Charlotte Held Gotfredsen

List of Publications by Year
in descending order

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101 papers	3,389 citations	147566 31 h-index	161609 54 g-index
108 all docs	108 docs citations	108 times ranked	4557 citing authors

#	Article	IF	Citations
1	Carbohydrate Structural Determination by NMR Spectroscopy:Â Modern Methods and Limitationsâ€. Chemical Reviews, 2000, 100, 4589-4614.	23.0	656
2	Accurate prediction of secondary metabolite gene clusters in filamentous fungi. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E99-107.	3.3	211
3	Inhibition of Virulence Gene Expression in Staphylococcus aureus by Novel Depsipeptides from a Marine Photobacterium. Marine Drugs, 2011, 9, 2537-2552.	2.2	109
4	Isolation and NMR Characterization of Fumonisin B₂and a New Fumonisin B₆fromAspergillus niger. Journal of Agricultural and Food Chemistry, 2010, 58, 949-953.	2.4	100
5	Antibacterial Compounds from Marine Vibrionaceae Isolated on a Global Expedition. Marine Drugs, 2010, 8, 2946-2960.	2.2	89
6	Physical Properties of Poly(ethylene glycol) (PEG)-Based Resins for Combinatorial Solid Phase Organic Chemistry:Â A Comparison of PEG-Cross-Linked and PEG-Grafted Resins. ACS Combinatorial Science, 2000, 2, 108-119.	3.3	86
7	Novofumigatonin biosynthesis involves a non-heme iron-dependent endoperoxide isomerase for orthoester formation. Nature Communications, 2018, 9, 2587.	5.8	85
8	Molecular and Chemical Characterization of the Biosynthesis of the 6-MSA-Derived Meroterpenoid Yanuthone D in Aspergillus niger. Chemistry and Biology, 2014, 21, 519-529.	6.2	84
9	Chemotaxonomy of Veroniceae and its allies in the Plantaginaceae. Phytochemistry, 2006, 67, 286-301.	1.4	75
10	Comparative Chemistry of Aspergillus oryzae (RIB40) and A. flavus (NRRL 3357). Metabolites, 2012, 2, 39-56.	1.3	66
11	Black perithecial pigmentation in Fusarium species is due to the accumulation of 5-deoxybostrycoidin-based melanin. Scientific Reports, 2016, 6, 26206.	1.6	60
12	A fluoride-responsive genetic circuit enables in vivo biofluorination in engineered Pseudomonas putida. Nature Communications, 2020, 11, 5045.	5.8	60
13	Novel Î±-L-Fucosidases from a Soil Metagenome for Production of Fucosylated Human Milk Oligosaccharides. PLoS ONE, 2016, 11, e0147438.	1.1	58
14	Comparison of Aqueous Molecular Dynamics with NMR Relaxation and Residual Dipolar Couplings Favors Internal Motion in a Mannose Oligosaccharide. Journal of the American Chemical Society, 2001, 123, 4792-4802.	6.6	54
15	Chemotaxonomic markers in Digitalideae (Plantaginaceae). Phytochemistry, 2005, 66, 1440-1447.	1.4	52
16	Epitope Diversity of N-Glycans from Bovine Peripheral Myelin Glycoprotein P0 Revealed by Mass Spectrometry and Nano Probe Magic Angle Spinning 1H NMR Spectroscopy. Journal of Biological Chemistry, 2001, 276, 30834-30844.	1.6	49
17	The 3F Library: Fluorinated Fsp³â€Rich Fragments for Expeditious ¹⁹Fâ€…NMR Based Screening. Angewandte Chemie - International Edition, 2020, 59, 2204-2210.	7.2	49
18	Recombinant production and characterisation of two related GH5 endo-Î²-1,4-mannanases from Aspergillus nidulans FGSC A4 showing distinctly different transglycosylation capacity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1720-1729.	1.1	46

