Vicente J. ArÃ¡n

List of Publications by Year
in descending order

110 papers	2,902 citations	159585 30 h-index	206112 48 g-index
112 all docs	112 docs citations	112 times ranked	3125 citing authors

#	Article	IF	Citations
1	Î²-Carboline alkaloids in Peganum harmala and inhibition of human monoamine oxidase (MAO). Food and Chemical Toxicology, 2010, 48, 839-845.	3.6	281
2	Pharmacological Properties of Indazole Derivatives: Recent Developments. Mini-Reviews in Medicinal Chemistry, 2005, 5, 869-878.	2.4	274
3	Structure of peptidoglycan from Thermus thermophilus HB8. Journal of Bacteriology, 1995, 177, 4947-4962.	2.2	83
4	Indazole N-oxide derivatives as antiprotozoal agents: Synthesis, biological evaluation and mechanism of action studies. Bioorganic and Medicinal Chemistry, 2006, 14, 3467-3480.	3.0	78
5	Dopamine Interaction in the Absence and in the Presence of Cu2+ Ions with Macrocyclic and Macrobicyclic Polyamines Containing Pyrazole Units. Crystal Structures of [Cu2(L1)(H2O)2](ClO4)4 and [Cu2(H-1L3)](ClO4)3Â·2H2O. Journal of the American Chemical Society, 2001, 123, 10560-10570.	13.7	68
6	Antileishmanial, antitrypanosomal, and cytotoxic screening of ethnopharmacologically selected Peruvian plants. Parasitology Research, 2012, 110, 1381-1392.	1.6	66
7	Synthesis and biological properties of new 5-nitroindazole derivatives. Bioorganic and Medicinal Chemistry, 2005, 13, 3197-3207.	3.0	63
8	Antimalarial Quinoline Drugs Inhibit Î²-Hematin and Increase Free Hemin Catalyzing Peroxidative Reactions and Inhibition of Cysteine Proteases. Scientific Reports, 2019, 9, 15398.	3.3	62
9	A linear discrimination analysis based virtual screening of trichomonacidal lead-like compounds: Outcomes of in silico studies supported by experimental results. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3838-3843.	2.2	61
10	Heterocycles Containing the Sulfamide Moiety. Advances in Heterocyclic Chemistry, 1988, 44, 81-197.	1.7	58
11	Synthesis and Protonation Behavior of 26-Membered Oxaaza and Polyaza Macrocycles Containing Two Heteroaromatic Units of 3,5-Disubstituted Pyrazole or 1-Benzylpyrazole. A Potentiometric and1H and13C NMR Study. Journal of Organic Chemistry, 1999, 64, 6135-6146.	3.2	53
12	Predicting antitrichomonal activity: A computational screening using atom-based bilinear indices and experimental proofs. Bioorganic and Medicinal Chemistry, 2006, 14, 6502-6524.	3.0	53
13	Oxidative Metabolism of the Bioactive and Naturally Occurring Î²-Carboline Alkaloids, Norharman and Harman, by Human Cytochrome P450 Enzymes. Chemical Research in Toxicology, 2008, 21, 2172-2180.	3.3	53
14	A novel non-stochastic quadratic fingerprints-based approach for the â€˜in silicoâ€™ discovery of new antitrypanosomal compounds. Bioorganic and Medicinal Chemistry, 2005, 13, 6264-6275.	3.0	51
15	Synthesis, biological evaluation and chemometric analysis of indazole derivatives. 1,2-Disubstituted 5-nitroindazolinones, new prototypes of antichagasic drug. European Journal of Medicinal Chemistry, 2012, 58, 214-227.	5.5	45
16	Study of 5-nitroindazoles' anti-Trypanosoma cruzi mode of action: Electrochemical behaviour and ESR spectroscopic studies. European Journal of Medicinal Chemistry, 2009, 44, 1545-1553.	5.5	44
17	Cannabinoid agonists showing BuChE inhibition as potential therapeutic agents for Alzheimer's disease. European Journal of Medicinal Chemistry, 2014, 73, 56-72.	5.5	43
