Ian S Blagbrough

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characterisation of the binding of [3H]methyllycaconitine: a new radioligand for labelling α7-type neuronal nicotinic acetylcholine receptors. Neuropharmacology, 1999, 38, 679-690.	2.0	235
2	Rapid and sensitive ethidium bromide fluorescence quenching assay of polyamine conjugate–DNA interactions for the analysis of lipoplex formation in gene therapy. Journal of Pharmaceutical and Biomedical Analysis, 2000, 22, 849-859.	1.4	146
3	An autoradiographic study of the distribution of binding sites for the novel α7-selective nicotinic radioligand [3H]-methyllycaconitine in the mouse brain. European Journal of Neuroscience, 1999, 11, 2689-2696.	1.2	110
4	The condensation reaction between isocyanates and carboxylic acids. A practical synthesis of substituted amides and anilides Tetrahedron Letters, 1986, 27, 1251-1254.	0.7	93
5	Spider toxins affecting glutamate receptors: Polyamines in therapeutic neurochemistry. , 1991, 52, 245-268.		92
6	Effect of Spermine Conjugation on the Cytotoxicity and Cellular Transport of Acridine. Journal of Medicinal Chemistry, 2002, 45, 5098-5111.	2.9	88
7	Nudicauline and Elatine as Potent Norditerpenoid Ligands at Rat Neuronal α-Bungarotoxin Binding Sites:Â Importance of the 2-(Methylsuccinimido)benzoyl Moiety for Neuronal Nicotinic Acetylcholine Receptor Binding. Journal of Medicinal Chemistry, 1996, 39, 4860-4866.	2.9	80
8	Multiple DNA binding modes of anthracene-9-carbonyl-N1-spermine. Bioorganic and Medicinal Chemistry, 1995, 3, 861-872.	1.4	77
9	Homologation of Polyamines in the Rapid Synthesis of Lipospermine Conjugates and Related Lipoplexes. Tetrahedron, 2000, 56, 2449-2460.	1.0	76
10	Constituents and secondary metabolite natural products in fresh and deteriorated cassava roots. Phytochemistry, 2010, 71, 598-604.	1.4	74
11	Synthesis of Cholesteryl Polyamine Carbamates:Â pKaStudies and Condensation of Calf Thymus DNA. Bioconjugate Chemistry, 2000, 11, 314-326.	1.8	71
12	Practical synthesis of unsymmetrical polyamine amides. Tetrahedron Letters, 1998, 39, 439-442.	0.7	70
13	Cassava: An appraisal of its phytochemistry and its biotechnological prospects. Phytochemistry, 2010, 71, 1940-1951.	1.4	70
14	The regiochemical distribution of positive charges along cholesterol polyamine carbamates plays significant roles in modulating DNA binding affinity and lipofection. FEBS Letters, 1999, 459, 337-342.	1.3	65
15	Homologation of polyamines in the synthesis of lipo-spermine conjugates and related lipoplexes. Tetrahedron Letters, 1998, 39, 443-446.	0.7	55
16	Polyamines and novel polyamine conjugates interact with DNA in ways that can be exploited in non-viral gene therapy. Biochemical Society Transactions, 2003, 31, 397-406.	1.6	54
17	Electrospun Zein/PCL Fibrous Matrices Release Tetracycline in a Controlled Manner, Killing Staphylococcus aureus Both in Biofilms and Ex Vivo on Pig Skin, and are Compatible with Human Skin Cells. Pharmaceutical Research, 2016, 33, 237-246.	1.7	54
18	DNA binding of a spermine derivative: Spectroscopic study of anthracene-9-carbonyl-n1-spermine with poly[d(G-C)Å·(d(G-C))] and poly[d(A-T) Å· d(A-T)]. Biopolymers, 1994, 34, 1583-1593.	1.2	51

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19	Design and synthesis of hybrid compounds as novel drugs and medicines. RSC Advances, 2022, 12, 19470-19484.	1.7	49
20	Biosynthesis of scopoletin and scopolin in cassava roots during post-harvest physiological deterioration: The E-Z-isomerisation stage. Phytochemistry, 2008, 69, 2928-2936.	1.4	46