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19	A Concise Synthesis of Castanospermine by the Use of a Transannular Cyclization. Journal of Organic Chemistry, 2009, 74, 8886-8889.	1.7	44
20	Genetic Characterization of Neosartorin Biosynthesis Provides Insight into Heterodimeric Natural Product Generation. Organic Letters, 2018, 20, 7197-7200.	2.4	43
21	Identification of Four New agr Quorum Sensing-Interfering Cyclodepsipeptides from a Marine Photobacterium. Marine Drugs, 2013, 11, 5051-5062.	2.2	42
22	Bio-Activity and Dereplication-Based Discovery of Ophiobolins and Other Fungal Secondary Metabolites Targeting Leukemia Cells. Molecules, 2013, 18, 14629-14650.	1.7	41
23	Inclusions of flavonoid 3-deoxyanthocyanidins in Sorghum bicolor self-organize into spherical structures. Physiological and Molecular Plant Pathology, 2004, 65, 187-196.	1.3	39
24	Solution Structure of an Intramolecular Pyrimidineâ^'Purineâ^'Pyrimidine Triplex Containing an RNA Third Strand. Journal of the American Chemical Society, 1998, 120, 4281-4289.	6.6	38
25	Novofumigatonin, a New Orthoester Meroterpenoid from Aspergillus novofumigatus. Organic Letters, 2008, 10, 401-404.	2.4	38
26	Dereplication Guided Discovery of Secondary Metabolites of Mixed Biosynthetic Origin from Aspergillus aculeatus. Molecules, 2014, 19, 10898-10921.	1.7	38
27	epi-Aszonalenins A, B, and C from Aspergillus novofumigatus. Tetrahedron Letters, 2006, 47, 6099-6102.	0.7	36
28	Enzyme catalysed production of sialylated human milk oligosaccharides and galactooligosaccharides by Trypanosoma cruzi trans-sialidase. New Biotechnology, 2014, 31, 156-165.	2.4	36
29	Biocatalytic production of 3â€²-sialyllactose by use of a modified sialidase with superior trans-sialidase activity. Process Biochemistry, 2014, 49, 265-270.	1.8	34
30	SPOCC-194, a New High Functional Group Density PEG-Based Resin for Solid-Phase Organic Synthesis. ACS Combinatorial Science, 2002, 4, 523-529.	3.3	33
31	Solid-Phase Glycosylation of Peptide Templates and On-Bead MAS-NMR Analysis: Perspectives for Glycopeptide Libraries. Chemistry - A European Journal, 2001, 7, 3584.	1.7	32
32	Chlorinated Iridoid Glucosides from Veronica longifolia and Their Antioxidant Activity. Journal of Natural Products, 2010, 73, 1593-1596.	1.5	32
33	Cytosporones O, P and Q from an endophytic Cytospora sp.. Tetrahedron Letters, 2010, 51, 1803-1805.	0.7	31
34	Characterization of four new antifungal yanuthones from Aspergillus niger. Journal of Antibiotics, 2015, 68, 201-205.	1.0	26
35	Unusual iridoid glycosides in Veronica sects. Hebe and Labiatoides. Biochemical Systematics and Ecology, 2008, 36, 207-215.	0.6	25
36	Developing Inhibitors of the p47phoxâ€“p22phox Proteinâ€“Protein Interaction by Fragment-Based Drug Discovery. Journal of Medicinal Chemistry, 2020, 63, 1156-1177.	2.9	25

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37	Structural Revision of Some Recently Published Iridoid Glucosides. Journal of Natural Products, 2007, 70, 29-32.	1.5	24
38	A Dereplication and Bioguided Discovery Approach to Reveal New Compounds from a Marine-Derived Fungus Stilbella fimetaria. Marine Drugs, 2017, 15, 253.	2.2	24