18	In vitro and in vivo antitrypanosomatid activity of 5-nitroindazoles. European Journal of Medicinal Chemistry, 2009, 44, 1034-1040.	5.5	41

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19	New potent 5-nitroindazole derivatives as inhibitors of Trypanosoma cruzi growth: Synthesis, biological evaluation, and mechanism of action studies. Bioorganic and Medicinal Chemistry, 2009, 17, 8186-8196.	3.0	41
20	A Computer-Based Approach to the Rational Discovery of New Trichomonacidal Drugs by Atom-Type Linear Indices. Current Drug Discovery Technologies, 2005, 2, 245-265.	1.2	40
21	Non-stochastic quadratic fingerprints andÂLDA-based QSAR models inÂhit andÂlead generation through virtual screening: theoretical andÂexperimental assessment ofÂaÂpromising method forÂtheÂdiscovery ofÂnew antimalarial compounds. European Journal of Medicinal Chemistry, 2006, 41, 483-493.	5.5	40
22	Discovery of novel anti-inflammatory drug-like compounds by aligning in silico and inÂvivo screening: The nitroindazolinone chemotype. European Journal of Medicinal Chemistry, 2011, 46, 5736-5753.	5.5	39
23	Synthesis of Tri- and Tetracyclic Condensed Quinoxalin-2-ones Fused Across the C-3â^'N-4 Bond. European Journal of Organic Chemistry, 2003, 2003, 2314-2326.	2.4	38
24	Comparative aromatic hydroxylation and N-demethylation of MPTP neurotoxin and its analogs, N-methylated Î²-carboline and isoquinoline alkaloids, by human cytochrome P450 2D6. Toxicology and Applied Pharmacology, 2006, 216, 387-398.	2.8	37
25	New ligand-based approach for the discovery of antitrypanosomal compounds. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 1898-1904.	2.2	36
26	Synthesis and Potential Muscarinic Receptor Binding and Antioxidant Properties of 3-(Thiadiazolyl)pyridine 1-Oxide Compounds. Archiv Der Pharmazie, 1999, 332, 191-194.	4.1	35
27	Reactivity of 1,1-disubstituted indazol-3-ylio oxides: synthesis of some substituted indazolols and indazolinones. Journal of the Chemical Society Perkin Transactions 1, 1993, , 1119-1127.	0.9	34
28	Dinuclear Cu(II) complexes with two pyrazolate bridging groups formed from 26 membered oxaimine and polyamine macrocycles of 3,5-disubstituted 1-pyrazole. Tetrahedron Letters, 1994, 35, 5723-5726.	1.4	32
29	New proton ionizable 3,5-disubstituted pyrazole cryptands able to form tripyrazolate-derived di- and tetra- nuclear complexes of Cu2+ or Zn2+. Tetrahedron Letters, 1995, 36, 2161-2164.	1.4	32
30	Bond-based linear indices in QSAR: computational discovery of novel anti-trichomonal compounds. Journal of Computer-Aided Molecular Design, 2008, 22, 523-540.	2.9	31
31	Characterization, phase-solubility, and molecular modeling of inclusion complex of 5-nitroindazole derivative with cyclodextrins. Bioorganic and Medicinal Chemistry, 2008, 16, 5078-5084.	3.0	31
32	Identification, occurrence and activity of quinazoline alkaloids in Peganum harmala. Food and Chemical Toxicology, 2017, 103, 261-269.	3.6	31
33	Development of novel benznidazole formulations: Physicochemical characterization and in vivo evaluation on parasitemia reduction in Chagas disease. International Journal of Pharmaceutics, 2014, 472, 110-117.	5.2	30
34	Novel solid dispersions of benznidazole: Preparation, dissolution profile and biological evaluation as alternative antichagasic drug delivery system. Experimental Parasitology, 2015, 149, 84-91.	1.2	30
35	Antichagasic and trichomonacidal activity of 1-substituted 2-benzyl-5-nitroindazolin-3-ones and 3-alkoxy-2-benzyl-5-nitro-2H-indazoles. European Journal of Medicinal Chemistry, 2016, 115, 295-310.	5.5	29