21	Quantitative HPLC analysis of mebeverine, mesalazine, sulphasalazine and dispersible aspirin stored in a Venalink monitored dosage system with co-prescribed medicines. Journal of Pharmaceutical and Biomedical Analysis, 2011, 54, 646-652.	1.4	46
22	High-performance liquid chromatographic determination of naproxen, ibuprofen and diclofenac in plasma and synovial fluid in man. Biomedical Applications, 1992, 578, 251-257.	1.7	45
23	Animal Models for Target Diseases in Gene Therapy — using DNA and siRNA Delivery Strategies. Pharmaceutical Research, 2009, 26, 1-18.	1.7	44
24	Electrospun matrices for localised controlled drug delivery: release of tetracycline hydrochloride from layers of polycaprolactone and poly(ethylene-co-vinyl acetate). Drug Delivery and Translational Research, 2012, 2, 477-488.	3.0	43
25	Arthropod toxins as leads for novel insecticides: An assessment of polyamine amides as glutamate antagonists. Toxicon, 1992, 30, 303-322.	0.8	41
26	Interleukin 13 Increases Contractility of Murine Tracheal Smooth Muscle by a Phosphoinositide 3-kinase p110Î-Dependent Mechanism. Molecular Pharmacology, 2008, 73, 1530-1537.	1.0	41
27	Conversion of the sodium channel activator aconitine into a potent α7-selective nicotinic ligand. FEBS Letters, 1995, 365, 79-82.	1.3	37
28	Rapid and efficient isolation of the nicotinic receptor antagonist methyllycaconitine from delphinium: Assignment of the methylsuccinimide absolute stereochemistry as S. Tetrahedron Letters, 1994, 35, 8701-8704.	0.7	34
29	Synthesis of cholesterol-polyamine carbamates: pKa studies and condensation of calf thymus DNA. Chemical Communications, 1998, , 1403-1404.	2.2	34
30	Cheno-, Urso- and Deoxycholic Acid Spermine Conjugates: Relative Binding Affinities for Calf Thymus DNA. Tetrahedron, 2000, 56, 3439-3447.	1.0	34
31	Acylation of lycoctonine: Semi-synthesis of inuline, delsemine analogues and methyllycaconitine. Tetrahedron Letters, 1994, 35, 8705-8708.	0.7	33
32	Lipopolyamines incorporating the tetraamine spermine, bound to an alkyl chain, sequester bacterial lipopolysaccharide. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 1959-1962.	1.0	33
33	Varying the Unsaturation in N4,N9-Dioctadecanoyl Spermines: Nonviral Lipopolyamine Vectors for More Efficient Plasmid DNA Formulation. Pharmaceutical Research, 2006, 23, 31-40.	1.7	33
34	Rapid and efficient entry to substituted 2-succinimidobenzoate-3-azabicyclo[3.3.1]nonanes: AE-bicyclic analogues of methyllycaconitine. Tetrahedron Letters, 1994, 35, 8709-8712.	0.7	32
35	Practical synthesis of the putative polyamine spider toxin FTX: a proposed blocker of voltage-sensitive calcium channels. Tetrahedron Letters, 1994, 35, 2057-2060.	0.7	31
36	In Vitro Evaluation of Nasal Aerosol Depositions: An Insight for Direct Nose to Brain Drug Delivery. Pharmaceutics, 2021, 13, 1079.	2.0	30

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37	Total synthesis of polyamine amide spider toxin argiotoxin-636 by a practical reductive alkylation strategy. Tetrahedron Letters, 1995, 36, 9393-9396.	0.7	29
38	Killing bacteria within biofilms by sustained release of tetracycline from triple-layered electrospun micro/nanofibre matrices of polycaprolactone and poly(ethylene-co-vinyl acetate). Drug Delivery and Translational Research, 2013, 3, 531-541.	3.0	29
39	Isotopic Enrichment by Asymmetric Deuteriation. An Investigation of the Synthesis of Deuteriated (S)-(â^')-Methylsuccinic Acids from Itaconic Acid. Journal of the American Chemical Society, 1996, 118, 5897-5903.	6.6	27
