Chris J Schofield

List of Publications by Year
in descending order

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		3334	3182
460	41,564	91	186
papers	citations	h-index	g-index

511	511	511	34101
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Targeting of HIF-Î± to the von Hippel-Lindau Ubiquitylation Complex by O ₂ -Regulated Prolyl Hydroxylation. Science, 2001, 292, 468-472.	12.6	4,966
2	C. elegans EGL-9 and Mammalian Homologs Define a Family of Dioxygenases that Regulate HIF by Prolyl Hydroxylation. Cell, 2001, 107, 43-54.	28.9	3,293
3	Oxygen sensing by HIF hydroxylases. Nature Reviews Molecular Cell Biology, 2004, 5, 343-354.	37.0	1,810
4	The Obesity-AssociatedFTOGene Encodes a 2-Oxoglutarate-Dependent Nucleic Acid Demethylase. Science, 2007, 318, 1469-1472.	12.6	1,305
5	The oncometabolite 2â€hydroxyglutarate inhibits histone lysine demethylases. EMBO Reports, 2011, 12, 463-469.	4.5	851
6	A selective jumonji H3K27 demethylase inhibitor modulates the proinflammatory macrophage response. Nature, 2012, 488, 404-408.	27.8	822
7	Structural basis for the recognition of hydroxyproline in HIF-1Î± by pVHL. Nature, 2002, 417, 975-978.	27.8	651
8	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
9	Structure of isopenicillinN synthase complexed with substrate and the mechanism ofpenicillin formation. Nature, 1997, 387, 827-830.	27.8	456
10	Expanding chemical biology of 2-oxoglutarate oxygenases. Nature Chemical Biology, 2008, 4, 152-156.	8.0	438
11	Crystal structure of isopenicillin N synthase is the first from a new structural family of enzymes. Nature, 1995, 375, 700-704.	27.8	434
12	Structural studies on 2-oxoglutarate oxygenases and related double-stranded Î²-helix fold proteins. Journal of Inorganic Biochemistry, 2006, 100, 644-669.	3.5	390
13	Structural and mechanistic studies on 2-oxoglutarate-dependent oxygenases and related enzymes. Current Opinion in Structural Biology, 1999, 9, 722-731.	5.7	370
14	Jmjd6 Catalyses Lysyl-Hydroxylation of U2AF65, a Protein Associated with RNA Splicing. Science, 2009, 325, 90-93.	12.6	356
15	Structure of a cephalosporin synthase. Nature, 1998, 394, 805-809.	27.8	344
16	Structure of Factor-inhibiting Hypoxia-inducible Factor (HIF) Reveals Mechanism of Oxidative Modification of HIF-1Î±. Journal of Biological Chemistry, 2003, 278, 1802-1806.	3.4	342
17	Inhibition of 2-oxoglutarate dependent oxygenases. Chemical Society Reviews, 2011, 40, 4364.	38.1	336
18	Structure and Mechanism of Anthocyanidin Synthase from Arabidopsis thaliana. Structure, 2002, 10, 93-103.	3.3	321

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19	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
20	Signalling hypoxia by HIF hydroxylases. Biochemical and Biophysical Research Communications, 2005, 338, 617-626.	2.1	305
21	Crystal structures of histone demethylase JMJD2A reveal basis for substrate specificity. Nature, 2007, 448, 87-91.	27.8	297
22	Methods for converting cysteine to dehydroalanine on peptides and proteins. Chemical Science, 2011, 2, 1666.	7.4	296
23	Regulation of Jumonji-domain-containing histone demethylases by hypoxia-inducible factor (HIF)-1Î±. Biochemical Journal, 2008, 416, 387-394.	3.7	278
24	2-Oxoglutarate-Dependent Oxygenases. Annual Review of Biochemistry, 2018, 87, 585-620.	11.1	276
25	Physiological and biochemical aspects of hydroxylations and demethylations catalyzed by human 2-oxoglutarate oxygenases. Trends in Biochemical Sciences, 2011, 36, 7-18.	7.5	260
26	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
