

Neil J Oldham

List of Publications by Year in descending order

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110
papers

6,766
citations

76326

40
h-index

64796

79
g-index

114
all docs

114
docs citations

114
times ranked

8203
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational investigation of aphid odorant receptor structure and binding function. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 3647-3658.	3.5	3
2	Site-Selective Installation of N ^μ -Modified Sidechains into Peptide and Protein Scaffolds via Visible-Light-Mediated Desulfurative C-C Bond Formation. <i>Angewandte Chemie</i> , 2022, 134, e202110223.	2.0	9
3	Site-Selective Installation of N ^μ -Modified Sidechains into Peptide and Protein Scaffolds via Visible-Light-Mediated Desulfurative C-C Bond Formation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	21
4	An ALS-associated variant of the autophagy receptor SQSTM1/p62 reprograms binding selectivity toward the autophagy-related hATG8 proteins. <i>Journal of Biological Chemistry</i> , 2022, 298, 101514.	3.4	3
5	Decoding Protein Gas-Phase Stability with Alanine Scanning and Collision-Induced Unfolding Ion Mobility Mass Spectrometry. <i>Analysis & Sensing</i> , 2021, 1, 63-69.	2.0	5
6	Decoding Protein Gas-Phase Stability with Alanine Scanning and Collision-Induced Unfolding Ion Mobility Mass Spectrometry. <i>Analysis & Sensing</i> , 2021, 1, 6-6.	2.0	0
7	Analysis of insulin glulisine at the molecular level by X-ray crystallography and biophysical techniques. <i>Scientific Reports</i> , 2021, 11, 1737.	3.3	7
8	Iridoid Sex Pheromone Biosynthesis in Aphids Mimics Iridoid-Producing Plants. <i>Chemistry - A European Journal</i> , 2021, 27, 7231-7234.	3.3	8
9	Mapping the interaction between eukaryotic initiation factor 4A (eIF4A) and the inhibitor hippuristanol using carbene footprinting and mass spectrometry. <i>Proteomics</i> , 2021, 21, 2000288.	2.2	4
10	Combined Chemical Modification and Collision Induced Unfolding Using Native Ion Mobility-Mass Spectrometry Provides Insights into Protein Gas-Phase Structure. <i>Chemistry - A European Journal</i> , 2021, 27, 13783-13792.	3.3	3
11	Structural basis for chain release from the enacyloxin polyketide synthase. <i>Nature Chemistry</i> , 2019, 11, 913-923.	13.6	39
12	PepFoot: A Software Package for Semiautomated Processing of Protein Footprinting Data. <i>Journal of Proteome Research</i> , 2019, 18, 2925-2930.	3.7	13
13	Mechanism of intersubunit ketosynthase-dehydratase interaction in polyketide synthases. <i>Nature Chemical Biology</i> , 2018, 14, 270-275.	8.0	31
14	Tyrosinase-Mediated Bioconjugation. A Versatile Approach to Chimeric Macromolecules. <i>Bioconjugate Chemistry</i> , 2018, 29, 2550-2560.	3.6	24
15	A front-face 'SNi synthase' engineered from a retaining 'double-SN2' hydrolase. <i>Nature Chemical Biology</i> , 2017, 13, 874-881.	8.0	22
16	Carbene Footprinting Reveals Binding Interfaces of a Multimeric Membrane-Spanning Protein. <i>Angewandte Chemie</i> , 2017, 129, 15069-15073.	2.0	11
17	Carbene Footprinting Reveals Binding Interfaces of a Multimeric Membrane-Spanning Protein. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14873-14877.	13.8	33
18	Mass spectrometry insights into a tandem ubiquitin-binding domain hybrid engineered for the selective recognition of unanchored polyubiquitin. <i>Proteomics</i> , 2016, 16, 1961-1969.	2.2	11

