Jack Deruiter

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84 papers	1,015 citations	18 h-index	26 g-index
85 ext. papers	1,090 ext. citations	2.9 avg, IF	4.08 L-index

#	Paper	IF	Citations
84	Synthetic cathinones: "a khat and mouse game". *Toxicology Letters*, **2014**, 229, 349-56	4.4	51
83	Chromatographic and mass spectral studies on methoxymethcathinones related to 3,4-methylenedioxymethamphetamine. *Journal of Chromatographic Science*, **2006**, 44, 155-61	1.4	46
82	GC-MS analysis of acylated derivatives of the side chain and ring regioisomers of methylenedioxymethamphetamine. *Journal of Chromatographic Science*, **2005**, 43, 296-303	1.4	37
81	GC-IRD methods for the identification of isomeric ethoxyphenethylamines and methoxymethcathinones. *Forensic Science International*, **2009**, 184, 54-63	2.6	34
80	Synthesis and in vitro aldose reductase inhibitory activity of compounds containing an N-acylglycine moiety. *Journal of Medicinal Chemistry*, **1989**, 32, 1033-8	8.3	33
79	Synthesis and aldose reductase inhibitory activity of substituted 2-oxoquinoline-1-acetic acid derivatives. *Journal of Medicinal Chemistry*, **1986**, 29, 2024-8	8.3	31
78	GC-MS analysis of acylated derivatives of the side-chain regioisomers of 4-methoxy-3-methyl-phenethylamines related to methylenedioxymethamphetamine. *Journal of Chromatographic Science*, **2007**, 45, 477-85	1.4	29
77	Synthesis and reactions of 4-isopropylidene-1-aryl-3-methyl-2-pyrazolin-5-ones. *Journal of Heterocyclic Chemistry*, **1987**, 24, 149-153	1.9	29
76	Gas chromatographic optimization studies on the side chain and ring regioisomers of methylenedioxymethamphetamine. *Journal of Chromatographic Science*, **2004**, 42, 293-8	1.4	27
75	A biodegradable injectable implant sustains systemic and ocular delivery of an aldose reductase inhibitor and ameliorates biochemical changes in a galactose-fed rat model for diabetic complications. *Pharmaceutical Research*, **2002**, 19, 278-85	4.5	26
74	Comparison of GC-MS and GC-IRD methods for the differentiation of methamphetamine and regioisomeric substances. *Forensic Science International*, **2009**, 185, 67-77	2.6	25
73	Chromatographic and spectroscopic methods of identification for the side-chain regioisomers of 3,4-methylenedioxyphenethylamines related to MDEA, MDMMA, and MBDB. *Journal of Chromatographic Science*, **2003**, 41, 227-33	1.4	25
72	GC-MS studies on the six naphthoyl-substituted 1-n-pentyl-indoles: JWH-018 and five regioisomeric equivalents. *Forensic Science International*, **2015**, 252, 107-13	2.6	22
71	Studies on aldose reductase inhibitors from fungi. I. Citrinin and related benzopyran derivatives. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **1992**, 6, 201-10		22
70	N- and 2-substituted N-(phenylsulfonyl)glycines as inhibitors of rat lens aldose reductase. *Journal of Medicinal Chemistry*, **1989**, 32, 145-51	8.3	22
69	GC-MS analysis of ring and side chain regioisomers of ethoxyphenethylamines. *Journal of Chromatographic Science*, **2008**, 46, 671-9	1.4	21
68	GC-MS and FTIR evaluation of the six benzoyl-substituted-1-pentylindoles: isomeric synthetic cannabinoids. *Talanta*, **2014**, 129, 171-82	6.2	20

67	Elucidating the neurotoxic effects of MDMA and its analogs. *Life Sciences*, **2014**, 101, 37-42	6.8	18
66	GC-MS studies on acylated derivatives of 3-methoxy-4-methyl- and 4-methoxy-3-methyl-phenethylamines: regioisomers related to 3,4-MDMA. *Forensic Science International*, **2008**, 178, 61-82	2.6	18
65	In vitro aldose reductase inhibitory activity of substituted N-benzenesulfonylglycine derivatives. *Journal of Pharmaceutical Sciences*, **1987**, 76, 149-52	3.9	18
64	GC-MS, GC-MS/MS and GC-IR differentiation of carbonyl modified analogues of MDPV. *Forensic Chemistry*, **2017**, 3, 58-68	2.8	16