27	Discovery and Optimization of Small-Molecule Ligands for the CBP/p300 Bromodomains. Journal of the American Chemical Society, 2014, 136, 9308-9319.	13.7	244
28	Structural origins of the selectivity of the trifunctional oxygenase clavaminic acid synthase. Nature Structural Biology, 2000, 7, 127-133.	9.7	239
29	Structural studies on human 2-oxoglutarate dependent oxygenases. Current Opinion in Structural Biology, 2010, 20, 659-672.	5.7	238
30	Inhibitor Scaffolds for 2-Oxoglutarate-Dependent Histone Lysine Demethylases. Journal of Medicinal Chemistry, 2008, 51, 7053-7056.	6.4	221
31	The hypoxiaâ€inducible transcription factor pathway regulates oxygen sensing in the simplest animal, Trichoplax adhaerens. EMBO Reports, 2011, 12, 63-70.	4.5	210
32	The enzymes of Î²-lactam biosynthesis. Natural Product Reports, 2013, 30, 21-107.	10.3	208
33	Structural Basis for Binding of Hypoxia-Inducible Factor to the Oxygen-Sensing Prolyl Hydroxylases. Structure, 2009, 17, 981-989.	3.3	205
34	Structural basis of metallo-Î²-lactamase, serine-Î²-lactamase and penicillin-binding protein inhibition by cyclic boronates. Nature Communications, 2016, 7, 12406.	12.8	202
35	Studies on the activity of the hypoxia-inducible-factor hydroxylases using an oxygen consumption assay. Biochemical Journal, 2007, 401, 227-234.	3.7	196
36	Hypoxia-inducible factor asparaginyl hydroxylase (FIH-1) catalyses hydroxylation at the Î²-carbon of asparagine-803. Biochemical Journal, 2002, 367, 571-575.	3.7	194

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37	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
38	Quantitative High-Throughput Screening Identifies 8-Hydroxyquinolines as Cell-Active Histone Demethylase Inhibitors. PLoS ONE, 2010, 5, e15535.	2.5	194
39	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
40	Mechanistic Studies on Three 2-Oxoglutarate-dependent Oxygenases of Flavonoid Biosynthesis. Journal of Biological Chemistry, 2004, 279, 1206-1216.	3.4	183
41	Molecular and cellular mechanisms of HIF prolyl hydroxylase inhibitors in clinical trials. Chemical Science, 2017, 8, 7651-7668.	7.4	174
42	Role of the jelly-roll fold in substrate binding by 2-oxoglutarate oxygenases. Current Opinion in Structural Biology, 2012, 22, 691-700.	5.7	171
43	Targeting histone lysine demethylases â€" Progress, challenges, and the future. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 1416-1432.	1.9	170
44	Arginine demethylation is catalysed by a subset of JmjC histone lysine demethylases. Nature Communications, 2016, 7, 11974.	12.8	168
45	Human UTY(KDM6C) Is a Male-specific NÏµ-Methyl Lysyl Demethylase. Journal of Biological Chemistry, 2014, 289, 18302-18313.	3.4	166
46	Recent Progress in Histone Demethylase Inhibitors. Journal of Medicinal Chemistry, 2016, 59, 1308-1329.	6.4	165
47	Mechanisms of human histone and nucleic acid demethylases. Current Opinion in Chemical Biology, 2012, 16, 525-534.	6.1	163
48	Structure of human RNA N6-methyladenine demethylase ALKBH5 provides insights into its mechanisms of nucleic acid recognition and demethylation. Nucleic Acids Research, 2014, 42, 4741-4754.	14.5	162
49	PHF8, a gene associated with cleft lip/palate and mental retardation, encodes for an NÎµ-dimethyl lysine demethylase. Human Molecular Genetics, 2010, 19, 217-222.	2.9	153
50	Epidithiodiketopiperazines Block the Interaction between Hypoxia-inducible Factor-1Î± (HIF-1Î±) and p300 by a Zinc Ejection Mechanism. Journal of Biological Chemistry, 2009, 284, 26831-26838.	3.4	148
