

Mohamed A Ismail

List of Publications by Year in descending order

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108
papers

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147801

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116
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116
times ranked

3347
citing authors

#	ARTICLE	IF	CITATIONS
1	5-Arylidene-1,3-dialkylbarbituric acid derivatives as efficient corrosion inhibitors for carbon steel in molar hydrochloric acid solution. RSC Advances, 2022, 12, 10443-10459.	3.6	6
2	Novel cationic aryl bithiophene/terthiophene derivatives as corrosion inhibitors by chemical, electrochemical and surface investigations. Scientific Reports, 2022, 12, 3192.	3.3	16
3	Rapid adsorption of acid dyes using Cu(II) thiourea modified cellulose complex. International Journal of Biological Macromolecules, 2022, 205, 692-702.	7.5	2
4	Synthesis of new thienylnicotinamidines: Proapoptotic profile and cell cycle arrest of HepG2 cells. Archiv Der Pharmazie, 2022, 355, .	4.1	4
5	A Synergistic Effect of <i>Moringa oleifera</i> -Based Coagulant and Ultrafiltration for the Wastewater Treatment Collected from Final ETP. Adsorption Science and Technology, 2022, 2022, .	3.2	5
6	Design and synthesis of novel bichalcophene derivatives with double anchoring groups for dye-sensitized solar cell applications: sensitization and co-sensitization with N-719. Journal of Materials Science: Materials in Electronics, 2022, 33, 15665-15678.	2.2	2
7	Solvent polarity indicators based on bithiophene carboxamide hydrochloride salt derivatives. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 404, 112933.	3.9	5
8	Novel pyrimidine-bichalcophene derivatives as corrosion inhibitors for copper in 1 M nitric acid solution. RSC Advances, 2021, 11, 25314-25333.	3.6	54
9	Anticancer activity of new cationic arylthiophenes against hepatocellular carcinoma. Life Sciences, 2021, 269, 119028.	4.3	6
10	Corrosion inhibition of carbon steel in hydrochloric acid by cationic arylthiophenes as new eco-friendly inhibitors: Experimental and quantum chemical study. Chinese Journal of Chemical Engineering, 2021, 40, 197-217.	3.5	5
11	pH-controlled mixed micelle cloud point extraction for selective removal of trace levels of iron from titanium concentrates. Separation and Purification Technology, 2021, 265, 118534.	7.9	10
12	Synthesis, Antiproliferative Activity, Apoptotic Profiling, and In silico ADME of New Thienylbenzamide Derivatives. ChemistrySelect, 2021, 6, 7644-7653.	1.5	1
13	New antiparasitic flexible triaryl diamidines, their prodrugs and aza analogues: Synthesis, in vitro and in vivo biological evaluation, and molecular modelling studies. European Journal of Medicinal Chemistry, 2021, 222, 113625.	5.5	2
14	Biological Insights of Fluoroaryl-2,2-Bichalcophene Compounds on Multi-Drug Resistant Staphylococcus aureus. Molecules, 2021, 26, 139.	3.8	3
15	Experimental and computational chemical studies on the cationic furanylnicotinamidines as novel corrosion inhibitors in aqueous solutions. Chinese Journal of Chemical Engineering, 2020, 28, 477-491.	3.5	8
16	Synthesis of <i>N</i> -aryl 2-chloroacetamides and their chemical reactivity towards various types of nucleophiles. Synthetic Communications, 2020, 50, 289-314.	2.1	12
17	Synthesis of new thienylpicolinamide derivatives and possible mechanisms of antiproliferative activity. RSC Advances, 2020, 10, 41165-41176.	3.6	7
18	Synthesis of new heterocycles festooned with thiophene and evaluating their antioxidant activity. Journal of Heterocyclic Chemistry, 2020, 57, 4153-4163.	2.6	17