63	Analytical differentiation of 1-alkyl-3-acylindoles and 1-acyl-3-alkylindoles: isomeric synthetic cannabinoids. *Analytical Chemistry*, **2014**, 86, 3801-8	7.8	16
62	Differentiation of methylenedioxybenzylpiperazines (MDBP) by GC-IRD and GC-MS. *Forensic Science International*, **2010**, 195, 78-85	2.6	16
61	Chromatographic and mass spectral studies on methoxy methyl methamphetamines related to 3,4-methylenedioxymethamphetamine. *Journal of Chromatographic Science*, **2007**, 45, 466-76	1.4	16
60	Liquid chromatographic determination of the enantiomeric composition of amphetamine prepared from norephedrine and norpseudoephedrine. *Journal of Chromatographic Science*, **1987**, 25, 38-42	1.4	16
59	Mass spectral studies on 1-n-pentyl-3-(1-naphthoyl)indole (JWH-018), three deuterium-labeled analogues and the inverse isomer 1-naphthoyl-3-n-pentylindole. *Rapid Communications in Mass Spectrometry*, **2015**, 29, 871-7	2.2	15
58	Slow-Binding Inhibition of Mycobacterium tuberculosis Shikimate Kinase by Manzamine Alkaloids. *Biochemistry*, **2018**, 57, 4923-4933	3.2	15
57	Liquid Chromatographic and Mass Spectral Methods of Identification for the Regioisomeric 2,3- and 3,4-Methylenedioxyphenalkylamines. *Journal of Chromatographic Science*, **1998**, 36, 131-138	1.4	15
56	Gas chromatography-mass spectrometry analysis of regioisomeric ring substituted methoxy methyl phenylacetones. *Journal of Chromatographic Science*, **2007**, 45, 458-65	1.4	14
55	Studies on Aldose Reductase Inhibitors from Fungi. II. Moniliformin and Small Ring Analogues. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **1993**, 7, 249-256		14
54	Differentiation of methylenedioxybenzylpiperazines (MDBPs) and methoxymethylbenzylpiperazines (MMBPs) By GC-IRD and GC-MS. *Forensic Science International*, **2011**, 210, 122-8	2.6	13
53	GC-MS, GC-MS/MS and GC-IR differentiation of desoxy cathinone derivatives: Cyclic tertiary amines related to MDPV. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2017**, 1048, 38-48	3.2	11
52	Product ion tandem mass spectrometric differentiation of regioisomeric side-chain groups in cathinone derivatives. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 1713-1721	2.2	11
51	GC-MS analysis of the regioisomeric methoxy- and methyl-benzoyl-1-pentylindoles: Isomeric synthetic cannabinoids. *Science and Justice - Journal of the Forensic Science Society*, **2015**, 55, 291-8	2	11
50	Chromatographic and mass spectral studies on isobaric and isomeric substances related to 3,4-methylenedioxymethamphetamine. *Journal of Chromatographic Science*, **2004**, 42, 464-9	1.4	11

49	Differentiation of the six dimethoxypyrovalerone regioisomers: GC-MS, GC-MS/MS and GC-IR. *Talanta*, **2017**, 171, 220-228	6.2	10
48	GC-MS, MS/MS and GC-IR Analysis of a Series of Methylenedioxyphenyl-Aminoketones: Precursors, Ring Regioisomers and Side-Chain Homologs of 3,4-Methylenedioxypyrovalerone. *Journal of Chromatographic Science*, **2017**, 55, 99-108	1.4	10
47	Comparing the dopaminergic neurotoxic effects of benzylpiperazine and benzoylpiperazine. *Toxicology Mechanisms and Methods*, **2018**, 28, 177-186	3.6	10
46	Dopaminergic neurotoxic effects of 3-TFMPP derivatives. *Life Sciences*, **2018**, 209, 357-369	6.8	10
45	GC-MS and GC-IRD analysis of ring and side chain regioisomers of ethoxyphenethylamines related to the controlled substances MDEA, MDMMA and MBDB. *Forensic Science International*, **2010**, 200, 73-86	2.6	10
44	Differentiation of homologous and regioisomeric methoxy-cathinone derivatives by GC-MS, MS/MS and GC-IR. *Forensic Chemistry*, **2016**, 2, 46-54	2.8	10
43	Differentiation of cyclic tertiary amine cathinone derivatives by product ion electron ionization mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 763-72	2.2	9
42	GC-MS analysis of acylated derivatives of a series of side chain regioisomers of 2-methoxy-4-methyl-phenethylamines. *Journal of Chromatographic Science*, **2008**, 46, 375-80	1.4	9