40	Efficient Calf Thymus DNA Condensation upon Binding with Novel Bile Acid Polyamine Amides. Bioconjugate Chemistry, 2002, 13, 481-490.	1.8	26
41	Polyamines and polyamine amides from wasps and spiders. Biochemical Society Transactions, 1994, 22, 888-893.	1.6	25
42	Total syntheses of polyamine amides PhTX-4.3.3 and PhTX-3.4.3: Reductive alkylation is a rapid, practical route to philanthotoxins. Tetrahedron Letters, 1995, 36, 9401-9404.	0.7	25
43	[3H]-Methyllycaconitine: a high affinity radioligand that labels invertebrate nicotinic acetylcholine receptors. Insect Biochemistry and Molecular Biology, 2001, 31, 533-542.	1.2	25
44	Lipopolyamine-Mediated Single Nanoparticle Formation of Calf Thymus DNA Analyzed by Fluorescence Correlation Spectroscopy. Pharmaceutical Research, 2006, 23, 1564-1573.	1.7	25
45	Measurement of Polyamine pK a Values. Methods in Molecular Biology, 2011, 720, 493-503.	0.4	25
46	Synthesis of C5-substituted AE-bicyclic analogues of lycoctonine, inuline and methyllycaconitine. Tetrahedron Letters, 1998, 39, 889-892.	0.7	24
47	Zein/polycaprolactone electrospun matrices for localised controlled delivery of tetracycline. Drug Delivery and Translational Research, 2013, 3, 542-550.	3.0	24
48	Practical, convergent total synthesis of polyamine amide spider toxin NSTX-3. Tetrahedron Letters, 1996, 37, 551-554.	0.7	23
49	A novel solid-phase reductive alkylation route to acridine and dansyl polyamine conjugates. Chemical Communications, 1999, , 1341-1342.	2.2	22
50	Pore forming polyalkylpyridinium salts from marine sponges versus synthetic lipofection systems: distinct tools for intracellular delivery of cDNA and siRNA. BMC Biotechnology, 2006, 6, 6.	1.7	22
51	N4,N9-Dioleoyl Spermine Is a Novel Nonviral Lipopolyamine Vector for Plasmid DNA Formulation. Pharmaceutical Research, 2005, 22, 972-980.	1.7	21
52	¹ H quantitative NMR and UHPLC-MS analysis of seized MDMA/NPS mixtures and tablets from night-club venues. Analytical Methods, 2019, 11, 4795-4807.	1.3	21
53	Regioselective demethylation of aconitine. Tetrahedron Letters, 1994, 35, 3367-3370.	0.7	20
54	N 1,N 12 -Diacyl Spermines: SAR Studies on Non-viral Lipopolyamine Vectors for Plasmid DNA and siRNA Formulation. Pharmaceutical Research, 2010, 27, 17-29.	1.7	20

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55	Preliminary Synthetic Studies of Methyllycaconitine, a Potent Nicotinic Acetylcholine Receptor Antagonist: Rapid Syntheses of AE-Bicyclic Analogues. Journal of Pharmacy and Pharmacology, 2011, 48, 210-213.	1.2	20
56	Isomerisation of ω-alkenyl substituted cyclohexane-1,3-dione enol derivatives using rhodium catalysis. A practical synthesis of substituted resorcinols. Tetrahedron Letters, 1982, 23, 4843-4846.	0.7	19
57	Differential inhibition of Ca2+ channels in mature rat cerebellar Purkinje cells by sFTX-3.3 and FTX-3.3. Neuropharmacology, 1996, 35, 1-11.	2.0	19
58	Investigation of Biosynthetic Pathways to Hydroxycoumarins During Postâ€Harvest Physiological Deterioration in Cassava Roots by Using Stable Isotope Labelling. ChemBioChem, 2008, 9, 3013-3022.	1.3	19
59	Very Long Chain N 4 ,N 9 -Diacyl Spermines: Non-Viral Lipopolyamine Vectors for Efficient Plasmid DNA and siRNA Delivery. Pharmaceutical Research, 2009, 26, 19-31.	1.7	19
60	Individual p <i>K</i> _a Values of Tobramycin, Kanamycin B, Amikacin, Sisomicin, and Netilmicin Determined by Multinuclear NMR Spectroscopy. ACS Omega, 2020, 5, 21094-21103.	1.6	19