51	Differential Sensitivity of Hypoxia Inducible Factor Hydroxylation Sites to Hypoxia and Hydroxylase Inhibitors. Journal of Biological Chemistry, 2011, 286, 13041-13051.	3.4	148
52	Selective Inhibitors of the JMJD2 Histone Demethylases: Combined Nondenaturing Mass Spectrometric Screening and Crystallographic Approaches. Journal of Medicinal Chemistry, 2010, 53, 1810-1818.	6.4	146
53	2-Oxoglutarate analogue inhibitors of hif prolyl hydroxylase. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2677-2680.	2.2	144
54	Chemistry and biosynthesis of clavulanic acid and other clavams. Natural Product Reports, 1997, 14, 309.	10.3	143

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55	Structural and Evolutionary Basis for the Dual Substrate Selectivity of Human KDM4 Histone Demethylase Family. Journal of Biological Chemistry, 2011, 286, 41616-41625.	3.4	143
56	Crystal structure of a clavaminate synthase-Fe(II)-2-oxoglutarate-substrate-NO complex: evidence for metal centred rearrangements. FEBS Letters, 2002, 517, 7-12.	2.8	142
57	5-Carboxy-8-hydroxyquinoline is a broad spectrum 2-oxoglutarate oxygenase inhibitor which causes iron translocation. Chemical Science, 2013, 4, 3110.	7.4	142
58	Bicyclic Boronate VNRX-5133 Inhibits Metallo- and Serine-Î²-Lactamases. Journal of Medicinal Chemistry, 2019, 62, 8544-8556.	6.4	139
59	Structures of Human ALKBH5 Demethylase Reveal a Unique Binding Mode for Specific Single-stranded N6-Methyladenosine RNA Demethylation. Journal of Biological Chemistry, 2014, 289, 17299-17311.	3.4	138
60	Oxygenase-catalyzed ribosome hydroxylation occurs in prokaryotes and humans. Nature Chemical Biology, 2012, 8, 960-962.	8.0	135
61	Structural Basis of Metallo-Î²-Lactamase Inhibition by Captopril Stereoisomers. Antimicrobial Agents and Chemotherapy, 2016, 60, 142-150.	3.2	134
62	Selective Inhibition of Factor Inhibiting Hypoxia-Inducible Factor. Journal of the American Chemical Society, 2005, 127, 7680-7681.	13.7	128
63	Structural Basis for Inhibition of the Fat Mass and Obesity Associated Protein (FTO). Journal of Medicinal Chemistry, 2013, 56, 3680-3688.	6.4	128
64	Plant Growth Regulator Daminozide Is a Selective Inhibitor of Human KDM2/7 Histone Demethylases. Journal of Medicinal Chemistry, 2012, 55, 6639-6643.	6.4	125
65	Protein Hydroxylation Catalyzed by 2-Oxoglutarate-dependent Oxygenases. Journal of Biological Chemistry, 2015, 290, 20712-20722.	3.4	124
66	Highly selective inhibition of histone demethylases by de novo macrocyclic peptides. Nature Communications, 2017, 8, 14773.	12.8	124
67	Expression of Idh1R132H in the Murine Subventricular Zone Stem Cell Niche Recapitulates Features of Early Gliomagenesis. Cancer Cell, 2016, 30, 578-594.	16.8	122
68	The FIH hydroxylase is a cellular peroxide sensor that modulates HIF transcriptional activity. EMBO Reports, 2012, 13, 251-257.	4.5	120
69	Human AlkB Homologue 5 Is a Nuclear 2-Oxoglutarate Dependent Oxygenase and a Direct Target of Hypoxia-Inducible Factor 1Î± (HIF-1Î±). PLoS ONE, 2011, 6, e16210.	2.5	120
70	Structural basis for the broad-spectrum inhibition of metallo-Î²-lactamases by thiols. Organic and Biomolecular Chemistry, 2008, 6, 2282.	2.8	118
71	Investigating the dependence of the hypoxia-inducible factor hydroxylases (factor inhibiting HIF and) Tj ETQq1 1 0.784314 rgBT /Over 135-142.	3.7	118
72	Mechanisms and structures of crotonase superfamily enzymes â€“ How nature controls enolate and oxyanion reactivity. Cellular and Molecular Life Sciences, 2008, 65, 2507-2527.	5.4	112

