NeilÂ J Oldham

List of Publications by Year
in descending order

110	6,766	76326	64796
papers	citations	40 h-index	79 g-index

114	114	114	8203
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hypoxia-inducible Factor (HIF) Asparagine Hydroxylase Is Identical to Factor Inhibiting HIF (FIH) and Is Related to the Cupin Structural Family. Journal of Biological Chemistry, 2002, 277, 26351-26355.	3.4	624
2	Metagenome Mining Reveals Polytheonamides as Posttranslationally Modified Ribosomal Peptides. Science, 2012, 338, 387-390.	12.6	317
3	Defensive Bacteriome Symbiont with a Drastically Reduced Genome. Current Biology, 2013, 23, 1478-1484.	3.9	314
4	Cellular oxygen sensing: Crystal structure of hypoxia-inducible factor prolyl hydroxylase (PHD2). Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9814-9819.	7.1	310
5	Expanding the diversity of chemical protein modification allows post-translational mimicry. Nature, 2007, 446, 1105-1109.	27.8	298
6	Posttranslational hydroxylation of ankyrin repeats in IÂB proteins by the hypoxia-inducible factor (HIF) asparaginyl hydroxylase, factor inhibiting HIF (FIH). Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14767-14772.	7.1	258
7	Rapid HPLC Screening of Jasmonate-Induced Increases in Tobacco Alkaloids, Phenolics, and Diterpene Glycosides in Nicotiana attenuata. Journal of Agricultural and Food Chemistry, 2001, 49, 3553-3558.	5.2	234
8	Benzoic acid glucosinolate esters and other glucosinolates from Arabidopsis thaliana. Phytochemistry, 2002, 59, 663-671.	2.9	226
9	Structural and Mechanistic Studies on the Inhibition of the Hypoxia-inducible Transcription Factor Hydroxylases by Tricarboxylic Acid Cycle Intermediates. Journal of Biological Chemistry, 2007, 282, 3293-3301.	3.4	194
10	Asparaginyl Hydroxylation of the Notch Ankyrin Repeat Domain by Factor Inhibiting Hypoxia-inducible Factor. Journal of Biological Chemistry, 2007, 282, 24027-24038.	3.4	189
11	Structural Complexity, Differential Response to Infection, and Tissue Specificity of Indolic and Phenylpropanoid Secondary Metabolism in Arabidopsis Roots. Plant Physiology, 2005, 138, 1058-1070.	4.8	179
12	Collision induced unfolding of protein ions in the gas phase studied by ion mobility-mass spectrometry: The effect of ligand binding on conformational stability. Journal of the American Society for Mass Spectrometry, 2009, 20, 1851-1858.	2.8	168
13	Glyco-SeS: Selenenylsulfide-Mediated Protein Glycoconjugationâ€"A New Strategy in Post-Translational Modification. Angewandte Chemie - International Edition, 2004, 43, 828-833.	13.8	158
14	Terpenoid Secondary Metabolism in Arabidopsis thaliana: cDNA Cloning, Characterization, and Functional Expression of a Myrcene/(E)-Î²-Ocimene Synthase. Archives of Biochemistry and Biophysics, 2000, 375, 261-269.	3.0	137
15	Defective recognition of LC3B by mutant SQSTM1/p62 implicates impairment of autophagy as a pathogenic mechanism in ALS-FTLD. Autophagy, 2016, 12, 1094-1104.	9.1	123
16	The biosynthesis of benzoic acid glucosinolate esters in Arabidopsis thaliana. Phytochemistry, 2001, 57, 23-32.	2.9	110
17	Informational constraints on optimal sex allocation in ants. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8799-8804.	7.1	108
18	The Methionine Chain Elongation Pathway in the Biosynthesis of Glucosinolates in Eruca sativa (Brassicaceae). Archives of Biochemistry and Biophysics, 2000, 378, 411-419.	3.0	100

