenone misuse. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2012, 132, 239-246.	2.5	59
18	GC/MS in Recent Years Has Defined the Normal and Clinically Disordered Steroidome: Will It Soon Be Surpassed by LC/Tandem MS in This Role?. <i>Journal of the Endocrine Society</i> , 2018, 2, 974-996.	0.2	57

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19	Increased and Mistimed Sex Hormone Production in Night Shift Workers. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2015, 24, 854-863.	2.5	54
20	Identification of plasma glucocorticoids in pallid sturgeon in response to stress. <i>General and Comparative Endocrinology</i> , 2007, 154, 98-104.	1.8	52
21	The implications of 7-dehydrosterol-7-reductase deficiency (Smith's-Lemli-Opitz syndrome) to neurosteroid production. <i>Steroids</i> , 2004, 69, 51-60.	1.8	48
22	Current LC-MS methods and procedures applied to the identification of new steroid metabolites. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2016, 162, 41-56.	2.5	44
23	Testosterone metabolism revisited: discovery of new metabolites. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1759-1770.	3.7	43
24	Targeting human urinary metabolome by LC-MS/MS: a review. <i>Bioanalysis</i> , 2018, 10, 489-516.	1.5	42
25	Quantifying endogenous androgens, estrogens, pregnenolone and progesterone metabolites in human urine by gas chromatography tandem mass spectrometry. <i>Talanta</i> , 2017, 169, 20-29.	5.5	40
26	Untargeted Metabolomics in Doping Control: Detection of New Markers of Testosterone Misuse by Ultrahigh Performance Liquid Chromatography Coupled to High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 8373-8380.	6.5	39
27	Dehydrosteroid measurements in maternal urine or serum for the prenatal diagnosis of Smith's-Lemli-Opitz syndrome (SLOS). <i>American Journal of Medical Genetics, Part A</i> , 2007, 143A, 2129-2136.	1.2	37
28	Prevalence of steroid sulfatase deficiency in California according to race and ethnicity. <i>Prenatal Diagnosis</i> , 2010, 30, 893-898.	2.3	37
29	Identification of budesonide metabolites in human urine after oral administration. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 325-340.	3.7	37
30	Detection, synthesis and characterization of metabolites of steroid hormones conjugated with cysteine. <i>Steroids</i> , 2013, 78, 327-336.	1.8	37
31	Mass spectrometric behavior of anabolic androgenic steroids using gas chromatography coupled to atmospheric pressure chemical ionization source. Part I: Ionization. <i>Journal of Mass Spectrometry</i> , 2014, 49, 509-521.	1.6	33
32	Detection of dihydrotestosterone gel, oral dehydroepiandrosterone, and testosterone gel misuse through the quantification of testosterone metabolites released after alkaline treatment. <i>Drug Testing and Analysis</i> , 2011, 3, 828-835.	2.6	31
33	Urinary profile of methylprednisolone and its metabolites after oral and topical administrations. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013, 138, 214-221.	2.5	31
34	Alternative markers for the long-term detection of oral testosterone misuse. <i>Steroids</i> , 2011, 76, 1367-1376.	1.8	29
35	Using complementary mass spectrometric approaches for the determination of methylprednisolone metabolites in human urine. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 541-553.	1.5	29
36	Potential of atmospheric pressure chemical ionization source in gas chromatography tandem mass spectrometry for the screening of urinary exogenous androgenic anabolic steroids. <i>Analytica Chimica Acta</i> , 2016, 906, 128-138.	5.4	29