61	Kynurenine aminotransferase activity in human liver: identity with human hepatic C-S lyase activity and a physiological role for this enzyme. Toxicology Letters, 1992, 60, 241-246.	0.4	18
62	Regioselective anthranoylation of demethylated aconitine: Novel analogues of aconitine inuline and methyllycaconitine. Tetrahedron Letters, 1994, 35, 3371-3374.	0.7	18
63	Multiple binding modes with DNA of anthracene-9-carbonyl-N1-spermine probed by LD, CD, normal absorption, and molecular modelling compared with those of spermidine and spermine. Bioorganic and Medicinal Chemistry Letters, 1994, 4, 2435-2440.	1.0	18
64	Total synthesis of modified jstx toxins: reductive alkylation is a practical route to hexahydropyrimidine polyamine amides. Tetrahedron Letters, 1995, 36, 9397-9400.	0.7	18
65	Additive Effects of 3,4-Methylenedioxymethamphetamine (MDMA) and Compassionate Imagery on Self-Compassion in Recreational Users of Ecstasy. Mindfulness, 2018, 9, 1134-1145.	1.6	18
66	Norditerpenoid alkaloids from <i>Aconitum</i> and <i>Delphinium</i> : structural relevance in medicine, toxicology, and metabolism. Natural Product Reports, 2022, 39, 460-473.	5.2	18
67	Structure-activity studies of bicyclic and tricyclic analogues of methyllycaconitine. Biochemical Society Transactions, 1997, 25, 545S-545S.	1.6	17
68	Spermine and thermine conjugates of cholic acid condense DNA,but lithocholic acid polyamine conjugates do so more efficiently. Chemical Communications, 1998, , 2035-2036.	2.2	17
69	Human renal C-S lyases: two cytosolic isoenzymes. Toxicology Letters, 1990, 53, 253-255.	0.4	16
70	Rapid practical syntheses of the arginyl polyamine sFTX-3.3: a blocker of voltage-sensitive calcium channels. Tetrahedron Letters, 1994, 35, 2061-2062.	0.7	16
71	Design and Synthesis of N 4,N 9-Disubstituted Spermines for Non-viral siRNA Delivery – Structure-Activity Relationship Studies of siFection Efficiency Versus Toxicity. Pharmaceutical Research, 2009, 26, 286-295.	1.7	16
72	Efficient Gene Silencing by Self-Assembled Complexes of siRNA and Symmetrical Fatty Acid Amides of Spermine. Pharmaceutics, 2011, 3, 125-140.	2.0	16

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73	Invertebrate pharmacological assay of novel, potent glutamate receptor antagonists: Acylated spermines. Pest Management Science, 1990, 30, 397-403.	0.6	14
74	¹⁹ F and ¹ H quantitative-NMR spectroscopic analysis of fluorinated third-generation synthetic cannabinoids. Analytical Methods, 2019, 11, 3090-3100.	1.3	14
75	Macrocyclic polyamine lactam synthesis by diphenyl ether closure of 23-, 24- and 28-membered rings. Chemical Communications, 1998, , 2335-2336.	2.2	13
76	Asymmetric intercalation of N1-(acridin-9-ylcarbonyl)spermine at homopurine sites of duplex DNA. Chemical Communications, 1998, , 929-930.	2.2	13
77	Electrorheological behaviour at low applied electric fields of microcrystalline cellulose in BP oils. Chemical Communications, 1998, , 2157-2158.	2.2	13
78	Asymmetrical <i>N</i> ⁴ , <i>N</i> ⁹ -Diacyl Spermines: SAR Studies of Nonviral Lipopolyamine Vectors for Efficient siRNA Delivery with Silencing of EGFP Reporter Gene. Molecular Pharmaceutics, 2012, 9, 1853-1861.	2.3	13
79	Synthetic Cannabinoid Receptor Agonists Detection Using Fluorescence Spectral Fingerprinting. Analytical Chemistry, 2019, 91, 12971-12979.	3.2	13
80	Self-Assembled Lipoplexes of Short Interfering RNA (siRNA) Using Spermine-Based Fatty Acid Amide Guanidines: Effect on Gene Silencing Efficiency. Pharmaceutics, 2011, 3, 406-424.	2.0	12