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19	Hypoxia-inducible factor prolyl hydroxylase 2 has a high affinity for ferrous iron and 2-oxoglutarate. Molecular BioSystems, 2005, 1, 321.	2.9	98
20	The use of dioxygen by HIF prolyl hydroxylase (PHD1). Bioorganic and Medicinal Chemistry Letters, 2002, 12, 1547-1550.	2.2	97
21	Glycodendriproteins:â€‰ A Synthetic Glycoprotein Mimic Enzyme with Branched Sugar-Display Potently Inhibits Bacterial Aggregation. Journal of the American Chemical Society, 2004, 126, 4750-4751.	13.7	90
22	Glycosyl phenylthiosulfonates (Glyco-PTS): novel reagents for glycoprotein synthesisThis 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://w. Organic and Biomolecular Chemistry, 2003, 1, 3642.	2.8	81
23	Rapid and sensitive analysis of azadirachtin and related triterpenoids from Neem (Azadirachta indica) by high-performance liquid chromatographyâ€“atmospheric pressure chemical ionization mass spectrometry. Journal of Chromatography A, 2000, 886, 89-97.	3.7	78
24	Voltammetry of Electroactive Oil Droplets:â€‰ Electrochemically-Induced Ion Insertion, Expulsion and Reaction Processes at Microdroplets of N,N,Nâ€˜,Nâ€˜-Tetraalkyl-para- phenylenediamines (TRPD, R = n-Butyl,) Tj ETQq1 1 0.784314 rgBT /Overlo	2.6	68
25	Determination of the double bond position in functionalized monoenes by chemical ionization ion-trap mass spectrometry using acetonitrile as a reagent gas. Rapid Communications in Mass Spectrometry, 1999, 13, 331-336.	1.5	66
26	A Close Look at a Ketosynthase from a Trans-Acyltransferase Modular Polyketide Synthase. Structure, 2014, 22, 444-451.	3.3	65
27	3-Hydroxy-3-phenylpropanoic acid is an intermediate in the biosynthesis of benzoic acid and salicylic acid but benzaldehyde is not. Planta, 2000, 212, 119-126.	3.2	63
28	Selectivity of small molecule ligands for parallel and anti-parallel DNA G-quadruplex structures. Organic and Biomolecular Chemistry, 2009, 7, 4194.	2.8	61
29	Carbene footprinting accurately maps binding sites in proteinâ€“ligand and proteinâ€“protein interactions. Nature Communications, 2016, 7, 13288.	12.8	61
30	Detection of a Protein Conformational Equilibrium by Electrospray Ionisationâ€Ion Mobilityâ€Mass Spectrometry. Angewandte Chemie - International Edition, 2011, 50, 8291-8294.	13.8	60
31	Charge state and adduct reduction in electrospray ionizationâ€“mass spectrometry using solvent vapor exposure. Analytical Biochemistry, 2012, 421, 788-790.	2.4	60
32	Substrate Specificity in Ketosynthase Domains from transâ€‹AT Polyketide Synthases. Angewandte Chemie - International Edition, 2013, 52, 1143-1147.	13.8	58
33	Allometric analysis of the induced flavonols on the leaf surface of wild tobacco (Nicotiana) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.9	57
34	On the similarity of the Dufour gland secretion and the cuticular hydrocarbons of some bumblebees. Physiological Entomology, 1994, 19, 115-123.	1.5	54
35	Determination and Mass Spectrometric Investigation of a New Mixed Halogenated Persistent Component in Fish and Seal. Environmental Science & Technology, 2001, 35, 4157-4162.	10.0	51
36	Site-selective chemical protein glycosylation protects from autolysis and proteolytic degradation. Carbohydrate Research, 2009, 344, 1508-1514.	2.3	51