36	New macrocyclic polyamines of 3,5-disubstituted 1-pyrazole. A 13C NMR study of deprotonation and formation of Zn2+ dinuclear complexes.. Tetrahedron Letters, 1993, 34, 3159-3162.	1.4	27

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37	Synthesis of quinoxaline derivatives from substituted acetanilides through intramolecular quaternization reactions. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 790-802.	1.3	27
38	Cytostatic activity against HeLa cells of a series of indazole and indole derivatives; synthesis and evaluation of some analogues. Liebigs Annalen, 1995, 1995, 817-824.	0.8	26
39	Cu2+-Induced formation of cage-like compounds containing pyrazole macrocycles. Chemical Communications, 2002, , 936-937.	4.1	26
40	New perspectives on the synthesis and antichagasic activity of 3-alkoxy-1-alkyl-5-nitroindazoles. European Journal of Medicinal Chemistry, 2014, 74, 124-134.	5.5	22
41	A Simple Preparation of 5-Amino-3-cyano-2,4-diarylfurans and their Use in the Synthesis of 3-Amino-5-cyanophthalic Anhydrides. Synthesis, 1982, 1982, 513-514.	2.3	19
42	Ligand-based discovery of novel trypanosomicidal drug-like compounds: In silico identification and experimental support. European Journal of Medicinal Chemistry, 2011, 46, 3324-3330.	5.5	19
43	ESR, electrochemical, molecular modeling and biological evaluation of 4-substituted and 1,4-disubstituted 7-nitroquinoxalin-2-ones as potential anti-Trypanosoma cruzi agents. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 78, 1004-1012.	3.9	19
44	Indazoles: a new top seed structure in the search of efficient drugs against Trypanosoma cruzi. Future Medicinal Chemistry, 2013, 5, 1843-1859.	2.3	19
45	ESR and electrochemical study of 5-nitroindazole derivatives with antiprotozoal activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 63, 36-42.	3.9	18
46	Ultrastructural alterations induced by nifurtimox and another nitro derivative on epimastigotes of Trypanosoma cruzi. Parasitology Research, 2002, 88, 97-101.	1.6	17
47	New Antitrichomonal Drug-like Chemicals Selected by Bond (Edge)-Based TOMOCOMD-CARDD Descriptors. Journal of Biomolecular Screening, 2008, 13, 785-794.	2.6	17
48	Synthesis and Evaluation of 1,1â€²â€Hydrocarbylenebis(indazolâ€3â€ols) as Potential Antimalarial Drugs. ChemMedChem, 2009, 4, 78-87.	3.2	17
49	Molecular encapsulation of 5-nitroindazole derivatives in 2,6-dimethyl-Î²-cyclodextrin: Electrochemical and spectroscopic studies. Bioorganic and Medicinal Chemistry, 2009, 17, 4604-4611.	3.0	17
50	Further insights into biological evaluation of new anti-Trypanosoma cruzi 5-nitroindazoles. Parasitology Research, 2014, 113, 1049-1056.	1.6	17
51	Approaches to 1,1-disubstituted cinnolin-3-ylio oxides: synthesis and reactivity of a new class of heterocyclic betaines. Journal of the Chemical Society Perkin Transactions 1, 1997, , 2229-2236.	0.9	16
52	Nitroindazole compounds inhibit the oxidative activation of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) neurotoxin to neurotoxic pyridinium cations by human monoamine oxidase (MAO). Free Radical Research, 2009, 43, 975-984.	3.3	16
53	Discovery of nitroheterocycles active against African trypanosomes. In vitro screening and preliminary SAR studies. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 4506-4516.	2.2	16