39	Chemical markers in Veronica sect. Hebe. Biochemical Systematics and Ecology, 2007, 35, 614-620.	0.6	22
40	Phytochemistry and molecular systematics of Triaenophora rupestris and Oreosolen wattii (Scrophulariaceae). Phytochemistry, 2008, 69, 2162-2166.	1.4	22
41	Structureâ€“Activity Relationship Study Based on Autoinducing Peptide (AIP) from Dog Pathogen S. schleiferi. Organic Letters, 2017, 19, 5276-5279.	2.4	22
42	Cyclopiamines C and D: Epoxide Spiroindolinone Alkaloids from Penicillium sp. CML 3020. Journal of Natural Products, 2018, 81, 785-790.	1.5	21
43	Aspergillus nidulans Synthesize Insect Juvenile Hormones upon Expression of a Heterologous Regulatory Protein and in Response to Grazing by Drosophila melanogaster Larvae. PLoS ONE, 2013, 8, e73369.	1.1	21
44	Methyl Effect in Azumamides Provides Insight Into Histone Deacetylase Inhibition by Macrocycles. Journal of Medicinal Chemistry, 2014, 57, 9644-9657.	2.9	20
45	Investigation of a 6â€MSA Synthase Gene Cluster in Aspergillus aculeatus Reveals 6â€MSAâ€derived Aculinic Acid, Aculins Aâ€“B and Epiâ€Aculinâ€…A. ChemBioChem, 2015, 16, 2200-2204.	1.3	20
46	Bis-Intercalation of Homodimeric Thiazole Orange Dyes in Selective Binding Sites of DNA Studied by 1H NMR Spectroscopy.. Acta Chemica Scandinavica, 1998, 52, 641-650.	0.7	20
47	Synthesis and application of sialic acid-containing building blocks for glycopeptide libraries. Establishing glycosylation conditions. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 2127-2133.	1.3	19
48	Enzymatic synthesis of Î²-xylosyl-oligosaccharides by transxylosylation using two Î²-xylosidases of glycoside hydrolase family 3 from Aspergillus nidulans FGSC A4. Carbohydrate Research, 2011, 346, 421-429.	1.1	19
49	Characterising Alzheimer's disease through integrative NMR- and LC-MS-based metabolomics. Metabolism Open, 2021, 12, 100125.	1.4	19
50	Iridoid glucosides of Paederota lutea and the relationships between Paederota and Veronica. Phytochemistry, 2004, 65, 2129-2134.	1.4	18
51	Iridoid Glucosides from Turkish Phlomis tuberosa. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2005, 60, 1295-1298.	0.3	18
52	Influence of Niche-Specific Nutrients on Secondary Metabolism in Vibrionaceae. Applied and Environmental Microbiology, 2016, 82, 4035-4044.	1.4	18
53	Structure of a DNA Duplex Containing a Single 2â€˜-O-Methyl-Î²-d-araT:â€‰ Combined Use of NMR, Restrained Molecular Dynamics, and Full Relaxation Matrix Refinement. Bioconjugate Chemistry, 1996, 7, 680-688.	1.8	17
54	Single-bead structure elucidation. Requirements for analysis of combinatorial solid-phase libraries by Nanoprobe MAS-NMR spectroscopy. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 1167-1171.	1.3	17

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55	Minor iridoids from Scutellaria albida ssp. albida. Inhibitory potencies on lipoxygenase, linoleic acid lipid peroxidation and antioxidant activity of iridoids from Scutellaria sp.. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 704-710.	2.5	17
56	Induced sclerotium formation exposes new bioactive metabolites from Aspergillus sclerotiicarbonarius. Journal of Antibiotics, 2015, 68, 603-608.	1.0	16