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37	A Mechanism of Benzoic Acid Biosynthesis in Plants and Bacteria that Mirrors Fatty Acid Î²-Oxidation. ChemBioChem, 2001, 2, 784.	2.6	50
38	Quantitative determination of lysozymeâ€ligand binding in the solution and gas phases by electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 3505-3510.	1.5	48
39	Combined Mass Spectrometry and Dynamic Chemistry Approach to Identify Metalloenzyme Inhibitors. ChemMedChem, 2007, 2, 175-179.	3.2	46
40	Recruitment pheromone in the harvester ant genus Pogonomyrmex. Journal of Insect Physiology, 2001, 47, 369-374.	2.0	42
41	Phenylphenalenone-Related Compounds:Â Chemotaxonomic Markers of the Haemodoraceae fromXiphidium caeruleum. Journal of Natural Products, 2002, 65, 1122-1130.	3.0	41
42	Ubiquitinâ€binding domains: Mechanisms of ubiquitin recognition and use as tools to investigate ubiquitinâ€modified proteomes. Proteomics, 2015, 15, 844-861.	2.2	41
43	Gene expression of 5-epi-aristolochene synthase and formation of capsidiol in roots of Nicotiana attenuata and N. sylvestris. Phytochemistry, 2002, 60, 109-116.	2.9	39
44	Structural basis for chain release from the enacyloxin polyketide synthase. Nature Chemistry, 2019, 11, 913-923.	13.6	39
45	Structural Insights into Dissimilatory Sulfite Reductases: Structure of Desulforubidin from Desulfomicrobium Norvegicum. Frontiers in Microbiology, 2011, 2, 71.	3.5	38
46	Purified recombinant hARD1 does not catalyse acetylation of Lys532of HIF-1Î± fragments in vitro. FEBS Letters, 2006, 580, 1911-1918.	2.8	37
47	Pheromone analysis using capillary gas chromatographic techniques. Journal of Chromatography A, 1999, 843, 199-236.	3.7	36
48	Probing Affinity and Ubiquitin Linkage Selectivity of Ubiquitin-Binding Domains Using Mass Spectrometry. Journal of the American Chemical Society, 2012, 134, 6416-6424.	13.7	34
49	Carbene Footprinting Reveals Binding Interfaces of a Multimeric Membraneâ€Spanning Protein. Angewandte Chemie - International Edition, 2017, 56, 14873-14877.	13.8	33
50	Detection and Removal of an Artefact Fatty Acid from the Binding Site of Recombinant Bombyx mori Pheromone-binding Protein. Chemical Senses, 2001, 26, 529-531.	2.0	31
51	Cannibalism of diploid drone larvae in the honey bee (Apis mellifera) is released by odd pattern of cuticular substances. Journal of Apicultural Research, 2004, 43, 69-74.	1.5	31
52	Mechanism of intersubunit ketosynthaseâ€“dehydratase interaction in polyketide synthases. Nature Chemical Biology, 2018, 14, 270-275.	8.0	31
53	Synthesis and evaluation of Î´-Lactams (Piperazones) as elastase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 387-389.	2.2	30
54	The inhibition of factor inhibiting hypoxia-inducible factor (FIH) by Î²-oxocarboxylic acids. Chemical Communications, 2005, , 5438.	4.1	30

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55	Incorporation of oxygen into the succinate co-product of iron(II) and 2-oxoglutarate dependent oxygenases from bacteria, plants and humans. FEBS Letters, 2005, 579, 5170-5174.	2.8	29
56	Analysis of the Silkworm Moth Pheromone Binding Proteinâ€“Pheromone Complex by Electrospray-Ionization Mass Spectrometry. Angewandte Chemie - International Edition, 2000, 39, 4341-4343.	13.8	28
57	A click chemistry approach to C3 symmetric, G-quadruplex stabilising ligands. Organic and Biomolecular Chemistry, 2010, 8, 2926.	2.8	28
58	Insights into the Molecular Composition of Endogenous Unanchored Polyubiquitin Chains. Journal of Proteome Research, 2012, 11, 1969-1980.	3.7	28
59	ESIâ€MS Studies on Prolyl Hydroxylase Domainâ€...2 Reveal a New Metal Binding Site. ChemMedChem, 2008, 3, 569-572.	3.2	25
60	Acylâ€Chain Elongation Drives Ketosynthase Substrate Selectivity in transâ€Acyltransferase Polyketide Synthases. Angewandte Chemie - International Edition, 2015, 54, 1817-1821.	13.8	25
61	Iridoid biosynthesis in staphylinid rove beetles (Coleoptera: Staphylinidae, Philonthinae). Insect Biochemistry and Molecular Biology, 2001, 31, 583-591.	2.7	24
62	Characterization of a Î”8-Sphingolipid Desaturase from Higher Plants: A Stereochemical and Mechanistic Study on the Origin ofE,Z Isomers. Angewandte Chemie - International Edition, 2002, 41, 2298-2300.	13.8	24
63	Dufour gland secretion in the harvester ant genus Pogonomyrmex. Chemoecology, 2004, 14, 101-106.	1.1	24
64	Studies on ternary metallo-Î² lactamase-inhibitor complexes using electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2006, 17, 1000-1004.	2.8	24
65	Tyrosinase-Mediated Bioconjugation. A Versatile Approach to Chimeric Macromolecules. Bioconjugate Chemistry, 2018, 29, 2550-2560.	3.6	24
66	Biosynthesis of Defensive Allomones in Leaf Beetle Larvae: Stereochemistry of Salicylalcohol Oxidation in Phratora vitellinae and Comparison of Enzyme Substrate and Stereospecificity with Alcohol Oxidases from Several Iridoid Producing Leaf Beetles. Journal of Chemical Ecology, 1997, 23, 429-443.	1.8	23
67	Analysis of Underivatized Brassinosteroids by HPLC/APCI-MS. Occurrence of 3-Epibrassinolide in Arabidopsis thaliana. Collection of Czechoslovak Chemical Communications, 2001, 66, 1729-1734.	1.0	23
68	Chemical site-selective prenylation of proteins. Molecular BioSystems, 2008, 4, 558.	2.9	23
69	Amino acid-accepting ketosynthase domain from a trans-AT polyketide synthase exhibits high selectivity for predicted intermediate. Chemical Science, 2013, 4, 3212.	7.4	23
70	Design of nucleotide-mimetic and non-nucleotide inhibitors of the translation initiation factor eIF4E: Synthesis, structural and functional characterisation. European Journal of Medicinal Chemistry, 2016, 124, 200-217.	5.5	23
71	A front-face 'SNi synthase' engineered from a retaining 'double-SN2' hydrolase. Nature Chemical Biology, 2017, 13, 874-881.	8.0	22
72	Siteâ€Selective Installation of N^{Ïµ}â€Modified Sidechains into Peptide and Protein Scaffolds via Visibleâ€Lightâ€Mediated Desulfurative Câ€“C Bond Formation. Angewandte Chemie - International Edition, 2022, 61, .	13.8	21