54	Experimental models in Chagas disease: a review of the methodologies applied for screening compounds against Trypanosoma cruzi. Parasitology Research, 2018, 117, 3367-3380.	1.6	16

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55	In silicoAntibacterial Activity Modeling Based on the TOMOCOMD-CARDD Approach. Journal of the Brazilian Chemical Society, 2015, , .	0.6	16
56	Stable indazol-3-ylio oxides by intramolecular cyclization of N',N'-disubstituted 2-halobenzohydrazides. Tetrahedron Letters, 1988, 29, 697-700.	1.4	15
57	Synthesis of Quaternary Indoxyl Derivatives by Intramolecular Cyclization of Some Substituted Acetophenones. Liebigs Annalen Der Chemie, 1994, 1994, 679-684.	0.8	15
58	In vitro leishmanicidal activity of 1,3-disubstituted 5-nitroindazoles. Acta Tropica, 2015, 148, 170-178.	2.0	15
59	Antichagasic, Leishmanicidal, and Trichomonacidal Activity of 2â€Benzylâ€5â€nitroindazoleâ€Derived Amines. ChemMedChem, 2018, 13, 1246-1259.	3.2	15
60	Ring contraction of 1,2,6-thiadiazines to 1,2,5-thiadiazoles: synthesis of 2-substituted 4-amino-2,3-dihydro-3-oxo-1,2,5-thiadiazole 1,1-dioxides. Journal of the Chemical Society Perkin Transactions 1, 1986, , 643-645.	0.9	14
61	Reactivity of malononitrile towards sulphamide and N-substituted sulphamides: synthesis and hydrolysis reactions of 3,5-diamino-1,2,6-thiadiazine 1,1-dioxides. Journal of the Chemical Society Perkin Transactions 1, 1988, , 1271-1275.	0.9	14
62	Discovery of Novel Trichomonacidals Using LDAâ€Driven QSAR Models and Bondâ€Based Bilinear Indices as Molecular Descriptors. QSAR and Combinatorial Science, 2009, 28, 9-26.	1.4	14
63	Biological assay of a novel quinoxalinone with antimalarial efficacy on Plasmodium yoelii yoelii. Parasitology Research, 2013, 112, 1523-1527.	1.6	14
64	Synthesis and Biological in vitro and in vivo Evaluation of 2â€(5â€Nitroindazolâ€1â€yl)ethylamines and Related Compounds as Potential Therapeutic Alternatives for Chagas Disease. ChemMedChem, 2018, 13, 2104-2118.	3.2	14
65	Synthesis and reactivity of some amino-substituted 1,2,5-thiadiazole 1,1-dioxides. Liebigs Annalen Der Chemie, 1988, 1988, 337-341.	0.8	13
66	Quantitative Structureâ^'Antifungal Activity Relationships of Some Benzohydrazides against Botrytis cinerea. Journal of Agricultural and Food Chemistry, 2007, 55, 5171-5179.	5.2	13
67	ESR and electrochemical study of 1,2-disubstituted 5-nitroindazolin-3-ones and 2-substituted 3-alkoxy-5-nitro-2H-indazoles: Reactivity and free radical production capacity in the presence of biological systems. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 75, 375-380.	3.9	13
68	Selective electrochemical discrimination between dopamine and phenethylamine-derived psychotropic drugs using electrodes modified with an acyclic receptor containing two terminal 3-alkoxy-5-nitroindazole rings. Analyst, The, 2010, 135, 1449.	3.5	13
69	Simple dialkyl pyrazole-3,5-dicarboxylates show in vitro and in vivo activity against disease-causing trypanosomatids. Parasitology, 2017, 144, 1133-1143.	1.5	13
70	Binding of 125I-labeled .BETA.-lactam antibiotics to the penicillin binding proteins of Escherichia coli.. Journal of Antibiotics, 1984, 37, 389-393.	2.0	12
71	A novel ring system: 6a-aminofuro[2,3-b]furans. Journal of Organic Chemistry, 1988, 53, 5341-5343.	3.2	12
72	Biological and chemical study of fused tri- and tetracyclic indazoles and analogues with important antiparasitic activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 95, 670-678.	3.9	12