81	Quantitative Silencing of EGFP Reporter Gene by Self-Assembled siRNA Lipoplexes of LinOS and Cholesterol. Molecular Pharmaceutics, 2012, 9, 3384-3395.	2.3	12
82	Efficient Silencing of EGFP Reporter Gene with siRNA Delivered by Asymmetrical <i>N</i> ⁴ , <i>N</i> ⁹ -Diacyl Spermines. Molecular Pharmaceutics, 2012, 9, 1862-1876.	2.3	12
83	An HPLC assay for the norditerpenoid alkaloid methyllycaconitine, a potent nicotinic acetylcholine receptor antagonist. Journal of Pharmaceutical and Biomedical Analysis, 1995, 13, 1541-1544.	1.4	11
84	Effect of mechanical denaturation on surface free energy of protein powders. Colloids and Surfaces B: Biointerfaces, 2016, 146, 700-706.	2.5	10
85	Analysis of synthetic cannabinoid agonists and their degradation products after combustion in a smoking simulator. Analytical Methods, 2019, 11, 3101-3107.	1.3	10
86	The 1α-hydroxy-A-rings of norditerpenoid alkaloids are twisted-boat conformers. RSC Advances, 2020, 10, 18797-18805.	1.7	10
87	Antagonism of Insect Muscle Glutamate Receptors — with Particular Reference to Arthropod Toxins. , 1989, , 13-31.		10
88	lron uptake inPseudomonas aeruginosamediated byN-(2,3-dihydroxybenzoyl)-L-serine and 2,3-dihydroxybenzoic acid. FEMS Microbiology Letters, 1995, 127, 145-149.	0.7	9
89	Varying the Chain Length in <i>N</i> ⁴ , <i>N</i> ⁹ -Diacyl Spermines: Non-Viral Lipopolyamine Vectors for Efficient Plasmid DNA Formulation. Molecular Pharmaceutics, 2008, 5, 1111-1121.	2.3	9
90	Human renal C-S lyase: structure-activity relationships of cytosolic and mitochondrial enzymes. Toxicology Letters, 1990, 53, 257-259.	0.4	8

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91	Cysteine Conjugate Toxicity in a Human Cell Line: Correlation with C-S Lyase Activity in Human Hepatic Tissue. Human and Experimental Toxicology, 1993, 12, 329-335.	1.1	8
92	Proctolin and related N-methylated pentapeptides selectively contract locust foregut but not rat ileum. Bioorganic and Medicinal Chemistry Letters, 1995, 5, 2085-2088.	1.0	8
93	Synthesis of novel unsaturated AE-bicyclic analogues of lycoctonine, inuline and methyllycaconitine: with olefinic J = 13.5 Hz, but still cis. Tetrahedron Letters, 1998, 39, 893-896.	0.7	8
94	1H, 13C, 15N HMBC, and 19F NMR spectroscopic characterisation of seized flephedrone, cut with benzocaine. Journal of Pharmaceutical and Biomedical Analysis, 2015, 107, 535-538.	1.4	8
95	Impacts of Steric Compression, Protonation, and Intramolecular Hydrogen Bonding on the ¹⁵ N NMR Spectroscopy of Norditerpenoid Alkaloids and Their Piperidine-Ring Analogues. ACS Omega, 2020, 5, 14116-14122.	1.6	8
96	Quantitative determination of mebeverine HCl by NMR chemical shift migration. Tetrahedron, 2009, 65, 4930-4936.	1.0	7
97	Multinuclear Nuclear Magnetic Resonance Spectroscopy Is Used to Determine Rapidly and Accurately the Individual p <i>K</i> _a Values of 2-Deoxystreptamine, Neamine, Neomycin, Paromomycin, and Streptomycin. ACS Omega, 2021, 6, 2824-2835.	1.6	7
98	Selective Probes for Nicotinic Acetylcholine Receptors from Substituted AE-Bicyclic Analogs of Methyllycaconitine. ACS Symposium Series, 1998, , 194-205.	0.5	6
99	Extracellular or intracellular application of argiotoxin-636 has inhibitory actions on membrane excitability and voltage-activated currents in cultured rat sensory neurones. Neuropharmacology, 1998, 37, 1563-1578.	2.0	6