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19	Acyl hydrolases from trans-AT polyketide synthases target acetyl units on acyl carrier proteins. <i>Chemical Communications</i> , 2016, 52, 5262-5265.	4.1	17
20	Defective recognition of LC3B by mutant SQSTM1/p62 implicates impairment of autophagy as a pathogenic mechanism in ALS-FTLD. <i>Autophagy</i> , 2016, 12, 1094-1104.	9.1	123
21	Method for the Purification of Endogenous Unanchored Polyubiquitin Chains. <i>Methods in Molecular Biology</i> , 2016, 1449, 203-213.	0.9	3
22	Design of nucleotide-mimetic and non-nucleotide inhibitors of the translation initiation factor eIF4E: Synthesis, structural and functional characterisation. <i>European Journal of Medicinal Chemistry</i> , 2016, 124, 200-217.	5.5	23
23	Carbene footprinting accurately maps binding sites in protein-ligand and protein-protein interactions. <i>Nature Communications</i> , 2016, 7, 13288.	12.8	61
24	Ion mobility-mass spectrometry reveals conformational flexibility in the deubiquitinating enzyme USP5. <i>Proteomics</i> , 2015, 15, 2835-2841.	2.2	14
25	Structural insights into interactions between ubiquitin specific protease 5 and its polyubiquitin substrates by mass spectrometry and ion mobility spectrometry. <i>Protein Science</i> , 2015, 24, 1257-1263.	7.6	10
26	Relative Binding Affinities of Integrin Antagonists by Equilibrium Dialysis and Liquid Chromatography-Mass Spectrometry. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 221-224.	2.8	5
27	Acyl-Chain Elongation Drives Ketosynthase Substrate Selectivity in <i>trans</i> -Acyltransferase Polyketide Synthases. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1817-1821.	13.8	25
28	Ubiquitin-binding domains: Mechanisms of ubiquitin recognition and use as tools to investigate ubiquitin-modified proteomes. <i>Proteomics</i> , 2015, 15, 844-861.	2.2	41
29	A Close Look at a Ketosynthase from a Trans-Acyltransferase Modular Polyketide Synthase. <i>Structure</i> , 2014, 22, 444-451.	3.3	65
30	Defensive Bacteriome Symbiont with a Drastically Reduced Genome. <i>Current Biology</i> , 2013, 23, 1478-1484.	3.9	314
31	The effects of cation adduction upon the conformation of three-helix bundle protein domains. <i>International Journal for Ion Mobility Spectrometry</i> , 2013, 16, 19-27.	1.4	3
32	Amino acid-accepting ketosynthase domain from a trans-AT polyketide synthase exhibits high selectivity for predicted intermediate. <i>Chemical Science</i> , 2013, 4, 3212.	7.4	23
33	Substrate Specificity in Ketosynthase Domains from <i>trans</i> -AT Polyketide Synthases. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1143-1147.	13.8	58
34	Insights into the structure and assembly of the <i>Bacillus subtilis</i> clamp-loader complex and its interaction with the replicative helicase. <i>Nucleic Acids Research</i> , 2013, 41, 5115-5126.	14.5	12
35	Cyclisation of Lys48-linked diubiquitin in vitro and in vivo. <i>FEBS Letters</i> , 2012, 586, 4144-4147.	2.8	4
36	Evidence for the Preservation of Native Inter- and Intra-Molecular Hydrogen Bonds in the Desolvated FK-Binding Protein-FK506 Complex Produced by Electrospray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1757-1767.	2.8	12

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37	Insights into the Molecular Composition of Endogenous Unanchored Polyubiquitin Chains. <i>Journal of Proteome Research</i> , 2012, 11, 1969-1980.	3.7	28
38	Probing Affinity and Ubiquitin Linkage Selectivity of Ubiquitin-Binding Domains Using Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2012, 134, 6416-6424.	13.7	34
39	Metagenome Mining Reveals Polytheonamides as Posttranslationally Modified Ribosomal Peptides. <i>Science</i> , 2012, 338, 387-390.	12.6	317
40	Charge state and adduct reduction in electrospray ionization mass spectrometry using solvent vapor exposure. <i>Analytical Biochemistry</i> , 2012, 421, 788-790.	2.4	60
41	Alkali Metal Cation-Induced Destabilization of Gas-Phase Protein-Ligand Complexes: Consequences and Prevention. <i>Analytical Chemistry</i> , 2011, 83, 7472-7479.	6.5	19
42	Structural Insights into Dissimilatory Sulfite Reductases: Structure of Desulfurubidin from <i>Desulfomicrobium Norvegicum</i> . <i>Frontiers in Microbiology</i> , 2011, 2, 71.	3.5	38
43	Detection of a Protein Conformational Equilibrium by Electrospray Ionization Ion Mobility Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8291-8294.	13.8	60
44	Mechanism-Based Inhibition of Quinone Reductase 2 (NQO2): Selectivity for NQO2 over NQO1 and Structural Basis for Flavoprotein Inhibition. <i>ChemBioChem</i> , 2011, 12, 1203-1208.	2.6	20
45	A click chemistry approach to C3 symmetric, G-quadruplex stabilising ligands. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2926.	2.8	28
46	A soluble RecN homologue provides means for biochemical and genetic analysis of DNA double-strand break repair in <i>Escherichia coli</i> . <i>DNA Repair</i> , 2009, 8, 1434-1443.	2.8	14
47	Collision induced unfolding of protein ions in the gas phase studied by ion mobility-mass spectrometry: The effect of ligand binding on conformational stability. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1851-1858.	2.8	168
48	Site-selective chemical protein glycosylation protects from autolysis and proteolytic degradation. <i>Carbohydrate Research</i> , 2009, 344, 1508-1514.	2.3	51
49	Photoinduced, Family-Specific, Site-Selective Cleavage of TIM-Barrel Proteins. <i>Journal of the American Chemical Society</i> , 2009, 131, 12518-12519.	13.7	8
50	Selectivity of small molecule ligands for parallel and anti-parallel DNA G-quadruplex structures. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 4194.	2.8	61
51	ESI-MS Studies on Prolyl Hydroxylase Domain...2 Reveal a New Metal Binding Site. <i>ChemMedChem</i> , 2008, 3, 569-572.	3.2	25
52	Chemical site-selective prenylation of proteins. <i>Molecular BioSystems</i> , 2008, 4, 558.	2.9	23
53	Evaluation of aspirin metabolites as inhibitors of hypoxia-inducible factor hydroxylases. <i>Chemical Communications</i> , 2008, , 6393.	4.1	16
54	Asparaginyl Hydroxylation of the Notch Ankyrin Repeat Domain by Factor Inhibiting Hypoxia-inducible Factor. <i>Journal of Biological Chemistry</i> , 2007, 282, 24027-24038.	3.4	189