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73	Antiprotozoan lead discovery by aligning dry and wet screening: Prediction, synthesis, and biological assay of novel quinoxalinones. Bioorganic and Medicinal Chemistry, 2014, 22, 1568-1585.	3.0	11
74	Synthesis and inÂvitro and inÂvivo biological evaluation of substituted nitroquinoxalin-2-ones and 2,3-diones as novel trichomonacidal agents. European Journal of Medicinal Chemistry, 2015, 94, 276-283.	5.5	11
75	A new type of quinoxalinone derivatives affects viability, invasion, and intracellular growth of Toxoplasma gondii tachyzoites in vitro. Parasitology Research, 2016, 115, 2081-2096.	1.6	11
76	Reactivity of Cyanogen towards Nâ€Substituted Sulfamides: Synthesis of 1,2,5â€Thiadiazole 1,1â€Dioxide Derivatives. Liebigs Annalen Der Chemie, 1989, 1989, 1135-1137.	0.8	10
77	Studies on calpain inhibitors. Synthesis of partially reduced isoquinoline-1-thione derivatives and conversion to functionalized 1-chloroisoquinolines. Tetrahedron Letters, 2008, 49, 2275-2279.	1.4	10
78	ESR, ELECTROCHEMICAL AND ORAC STUDIES OF NITRO COMPOUNDS WITH POTENTIAL ANTIPROTOZOAL ACTVITY. Journal of the Chilean Chemical Society, 2010, 55, .	1.2	10
79	Ring transformation and reactions of 2-amino-4,5-dihydrofuran-3,4-dicarbonitriles. Journal of the Chemical Society Perkin Transactions 1, 1984, , 2009-2011.	0.9	9
80	Labelling and cross-linking of Escherichia coli penicillin-binding proteins with bis-beta-lactam antibiotics. FEBS Journal, 1984, 139, 287-293.	0.2	9
81	Synthesis, hydrolysis reactions and conformational study of 2-substituted 3,5-diamino-4-nitroso-2H-1,2,6-thiadiazine 1,1-dioxides. Journal of the Chemical Society Perkin Transactions II, 1996, , 293-297.	0.9	9
82	Analogues of Cytostatic, Fused Indazolinones: Synthesis, Conformational Analysis and Cytostatic Activity Against HeLa Cells of Some 1â€Substituted Indazolols, 2â€Substituted Indazolinones, and Related Compounds. Liebigs Annalen, 1996, 1996, 683-691.	0.8	9
83	Exploring the potential activity spectrum of two 5-nitroindazolinone prototypes on different Trypanosoma cruzi strains. Parasitology Open, 2015, 1, .	0.9	9
84	Synthesis of indazole derivatives from a N,Nâ€disubstituted 2â€halobenzoic hydrazide. Crystal structure of 1,2â€pentamethyleneâ€5â€nitroâ€1,2â€dihydroâ€3Hâ€indazolâ€3â€one. Journal of Heterocyclic Chemistry, 1985, 22, 1743-1745.	2.6	8
85	A sequential procedure for rapid and accurate identification of putative trichomonacidal agents. Journal of Microbiological Methods, 2014, 105, 162-167.	1.6	8
86	Determination of internal transcribed spacer regions (ITS) in Trichomonas vaginalis isolates and differentiation among Trichomonas species. Parasitology International, 2014, 63, 427-431.	1.3	8
87	Derivatives of 3-sec-Butyl-1-oxo-2,3-dihydroisoquinoline as Inhibitors of Î¼-Calpain. ChemMedChem, 2006, 1, 710-714.	3.2	7
88	Biological approaches to characterize the mode of action of two 5-nitroindazolinone prototypes onTrypanosoma cruzibloodstream trypomastigotes. Parasitology, 2016, 143, 1469-1478.	1.5	7
89	Reactivity of 4-amino-2-benzyl-2,3-dihydro-3-oxo-1,2,5-thiadiazole 1,1-dioxide towards amines: synthesis of potential histamine H2-receptor antagonists. Journal of the Chemical Society Perkin Transactions 1, 1987, , 955-959.	0.9	6
90	Selective Synthesis of 2-Substituted Indazolin-3-ones without N-1 Protection. Heterocycles, 1997, 45, 129.	0.7	6