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19	The inhibition action of methoxy-substituted phenylthienyl benzamidines on the corrosion of carbon steel in hydrochloric acid medium. <i>Journal of Molecular Liquids</i> , 2020, 312, 113267.	4.9	15
20	Synthesis and spectroscopic studies of methoxy-substituted phenylthienyl nicotinamidines. <i>Synthetic Communications</i> , 2020, 50, 2355-2375.	2.1	4
21	Utilization of 5-chloro-2-(cyanoacetamido)pyridines in the Synthesis of Biologically Active Heterocyclic Hybrids. <i>ChemistrySelect</i> , 2020, 5, 1797-1802.	1.5	2
22	Synthesis and application of hydrazono-imidazoline modified cellulose for selective separation of precious metals from geological samples. <i>Carbohydrate Polymers</i> , 2020, 237, 116177.	10.2	37
23	Synthesis and biological evaluation of some heterocyclic scaffolds based on the multifunctional N-(4-acetylphenyl)-2-chloroacetamide. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 3071-3081.	2.6	2
24	A Review of Cationic Arylfurans and Their Isosteres: Synthesis and Biological Importance. <i>Current Organic Chemistry</i> , 2020, 23, 2751-2782.	1.6	8
25	The Antitumor Activity of a Novel Fluorobenzamidine against Dimethylhydrazine- Induced Colorectal Cancer in Rats. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2020, 20, 450-463.	1.7	7
26	Photophysical properties and fluorosolvatochromism of 2-thiophene based derivatives. <i>RSC Advances</i> , 2020, 10, 43459-43471.	3.6	11
27	Investigation of 6-[5-(4-Methoxyphenyl) furan-2-yl] Nicotinonitrile as a New Corrosion Inhibitor for Carbon Steel in Acidic Solution: Chemical, Electrochemical and Quantum Chemical Studies. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019, 5, 1.	2.6	11
28	Comprehensive investigations on the action of cationic terthiophene and bithiophene as corrosion inhibitors: experimental and theoretical studies. <i>New Journal of Chemistry</i> , 2019, 43, 768-789.	2.8	47
29	Experimental, quantum chemical and molecular simulation studies on the action of arylthiophene derivatives as acid corrosion inhibitors. <i>Journal of Molecular Liquids</i> , 2019, 290, 111178.	4.9	41
30	Solvatochromic behavior of 2-bithiophene carbonitrile derivatives. <i>Journal of Molecular Liquids</i> , 2019, 286, 110856.	4.9	11
31	Anticancer activity, dual prooxidant/antioxidant effect and apoptosis induction profile of new bichalcophene-5-carboxamidines. <i>European Journal of Medicinal Chemistry</i> , 2019, 169, 76-88.	5.5	26
32	Experimental and computational simulations for the effect of new Arylfuranylnicotinamide derivatives against degradation of carbon steel in acid solutions. <i>Multidiscipline Modeling in Materials and Structures</i> , 2019, 15, 1294-1317.	1.3	2
33	Heterocyclic Diamidine DNA Ligands as HOXA9 Transcription Factor Inhibitors: Design, Molecular Evaluation, and Cellular Consequences in a HOXA9-Dependant Leukemia Cell Model. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 1306-1329.	6.4	31
34	A complementary experimental and in silico studies on the action of fluorophenyl-2,2'-bichalcophenes as ecofriendly corrosion inhibitors and biocide agents. <i>Journal of Molecular Liquids</i> , 2019, 276, 255-274.	4.9	47
35	Synthesis and characterization of novel ion-imprinted guanyl-modified cellulose for selective extraction of copper ions from geological and municipality sample. <i>International Journal of Biological Macromolecules</i> , 2018, 115, 625-634.	7.5	17
36	Indole and Benzimidazole Bichalcophenes: Synthesis, DNA Binding and Antiparasitic Activity. <i>European Journal of Medicinal Chemistry</i> , 2018, 143, 1590-1596.	5.5	48