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73	Studies on the active site of deacetoxycephalosporin C synthase. Journal of Molecular Biology, 1999, 287, 943-960.	4.2	111
74	Hydroxylation of the eukaryotic ribosomal decoding center affects translational accuracy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4019-4024.	7.1	111
75	Pharmacological targeting of the HIF hydroxylases â€“ A new field in medicine development. Molecular Aspects of Medicine, 2016, 47-48, 54-75.	6.4	111
76	Potent and Selective KDM5 Inhibitor Stops Cellular Demethylation of H3K4me3 at Transcription Start Sites and Proliferation of MM1S Myeloma Cells. Cell Chemical Biology, 2017, 24, 371-380.	5.2	111
77	Rhodanine hydrolysis leads to potent thioenolate mediated metallo-Î²-lactamase inhibition. Nature Chemistry, 2014, 6, 1084-1090.	13.6	110
78	Structural basis for oxygen degradation domain selectivity of the HIF prolyl hydroxylases. Nature Communications, 2016, 7, 12673.	12.8	109
79	Noninvasive Quantification of 2-Hydroxyglutarate in Human Gliomas with IDH1 and IDH2 Mutations. Cancer Research, 2016, 76, 43-49.	0.9	108
80	Insights into the Mechanistic Basis of Plasmid-Mediated Colistin Resistance from Crystal Structures of the Catalytic Domain of MCR-1. Scientific Reports, 2017, 7, 39392.	3.3	107
81	Therapeutic targeting of oxygen-sensing prolyl hydroxylases abrogates ATF4-dependent neuronal death and improves outcomes after brain hemorrhage in several rodent models. Science Translational Medicine, 2016, 8, 328ra29.	12.4	106
82	Selective Small Molecule Probes for the Hypoxia Inducible Factor (HIF) Prolyl Hydroxylases. ACS Chemical Biology, 2013, 8, 1488-1496.	3.4	105
83	OGFOD1 catalyzes prolyl hydroxylation of RPS23 and is involved in translation control and stress granule formation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4031-4036.	7.1	105
84	Pan-Histone Demethylase Inhibitors Simultaneously Targeting Jumonji C and Lysine-Specific Demethylases Display High Anticancer Activities. Journal of Medicinal Chemistry, 2014, 57, 42-55.	6.4	105
85	The road to avibactam: the first clinically useful non-Î²-lactam working somewhat like a Î²-lactam. Future Medicinal Chemistry, 2016, 8, 1063-1084.	2.3	102
86	How formaldehyde reacts with amino acids. Communications Chemistry, 2019, 2, .	4.5	102
87	The human oxygen sensing machinery and its manipulation. Chemical Society Reviews, 2008, 37, 1308.	38.1	100
88	Assay Platform for Clinically Relevant Metallo-Î²-lactamases. Journal of Medicinal Chemistry, 2013, 56, 6945-6953.	6.4	100
89	Bisthiazolidines: A Substrate-Mimicking Scaffold as an Inhibitor of the NDM-1 Carbapenemase. ACS Infectious Diseases, 2015, 1, 544-554.	3.8	100
90	Kinetic and crystallographic studies on deacetoxycephalosporin C synthase (DAOCS). Journal of Molecular Biology, 2001, 308, 937-948.	4.2	99

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91	Optimal Translational Termination Requires C4 Lysyl Hydroxylation of eRF1. Molecular Cell, 2014, 53, 645-654.	9.7	99
92	Hypoxia-inducible factor prolyl hydroxylase 2 has a high affinity for ferrous iron and 2-oxoglutarate. Molecular BioSystems, 2005, 1, 321.	2.9	98
93	PTP1B controls non-mitochondrial oxygen consumption by regulating RNF213 to promote tumour survival during hypoxia. Nature Cell Biology, 2016, 18, 803-813.	10.3	95
94	Cyclic Boronates Inhibit All Classes of Î²-Lactamases. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	94
95	Allosteric Inhibition of the SARSâ€CoVâ€2 Main Protease: Insights from Mass Spectrometry Based Assays**. Angewandte Chemie - International Edition, 2020, 59, 23544-23548.	13.8	92