57	Synthesis and properties of Î±- and Î²-oligodeoxynucleotides containing Î±- and Î²-1-(2-O-methyl-d-arabinofuranosyl)thymine. Bioorganic and Medicinal Chemistry, 1996, 4, 1217-1225.	1.4	15
58	Chemical markers in Veronica sect. Hebe. II. Biochemical Systematics and Ecology, 2007, 35, 777-784.	0.6	15
59	Iridoid Glucosides from Eremostachys moluccelloides <scp>Bunge</scp>. Helvetica Chimica Acta, 2007, 90, 1461-1466.	1.0	14
60	Novel oligodeoxynucleotide analogues containing a 2â€²-O-methylarabinonucleoside. Tetrahedron Letters, 1994, 35, 6941-6944.	0.7	13
61	Synthesis and single crystal X-ray analysis of two griseofulvin metabolites. Tetrahedron Letters, 2010, 51, 5881-5882.	0.7	13
62	A new phenylethanoid triglycoside in Veronica beccabunga L. Biochemical Systematics and Ecology, 2011, 39, 193-197.	0.6	13
63	Programmable polyketide biosynthesis platform for production of aromatic compounds in yeast. Synthetic and Systems Biotechnology, 2020, 5, 11-18.	1.8	13
64	Chemical markers in Veronica sect. Hebe. III. Biochemical Systematics and Ecology, 2009, 37, 731-736.	0.6	12
65	Polycyclic alkaloids via transannular Mannich reactions. Chemical Communications, 2009, , 1888.	2.2	12
66	Unexpected Secoiridoid Glucosides from Manulea corymbosa. Journal of Natural Products, 2014, 77, 589-595.	1.5	12
67	On the biosynthetic origin of carminic acid. Insect Biochemistry and Molecular Biology, 2018, 96, 51-61.	1.2	12
68	Isolation, Structural Analyses and Biological Activity Assays against Chronic Lymphocytic Leukemia of Two Novel Cytochalasins â€" Sclerotionigrin A and B. Molecules, 2014, 19, 9786-9797.	1.7	11
69	Immunomodulatory N-acyl Dopamine Glycosides from the Icelandic Marine Sponge Myxilla incrustans Collected at a Hydrothermal Vent Site. Planta Medica, 2016, 82, 903-909.	0.7	11
70	Iridoid glucosides in the genus Veronica (Plantaginaceae) from New Zealand. Phytochemistry, 2017, 140, 174-180.	1.4	11
71	Azodyrecins Aâ€"C: Azoxides from a Soil-Derived Streptomyces Species. Journal of Natural Products, 2020, 83, 3519-3525.	1.5	11
72	Fragmentâ€Based Drug Discovery for RNA Targets. ChemMedChem, 2021, 16, 2588-2603.	1.6	11

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73	New Iridoid Glycosides fromLamium eriocephalum subsp.eriocephalum. Helvetica Chimica Acta, 2007, 90, 332-336.	1.0	10
74	S3 HMBC: Spin-State-Selective HMBC for accurate measurement of homonuclear coupling constants. Application to strychnine yielding thirteen hitherto unreported JHH. Journal of Magnetic Resonance, 2016, 263, 101-107.	1.2	10
75	Isolation of Methyl Troposulfenin from Phaeobacter inhibens. Journal of Natural Products, 2019, 82, 1387-1390.	1.5	10
76	The 3F Library: Fluorinated Fsp³â€Rich Fragments for Expeditious ¹⁹Fâ€...NMR Based Screening. Angewandte Chemie, 2020, 132, 2224-2230.	1.6	10
77	Collagenase and Tyrosinase Inhibitory Effect of Isolated Constituents from the Moss Polytrichum formosum. Plants, 2021, 10, 1271.	1.6	10
78	Iridoids and phenylethanoids in Lagotis integrifolia and Wulfeniopsis amherstiana (Plantaginaceae). Biochemical Systematics and Ecology, 2009, 37, 421-425.	0.6	9
79	Further iridoid glucosides in the genus Manulea (Scrophulariaceae). Phytochemistry, 2015, 109, 43-48.	1.4	9
80	Specific Electrostatic Molecular Recognition in Water. Chemistry - A European Journal, 2016, 22, 7206-7214.	1.7	8
