Patrick Rollin

List of Publications by Year
in descending order

121 papers	3,173 citations	201674 27 h-index	197818 49 g-index
136 all docs	136 docs citations	136 times ranked	3164 citing authors

#	Article	IF	Citations
1	Beneficial Health Effects of Glucosinolates-Derived Isothiocyanates on Cardiovascular and Neurodegenerative Diseases. Molecules, 2022, 27, 624.	3.8	32
2	Glucosinolates of Lepidium graminifolium L. (Brassicaceae) from Croatia. Natural Product Research, 2021, 35, 494-498.	1.8	3
3	The Moringin/Î±-CD Pretreatment Induces Neuroprotection in an In Vitro Model of Alzheimerâ€™s Disease: A Transcriptomic Study. Current Issues in Molecular Biology, 2021, 43, 197-214.	2.4	13
4	Five-Membered Cyclic Carbonates: Versatility for Applications in Organic Synthesis, Pharmaceutical, and Materials Sciences. Applied Sciences (Switzerland), 2021, 11, 5024.	2.5	38
5	Lepidium graminifolium L.: Glucosinolate Profile and Antiproliferative Potential of Volatile Isolates. Molecules, 2021, 26, 5183.	3.8	3
6	Isobornanyl sulfoxides and isobornanyl sulfone: Physicochemical characteristics and the features of crystal structure. Journal of Molecular Structure, 2021, 1239, 130491.	3.6	5
7	Mild Copper-Catalyzed, l-Proline-Promoted Cross-Coupling of Methyl 3-Amino-1-benzothiophene-2-carboxylate. Molecules, 2021, 26, 6822.	3.8	2
8	Glucosinolates in wild and cultivated Brassica montana Pourret (Brassicaceae) from southern France. Natural Product Research, 2020, 34, 1163-1166.	1.8	0
9	Glucosinolates of the only three Brassicales indigenous to French Polynesia. Natural Product Research, 2020, 34, 2847-2851.	1.8	4
10	Investigation of the glucosinolates in Hesperis matronalis L. and Hesperis laciniata All.: Unveiling 4â€²-O-Î²-d-apiofuranosylglucomatronalin. Carbohydrate Research, 2020, 488, 107898.	2.3	11
11	Glucosinolate structural diversity, identification, chemical synthesis and metabolism in plants. Phytochemistry, 2020, 169, 112100.	2.9	315
12	Synthesis of glycosyl sulfoximines by a highly chemo- and stereoselective NH- and O-transfer to thioglycosides. Organic and Biomolecular Chemistry, 2020, 18, 3893-3897.	2.8	12
13	Microwave-Assisted versus Conventional Isolation of Glucosinolate Degradation Products from Lunaria annua L. and Their Cytotoxic Activity. Biomolecules, 2020, 10, 215.	4.0	14
14	Stability and bioaccessibility during ex vivo digestion of glucoraphenin and glucoraphasatin from Matthiola incana (L.) R. Br.. Journal of Food Composition and Analysis, 2020, 90, 103483.	3.9	6
15	Glucosinolates in Reseda lutea L.: Distribution in plant tissues during flowering time. Biochemical Systematics and Ecology, 2020, 90, 104043.	1.3	5
16	Applying the hydrodistillation process to Pentadiplandra brazzeana Baill. root: a chemical assessment. Natural Product Research, 2019, 33, 1383-1386.	1.8	0
17	Neuroprotective Potential of Secondary Metabolites from Melicope lunu-ankenda (Rutaceae). Molecules, 2019, 24, 3109.	3.8	11
18	Antimicrobial and Cytotoxic Activities of Lepidium latifolium L. Hydrodistillate, Extract and Its Major Sulfur Volatile Allyl Isothiocyanate. Chemistry and Biodiversity, 2019, 16, e1800661.	2.1	24