96	Tuning the Transcriptional Response to Hypoxia by Inhibiting Hypoxia-inducible Factor (HIF) Prolyl and Asparaginyl Hydroxylases. Journal of Biological Chemistry, 2016, 291, 20661-20673.	3.4	91
97	The Selectivity and Inhibition of AlkB. Journal of Biological Chemistry, 2003, 278, 10157-10161.	3.4	90
98	Crystal Structure of Carbapenem Synthase (CarC). Journal of Biological Chemistry, 2003, 278, 20843-20850.	3.4	90
99	The Mechanism of ACV Synthetase. Chemical Reviews, 1997, 97, 2631-2650.	47.7	88
100	Ribosomal oxygenases are structurally conserved from prokaryotes to humans. Nature, 2014, 510, 422-426.	27.8	87
101	The Chemical Biology of Human Metallo-Î²-Lactamase Fold Proteins. Trends in Biochemical Sciences, 2016, 41, 338-355.	7.5	87
102	Crystal Structure of the 2-Oxoglutarate- and Fe(II)-Dependent Lysyl Hydroxylase JMJD6. Journal of Molecular Biology, 2010, 401, 211-222.	4.2	85
103	X-ray absorption studies of the ferrous active site of isopenicillin N synthase and related model complexes. Biochemistry, 1993, 32, 6664-6673.	2.5	84
104	A miniaturized screen for inhibitors of Jumonji histone demethylases. Molecular BioSystems, 2010, 6, 357-364.	2.9	84
105	Structureâ€“function relationships of human JmjC oxygenasesâ€”demethylases versus hydroxylases. Current Opinion in Structural Biology, 2016, 41, 62-72.	5.7	84
106	8-Substituted Pyrido[3,4-d]pyrimidin-4(3H)-one Derivatives As Potent, Cell Permeable, KDM4 (JMJD2) and KDM5 (JARID1) Histone Lysine Demethylase Inhibitors. Journal of Medicinal Chemistry, 2016, 59, 1388-1409.	6.4	83
107	Dynamic Combinatorial Chemistry Employing Boronic Acids/Boronate Esters Leads to Potent Oxygenase Inhibitors. Angewandte Chemie - International Edition, 2012, 51, 6672-6675.	13.8	82
108	Interaction of Avibactam with Class B Metallo-Î²-Lactamases. Antimicrobial Agents and Chemotherapy, 2016, 60, 5655-5662.	3.2	82

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109	Structure of Human Phytanoyl-CoA 2-Hydroxylase Identifies Molecular Mechanisms of Refsum Disease*. Journal of Biological Chemistry, 2005, 280, 41101-41110.	3.4	78
110	Structural and Mechanistic Studies on Î³-Butyrobetaine Hydroxylase. Chemistry and Biology, 2010, 17, 1316-1324.	6.0	78
111	Inhibition of the histone lysine demethylase JMJD2A by ejection of structural Zn(ii). Chemical Communications, 2009, , 6376.	4.1	77
112	Inhibition of Histone Demethylases by 4â€Carboxyâ€2,2â€²â€Bipyridyl Compounds. ChemMedChem, 2011, 6, 759-764.	3.2	76
113	The oxygenase Jmjd6â€“a case study in conflicting assignments. Biochemical Journal, 2015, 468, 191-202.	3.7	76
114	Therapeutic Manipulation of the HIF Hydroxylases. Antioxidants and Redox Signaling, 2010, 12, 481-501.	5.4	75
115	Evidence for the slow reaction of hypoxiaâ€inducible factor prolyl hydroxylaseâ€ƒ2 with oxygen. FEBS Journal, 2010, 277, 4089-4099.	4.7	75
116	Studies on the catalytic domains of multiple JmjC oxygenases using peptide substrates. Epigenetics, 2014, 9, 1596-1603.	2.7	74
117	Kinetic Rationale for Selectivity toward N- and C-terminal Oxygen-dependent Degradation Domain Substrates Mediated by a Loop Region of Hypoxia-Inducible Factor Prolyl Hydroxylases. Journal of Biological Chemistry, 2008, 283, 3808-3815.	3.4	72
118	Disruption of dimerization and substrate phosphorylation inhibit factor inhibiting hypoxia-inducible factor (FIH) activity. Biochemical Journal, 2004, 383, 429-437.	3.7	71
119	Structural insights into how 5-hydroxymethylation influences transcription factor binding. Chemical Communications, 2014, 50, 1794-1796.	4.1	71
