

Binne Zwanenburg

List of Publications by Year in descending order

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117453

34
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143772

57
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all docs

110
docs citations

110
times ranked

2124
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Formulation for Strigolactone Suicidal Germination Agents, towards Successful Striga Management. <i>Plants</i> , 2022, 11, 808.	1.6	18
2	Striga hermonthica Suicidal Germination Activity of Potent Strigolactone Analogs: Evaluation from Laboratory Bioassays to Field Trials. <i>Plants</i> , 2022, 11, 1045.	1.6	21
3	Synthesis of Analogs of Strigolactones and Evaluation of Their Stability in Solution. <i>Methods in Molecular Biology</i> , 2021, 2309, 37-55.	0.4	2
4	New hybrid type strigolactone mimics derived from plant growth regulator auxin. <i>New Biotechnology</i> , 2019, 48, 76-82.	2.4	12
5	Hybrid-type strigolactone analogues derived from auxins. <i>Pest Management Science</i> , 2019, 75, 3113-3121.	1.7	9
6	Suicidal germination as a control strategy for <i>Striga hermonthica</i> (Benth.) in smallholder farms of sub-Saharan Africa. <i>Plants People Planet</i> , 2019, 1, 107-118.	1.6	70
7	Strigolactones: new plant hormones in the spotlight. <i>Journal of Experimental Botany</i> , 2018, 69, 2205-2218.	2.4	72
8	Stability of strigolactone analog GR24 toward nucleophiles. <i>Pest Management Science</i> , 2018, 74, 896-904.	1.7	24
9	Securing Important Strigolactone Key Structures: Orobanchol and 5-Deoxystrigol. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2163-2169.	1.2	7
10	Synthesis of strigolactones, a strategic account. <i>Pest Management Science</i> , 2016, 72, 15-29.	1.7	55
11	Strigolactone Analogues with a Ring Modified at C2. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3495-3499.	1.2	10
12	Suicidal germination for parasitic weed control. <i>Pest Management Science</i> , 2016, 72, 2016-2025.	1.7	94
13	Strigolactones: new plant hormones in action. <i>Planta</i> , 2016, 243, 1311-1326.	1.6	95
14	The genuine structure of alectrol: end of a long controversy. <i>Phytochemistry Reviews</i> , 2015, 14, 835-847.	3.1	20
15	Quenching the action of germination stimulants using borax and thiourea, a new method for controlling parasitic weeds: A proof of concept. <i>Crop Protection</i> , 2015, 70, 92-98.	1.0	13
16	Strigolactones: occurrence, structure, and biological activity in the rhizosphere. <i>Phytochemistry Reviews</i> , 2015, 14, 691-711.	3.1	59
17	Facial Selectivity in the Addition of Lithium Dimethylcuprate to 6-Substituted Tricyclo[5.2.1.0 ^{2,6}]deca-4,8-dienones. Synthesis of 1 ² -Substituted Cyclopentenones Using Flash Vacuum Thermolysis. <i>Australian Journal of Chemistry</i> , 2014, 67, 1243.	0.5	2
18	A novel concept for the control of parasitic weeds by decomposing germination stimulants prior to action. <i>Crop Protection</i> , 2014, 61, 11-15.	1.0	28