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37	Chronic pain causes a persistent anxiety state leading to increased ethanol intake in CD1 mice. <i>Journal of Psychopharmacology</i> , 2016, 30, 188-203.	4.0	29
38	Paralogues of Porcine Aromatase Cytochrome P450: A Novel Hydroxylase Activity Is Associated with the Survival of a Duplicated Gene. <i>Endocrinology</i> , 2004, 145, 2157-2164.	2.8	28
39	Cholesterol biosynthesis from birth to adulthood in a mouse model for 7-dehydrosterol reductase deficiency (Smith's "Opitz syndrome"). <i>Steroids</i> , 2007, 72, 802-808.	1.8	27
40	Large-scale metabolome analysis and quantitative integration with genomics and proteomics data in <i>Mycoplasma pneumoniae</i> . <i>Molecular BioSystems</i> , 2013, 9, 1743.	2.9	27
41	Discrimination of Prohibited Oral Use From Authorized Inhaled Treatment of Budesonide in Sports. <i>Therapeutic Drug Monitoring</i> , 2013, 35, 118-128.	2.0	27
42	Maternal urine and serum steroid measurements to identify steroid sulfatase deficiency (STSD) in second trimester pregnancies. <i>Prenatal Diagnosis</i> , 2009, 29, 771-780.	2.3	26
43	Detection and characterization of urinary metabolites of boldione by LC-MS/MS. Part I: Phase I metabolites excreted free, as glucuronide and sulfate conjugates, and released after alkaline treatment of the urine. <i>Drug Testing and Analysis</i> , 2012, 4, 775-785.	2.6	26
44	Liquid chromatography clean-up method to improve identification of anabolic agents in human urine by gas chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , 2004, 522, 79-88.	5.4	25
45	Sensitive and robust method for anabolic agents in human urine by gas chromatography-triple quadrupole mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 897, 85-89.	2.3	24
46	Microwave-assisted derivatization: Application to steroid profiling by gas chromatography/mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 960, 8-13.	2.3	24
47	Comprehensive analysis of the tryptophan metabolome in urine of patients with acute intermittent porphyria. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1060, 347-354.	2.3	23
48	Quantification of testosterone and metabolites released after alkaline treatment in human urine. <i>Drug Testing and Analysis</i> , 2010, 2, 630-636.	2.6	21
49	Detection and characterization of triamcinolone acetonide metabolites in human urine by liquid chromatography/tandem mass spectrometry after intramuscular administration. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1829-1839.	1.5	21
50	SULFATION PATHWAYS: Alternate steroid sulfation pathways targeted by LC-MS/MS analysis of disulfates: application to prenatal diagnosis of steroid synthesis disorders. <i>Journal of Molecular Endocrinology</i> , 2018, 61, M1-M12.	2.5	20
51	Recent developments in MS for small molecules: application to human doping control analysis. <i>Bioanalysis</i> , 2012, 4, 197-212.	1.5	18
52	Evaluation of urinary excretion of androgens conjugated to cysteine in human pregnancy by mass spectrometry. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2014, 139, 192-200.	2.5	18
53	Evaluation of the reporting level to detect triamcinolone acetonide misuse in sports. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 145, 94-102.	2.5	18
54	Ultra high performance liquid chromatography tandem mass spectrometric detection of glucuronides resistant to enzymatic hydrolysis: Implications to doping control analysis. <i>Analytica Chimica Acta</i> , 2015, 895, 35-44.	5.4	17

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55	Evaluation of markers out of the steroid profile for the screening of testosterone misuse. Part I: Transdermal administration. <i>Drug Testing and Analysis</i> , 2018, 10, 821-831.	2.6	16
56	Detection and characterization of urinary metabolites of boldione by LC-MS/MS. Part II: Conjugates with cysteine and N-acetylcysteine. <i>Drug Testing and Analysis</i> , 2012, 4, 786-797.	2.6	15
57	Gas chromatography-mass spectrometry profiling of steroids in urine of patients with acute intermittent porphyria. <i>Clinical Biochemistry</i> , 2013, 46, 819-824.	1.9	14
58	Evaluation of markers out of the steroid profile for the screening of testosterone misuse. Part II: Intramuscular administration. <i>Drug Testing and Analysis</i> , 2018, 10, 849-859.	2.6	12
59	Adrenal hormonal imbalance in acute intermittent porphyria patients: results of a case control study. <i>Orphanet Journal of Rare Diseases</i> , 2014, 9, 54.	2.7	11
60	Urinary cysteinyl progestogens: Occurrence and origin. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 152, 53-61.	2.5	10
61	Binge ethanol drinking during adolescence modifies cocaine responses in mice. <i>Journal of Psychopharmacology</i> , 2017, 31, 86-95.	4.0	8
62	Formation of δ^1 and δ^6 testosterone metabolites by human hepatocytes. <i>Steroids</i> , 2015, 95, 66-72.	1.8	7
63	Factors affecting urinary excretion of testosterone metabolites conjugated with cysteine. <i>Drug Testing and Analysis</i> , 2016, 8, 110-119.	2.6	7
64	Evaluation of Metabolic Changes in Acute Intermittent Porphyria Patients by Targeted Metabolomics. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3219.	4.1	7
65	2-picolyamine derivatization for high sensitivity detection of abscisic acid in apicomplexan blood-infecting parasites. <i>Talanta</i> , 2017, 168, 130-135.	5.5	6
66	Mass spectrometric characterisation of a condensation product between porphobilinogen and indolylacryloylglycine in urine of patients with acute intermittent porphyria. <i>Journal of Mass Spectrometry</i> , 2015, 50, 929-937.	1.6	1