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55	Structural and Mechanistic Studies on the Inhibition of the Hypoxia-inducible Transcription Factor Hydroxylases by Tricarboxylic Acid Cycle Intermediates. <i>Journal of Biological Chemistry</i> , 2007, 282, 3293-3301.	3.4	194
56	Bile Acid Interactions with Rabbit Ileal Lipid Binding Protein and an Engineered Helixless Variant Reveal Novel Ligand Binding Properties of a Versatile β^2 -Clam Shell Protein Scaffold. <i>Journal of Molecular Biology</i> , 2007, 371, 1365-1377.	4.2	20
57	Combined Mass Spectrometry and Dynamic Chemistry Approach to Identify Metalloenzyme Inhibitors. <i>ChemMedChem</i> , 2007, 2, 175-179.	3.2	46
58	Quantitative determination of lysozyme-ligand binding in the solution and gas phases by electrospray ionisation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3505-3510.	1.5	48
59	Expanding the diversity of chemical protein modification allows post-translational mimicry. <i>Nature</i> , 2007, 446, 1105-1109.	27.8	298
60	Purified recombinant hARD1 does not catalyse acetylation of Lys532 of HIF-1 β fragments in vitro. <i>FEBS Letters</i> , 2006, 580, 1911-1918.	2.8	37
61	Studies on ternary metallo- β^2 lactamase-inhibitor complexes using electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1000-1004.	2.8	24
62	Cellular oxygen sensing: Crystal structure of hypoxia-inducible factor prolyl hydroxylase (PHD2). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9814-9819.	7.1	310
63	Posttranslational hydroxylation of ankyrin repeats in I β B proteins by the hypoxia-inducible factor (HIF) asparaginyl hydroxylase, factor inhibiting HIF (FIH). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14767-14772.	7.1	258
64	Structural Complexity, Differential Response to Infection, and Tissue Specificity of Indolic and Phenylpropanoid Secondary Metabolism in Arabidopsis Roots. <i>Plant Physiology</i> , 2005, 138, 1058-1070.	4.8	179
65	Hypoxia-inducible factor prolyl hydroxylase 2 has a high affinity for ferrous iron and 2-oxoglutarate. <i>Molecular BioSystems</i> , 2005, 1, 321.	2.9	98
66	Incorporation of oxygen into the succinate co-product of iron(II) and 2-oxoglutarate dependent oxygenases from bacteria, plants and humans. <i>FEBS Letters</i> , 2005, 579, 5170-5174.	2.8	29
67	Corrigendum to "Incorporation of oxygen into the succinate co-product of iron(II) and 2-oxoglutarate dependent oxygenases from bacteria, plants and humans (FEBS 29930)" [FEBS Lett. 579 (2005) 5170-5174]. <i>FEBS Letters</i> , 2005, 579, 6688-6688.	2.8	0
68	The inhibition of factor inhibiting hypoxia-inducible factor (FIH) by β^2 -oxocarboxylic acids. <i>Chemical Communications</i> , 2005, , 5438.	4.1	30
69	Cannibalism of diploid drone larvae in the honey bee (<i>Apis mellifera</i>) is released by odd pattern of cuticular substances. <i>Journal of Apicultural Research</i> , 2004, 43, 69-74.	1.5	31
70	Induction of 3'-O- β -d-ribofuranosyl adenosine during compatible, but not during incompatible, interactions of <i>Arabidopsis thaliana</i> or <i>Lycopersicon esculentum</i> with <i>Pseudomonas syringae</i> pathovar tomato. <i>Planta</i> , 2004, 218, 668-672.	3.2	11
71	Dufour gland secretion in the harvester ant genus <i>Pogonomyrmex</i> . <i>Chemoecology</i> , 2004, 14, 101-106.	1.1	24
72	Glyco-SeS: Selenenylsulfide-Mediated Protein Glycoconjugation—A New Strategy in Post-Translational Modification. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 828-833.	13.8	158