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19	Isothiocyanates: cholinesterase inhibiting, antioxidant, and anti-inflammatory activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 577-582.	5.2	60
20	Advanced NMR-Based Structural Investigation of Glucosinolates and Desulfoglucosinolates. Journal of Natural Products, 2018, 81, 323-334.	3.0	18
21	Anomeric modification of carbohydrates using the Mitsunobu reaction. Beilstein Journal of Organic Chemistry, 2018, 14, 1619-1636.	2.2	25
22	Isothiocyanates: An Overview of Their Antimicrobial Activity against Human Infections. Molecules, 2018, 23, 624.	3.8	127
23	Ï‰-Methylsulfanylalkyl Glucosinolates: A General Synthetic Pathway. Molecules, 2018, 23, 786.	3.8	3
24	Protective Effect of Glucosinolates Hydrolytic Products in Neurodegenerative Diseases (NDDs). Nutrients, 2018, 10, 580.	4.1	38
25	A Combined Approach of NMR and Mass Spectrometry Techniques Applied to the Î±-Cyclodextrin/Moringin Complex for a Novel Bioactive Formulation â€. Molecules, 2018, 23, 1714.	3.8	17
26	The Î±-Cyclodextrin/Moringin Complex: A New Promising Antimicrobial Agent against Staphylococcus aureus. Molecules, 2018, 23, 2097.	3.8	14
27	Glucosinolate turnover in Brassicales species to an oxazolidin-2-one, formed via the 2-thione and without formation of thioamide. Phytochemistry, 2018, 153, 79-93.	2.9	19
28	The Isothiocyanate Isolated from Moringa oleifera Shows Potent Anti-Inflammatory Activity in the Treatment of Murine Subacute Parkinson's Disease. Rejuvenation Research, 2017, 20, 50-63.	1.8	50
29	The Î±-cyclodextrin complex of the Moringa isothiocyanate suppresses lipopolysaccharide-induced inflammation in RAW 264.7 macrophage cells through Akt and p38 inhibition. Inflammation Research, 2017, 66, 487-503.	4.0	27
30	LCâ€“MS profiling of glucosinolates in the seeds of Brassica elongata Ehrh., and of the two stenoendemic B. botteri Vis and B. cazzae Ginzb. & Teyber. Natural Product Research, 2017, 31, 58-62.	1.8	9
31	Glucosinolates: Novel Sources and Biological Potential. Reference Series in Phytochemistry, 2017, , 3-60.	0.4	10
32	UGT74B1 from Arabidopsis thaliana as a versatile biocatalyst for the synthesis of desulfoglycosinolates. Organic and Biomolecular Chemistry, 2016, 14, 6252-6261.	2.8	9
33	Glycerol carbonate in Ferrier reaction: Access to new enantiopure building blocks to develop glycoglycerolipid analogues. Carbohydrate Research, 2016, 436, 1-10.	2.3	5
34	Anticancer activity of glucomoringin isothiocyanate in human malignant astrocytoma cells. FÃ¬toterapÃ¬Ã¢, 2016, 110, 1-7.	2.2	64
35	Glucosinolates: Novel Sources and Biological Potential. , 2015, , 1-58.		3
36	Long-chain Glucosinolates from Arabis turrita: Enzymatic and Non-enzymatic Degradations. Natural Product Communications, 2015, 10, 1934578X1501000.	0.5	6

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37	Reductive opening of carbohydrate phenylsulfonylethylidene (PSE) acetals. Carbohydrate Research, 2015, 417, 117-124.	2.3	7
38	Glucosinolate Diversity in Bretschneidera sinensis of Chinese Origin. Journal of Natural Products, 2015, 78, 2001-2006.	3.0	17