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91	Synthesis of oxazolo[3,2â€b]hetero[1,2,4]thiadiazine S,Sâ€dioxides. Journal of Heterocyclic Chemistry, 2005, 42, 755-761.	2.6	6
92	Synthesis of new hetero[1,2,4]thiadiazinâ€3â€one S,Sâ€dioxides and oxazolo[3,2â€b]hetero[1,2,4]thiadiazine S,Sâ€dioxides as potential psychotropic drugs. Journal of Heterocyclic Chemistry, 2005, 42, 763-773.	2.6	6
93	Synthesis of nonsymmetrically 3,4â€disubstituted 1,2,5â€thiadiazole dioxides. Journal of Heterocyclic Chemistry, 1998, 35, 297-300.	2.6	5
94	X-ray Diffraction, Solution Structure, and Computational Studies on Derivatives of (3-sec-Butyl-2,3-dihydro-1H-isoquinolin-4-ylidene)acetic Acid: Compounds with Activity as Calpain Inhibitors. Journal of Organic Chemistry, 2010, 75, 342-352.	3.2	5
95	Hydrogen-Bond-Mediated Self-Assembly of 26-Membered Diaza Tetraester Crowns of 3,5-Disubstituted 1H-Pyrazole. Dimerization Study in the Solid State and in CDCl₃ Solution. Journal of Organic Chemistry, 2011, 76, 8223-8231.	3.2	5
96	In vivo genotoxicity and cytotoxicity assessment of a novel quinoxalinone with trichomonacide activity. Journal of Applied Toxicology, 2013, 33, 1493-1499.	2.8	5
97	In vitro trichomonacidal activity and preliminary in silico chemometric studies of 5-nitroindazolin-3-one and 3-alkoxy-5-nitroindazole derivatives. Parasitology, 2016, 143, 34-40.	1.5	5
98	Promising hit compounds against resistant trichomoniasis: Synthesis and antiparasitic activity of 3-(Ï‰-aminoalkoxy)-1-benzyl-5-nitroindazoles. Bioorganic and Medicinal Chemistry Letters, 2021, 37, 127843.	2.2	5
99	Synthesis and Antichagasic Properties of New 1,2,6-Thiadiazin-3,5-dione 1,1-Dioxides and Related Compounds. Arzneimittelforschung, 1999, 49, 759-763.	0.4	4
100	In vitro assessment of 3-alkoxy-5-nitroindazole-derived ethylamines and related compounds as potential antileishmanial drugs. Bioorganic Chemistry, 2019, 92, 103274.	4.1	4
101	Activity profile of two 5-nitroindazole derivatives over the moderately drug-resistant Trypanosoma cruzi Y strain (DTU TcII): in vitro and in vivo studies. Parasitology, 2020, 147, 1216-1228.	1.5	3
102	Labelling of penicillin-binding proteins from Escherichia coli with photoreactive derivatives of Î²-lactam antibiotics. FEBS Letters, 1983, 153, 431-437.	2.8	2
103	Juncus fernandez-carvajaliaesp. nov. (Juncaceae) from Castilla-La Mancha, central Spain. Nordic Journal of Botany, 2013, 31, 190-193.	0.5	2
104	Dry selection and wet evaluation for the rational discovery of new anthelmintics. Molecular Physics, 2017, 115, 2300-2313.	1.7	2
105	5-Nitroindazole derivatives as potential therapeutic alternatives against Acanthamoeba castellanii. Acta Tropica, 2022, 232, 106538.	2.0	2
106	Limonium ilergabonum (Plumbaginaceae), a new species from northeastern Iberian Peninsula. Phytotaxa, 2017, 331, 199.	0.3	1
107	Activity of 2-benzyl-1-(2-hydroxyethyl)-5-nitroindazolin-3-one on Trypanosoma cruzi Bloodstream Trypomastigotes (Y strain): In Vitro and In Vivo Studies. Proceedings (mdpi), 2017, 1, .	0.2	1
108	Labelling of penicillin-binding proteins with a photoreactive peptidoglycan-peptide analogue. FEBS Journal, 1984, 144, 613-616.	0.2	0

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109	Synthesis of Oxazolo[3,2b]hetero[1,2,4]thiadiazine S,S-Dioxides.. ChemInform, 2005, 36, no.	0.0	0
110	Synthesis of New Hetero[1,2,4]thiadiazin-3-one S,S-Dioxides and Oxazolo[3,2-b]hetero[1,2,4]thiadiazine S,S-Dioxides as Potential Psychotropic Drugs.. ChemInform, 2005, 36, no.	0.0	0