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73	Glycodendriproteins: A Synthetic Glycoprotein Mimic Enzyme with Branched Sugar-Display Potently Inhibits Bacterial Aggregation. <i>Journal of the American Chemical Society</i> , 2004, 126, 4750-4751.	13.7	90
74	N-(17-Phosphonoxylinolenoyl)glutamine and N-(17-phosphonoxylinoleoyl)glutamine from Insect Gut: The First Backbone-Phosphorylated Fatty Acid Derivatives in Nature. <i>Journal of Organic Chemistry</i> , 2004, 69, 1104-1109.	3.2	19
75	Synthesis and Evaluation of β -Lactams (Piperazones) as Elastase Inhibitors.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
76	Allometric analysis of the induced flavonols on the leaf surface of wild tobacco (<i>Nicotiana glauca</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td	2.9	57
77	Synthesis and evaluation of β -Lactams (Piperazones) as elastase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 387-389.	2.2	30
78	Non-denaturing electrospray ionisation-mass spectrometry reveals ligand selectivity in histamine-binding protein RaHBP2 This is one of a number of contributions from the current members of the Dyson Perrins Laboratory to mark the end of almost 90 years of organic chemistry research in that building, as all its current academic staff move across South Parks Road to a new purpose-built laboratory. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 3645.	2.8	4
79	Non-denaturing electrospray ionisation-mass spectrometry reveals ligand selectivity in histamine-binding protein RaHBP2 This is one of a number of contributions from the current members of the Dyson Perrins Laboratory to mark the end of almost 90 years of organic chemistry research in that building, as all its current academic staff move across South Parks Road to a new purpose-built laboratory. Electronic supplementary information (ESI) available: experimental procedures, characterization, protein ESI-MS spectra and crystal data. See http://www.rsc.org/bomc . <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 3642.	2.8	81
80	Informational constraints on optimal sex allocation in ants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8799-8804.	7.1	108
81	Hypoxia-inducible Factor (HIF) Asparagine Hydroxylase Is Identical to Factor Inhibiting HIF (FIH) and Is Related to the Cupin Structural Family. <i>Journal of Biological Chemistry</i> , 2002, 277, 26351-26355.	3.4	624
82	Voltammetry of Electroactive Oil Droplets: Electrochemically-Induced Ion Insertion, Expulsion and Reaction Processes at Microdroplets of N,N,N',N'-Tetraalkyl-para-phenylenediamines (TRPD, R = n-Butyl,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td	2.9	57
83	Phenylphenalenone-Related Compounds: Chemotaxonomic Markers of the Haemodoraceae from <i>Xiphidium caeruleum</i> . <i>Journal of Natural Products</i> , 2002, 65, 1122-1130.	3.0	41
84	Characterization of a Δ^8 -Sphingolipid Desaturase from Higher Plants: A Stereochemical and Mechanistic Study on the Origin of E,Z Isomers. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2298-2300.	13.8	24
85	Predatory behavior and chemical communication in two <i>Metapone</i> species (Hymenoptera:Formicidae). <i>Chemoecology</i> , 2002, 12, 147-151.	1.1	14
86	The use of dioxygen by HIF prolyl hydroxylase (PHD1). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 1547-1550.	2.2	97
87	Benzoic acid glucosinolate esters and other glucosinolates from <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2002, 59, 663-671.	2.9	226
88	Gene expression of 5-epi-aristolochene synthase and formation of capsidiol in roots of <i>Nicotiana attenuata</i> and <i>N. glauca</i> . <i>Phytochemistry</i> , 2002, 60, 109-116.	2.9	39
89	Rapid HPLC Screening of Jasmonate-Induced Increases in Tobacco Alkaloids, Phenolics, and Diterpene Glycosides in <i>Nicotiana attenuata</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 3553-3558.	5.2	234
90	Chemical Characterization and Synthesis of the Major Component of the Sex Pheromone of the Sugarcane Borer <i>Diatraea saccharalis</i> . <i>Collection of Czechoslovak Chemical Communications</i> , 2001, 66, 1682-1690.	1.0	8