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37	Adsorption of Cu(II), Cd(II), Hg(II), Pb(II) and Zn(II) from aqueous single metal solutions by guanyl-modified cellulose. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 1538-1549.	7.5	126
38	G-quadruplex binding small molecules ameliorate <i>C9orf72</i> / <i>FTD</i> / <i>ALS</i> pathology <i>in vitro</i> and <i>in vivo</i> . <i>EMBO Molecular Medicine</i> , 2018, 10, 22-31.	6.9	178
39	Synthesis and antiproliferative activity of monocationic arylthiophene derivatives. <i>European Journal of Medicinal Chemistry</i> , 2017, 126, 789-798.	5.5	38
40	Evaluation of 4-amidinophenyl-2,2'-bithiophene and its aza-analogue as novel corrosion inhibitors for CS in acidic media: Experimental and theoretical study. <i>Journal of Molecular Liquids</i> , 2017, 240, 372-388.	4.9	68
41	Experimental and theoretical studies on corrosion inhibition of 4-amidinophenyl-2,2'-bifuran and its analogues in acidic media. <i>RSC Advances</i> , 2017, 7, 46414-46430.	3.6	59
42	Antiprotozoal agents as water soluble singlet oxygen photosensitizers: Imidazo[1,2-a]pyridine and 5,6,7,8-tetrahydro-imidazo[1,2-a]pyridine derivatives. <i>Journal of Luminescence</i> , 2017, 181, 164-170.	3.1	4
43	Synthesis, antimicrobial, and antiproliferative activities of substituted phenylfuranlynicotinamides. <i>Drug Design, Development and Therapy</i> , 2016, 10, 1133.	4.3	9
44	Effect of solvent and encapsulation in β -cyclodextrin on the photophysical properties of 4-[5-(thiophen-2-yl)furan-2-yl]benzamidine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 316, 52-61.	3.9	15
45	Pentamidine analogs as inhibitors of [³ H]MK-801 and [³ H]ifenprodil binding to rat brain NMDA receptors. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4489-4500.	3.0	11
46	Evaluation of the biological activity of novel monocationic fluoroaryl-2,2'-bithiophenes and their analogues. <i>Drug Design, Development and Therapy</i> , 2014, 8, 963.	4.3	14
47	CYP1A1 and CYP1B1-Mediated Biotransformation of the Antitrypanosomal Methamidoxime Prodrug DB844 Forms Novel Metabolites Through Intramolecular Rearrangement. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 337-349.	3.3	10
48	Discovery of new G-quadruplex binding chemotypes. <i>Chemical Communications</i> , 2014, 50, 960-963.	4.1	24
49	Anticancer, antioxidant activities, and DNA affinity of novel monocationic bithiophenes and analogues. <i>Drug Design, Development and Therapy</i> , 2014, 8, 1659.	4.3	38
50	Green Fluorescent Diamidines as Diagnostic Probes for Trypanosomes. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 1793-1796.	3.2	10
51	The Unusual Monomer Recognition of Guanine-Containing Mixed Sequence DNA by a Dithiophene Heterocyclic Diamidine. <i>Biochemistry</i> , 2014, 53, 1218-1227.	2.5	25
52	<i>In Vitro</i> and <i>In Vivo</i> Evaluation of 28DAP010, a Novel Diamidine for Treatment of Second-Stage African Sleeping Sickness. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 4452-4463.	3.2	20
53	The position of imidazopyridine and metabolic activation are pivotal factors in the antimutagenic activity of novel imidazo[1,2-a]pyridine derivatives. <i>European Journal of Pharmacology</i> , 2013, 715, 212-218.	3.5	40
54	Targeting the DNA-binding activity of the human ERG transcription factor using new heterocyclic dithiophene diamidines. <i>Nucleic Acids Research</i> , 2013, 41, 125-138.	14.5	87