81	S 3 HMBC hetero : Spin-State-Selective HMBC for accurate measurement of long-range heteronuclear coupling constants. Journal of Magnetic Resonance, 2017, 275, 68-72.	1.2	8
82	Mass Spectrometry Guided Discovery and Design of Novel Asperphenamate Analogs From Penicillium astrolabium Reveals an Extraordinary NRPS Flexibility. Frontiers in Microbiology, 2020, 11, 618730.	1.5	8
83	Taxonomy Driven Discovery of Polyketides from Aspergillus californicus. Journal of Natural Products, 2021, 84, 979-985.	1.5	8
84	A fluorescent probe which allows highly specific thiol labeling at low pH. Analytical Biochemistry, 2012, 421, 115-120.	1.1	7
85	Iridoid glucosides in the endemic Picconia azorica (Oleaceae). Phytochemistry, 2015, 115, 171-174.	1.4	7
86	Triculamin: An Unusual Lasso Peptide with Potent Antimycobacterial Activity. Journal of Natural Products, 2022, 85, 1514-1521.	1.5	7
87	Regio- and stereoselective hydrosilylation of immobilized terminal alkynes. Tetrahedron Letters, 2008, 49, 6220-6223.	0.7	6
88	Hesseltins Bâ€“G, novel meroterpenoids from a new Penicillium species. Tetrahedron Letters, 2011, 52, 598-601.	0.7	5
89	Iridoids in Hydrangeaceae. Biochemical Systematics and Ecology, 2016, 64, 122-130.	0.6	5
90	Synthesis of branched and linear 1,4-linked galactan oligosaccharides. Organic and Biomolecular Chemistry, 2018, 16, 1157-1162.	1.5	5

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91	Identification and Optimization of Novel Small-Molecule Cas9 Inhibitors by Cell-Based High-Throughput Screening. Journal of Medicinal Chemistry, 2022, 65, 3266-3305.	2.9	5
92	Secondary Metabolites from Eremostachys Laciniata. Natural Product Communications, 2008, 3, 1934578X0800300.	0.2	4
93	Iridoids from Scutellaria goulimyi Rech. f., Lamiaceae. Morphological and chemical relations with Scutellaria albida L. ssp albida. Biochemical Systematics and Ecology, 2012, 43, 139-141.	0.6	4
94	Genetic origin of homopyrones, a rare type of hybrid phenylpropanoid- and polyketide-derived yellow pigments from Aspergillus homomorphus. Applied Microbiology and Biotechnology, 2021, 105, 5113-5121.	1.7	4
95	Iridoid glucosides of Paederota bonarota and the relationships between Paederota and Veronica. Biochemical Systematics and Ecology, 2007, 35, 501-505.	0.6	3
96	Synthesis of Two Tetrasaccharide Pentenyl Glycosides Related to the Pectic Rhamnogalacturonan I Polysaccharide. Molecules, 2018, 23, 327.	1.7	3
97	Iridoid glucosides in the genus Sutera (Scrophulariaceae) as chemotaxonomic markers in tribe Limoselleae. Phytochemistry, 2019, 158, 149-155.	1.4	3
98	Practical considerations for working with graphene oxide as alignment media for RDC measurements. Magnetic Resonance in Chemistry, 2021, 59, 738-745.	1.1	3
99	Sulochrins and alkaloids from a fennel endophyte Aspergillus sp. FVL2. Natural Product Research, 2021, , 1-11.	1.0	1
100	Frontispiz: The 3F Library: Fluorinated Fsp³â€Rich Fragments for Expeditious ¹⁹Fâ€...NMR Based Screening. Angewandte Chemie, 2020, 132, .	1.6	0
101	Frontispiece: The 3F Library: Fluorinated Fsp³â€Rich Fragments for Expeditious ¹⁹Fâ€...NMR Based Screening. Angewandte Chemie - International Edition, 2020, 59, .	7.2	0