39	An overview on neuroprotective effects of isothiocyanates for the treatment of neurodegenerative diseases. FÃ¬toterapÃ¬Â¢, 2015, 106, 12-21.	2.2	91
40	Long-chain Glucosinolates from Arabis turrita: Enzymatic and Non-enzymatic Degradations. Natural Product Communications, 2015, 10, 1043-6.	0.5	3
41	Novel Gram-Scale Production of Enantiopure R-Sulforaphane from Tuscan Black Kale Seeds. Molecules, 2014, 19, 6975-6986.	3.8	18
42	Contactless conductivity detection for screening myrosinase substrates by capillary electrophoresis. Analytica Chimica Acta, 2014, 807, 153-158.	5.4	15
43	Use of tosylated glycerol carbonate to access N-glycerylated aza-aromatic species. Tetrahedron, 2013, 69, 3721-3727.	1.9	13
44	Comparison of bioactive phytochemical content and release of isothiocyanates in selected brassica sprouts. Food Chemistry, 2013, 141, 297-303.	8.2	60
45	Stability of Benzylic-Type Isothiocyanates in Hydrodistillation-Mimicking Conditions. Journal of Agricultural and Food Chemistry, 2013, 61, 137-142.	5.2	18
46	Sulfur-containing metabolites in radishes. Further exploration of glucoraphenin desulfation. Journal of Sulfur Chemistry, 2013, 34, 48-54.	2.0	6
47	Glucosinolates in Two Endemic Plants of the Aurinia Genus and their Chemotaxonomic Significance. Natural Product Communications, 2013, 8, 1934578X1300801.	0.5	5
48	Glucosinolates in two endemic plants of the Aurinia genus and their chemotaxonomic significance. Natural Product Communications, 2013, 8, 1463-6.	0.5	7
49	Carbohydrate-derived PSE acetals: controlled base-induced ring cleavage. Tetrahedron, 2012, 68, 544-551.	1.9	8
50	Profile and quantification of glucosinolates in Pentadiplandra brazzeana Baillon. Phytochemistry, 2012, 73, 51-56.	2.9	22
51	Unexpected matrix interactions in liquid secondary ion mass spectrometry of two pyranosyl mercaptans. Rapid Communications in Mass Spectrometry, 2011, 25, 1399-1406.	1.5	3
52	Glucosinolate Synthesis: a Hydroxamic Acid Approach. European Journal of Organic Chemistry, 2011, 2011, 2293-2300.	2.4	18
53	Glucosinolate Distribution in Aerial Parts of Degenia velebitica. Chemistry and Biodiversity, 2011, 8, 2090-2096.	2.1	9
54	Glucosinolate Profiling and Antimicrobial Screening of Aurinia leucadea (Brassicaceae). Chemistry and Biodiversity, 2011, 8, 2310-2321.	2.1	21

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55	Glucosinolates: The synthetic approach. Comptes Rendus Chimie, 2011, 14, 194-210.	0.5	40
56	Sulfur Metabolites in Brassicales: From Daily Vegetables to Thiofunctional Chemistry. Phosphorus, Sulfur and Silicon and the Related Elements, 2011, 186, 1130-1136.	1.6	3
57	The isothiocyanate produced from glucomoringin inhibits NF-kB and reduces myeloma growth in nude mice in vivo. Biochemical Pharmacology, 2010, 79, 1141-1148.	4.4	116
58	Glucosinolate Chemistry: Synthesis of Oâ€Glycosylated Derivatives of Glucosinalbin. European Journal of Organic Chemistry, 2010, 2010, 3657-3664.	2.4	16
59	Oneâ€Step Surface Decoration of Poly(propyleneimines) (PPIs) with the Glyceryl Moiety: New Way for Recycling Homogeneous Dendrimerâ€Based Catalysts. Advanced Synthesis and Catalysis, 2010, 352, 1826-1833.	4.3	23