120	Prolyl hydroxylase 2 inactivation enhances glycogen storage and promotes excessive neutrophilic responses. Journal of Clinical Investigation, 2017, 127, 3407-3420.	8.2	71
121	Lack of activity of recombinant HIF prolyl hydroxylases (PHDs) on reported non-HIF substrates. ELife, 2019, 8, .	6.0	70
122	Proteins of the penicillin biosynthesis pathway. Current Opinion in Structural Biology, 1997, 7, 857-864.	5.7	69
123	Non-enzymatic chemistry enables 2-hydroxyglutarate-mediated activation of 2-oxoglutarate oxygenases. Nature Communications, 2014, 5, 3423.	12.8	69
124	Kinetic Investigations of the Role of Factor Inhibiting Hypoxia-inducible Factor (FIH) as an Oxygen Sensor. Journal of Biological Chemistry, 2015, 290, 19726-19742.	3.4	69
125	Will morphing boron-based inhibitors beat the Î²-lactamases?. Current Opinion in Chemical Biology, 2019, 50, 101-110.	6.1	69
126	Mechanistic Insights into the Inhibition of Serine Proteases by Monocyclic Lactamsâ€,â€¡. Biochemistry, 1999, 38, 7989-7998.	2.5	68

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127	Factorâ€inhibiting hypoxiaâ€inducible factor (FIH) catalyses the postâ€translational hydroxylation of histidinyl residues within ankyrin repeat domains. FEBS Journal, 2011, 278, 1086-1097.	4.7	68
128	Analysis of Jmjd6 Cellular Localization and Testing for Its Involvement in Histone Demethylation. PLoS ONE, 2010, 5, e13769.	2.5	67
129	A Code for RanGDP Binding in Ankyrin Repeats Defines a Nuclear Import Pathway. Cell, 2014, 157, 1130-1145.	28.9	67
130	Targeting Proteinâ€“Protein Interactions in the HIF System. ChemMedChem, 2016, 11, 773-786.	3.2	67
131	Development of homogeneous luminescence assays for histone demethylase catalysis and binding. Analytical Biochemistry, 2010, 404, 86-93.	2.4	66
132	Analogues of dealanylalahopcin are inhibitors of human HIF prolyl hydroxylases. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1451-1454.	2.2	65
133	Hydroxylation of methylated CpG dinucleotides reverses stabilisation of DNA duplexes by cytosine 5-methylation. Chemical Communications, 2011, 47, 5325.	4.1	65
134	Linking of 2â€Oxoglutarate and Substrate Binding Sites Enables Potent and Highly Selective Inhibition of JmjC Histone Demethylases. Angewandte Chemie - International Edition, 2012, 51, 1631-1634.	13.8	64
135	The enzymology of clavam and carbapenem biosynthesis. Chemical Communications, 2005, , 4251.	4.1	63
136	Asparagine and Aspartate Hydroxylation of the Cytoskeletal Ankyrin Family Is Catalyzed by Factor-inhibiting Hypoxia-inducible Factor. Journal of Biological Chemistry, 2011, 286, 7648-7660.	3.4	63
137	Design and synthesis of potent and selective inhibitors of BRD7 and BRD9 bromodomains. MedChemComm, 2015, 6, 1381-1386.	3.4	63
138	NMR-filtered virtual screening leads to non-metal chelating metallo-Î²-lactamase inhibitors. Chemical Science, 2017, 8, 928-937.	7.4	63
139	Jumonji domain containing protein 6 (Jmjd6) modulates splicing and specifically interacts with arginineâ€“serine-rich (RS) domains of SR- and SR-like proteins. Nucleic Acids Research, 2014, 42, 7833-7850.	14.5	61
140	Direct sulfonylation of anilines mediated by visible light. Chemical Science, 2018, 9, 629-633.	7.4	61
141	Human oxygen sensing may have origins in prokaryotic elongation factor Tu prolyl-hydroxylation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13331-13336.	7.1	60
142	Reporter Ligand NMR Screening Method for 2-Oxoglutarate Oxygenase Inhibitors. Journal of Medicinal Chemistry, 2013, 56, 547-555.	6.4	59