41	Correlation of vapor phase infrared spectra and regioisomeric structure in synthetic cannabinoids. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 196, 375-384	4.4	8
40	GC-MS and GC-IRD studies on the six-ring regioisomeric dimethoxybenzylpiperazines (DMBPs). *Drug Testing and Analysis*, **2013**, 5, 560-72	3.5	8
39	Synthesis of 1,2,3,12a,12b-Hexahydrocyclopropa-[1,2-d]benzo[f]pyrrolo[1,2-b]isoquinolin-5,7-dione related to duocarmycins and anthramycin. *Journal of Heterocyclic Chemistry*, **2005**, 42, 297-301	1.9	8
38	Inhibitory activity and mechanism of inhibition of the N-[[(4-benzoylamino)phenyl]sulfonyl]amino acid aldose reductase inhibitors. *Biochemical Pharmacology*, **1990**, 40, 2219-26	6	8
37	In-vitro hydrolysis, permeability, and ocular uptake of prodrugs of N-[4-(benzoylamino)phenylsulfonyl]glycine, a novel aldose reductase inhibitor. *Journal of Pharmacy and Pharmacology*, **2000**, 52, 1113-22	4.8	7
36	Investigation of the synthesis and analgesic activity of 1-substituted 4-(propananilido)perhydroazepines. *Journal of Heterocyclic Chemistry*, **1992**, 29, 779-786	1.9	7
35	Reversed Phase Liquid Chromatographic Separation of Lysergic Acid Diethylamide (LSD) and Lysergic Acid Methylpropylamide (LAMPA). *Journal of Liquid Chromatography and Related Technologies*, **1987**, 10, 3481-3488		7
34	Analytical studies on the 2-naphthoyl substituted-1-n-pentylindoles: Regioisomeric synthetic cannabinoids. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2018**, 1077-1078, 77-84	3.2	6
33	Gas chromatography/mass spectrometry analysis of the six-ring regioisomeric dimethoxybenzyl-N-methylpiperazines (DMBMPs). *Rapid Communications in Mass Spectrometry*, **2013**, 27, 2551-2558	2.2	6
32	Differentiation of methoxybenzoylpiperazines (OMeBzPs) and methylenedioxybenzylpiperazines (MDBPs) By GC-IRD and GC-MS. *Drug Testing and Analysis*, **2012**, 4, 430-40	3.5	6

31	Synthetic approaches to hexahydropyrrolo[1,2-b]isoquinolones. *Journal of Heterocyclic Chemistry*, **2009**, 26, 1815-1817	1.9	6
30	Studies of the inhibition of aldose reductase: evidence for multiple site binding. *International Journal of Biochemistry & Cell Biology*, **1989**, 21, 1275-85		6
29	Synthesis and antinociceptive properties of N-phenyl-N-(1-(2-(thiophen-2-yl)ethyl)azepane-4-yl)propionamide in the mouse tail-flick and hot-plate tests. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 644-8	2.9	5
28	Differentiation of the 1-(methylenedioxyphenyl)-2-piperazinopropanes and 1-(methoxyphenyl)-2-piperazinopropanones by GC-IRD and GC-MS. *Forensic Science International*, **2014**, 235, 40-51	2.6	5
27	Differentiation of methylbenzylpiperazines (MBPs) and benzoylpiperazine (BNZP) using GC-MS and GC-IRD. *Drug Testing and Analysis*, **2012**, 4, 441-8	3.5	5
26	GC-MS and GC-IRD studies on the six ring regioisomeric dimethoxybenzoylpiperazines (DMBzPs). *Forensic Science International*, **2013**, 231, 54-60	2.6	5
25	GC-MS studies on the regioisomeric methoxy-methyl-phenethylamines related to MDEA, MDMMA, and MBDB. *Journal of Chromatographic Science*, **2008**, 46, 900-6	1.4	5
24	GC-MS studies on the regioisomeric 2,3- and 3,4-methylenedioxyphenethylamines related to MDEA, MDMMA, and MBDB. *Journal of Chromatographic Science*, **2007**, 45, 229-35	1.4	5
23	Synthesis, Identification, and Acute Toxicity of Some 7V-Alkyl Derivatives of 3,4-Methylenedioxyamphetamine. *Journal of the Association of Official Analytical Chemists*, **1987**, 70, 981-986		5
22	Regioisomeric bromodimethoxy benzyl piperazines related to the designer substance 4-bromo-2,5-dimethoxybenzylpiperazine: GC-MS and FTIR analysis. *Forensic Science International*, **2014**, 240, 126-36	2.6	4
21	Studies on the formation of N-methylperfluoroalkylnitrile cations from perfluoroacylphenethylamines in electron ionisation mass spectrometry: unique marker ion fragments in methamphetamine analysis. *European Journal of Mass Spectrometry*, **2012**, 18, 287-99	1.1	4