60	Palladiumâ€Catalyzed Coupling Reactions of Thioimidate Nâ€Oxides: Access to Î±â€Alkenylâ€•and Î±â€Arylâ€Functionalized Cyclic Nitrones. Angewandte Chemie - International Edition, 2010, 49, 577-580.	13.8	17
61	Glucoraphasatin: Chemistry, occurrence, and biological properties. Phytochemistry, 2010, 71, 6-12.	2.9	47
62	A micromolar O-sulfated thiohydroximate inhibitor bound to plant myrosinase. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 152-155.	0.7	2
63	Thioimidate N-Oxides: From Nature to Synthetic Pathways. Synlett, 2010, 2010, 725-728.	1.8	2
64	Tosylated glycerol carbonate, a versatile bis-electrophile to access new functionalized glycidol derivatives. Tetrahedron, 2009, 65, 8571-8581.	1.9	57
65	Diphenylphosphinoylethylidene (DPE) acetals: an alternative protective strategy in glycochemistry. Tetrahedron Letters, 2009, 50, 101-103.	1.4	6
66	A simple O-sulfated thiohydroximate molecule to be the first micromolar range myrosinase inhibitor. Tetrahedron Letters, 2009, 50, 3302-3305.	1.4	9
67	Updated Glucosinolate Profile of Dithyrea wislizenii. Journal of Natural Products, 2009, 72, 889-893.	3.0	20
68	Stereoselective Synthesis of 1,3-Disaccharides through Diels-Alder Reactions: Part 2[ ]: Convenient Protecting Groups for Heterodienes and Conformational Evaluations. Journal of Carbohydrate Chemistry, 2009, 28, 124-141.	1.1	8
69	Dramatic effect of PSE clamping on the behaviour of d-glucal under Ferrier I conditions. Tetrahedron Letters, 2008, 49, 3484-3488.	1.4	14
70	Thio-functionalised glucosinolates: unexpected transformation of desulfoglucoraphenin. Tetrahedron Letters, 2008, 49, 292-295.	1.4	22
71	HSCN condensation with ulosides: preferred formation of carbohydrate-fused hemiaminals of the 4-hydroxy-1,3-oxazolidine-2-thione type. Tetrahedron Letters, 2008, 49, 682-686.	1.4	16
72	Thermodynamics versus kinetics in hetero-Michael cyclizations: a highly stereoselective approach to access both epimers of a C-d-mannopyranoside. Tetrahedron Letters, 2008, 49, 4750-4753.	1.4	7

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73	Oxazolinethiones and Oxazolidinethiones for the First Copper-Catalyzed Desulfurative Cross-Coupling Reaction and First Sonogashira Applications. Organic Letters, 2008, 10, 853-856.	4.6	69
74	Reactivity of 1-phenylsulfinyl-2-phenylsulfanylethylene (SOSE) with O-nucleophiles generated by potassium tert-butoxide. Tetrahedron Letters, 2007, 48, 3699-3703.	1.4	4
75	Probing of PSE acetal protection for nucleoside chemistry. Tetrahedron Letters, 2007, 48, 3851-3854.	1.4	7
76	1,2-Glycerol Carbonate: A Versatile Renewable Synthon. Letters in Organic Chemistry, 2006, 3, 744-748.	0.5	40
77	Vinyl bis-sulfone methodology in thiosugars: selective access to chiral thiovinyl sulfones and PSE oxathianes. Tetrahedron, 2006, 62, 5141-5151.	1.9	4
78	Expeditious synthesis of Î²-cycloacetalic sulfoxides. Introducing 1-phenylsulfinyl-2-phenylsulfanylethylene (SOSE), a promising new alkenylsulfur reagent. Tetrahedron Letters, 2005, 46, 1035-1037.	1.4	5
79	Glucosinolates in the Subantarctic Crucifer Kerguelen Cabbage (Pringlea antiscorbutica). Journal of Natural Products, 2005, 68, 234-236.	3.0	20