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91	Iridoid biosynthesis in staphylinid rove beetles (Coleoptera: Staphylinidae, Philonthinae). <i>Insect Biochemistry and Molecular Biology</i> , 2001, 31, 583-591.	2.7	24
92	Determination and Mass Spectrometric Investigation of a New Mixed Halogenated Persistent Component in Fish and Seal. <i>Environmental Science & Technology</i> , 2001, 35, 4157-4162.	10.0	51
93	Analysis of Underivatized Brassinosteroids by HPLC/APCI-MS. Occurrence of 3-Epibrassinolide in <i>Arabidopsis thaliana</i> . <i>Collection of Czechoslovak Chemical Communications</i> , 2001, 66, 1729-1734.	1.0	23
94	Benzoic acid, a stimulant of odorant receptors of <i>Bombyx mori</i> , is rapidly metabolized to N-benzoylserine on the antennae. <i>Chemoecology</i> , 2001, 11, 183-190.	1.1	2
95	The biosynthesis of benzoic acid glucosinolate esters in <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2001, 57, 23-32.	2.9	110
96	A Mechanism of Benzoic Acid Biosynthesis in Plants and Bacteria that Mirrors Fatty Acid \hat{I}^2 -Oxidation. <i>ChemBioChem</i> , 2001, 2, 784.	2.6	50
97	Recruitment pheromone in the harvester ant genus <i>Pogonomyrmex</i> . <i>Journal of Insect Physiology</i> , 2001, 47, 369-374.	2.0	42
98	Detection and Removal of an Artefact Fatty Acid from the Binding Site of Recombinant <i>Bombyx mori</i> Pheromone-binding Protein. <i>Chemical Senses</i> , 2001, 26, 529-531.	2.0	31
99	Analysis of the Silkworm Moth Pheromone Binding Protein's Pheromone Complex by Electrospray-Ionization Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 4341-4343.	13.8	28
100	Rapid and sensitive analysis of azadirachtin and related triterpenoids from Neem (<i>Azadirachta indica</i>) by high-performance liquid chromatography-atmospheric pressure chemical ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2000, 886, 89-97.	3.7	78
101	3-Hydroxy-3-phenylpropanoic acid is an intermediate in the biosynthesis of benzoic acid and salicylic acid but benzaldehyde is not. <i>Planta</i> , 2000, 212, 119-126.	3.2	63
102	Terpenoid Secondary Metabolism in <i>Arabidopsis thaliana</i> : cDNA Cloning, Characterization, and Functional Expression of a Myrcene/(E)- \hat{I}^2 -Ocimene Synthase. <i>Archives of Biochemistry and Biophysics</i> , 2000, 375, 261-269.	3.0	137
103	The Methionine Chain Elongation Pathway in the Biosynthesis of Glucosinolates in <i>Eruca sativa</i> (Brassicaceae). <i>Archives of Biochemistry and Biophysics</i> , 2000, 378, 411-419.	3.0	100
104	Pheromone analysis using capillary gas chromatographic techniques. <i>Journal of Chromatography A</i> , 1999, 843, 199-236.	3.7	36
105	Species Recognition from Postpharyngeal Gland Contents of Ants of the <i>Cataglyphis bicolor</i> Group. <i>Journal of Chemical Ecology</i> , 1999, 25, 1383-1393.	1.8	15
106	Determination of the double bond position in functionalized monoenes by chemical ionization ion-trap mass spectrometry using acetonitrile as a reagent gas. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 331-336.	1.5	66
107	Ion/molecule reactions provide new evidence for the structure and origin of $[C_3H_4N]^+$ from acetonitrile chemical ionization plasma. , 1999, 13, 1694-1698.		18
108	Biosynthesis of Defensive Allomones in Leaf Beetle Larvae: Stereochemistry of Salicylalcohol Oxidation in <i>Phratora vitellinae</i> and Comparison of Enzyme Substrate and Stereospecificity with Alcohol Oxidases from Several Iridoid Producing Leaf Beetles. <i>Journal of Chemical Ecology</i> , 1997, 23, 429-443.	1.8	23

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109	On the similarity of the Dufour gland secretion and the cuticular hydrocarbons of some bumblebees. <i>Physiological Entomology</i> , 1994, 19, 115-123.	1.5	54
110	Volatile secretions of old world army ant <i>Aenictus rotundatus</i> and chemotaxonomic implications of army ant dufour gland chemistry. <i>Journal of Chemical Ecology</i> , 1994, 20, 3297-3305.	1.8	20