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19	Rice cytochrome P450 MAX1 homologs catalyze distinct steps in strigolactone biosynthesis. <i>Nature Chemical Biology</i> , 2014, 10, 1028-1033.	3.9	340
20	Use of Flash Vacuum Thermolysis in a Stereocontrolled Synthesis of Optically Active Alkyl-substituted Cyclopentenones with Fragrant Properties. <i>Australian Journal of Chemistry</i> , 2014, 67, 1234.	0.5	6
21	Sulfines, a unique class of sulfur-centered heterocumulenes. <i>Journal of Sulfur Chemistry</i> , 2013, 34, 142-157.	1.0	19
22	Structure and Activity of Strigolactones: New Plant Hormones with a Rich Future. <i>Molecular Plant</i> , 2013, 6, 38-62.	3.9	182
23	New strigolactone mimics: Structure-activity relationship and mode of action as germinating stimulants for parasitic weeds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5182-5186.	1.0	50
24	Isocs 1 to 25: Focus on Organic Chemistry of Sulfur for Half a Century. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2013, 188, 266-274.	0.8	0
25	Strigolactone Analogs Derived from Ketones Using a Working Model for Germination Stimulants as a Blueprint. <i>Plant and Cell Physiology</i> , 2011, 52, 699-715.	1.5	44
26	Strigolactone analogues and mimics derived from phthalimide, saccharine, p-tolylmalondialdehyde, benzoic and salicylic acid as scaffolds. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 7394-7400.	1.4	46
27	Aromatic A-ring analogues of orobanchol, new germination stimulants for seeds of parasitic weeds. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2286.	1.5	20
28	Single step synthesis of strigolactone analogues from cyclic keto enols, germination stimulants for seeds of parasitic weeds. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 5006-5011.	1.4	40
29	A new efficient synthesis of GR24 and dimethyl A-ring analogues, germinating agents for seeds of the parasitic weeds <i>Striga</i> and <i>Orobancha</i> spp.. <i>Tetrahedron</i> , 2010, 66, 7198-7203.	1.0	47
30	Preparation of bicyclic boroxazolidones from aziridine-2-carboxylic esters. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 2010, 111, 211-214.	0.0	10
31	Structure and function of natural and synthetic signalling molecules in parasitic weed germination. <i>Pest Management Science</i> , 2009, 65, 478-491.	1.7	215
32	Alkylations of tricyclo[5.2.1.0 ^{2,6}]deca-4,8-dien-3-one by a cuprate reaction. <i>Tetrahedron</i> , 2009, 65, 389-395.	1.0	4
33	Cyclopropanation and epoxidation of tricyclo[5.2.1.0 ^{2,6}]deca-2(6),8-dien-3-one. <i>Tetrahedron</i> , 2009, 65, 2364-2367.	1.0	4
34	Facial selectivity in addition reactions to the highly strained enone in tricyclo[5.2.1.0 ^{2,6}]deca-2(6),8-dienone and tricyclo[5.2.1.0 ^{2,6}]dec-2(6)-enone. <i>Tetrahedron</i> , 2009, 65, 2356-2363.	1.0	10
35	Biosynthetic considerations could assist the structure elucidation of host plant produced rhizosphere signalling compounds (strigolactones) for arbuscular mycorrhizal fungi and parasitic plants. <i>Plant Physiology and Biochemistry</i> , 2008, 46, 617-626.	2.8	83
36	Ring Contraction of 3,6-Dihydro-2H-thiopyrans to Thiolanes by an Iodo-Oxyacylation Reaction. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 74-83.	1.2	14

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37	Diastereoselective Zinc-Mediated Barbier-Type Allylation and Propargylation of 3-Formylcephalosporins. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 1749-1758.	1.2	15
38	Synthesis and bioactivity of labelled germination stimulants for the isolation and identification of the strigolactone receptor Electronic supplementary information (ESI) available: Nitration of (+)-4, preparation of (+)-5, rac-7 and rac-8, details of the X-ray analysis of (+)-8. See http://www.rsc.org/suppdata/ob/b2/b210678gl . <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 950-959.	1.5	38
39	A Rapid and Facile Preparation of Methyl 4,6- O -Benzylidene- α -D-glucopyranoside and Some Related Compounds. <i>Synthetic Communications</i> , 2003, 33, 493-497.	1.1	6
40	An Efficient Enantioselective Synthesis of Strigolactones with a Palladium-Catalyzed Asymmetric Coupling as the Key Step. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 810-814.	1.2	19
41	Cationic Gemini Surfactants Based on Tartaric Acid: Synthesis, Aggregation, Monolayer Behaviour, and Interaction with DNA. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 1397-1406.	1.2	38
42	Molecular Selectivity and Cooperativity in the Clathrate-Type Complexation of Cephadrine. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 345-350.	1.2	3
43	Assemblies of aziridinemethanols. <i>Journal of Materials Chemistry</i> , 2001, 11, 269-277.	6.7	3
44	A computational model to predict clathration of molecules with cephradine. <i>Perkin Transactions II RSC</i> , 2001, , 981-987.	1.1	1
45	Efficiency of cephalosporin complexation with aromatic compounds. <i>Perkin Transactions II RSC</i> , 2001, , 633-638.	1.1	3
46	Autocatalytic ring opening of N-acylaziridines. Complete control over regioselectivity by orientation at interfaces. <i>Chemical Communications</i> , 2001, , 269-270.	2.2	8
47	Synthesis of Cephalosporin-Type Antibiotics by Coupling of Their β -Lactam Nucleus and Racemic Amino Acid Side Chains Using a Clathration-Induced Asymmetric Transformation. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 1817-1820.	1.2	6
48	A New Convenient Synthesis of 3-Carboxycephems Starting from 7-Aminocephalosporanic Acid (7-ACA). <i>European Journal of Organic Chemistry</i> , 2001, 2001, 2529-2534.	1.2	8
49	Synthesis of Oxazolidinones by a Solid-Phase/Activation Cycloelimination (SP/ACE) Methodology. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 2965.	1.2	15
50	Cavities, Layers, and Channels in the Hosting Framework of Molecular Complexes Derived From Cephradine. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 3641.	1.2	10
51	Synthesis of the Germination Stimulants (α)-Orobanchol and (α)-Strigol via an Allylic Rearrangement. <i>Synthesis</i> , 2000, 2000, 1952-1955.	1.2	18
52	Synthesis of All Eight Stereoisomers of the Germination Stimulant Strigol. <i>Synthesis</i> , 2000, 2000, 1944-1951.	1.2	55
53	Induced fit phenomena in clathrate structures of cephalosporins. <i>Perkin Transactions II RSC</i> , 2000, , 1425-1429.	1.1	12
54	Title is missing!. <i>Journal of Chemical Crystallography</i> , 1999, 29, 1053-1056.	0.5	0