80	The glucosinolateâ€“myrosinase system. New insights into enzymeâ€“substrate interactions by use of simplified inhibitors. Organic and Biomolecular Chemistry, 2005, 3, 1872.	2.8	25
81	Isolation of 4-Methylthio-3-butenyl Glucosinolate fromRaphanus sativusSprouts (Kaiware Daikon) and Its Redox Properties. Journal of Agricultural and Food Chemistry, 2005, 53, 9890-9896.	5.2	104
82	Small libraries of fused quinazolinone-sugars. Access to quinazolinedione nucleosides. Tetrahedron, 2004, 60, 2609-2619.	1.9	23
83	Regioselective N-vinylation of cyclic thionocarbamates through a vinyl bis-sulfone methodology. Tetrahedron Letters, 2004, 45, 6443-6446.	1.4	17
84	Wittig approach to carbohydrate-derived vinyl sulfides, new substrates for regiocontrolled ring-closure reactions. Tetrahedron, 2004, 60, 1817-1826.	1.9	33
85	Investigating thio-analogues of PSE acetals: a more complex reaction. Tetrahedron Letters, 2003, 44, 5723-5725.	1.4	8
86	Synthesis of sugar-based ethenyl ethers through a vinyl bis-sulfone methodology. Tetrahedron, 2003, 59, 4563-4572.	1.9	21
87	BIS-DESULFOGLUCOSINOLATES: A NEW CLASS OF BOLAFORMS. Synthetic Communications, 2002, 32, 2919-2930.	2.1	4
88	Synthesis of Anomeric Sulfimides and Their Use as a New Family of Glycosyl Donors. European Journal of Organic Chemistry, 2002, 2002, 171-180.	2.4	18
89	Sugar-based ethenyl ethers: stereoselective dipolar cycloadditions of nitrile oxides. Tetrahedron: Asymmetry, 2002, 13, 2535-2539.	1.8	20
90	Regioselective de-O-benzylation of phenylsulfonylethylidene (PSE) acetals-containing benzylated monosaccharides using triisobutylaluminum (TIBAL). Tetrahedron, 2002, 58, 9579-9583.	1.9	30

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91	Carba-glucotropaeolin: the first non-hydrolyzable glucosinolate analogue, to inhibit myrosinase. Tetrahedron Letters, 2002, 43, 2889-2890.	1.4	9
92	Novel indole-type glucosinolates from woad (Isatis tinctoria L.). Tetrahedron Letters, 2001, 42, 9015-9017.	1.4	92
93	Base-modified nucleosides from carbohydrate derived oxazolidinethiones: a five-step process. Tetrahedron Letters, 2001, 42, 2977-2980.	1.4	23
94	A new and rapid access to homochiral 2,3-dihydro-oxazolo[2,3-b]quinazolin-5-ones. Tetrahedron: Asymmetry, 2001, 12, 337-340.	1.8	23
95	Original Synthesis of Linear, Branched and Cyclic Oligoglycerol Standards. European Journal of Organic Chemistry, 2001, 2001, 875-896.	2.4	87
96	d-Fructoseâ€“l-sorbose interconversions. Access to 5-thio-d-fructose and interaction with the d-fructose transporter, GLUT5. Carbohydrate Research, 2001, 333, 327-334.	2.3	21
97	A New Convenient Synthesis of Ethenyl Ethers. Synlett, 2001, 2001, 1962-1964.	1.8	18
98	Phenylsulfonylethylidene (PSE) Acetals: A Novel Protective Group in Carbohydrate Chemistry. Synthesis, 2001, 2001, 0286-0292.	2.3	32
99	Synthetic Approaches to C-Glucosinolates. Tetrahedron, 2000, 56, 2647-2654.	1.9	20
100	Phenylsulfonylethylidene (PSE) acetals as atypical carbohydrate-protective groups. Tetrahedron Letters, 2000, 41, 2357-2360.	1.4	23