100	Cycloproctolin and [α-Methyl-l-Tyr]-proctolin are potent antagonists of proctolin-induced inositol phosphate production in locust foregut homogenates. Bioorganic and Medicinal Chemistry Letters, 1995, 5, 3007-3010.	1.0	5
101	Structural Studies of Norditerpenoid Alkaloids: Conformation Analysis in Crystal and in Solution States. European Journal of Organic Chemistry, 2021, 2021, 2169-2179.	1.2	5
102	Polyamine FTX-3.3 and Polyamine Amide sFTX-3.3 Inhibit Presynaptic Calcium Currents and Acetylcholine Release at Mouse Motor Nerve Terminals. Neuropharmacology, 1997, 36, 185-194.	2.0	4
103	The ¹ H NMR Spectroscopic Effect of Steric Compression Is Found in [3.3.1]Oxa- and Azabicycles and Their Analogues. ACS Omega, 2021, 6, 12769-12786.	1.6	4
104	Invertebrate pharmacological assay of novel, potent glutamate antagonists: acylated spermines. European Journal of Pharmacology, 1990, 183, 470.	1.7	3
105	13th IIS(UK group) symposium. Journal of Labelled Compounds and Radiopharmaceuticals, 2004, 47, 299-334.	0.5	3
106	Efficient Syntheses of Polyamine and Polyamine Amide Voltage-Sensitive Calcium Channel Blockers: FTX-3.3 and sFTX-3.3. Journal of Pharmacy and Pharmacology, 2011, 48, 179-182.	1.2	3
107	Loganin-type iridoids as chemotaxonomic markers in Glandularia gooddingii (Briq.) Solbrig. Phytochemistry Letters, 2021, 44, 68-73	0.6	3
108	<i>In Vitro</i> Methods for the Assessment of L-Cysteine Conjugate Toxicity. ATLA Alternatives To Laboratory Animals, 1994, 22, 72-80.	0.7	3

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109	Mono-acylated spermimes: antagonists of glutamate receptors. European Journal of Pharmacology, 1990, 183, 472-473.	1.7	2
110	Fluorescence Correlation Spectroscopic Studies of aÂSingle Lipopolyamine–DNA Nanoparticle. Springer Series on Fluorescence, 2007, , 381-413.	0.8	2
111	Human Hepatic C-S Lyase: Co-Purification With Kynurenine Amino Transferase. Journal of Pharmacy and Pharmacology, 2011, 42, 30P-30P.	1.2	2
112	Natural and synthetic polyamine derivatives as antagonists of glutamate receptors: an emerging structure/ activity profile. European Journal of Pharmacology, 1990, 183, 578-579.	1.7	1
113	Kynurenine aminotransferase/human hepatic C-S lyase: preliminary structure-activity relationship studies. Bioorganic and Medicinal Chemistry Letters, 1992, 2, 1219-1224.	1.0	1
114	Human hepatic Cî—,S lyase: Transamination reactions and significant differences between kynurenine aminotransferase and kynureninase. Bioorganic and Medicinal Chemistry Letters, 1992, 2, 1225-1230.	1.0	1
115	Studies on the substituted 3-aminopropan-1-ol motif of lycoctonine class norditerpenoid alkaloids: A novel route to 3-hydroxymethylcyclohex-2-enone. Tetrahedron Letters, 1998, 39, 8525-8528.	0.7	1
116	Mono-Acylated Spermines: Antagonists of Glutamate Receptors. Journal of Pharmacy and Pharmacy. Pharmacology, 2011, 42, 169P-169P.	1.2	1
117	Bovine Pulmonary, Hepatic and Renal Tissues: Models for the Study of Mammalian C-S Lyase Enzymes. ATLA Alternatives To Laboratory Animals, 1993, 21, 360-370.	0.7	1
118	Polyamine amide toxins as pharmacological tools and pharmaceutical agents. Proceedings of the Royal Society of Edinburgh Section B Biological Sciences, 1992, 99, 67-81.	0.2	0
119	Medicinal chemistry within the Atlantic Arc and collaboration within Franco-Belges pharmacochemistry. Journal of Pharmacy and Pharmacology, 2010, 53, 921-922.	1.2	0
120	Of Medicinal Chemistry, Pharmaceutical Sciences, and Pharmaceutical Science Communications. Journal of Pharmacy and Pharmacology, 2011, 48, 117-118.	1.2	0