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55	Synthesis, antimicrobial activity and molecular modeling study of substituted 5-aryl-pyrimido[5,4-c]quinoline-2,4-diones. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 530-538.	5.2	14
56	Synthesis and Antiprotozoal Activity of Dicationic <i>m</i> -Terphenyl and 1,3-Dipyridylbenzene Derivatives. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 5473-5494.	6.4	35
57	Facile construction of substituted pyrimido[4,5-d]pyrimidones by transformation of enaminoouracil. <i>Journal of Advanced Research</i> , 2013, 4, 115-121.	9.5	12
58	Safety, Pharmacokinetic, and Efficacy Studies of Oral DB868 in a First Stage Vervet Monkey Model of Human African Trypanosomiasis. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2230.	3.0	16
59	Compartmental and Enzyme Kinetic Modeling To Elucidate the Biotransformation Pathway of a Centrally Acting Antitrypanosomal Prodrug. <i>Drug Metabolism and Disposition</i> , 2013, 41, 518-528.	3.3	6
60	Novel 4-substituted phenyl-2,2'-bichalcophenes and aza-analogs as antibacterial agents: a structural activity relationship. <i>Drug Design, Development and Therapy</i> , 2013, 7, 185.	4.3	10
61	The adaptive potential of a survival artist: characterization of the <i>in vitro</i> interactions of <i>Toxoplasma gondii</i> tachyzoites with di-cationic compounds in human fibroblast cell cultures. <i>Parasitology</i> , 2012, 139, 208-220.	1.5	27
62	Synthesis and biological evaluation of some new Thiazolo[3,2-a][1,3,5]triazine derivatives. <i>Medicinal Chemistry Research</i> , 2012, 21, 2615-2623.	2.4	16
63	Synthesis, DNA affinity, and antimicrobial activity of 4-substituted phenyl-2,2-bichalcophenes and aza-analogues. <i>Medicinal Chemistry Research</i> , 2012, 21, 4074-4082.	2.4	27
64	Microscopic Rearrangement of Bound Minor Groove Binders Detected by NMR. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5620-5627.	2.6	12
65	Efficacy of two novel 2,2-bifurans to inhibit methicillin-resistant <i>Staphylococcus aureus</i> infection in male mice in comparison to vancomycin. <i>Drug Design, Development and Therapy</i> , 2012, 6, 279.	4.3	9
66	Synthesis and Characterization <i>via</i> Molecular Quantum Parameters of 2-Thiazolo[3,2-a]pyrimidine-3,5,7-trione. <i>Journal of Heterocyclic Chemistry</i> , 2012, 49, 494-498.	2.6	4
67	Heterocyclic Dications as a New Class of Telomeric G-Quadruplex Targeting Agents. <i>Current Pharmaceutical Design</i> , 2012, 18, 1934-1947.	1.9	19
68	Water-Mediated Binding of Agents that Target the DNA Minor Groove. <i>Journal of the American Chemical Society</i> , 2011, 133, 10171-10183.	13.7	60
69	Synthesis of Novel Bithiophene-Substituted Heterocycles Bearing Carbonitrile Groups. <i>Synthetic Communications</i> , 2011, 41, 319-330.	2.1	12
70	Efficacy Study of Novel Diamidine Compounds in a <i>Trypanosoma evansi</i> Goat Model. <i>PLoS ONE</i> , 2011, 6, e20836.	2.5	7
71	Silicon-mediated Direct Conversion of Acyl Chlorides to Carbamoyl Azides or/and Tetrazolinones under Mild Conditions. <i>Chemistry Letters</i> , 2011, 40, 1149-1151.	1.3	8
72	Trypanocidal activity and selectivity <i>in vitro</i> of aromatic amidine compounds upon bloodstream and intracellular forms of <i>Trypanosoma cruzi</i> . <i>Experimental Parasitology</i> , 2011, 127, 429-435.	1.2	21

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73	Dicationic phenyl-2,2'-bichalcophenes and analogues as antiprotozoal agents. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 978-984.	3.0	25
74	The Trypanocidal Activity of Amidine Compounds Does Not Correlate with Their Binding Affinity to <i>Trypanosoma cruzi</i> Kinetoplast DNA. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 4765-4773.	3.2	23
75	Induced topological changes in DNA complexes: influence of DNA sequences and small molecule structures. <i>Nucleic Acids Research</i> , 2011, 39, 4265-4274.	14.5	25
76	In vitro activity and preliminary toxicity of various diamidine compounds against <i>Trypanosoma evansi</i> . <i>Veterinary Parasitology</i> , 2010, 169, 264-272.	1.8	11
77	Biological, ultrastructural effect and subcellular localization of aromatic diamidines in <i>Trypanosoma cruzi</i> . <i>Parasitology</i> , 2010, 137, 251-259.	1.5	31
78	DNA Minor Groove Induced Dimerization of Heterocyclic Cations: Compound Structure, Binding Affinity, and Specificity for a TTA Site. <i>Journal of Molecular Biology</i> , 2010, 402, 847-864.	4.2	36
79	New Treatment Option for Second-Stage African Sleeping Sickness: In Vitro and In Vivo Efficacy of Aza Analogs of DB289. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 4185-4192.	3.2	111
80	A new convenient procedure for the thionation of carbonyl compounds utilizing tetrachlorosilane-sodium sulfide. <i>Tetrahedron Letters</i> , 2009, 50, 5933-5936.	1.4	16
81	Synthesis and activity of azaterphenyl diamidines against <i>Trypanosoma brucei rhodesiense</i> and <i>Plasmodium falciparum</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6651-6658.	3.0	27
82	Progress in the chemistry of 4-thiazolidinones. <i>Journal of Heterocyclic Chemistry</i> , 2008, 45, 939-956.	2.6	32
83	Novel linear triaryl guanidines, N-substituted guanidines and potential prodrugs as antiprotozoal agents. <i>European Journal of Medicinal Chemistry</i> , 2008, 43, 2901-2908.	5.5	28
84	Synthesis and antiprotozoal activity of novel bis-benzamidino imidazo[1,2-a]pyridines and 5,6,7,8-tetrahydro-imidazo[1,2-a]pyridines. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 683-691.	3.0	92
85	Azaterphenyl diamidines as antileishmanial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 247-251.	2.2	26
86	Convenient Selective Synthesis of Substituted Pyrido[2,3-d]pyrimidones and Annulated Derivatives. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2007, 62, 104-110.	0.7	7
87	Diphenyl Furans and Aza Analogs: Effects of Structural Modification on In Vitro Activity, DNA Binding, and Accumulation and Distribution in Trypanosomes. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 2801-2810.	3.2	64
88	Design of DNA Minor Groove Binding Diamidines That Recognize GC Base Pair Sequences: A Dimeric-Hinge Interaction Motif. <i>Journal of the American Chemical Society</i> , 2007, 129, 13732-13743.	13.7	62
89	A SiCl ₄ -ZnCl ₂ induced general, mild and efficient one-pot, three-component synthesis of β -amido ketone libraries. <i>Tetrahedron Letters</i> , 2007, 48, 6199-6203.	1.4	31
90	Structure-specific recognition of quadruplex DNA by organic cations: Influence of shape, substituents and charge. <i>Biophysical Chemistry</i> , 2007, 126, 140-153.	2.8	182