101	High Resolution X-ray Crystallography Shows That Ascorbate Is a Cofactor for Myrosinase and Substitutes for the Function of the Catalytic Base. Journal of Biological Chemistry, 2000, 275, 39385-39393.	3.4	165
102	Reactivity Range of a Chiral 1,3-Oxazolidine-2-thione Obtained from Vegetable Source through Chemo-enzymatic Processing. Heterocycles, 2000, 52, 827.	0.7	38
103	The first synthesis of C-glucotropaeolin. Tetrahedron Letters, 1999, 40, 7319-7321.	1.4	6
104	Chemo-enzymatic preparation from renewable resources of enantiopure 1,3-oxazolidine-2-thiones. Tetrahedron: Asymmetry, 1999, 10, 4775-4780.	1.8	25
105	A convenient synthesis of fluoroalkyl and fluoroaryl glycosides using Mitsunobu conditions. Carbohydrate Research, 1999, 318, 171-179.	2.3	18
106	Exploring an alternative approach to the synthesis of arylalkyl and indolylmethyl glucosinolates. Tetrahedron, 1998, 54, 8515-8524.	1.9	38
107	First synthesis of anomeric sulfimides - efficient glycosyl donors. Tetrahedron Letters, 1998, 39, 8097-8100.	1.4	14
108	Enzymatic, Chemical, and Thermal Breakdown of3H-Labeled Glucobrassicin, the Parent Indole Glucosinolate. Journal of Agricultural and Food Chemistry, 1997, 45, 4290-4296.	5.2	59

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109	Synthesis of 2-deoxy-2-fluoro-glucotropaeolin, a thioglucosidase inhibitor. Carbohydrate Research, 1997, 298, 127-130.	2.3	23
110	The myrosinase-glucosinolate interaction mechanism studied using some synthetic competitive inhibitors. FEBS Letters, 1996, 385, 87-90.	2.8	45
111	Synthesis of O-protected thiohydroximate-linked pseudodisaccharides. Carbohydrate Research, 1995, 266, 321-325.	2.3	7
112	Synthesis of deoxy derivatives of the glucosinolates glucotropaeolin and glucobrassicin. Carbohydrate Research, 1995, 278, 257-270.	2.3	16
113	(Z)-Stereospecific Addition of Glycosylmercaptans on Nitrilium Betaines.¹Synthesis of 1-S-Glucopyranosyl Arylthiohydroximates. Synthetic Communications, 1994, 24, 1403-1414.	2.1	19
114	Chemistry Prospects of new Sugar-Derived Vinyl Sulfones. Phosphorus, Sulfur and Silicon and the Related Elements, 1994, 95, 503-504.	1.6	5
115	Preparation of (5R)-5-vinyloxazolidme-2-thione from natural epiprogoitrin using immobilized myrosinase. Tetrahedron: Asymmetry, 1994, 5, 1157-1160.	1.8	15
116	Synthesis, structure and enzymatic evaluation of new spiro oxathiazole sugar derivatives. Tetrahedron, 1994, 50, 6559-6568.	1.9	23
117	Synthesis of an artificial phosphate bio-isostere of glucotropaeolin. Tetrahedron Letters, 1994, 35, 2173-2174.	1.4	11
118	Synthesis Of 1,5-Dithio-D-Glucopyranose and Some of its Biologically Relevant Derivatives. Journal of Carbohydrate Chemistry, 1993, 12, 719-729.	1.1	23
119	Sugar Thiochemistry. First Synthesis of 1,5-Dithio-D-Glucopyranose and Related Thia-Analogs of Glucosinolates. Phosphorus, Sulfur and Silicon and the Related Elements, 1993, 74, 467-468.	1.6	9
120	Synthesis of Aza-Analogs of Natural and Artificial Desulfoglucosinolates. Journal of Carbohydrate Chemistry, 1993, 12, 1127-1138.	1.1	5
121	Synthesis of Indole Glycosinolates, Suger Variants of Naturally Occurring Glucobrassicin. Heterocycles, 1993, 35, 1015.	0.7	16