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73	Volatile secretions of old world army antAenictus rotundatus and chemotaxonomic implications of army ant dufour gland chemistry. Journal of Chemical Ecology, 1994, 20, 3297-3305.	1.8	20
74	Bile Acid Interactions with Rabbit Ileal Lipid Binding Protein and an Engineered Helixless Variant Reveal Novel Ligand Binding Properties of a Versatile Î²-Clam Shell Protein Scaffold. Journal of Molecular Biology, 2007, 371, 1365-1377.	4.2	20
75	Mechanismâ€Based Inhibition of Quinone Reductase 2 (NQO2): Selectivity for NQO2 over NQO1 and Structural Basis for Flavoprotein Inhibition. ChemBioChem, 2011, 12, 1203-1208.	2.6	20
76	N-(17-Phosphonooxylinolenoyl)glutamine andN-(17-phosphonooxylinoleoyl)glutamine from Insect Gut:Â The First Backbone-Phosphorylated Fatty Acid Derivatives in Nature. Journal of Organic Chemistry, 2004, 69, 1104-1109.	3.2	19
77	Alkali Metal Cation-Induced Destabilization of Gas-Phase Proteinâ€“Ligand Complexes: Consequences and Prevention. Analytical Chemistry, 2011, 83, 7472-7479.	6.5	19
78	Ion/molecule reactions provide new evidence for the structure and origin of [C3H4N]+ from acetonitrile chemical ionization plasma. , 1999, 13, 1694-1698.		18
79	Acyl hydrolases from trans-AT polyketide synthases target acetyl units on acyl carrier proteins. Chemical Communications, 2016, 52, 5262-5265.	4.1	17
80	Evaluation of aspirin metabolites as inhibitors of hypoxia-inducible factor hydroxylases. Chemical Communications, 2008, , 6393.	4.1	16
81	Species Recognition from Postpharyngeal Gland Contents of Ants of the Cataglyphis bicolor Group. Journal of Chemical Ecology, 1999, 25, 1383-1393.	1.8	15
82	Predatory behavior and chemical communication in two Metapone species (Hymenoptera:Formicidae). Chemoecology, 2002, 12, 147-151.	1.1	14
83	A soluble RecN homologue provides means for biochemical and genetic analysis of DNA double-strand break repair in Escherichia coli. DNA Repair, 2009, 8, 1434-1443.	2.8	14
84	Ion mobilityâ€“mass spectrometry reveals conformational flexibility in the deubiquitinating enzyme USP5. Proteomics, 2015, 15, 2835-2841.	2.2	14
85	PepFoot: A Software Package for Semiautomated Processing of Protein Footprinting Data. Journal of Proteome Research, 2019, 18, 2925-2930.	3.7	13
86	Evidence for the Preservation of Native Inter- and Intra-Molecular Hydrogen Bonds in the Desolvated FK-Binding ProteinÂ·FK506 Complex Produced by Electrospray Ionization. Journal of the American Society for Mass Spectrometry, 2012, 23, 1757-1767.	2.8	12
87	Insights into the structure and assembly of the Bacillus subtilis clamp-loader complex and its interaction with the replicative helicase. Nucleic Acids Research, 2013, 41, 5115-5126.	14.5	12
88	Induction of 3?-O-?-d-ribofuranosyl adenosine during compatible, but not during incompatible, interactions of Arabidopsis thaliana or Lycopersicon esculentum with Pseudomonas syringae pathovar tomato. Planta, 2004, 218, 668-672.	3.2	11
89	Mass spectrometry insights into a tandem ubiquitin-binding domain hybrid engineered for the selective recognition of unanchored polyubiquitin. Proteomics, 2016, 16, 1961-1969.	2.2	11
90	Carbene Footprinting Reveals Binding Interfaces of a Multimeric Membraneâ€Spanning Protein. Angewandte Chemie, 2017, 129, 15069-15073.	2.0	11