143	Glucose Metabolism and Oxygen Availability Govern Reactivation of the Latent Human Retrovirus HTLV-1. Cell Chemical Biology, 2017, 24, 1377-1387.e3.	5.2	59
144	Expression, purification and characterization of 1-aminocyclopropane-1-carboxylate oxidase from tomato in Escherichia coli. Biochemical Journal, 1995, 307, 77-85.	3.7	58

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145	Evidence for a Stereoelectronic Effect in Human Oxygen Sensing. Angewandte Chemie - International Edition, 2009, 48, 1784-1787.	13.8	58
146	Monitoring Conformational Changes in the NDMâ€1 Metalloâ€Î²â€lactamase by ¹⁹Fâ€…NMR Spectroscopy. Angewandte Chemie - International Edition, 2014, 53, 3129-3133.	13.8	58
147	Binding of D- and L-captopril inhibitors to metallo-Î²-lactamase studied by polarizable molecular mechanics and quantum mechanics. Journal of Computational Chemistry, 2002, 23, 1281-1296.	3.3	57
148	Structural and mechanistic basis of penicillin-binding protein inhibition by lactivicins. Nature Chemical Biology, 2007, 3, 565-569.	8.0	57
149	Potent and Selective Triazole-Based Inhibitors of the Hypoxia-Inducible Factor Prolyl-Hydroxylases with Activity in the Murine Brain. PLoS ONE, 2015, 10, e0132004.	2.5	57
150	Biochemical characterization of New Delhi metallo-Î²-lactamase variants reveals differences in protein stability. Journal of Antimicrobial Chemotherapy, 2015, 70, 463-469.	3.0	57
151	Ironâ€Mediated Cleavage of Cï£¿C Bonds in Vicinal Tricarbonyl Compounds in Water. Angewandte Chemie - International Edition, 2009, 48, 2796-2800.	13.8	56
152	Small-Molecule-Based Inhibition of Histone Demethylation in Cells Assessed by Quantitative Mass Spectrometry. Journal of Proteome Research, 2010, 9, 4082-4092.	3.7	56
153	Anaerobic Crystallisation of an Isopenicillin N Synthase . Fe(II) . Substrate Complex Demonstrated by X-Ray Studies. FEBS Journal, 1996, 242, 736-740.	0.2	55
154	Dynamic states of the DNA repair enzyme AlkB regulate product release. EMBO Reports, 2008, 9, 872-877.	4.5	55
155	Autocatalysed oxidative modifications to 2â€oxoglutarate dependent oxygenases. FEBS Journal, 2012, 279, 1563-1575.	4.7	55
156	Competitive Inhibitors of the CphA Metallo-Î²-Lactamase from Aeromonas hydrophila. Antimicrobial Agents and Chemotherapy, 2007, 51, 2136-2142.	3.2	54
157	Studies on the Reaction of Nitric Oxide with the Hypoxia-Inducible Factor Prolyl Hydroxylase Domain 2 (EGLN1). Journal of Molecular Biology, 2011, 410, 268-279.	4.2	54
158	On the Histone Lysine Methyltransferase Activity of Fungal Metabolite Chaetocin. Journal of Medicinal Chemistry, 2013, 56, 8616-8625.	6.4	54
159	On the pivotal role of PPARa in adaptation of the heart to hypoxia and why fat in the diet increases hypoxic injury. FASEB Journal, 2016, 30, 2684-2697.	0.5	54
160	The methyltransferase METTL9 mediates pervasive 1-methylhistidine modification in mammalian proteomes. Nature Communications, 2021, 12, 891.	12.8	54
161	Discovery of SARS-CoV-2 M^{pro} peptide inhibitors from modelling substrate and ligand binding. Chemical Science, 2021, 12, 13686-13703.	7.4	54
162	Isolation of dihydroclavaminic acid, an intermediate in the biosynthesis of clavulanic acid. Tetrahedron, 1991, 47, 4089-4100.	1.9	53

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163	The role of iron and 2-oxoglutarate oxygenases in signalling. Biochemical Society Transactions, 2003, 31, 510-515.	3.4	53
164	Dynamic Combinatorial Mass Spectrometry Leads to Metallo-Î²-lactamase Inhibitors. Journal of Medicinal Chemistry, 2008, 51, 684-688.	6.4	53
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