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55	An expeditious preparation of all enantiopure diastereoisomers of aromatic A-ring analogues of strigolactones, germination stimulants for seeds of the parasitic weeds <i>Striga</i> and <i>Orobanche</i> . <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1999, , 2617-2624.	0.9	16
56	The Concept of Transient Chirality in the Stereoselective Synthesis of Functionalized Cycloalkenes Applying the Retro-Diels-Alder Methodology. <i>Chemical Reviews</i> , 1999, 99, 1163-1190.	23.0	100
57	Polymer-Supported N-Tritylaziridinyl(diphenyl)methanol as an Effective Catalyst in the Enantioselective Addition of Diethylzinc to Aldehydes. <i>Organic Letters</i> , 1999, 1, 1095-1097.	2.4	39
58	Copper(II) Complexes of a Dicephalic Imidazole Surfactant. Tunable Organization of Metalloaggregates. <i>Langmuir</i> , 1999, 15, 7008-7013.	1.6	24
59	A Critical Account on the Inception of <i>Striga</i> Seed Germination. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 1320-1325.	2.4	58
60	Synthesis of All Eight Stereoisomers of the Germination Stimulant Sorgolactone. <i>Journal of Organic Chemistry</i> , 1998, 63, 1259-1267.	1.7	90
61	A Novel and Convenient Synthesis of 3-Methylfuran-2(5H)-one. <i>Synthesis</i> , 1997, 1997, 290-292.	1.2	14
62	Design and construction of supramolecular and macromolecular architectures by tandem interactions. <i>Macromolecular Symposia</i> , 1997, 117, 291-304.	0.4	5
63	Synthesis and biological evaluation of potential substrates for the isolation of the strigol receptor. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997, , 759-766.	0.9	12
64	Synthesis and Biological Evaluation of the Strigol Analogue Carba-GR24. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 1409-1414.	2.4	24
65	Asymmetric Synthesis of All Stereoisomers of Demethylsorgolactone. Dependence of the Stimulatory Activity of <i>Striga hermonthica</i> and <i>Orobanche crenata</i> Seed Germination on the Absolute Configuration. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 507-513.	2.4	24
66	Asymmetric Synthesis of All Stereoisomers of the Strigol Analogue GR24. Dependence of Absolute Configuration on Stimulatory Activity of <i>Striga hermonthica</i> and <i>Orobanche crenata</i> Seed Germination. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 2278-2283.	2.4	59
67	N-Phthaloylglycine-Derived Strigol Analogues. Influence of the D-Ring on Seed Germination Activity of the Parasitic Weeds <i>Striga hermonthica</i> and <i>Orobanche crenata</i> . <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 2284-2290.	2.4	20
68	Synthesis of a Phthaloylglycine-Derived Strigol Analogue and Its Germination Stimulatory Activity toward Seeds of the Parasitic Weeds <i>Striga hermonthica</i> and <i>Orobanche crenata</i> . <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 2273-2277.	2.4	93
69	The first total synthesis of the naturally occurring germination stimulant sorgolactone. <i>Tetrahedron Letters</i> , 1997, 38, 2321-2324.	0.7	26
70	High-performance liquid chromatography of imine stereoisomers on cellulose-based chiral stationary phases. <i>Chirality</i> , 1997, 9, 727-731.	1.3	2
71	Enzymatic Kinetic Resolution of 5-Hydroxy-4-oxa-endo-tricyclo[5.2.1.0 ^{2,6}]dec-8-en-3-ones: A Useful Approach to D-Ring Synthons for Strigol Analogues with Remarkable Stereoselectivity. <i>Journal of Organic Chemistry</i> , 1996, 61, 6931-6935.	1.7	24
72	A NOVEL SYNTHESIS OF THIONO-ESTER S-OXIDES BY SUBSTITUTION OF CHLORINE IN CHLOROSULFINES. Phosphorus, Sulfur and Silicon and the Related Elements, 1996, 108, 289-293.	0.8	6