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91	Structural insights into interactions between ubiquitin specific protease 5 and its polyubiquitin substrates by mass spectrometry and ion mobility spectrometry. Protein Science, 2015, 24, 1257-1263.	7.6	10
92	Siteâ€Selective Installation of N^{Ïµ}â€Modified Sidechains into Peptide and Protein Scaffolds via Visibleâ€Lightâ€Mediated Desulfurative Câ€“C Bond Formation. Angewandte Chemie, 2022, 134, e202110223.	2.0	9
93	Chemical Characterization and Synthesis of the Major Component of the Sex Pheromone of the Sugarcane Borer Diatraea saccharalis. Collection of Czechoslovak Chemical Communications, 2001, 66, 1682-1690.	1.0	8
94	Photoinduced, Family-Specific, Site-Selective Cleavage of TIM-Barrel Proteins. Journal of the American Chemical Society, 2009, 131, 12518-12519.	13.7	8
95	Iridoid Sex Pheromone Biosynthesis in Aphids Mimics Iridoidâ€Producing Plants. Chemistry - A European Journal, 2021, 27, 7231-7234.	3.3	8
96	Analysis of insulin glulisine at the molecular level by X-ray crystallography and biophysical techniques. Scientific Reports, 2021, 11, 1737.	3.3	7
97	Relative Binding Affinities of Integrin Antagonists by Equilibrium Dialysis and Liquid Chromatographyâ€“Mass Spectrometry. ACS Medicinal Chemistry Letters, 2015, 6, 221-224.	2.8	5
98	Decoding Protein Gasâ€Phase Stability with Alanine Scanning and Collisionâ€Induced Unfolding Ion Mobility Mass Spectrometry. Analysis & Sensing, 2021, 1, 63-69.	2.0	5
99	Non-denaturing electrospray ionisation-mass spectrometry reveals ligand selectivity in histamine-binding protein RaHBP2This 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.. Organic and Biomolecular Chemistry, 2003, 1, 3645.	2.8	4
100	Cyclisation of Lys48â€linked diubiquitin in vitro and in vivo. FEBS Letters, 2012, 586, 4144-4147.	2.8	4
101	Mapping the interaction between eukaryotic initiation factor 4A (eIF4A) and the inhibitor hippuristanol using carbene footprinting and mass spectrometry. Proteomics, 2021, 21, 2000288.	2.2	4
102	The effects of cation adduction upon the conformation of three-helix bundle protein domains. International Journal for Ion Mobility Spectrometry, 2013, 16, 19-27.	1.4	3
103	Method for the Purification of Endogenous Unanchored Polyubiquitin Chains. Methods in Molecular Biology, 2016, 1449, 203-213.	0.9	3
104	Combined Chemical Modification and Collision Induced Unfolding Using Native Ion Mobilityâ€Mass Spectrometry Provides Insights into Protein Gasâ€Phase Structure. Chemistry - A European Journal, 2021, 27, 13783-13792.	3.3	3
105	An ALS-associated variant of the autophagy receptor SQSTM1/p62 reprograms binding selectivity toward the autophagy-related hATG8 proteins. Journal of Biological Chemistry, 2022, 298, 101514.	3.4	3
106	Computational investigation of aphid odorant receptor structure and binding function. Journal of Biomolecular Structure and Dynamics, 2023, 41, 3647-3658.	3.5	3
107	Benzoic acid, a stimulant of odorant receptors of Bombyx mori, is rapidly metabolized to N-benzoylserine on the antennae. Chemoecology, 2001, 11, 183-190.	1.1	2
108	Synthesis and Evaluation of Î´-Lactams (Piperazones) as Elastase Inhibitors.. ChemInform, 2003, 34, no.	0.0	0

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109	Corrigendum to â€œIncorporation of oxygen into the succinate co-product of iron(II) and 2-oxoglutarate dependent oxygenases from bacteria, plants and humans (FEBS 29930)â€•[FEBS Lett. 579 (2005) 5170-5174]. FEBS Letters, 2005, 579, 6688-6688.	2.8	0
110	Decoding Protein Gasâ€Phase Stability with Alanine Scanning and Collisionâ€Induced Unfolding Ion Mobility Mass Spectrometry. Analysis & Sensing, 2021, 1, 6-6.	2.0	0