20	Probenecid treatment enhances retinal and brain delivery of N-4-benzoylaminophenylsulfonylglycine: an anionic aldose reductase inhibitor. *Brain Research Bulletin*, **2010**, 81, 327-32	3.9	4
19	Systemic and ocular pharmacokinetics of N-4-benzoylaminophenylsulfonylglycine (BAPSG), a novel aldose reductase inhibitor. *Journal of Pharmacy and Pharmacology*, **2004**, 56, 351-8	4.8	4
18	GC-IRD methods for the identification of some tertiary amines related to MDMA. *Forensic Science International*, **2010**, 199, 18-28	2.6	4
17	Disubstituted piperazine analogues of trifluoromethylphenylpiperazine and methylenedioxybenzylpiperazine: analytical differentiation and serotonin receptor binding studies. *Forensic Sciences Research*, **2018**, 3, 161-169	3.6	3
16	Differentiation of methylenedioxybenzylpiperazines and ethoxybenzylpiperazines by GC-IRD and GC-MS. *Journal of Chromatographic Science*, **2012**, 50, 553-63	1.4	3
15	Rabbit corneal and conjunctival permeability of the novel aldose reductase inhibitors: N-[[4-(benzoylamino)phenyl] sulphonyl]glycines and N-benzoyl-N-phenylglycines. *Journal of Pharmacy and Pharmacology*, **1999**, 51, 921-7	4.8	3
14	GC and mass spectral studies on acylated side chain regioisomers of 3-methoxy-4-methyl-phenethylamine and 4-methoxy-3-methyl-phenethylamine. *Journal of Chromatographic Science*, **2009**, 47, 279-86	1.4	3

13	GC-MS evaluation of a series of acylated derivatives of 3,4-methylenedioxymethamphetamine. *Journal of Chromatographic Science*, **2009**, 47, 359-64	1.4	3
12	GC-IRD studies on regioisomeric ring substituted methoxy methyl phenylacetones related to 3,4-methylenedioxyphenylacetone. *Forensic Science International*, **2010**, 194, 39-48	2.6	3
11	Spectrophotometric and Liquid Chromatographic Identification of 3,4-Methylenedioxyphenylisopropylamine and Its N-Methyl and N-Ethyl Homologs. *Journal of the Association of Official Analytical Chemists*, **1986**, 69, 681-686		3
10	Structure fragmentation studies of ring-substituted N-trifluoroacetyl-N-benzylphenethylamines related to the NBOMe drugs. *Rapid Communications in Mass Spectrometry*, **2020**, 34, e8593	2.2	3
9	Differentiation of trifluoromethylbenzylpiperazines (TFMBZPs) and trifluoromethylbenzoylpiperazines (TFMBOPs) by GC-MS. *Forensic Science International*, **2013**, 233, 113-20	2.6	2
8	GC-MS and GC-IRD studies on the ring isomers of N-methyl-2-methoxyphenyl-3-butanamines (MPBA) related to 3,4-MDMA. *Journal of Chromatographic Science*, **2011**, 49, 345-52	1.4	2
7	Gas Chromatography-Mass Spectrometry (GC-MS) and Gas Chromatography-Infrared (GC-IR) Analyses of the Chloro-1- n-pentyl-3-(1-naphthoyl)-Indoles: Regioisomeric Cannabinoids. *Applied Spectroscopy*, **2019**, 73, 433-443	3.1	2
6	GC-MS and IR studies on the six ring regioisomeric dimethoxyphenylpiperazines (DOMePPs). *Journal of Forensic Sciences*, **2015**, 60, 285-94	1.8	1
5	GC-MS and GC-IR Analyses of the Methoxy-1-n-pentyl-3-(1-naphthoyl)-indoles: Regioisomeric Designer Cannabinoids. *Journal of Chromatographic Science*, **2018**, 56, 779-788	1.4	1
4	GC-MS and IR studies on the six ring regioisomeric dimethoxybenzoyl-N-methylpiperazines (DMBzMPs). *Forensic Science International*, **2014**, 237, 53-61	2.6	1
3	GC-MS studies on side chain regioisomers related to substituted methylenedioxyphenethylamines: MDEA, MDMMA, and MBDB. *Journal of Chromatographic Science*, **2010**, 48, 726-32	1.4	1
2	Comparison of the catalytic and inhibitory properties of Pachysolen tannophilus xylose reductase to rat lens aldose reductase. *Applied Microbiology and Biotechnology*, **1992**, 37, 109-13	5.7	1
1	GC-MS and IR Studies on the Six Possible Ring Regioisomeric Dimethylphenylpiperazines. *Journal of Pharmaceutical Sciences and Pharmacology*, **2017**, 3, 44-53		