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73	Reaction of D-fructose, D-glucose and inulin with alcohols in the presence of iodine; a novel glycosidation procedure. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1996, 115, 133-139.	0.0	11
74	Crystal and molecular structure of cyclic sulfoxides: 2-cyano-2-ethoxycarbonyl-3,6-dihydro-4,5-dimethyl-2H-thiapyran 1-oxide and 2-phenyl-2-methoxycarbonyl-3,6-dihydro-2H-thiapyran 1-oxide. <i>Heteroatom Chemistry</i> , 1995, 6, 631-638.	0.4	5
75	Synthesis of 6-functionalized tricyclodecadienones using Barton's radical decarboxylation reaction. Generation of tricyclo[5.2.1.0 ^{2,6}]decatrienone, a norbornene annulated cyclopentadienone. <i>Tetrahedron</i> , 1995, 51, 5099-5116.	1.0	29
76	Asymmetric synthesis of a D-ring synthon for strigol analogues and its application to the synthesis of all four stereoisomers of germination stimulant GR7. <i>Tetrahedron</i> , 1995, 51, 5047-5056.	1.0	42
77	A facile approach to norbornene-annulated cyclopentenones, a novel class of tricyclodecadienones. <i>Tetrahedron</i> , 1995, 51, 5117-5132.	1.0	9
78	On the Sulfonylation of Diethyl Galactarate: Some Structural Corrections - Synthesis and Characterisation of Derivatives of Diethyl 2,5-Dihydroxyhexa-2,4-dienoate. <i>Journal of Carbohydrate Chemistry</i> , 1995, 14, 1007-1015.	0.4	2
79	Synthesis of thiophenes from allenyl sulfones involving \hat{I}_{\pm}, \hat{I}^2 -unsaturated sulfines as intermediates. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1995, 114, 51-60.	0.0	21
80	Synthesis of chiral sulfines by oxidation of dithio esters. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1995, 114, 91-96.	0.0	8
81	The synthesis and properties of some mesogenic 3-alkyl derivatives of D-glucitol and D-mannitol. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1995, 114, 301-310.	0.0	11
82	Nucleophilic additions to tricyclodecadienone epoxides. The Payne rearrangement of \hat{I}_{\pm}, \hat{I}^2 -epoxycyclopentanol contained in a rigid tricyclic system. <i>Tetrahedron</i> , 1994, 50, 3473-3490.	1.0	14
83	The synthesis and properties of some long-chain alkyl-D-glucofuranosidono-6,3-lactones, D-glucofuranosides and derivatives thereof. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1994, 113, 79-87.	0.0	16
84	Total synthesis of ($\hat{\alpha}$)-kjiellmanianone from tricyclodecadienone. A revision of its absolute configuration. <i>Tetrahedron</i> , 1994, 50, 10597-10610.	1.0	29
85	Intramolecular trapping reactions of vinylsulfenic acid tautomers of enethiolisable sulfines. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994, , 3299.	0.9	9
86	Synthesis of thiophene-2-phosphonates via \hat{I}_{\pm}, \hat{I}^2 -unsaturated sulfines as intermediates. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1994, 113, 547-551.	0.0	5
87	Regio- and stereoselectivity of additions of organometallics to - and -tricyclo[5.2.1.0 ^{2,6}]deca-4,8-dien-3-ones. <i>Tetrahedron</i> , 1993, 49, 11353-11372.	1.0	18
88	Preparation and catalytic hydrogenolysis of some \hat{I}_{\pm}, \hat{I}^2 -halogenoalkyl \hat{I}^2 -fructopyranosides; a convenient route to simple alkyl \hat{I}^2 -fructopyranosides. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1993, 112, 511-514.	0.0	7
89	Some Aspects of the Reaction of Methyl 4,6-benzylidene- \hat{I}_{\pm} -D-glucopyranoside 2,3-Carbonate with 1-Dodecanol: Novel Non-Ionic Surfactants. <i>Journal of Carbohydrate Chemistry</i> , 1993, 12, 1117-1125.	0.4	8
90	Synthesis, structural characterization, and biological evaluation of all four enantiomers of strigol analog GR7. <i>Journal of Agricultural and Food Chemistry</i> , 1992, 40, 697-700.	2.4	41