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91	Synthesis, DNA Affinity, and Antiprotozoal Activity of Linear Dications: Λ Terphenyl Diamidines and Analogues. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 5324-5332.	6.4	70
92	An efficient synthesis of 5- ϵ -(4-cyanophenyl)-2,2-bifuran-5-carbonitrile and analogues. <i>Journal of Chemical Research</i> , 2006, 2006, 733-737.	1.3	13
93	An efficient synthesis of 5,5-diaryl-2,2-bichalcophenes. <i>Tetrahedron Letters</i> , 2006, 47, 795-797.	1.4	33
94	Synthesis of deuterium and ^{15}N -labelled 2,5-Bis[5-amidino-2-pyridyl]furan and 2,5-Bis[5-(methoxyamidino)-2-pyridyl]furan. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2006, 49, 985-996.	1.0	10
95	Accumulation and Intracellular Distribution of Antitrypanosomal Diamidine Compounds DB75 and DB820 in African Trypanosomes. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 2185-2191.	3.2	100
96	Dicationic near-linear biphenyl benzimidazole derivatives as DNA-targeted antiprotozoal agents. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 6718-6726.	3.0	57
97	In vitro metabolism of an orally active O-methyl amidoxime prodrug for the treatment of CNS trypanosomiasis. <i>Xenobiotica</i> , 2005, 35, 211-226.	1.1	32
98	Out-of-Shape DNA Minor Groove Binders: Induced Fit Interactions of Heterocyclic Dications with the DNA Minor Groove. <i>Biochemistry</i> , 2005, 44, 14701-14708.	2.5	59
99	Synthesis of Benzyloxybromobenzonitriles. <i>Synthetic Communications</i> , 2004, 34, 751-758.	2.1	6
100	Novel Dicationic Imidazo[1,2-a]pyridines and 5,6,7,8-Tetrahydro-imidazo[1,2-a]pyridines as Antiprotozoal Agents. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 3658-3664.	6.4	118
101	Synthesis of deuterium-labelled 6-[5-(4-amidinophenyl)furan-2-yl]nicotinamide and N-alkoxy-6-[5-[4-(N-alkoxyamidino)phenyl]-furan-2-yl]-nicotinamides. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2004, 47, 233-242.	1.0	7
102	Synthesis of Benzyloxybromobenzonitriles.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
103	Dicationic biphenyl benzimidazole derivatives as antiprotozoal agents. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 5405-5413.	3.0	72
104	Synthesis and Antiprotozoal Activity of Aza-Analogues of Furamide. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 4761-4769.	6.4	120
105	Synthesis and Transformations of 2-Substituted Tetrahydro-4 H -benzo[4,5]thieno[2,3-d][1,3]oxazines and 2,3-Disubstituted Hexahydrobenzo[4,5]thieno[2,3-d]pyrimidines. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2003, 178, 245-259.	1.6	6
106	Synthesis of 5-(functionalized acyl)-1,3-dialkyl-substituted barbituric and 2-thio-barbituric acids. <i>Journal of Heterocyclic Chemistry</i> , 2001, 38, 359-363.	2.6	20
107	A GENERAL METHOD FOR ACYLATION OF 1,3-DIALKYL-SUBSTITUTED BARBITURIC AND 2-THIOBARBITURIC ACIDS. <i>Heterocyclic Communications</i> , 1999, 5, .	1.2	2
108	Peculiar reaction behaviour of barbituric acid derivatives towards aromatic amines. <i>Tetrahedron</i> , 1996, 52, 10147-10158.	1.9	30