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91	Tentative molecular mechanism for germination stimulation of Striga and Orobanche seeds by strigol and its synthetic analogs. Journal of Agricultural and Food Chemistry, 1992, 40, 1066-1070.	2.4	134
92	Structural modifications of strigol analogs. Influence of the B and C rings on the bioactivity of the germination stimulant GR24. Journal of Agricultural and Food Chemistry, 1992, 40, 1222-1229.	2.4	59
93	Improved synthesis of strigol analog GR24 and evaluation of the biological activity of its diastereomers. Journal of Agricultural and Food Chemistry, 1992, 40, 1230-1235.	2.4	138
94	Acetalation studies. Part IX. Reaction of sucrose and some related sugars with acetone in the presence of iodine; a novel cleavage-isopropylidene method. Recueil Des Travaux Chimiques Des Pays-Bas, 1992, 111, 348-352.	0.0	23
95	Intramolecular cyclization of (allylthio)sulfines via their vinylsulfenic acid tautomers. Tetrahedron Letters, 1992, 33, 6383-6386.	0.7	17
96	A convenient synthesis of aziridine-carboxylic esters. Recueil Des Travaux Chimiques Des Pays-Bas, 1992, 111, 1-15.	0.0	65
97	Synthesis of functionalized phenylalanine derivatives by ring opening reactions of 3-aziridine-carboxylic esters. Recueil Des Travaux Chimiques Des Pays-Bas, 1992, 111, 16-21.	0.0	59
98	Synthesis of functionalized amino acids by ring opening reactions of aliphatically substituted aziridine-carboxylic esters. Recueil Des Travaux Chimiques Des Pays-Bas, 1992, 111, 59-68.	0.0	109
99	Synthesis of amino hydroxy carboxylic esters from oxiranecarboxylic esters. Recueil Des Travaux Chimiques Des Pays-Bas, 1992, 111, 69-74.	0.0	18
100	Conversion of aziridine-carboxylic esters into 2-aziridine-carboxylic esters. Recueil Des Travaux Chimiques Des Pays-Bas, 1992, 111, 75-78.	0.0	23
101	Sulfine Chemistry. Phosphorus, Sulfur and Silicon and the Related Elements, 1989, 43, 1-24.	0.8	54
102	Synthesis of the optical antipodes of 4-alkyl-3-lactones. Recueil Des Travaux Chimiques Des Pays-Bas, 1986, 105, 332-337.	0.0	29
103	Synthesis of .alpha.-oxo sulfines from enol silyl ethers and thionyl chloride. Journal of Organic Chemistry, 1985, 50, 2930-2934.	1.7	43
104	Synthesis and reactions of phosphoryl-substituted sulfines. Journal of Organic Chemistry, 1984, 49, 263-268.	1.7	34
105	Synthesis of .alpha.-oxo sulphines from some dihydrothiophene and thionyl chloride. Ascertainment of their structure using the cycloadducts with 2,3-dimethylbuta-1,3diene. Journal of the Chemical Society Chemical Communications, 1984, , 502-504.	2.0	18
106	.alpha.-Amino sulfenates and .alpha.-amino sulfoxides via electrophilic alkylation of amino sulfines (thioamide) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	6
107	Complete asymmetric inductions in diels-alder reactions of chiral sulfines. Tetrahedron Letters, 1983, 24, 2035-2038.	0.7	21
108	A rotational barrier about the isopropyl to aryl bond in highly substituted sulphines. Magnetic Resonance in Chemistry, 1977, 9, 695-698.	0.7	3