

Chris J Schofield

List of Publications by Year in descending order

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460
papers

41,564
citations

3325

91
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3173

186
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all docs

511
docs citations

511
times ranked

34101
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting of HIF-1 α to the von Hippel-Lindau Ubiquitylation Complex by O ² -Regulated Prolyl Hydroxylation. <i>Science</i> , 2001, 292, 468-472.	6.0	4,966
2	<i>C. elegans</i> EGL-9 and Mammalian Homologs Define a Family of Dioxygenases that Regulate HIF by Prolyl Hydroxylation. <i>Cell</i> , 2001, 107, 43-54.	13.5	3,293
3	Oxygen sensing by HIF hydroxylases. <i>Nature Reviews Molecular Cell Biology</i> , 2004, 5, 343-354.	16.1	1,810
4	The Obesity-Associated <i>FTO</i> Gene Encodes a 2-Oxoglutarate-Dependent Nucleic Acid Demethylase. <i>Science</i> , 2007, 318, 1469-1472.	6.0	1,305
5	The oncometabolite 2-hydroxyglutarate inhibits histone lysine demethylases. <i>EMBO Reports</i> , 2011, 12, 463-469.	2.0	851
6	A selective jumonji H3K27 demethylase inhibitor modulates the proinflammatory macrophage response. <i>Nature</i> , 2012, 488, 404-408.	13.7	822
7	Structural basis for the recognition of hydroxyproline in HIF-1 α by pVHL. <i>Nature</i> , 2002, 417, 975-978.	13.7	651
8	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.	1.6	624
9	Structure of isopenicillinN synthase complexed with substrate and the mechanism of penicillin formation. <i>Nature</i> , 1997, 387, 827-830.	13.7	456
10	Expanding chemical biology of 2-oxoglutarate oxygenases. <i>Nature Chemical Biology</i> , 2008, 4, 152-156.	3.9	438
11	Crystal structure of isopenicillin N synthase is the first from a new structural family of enzymes. <i>Nature</i> , 1995, 375, 700-704.	13.7	434
12	Structural studies on 2-oxoglutarate oxygenases and related double-stranded β -helix fold proteins. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 644-669.	1.5	390
13	Structural and mechanistic studies on 2-oxoglutarate-dependent oxygenases and related enzymes. <i>Current Opinion in Structural Biology</i> , 1999, 9, 722-731.	2.6	370
14	<i>Jmjd6</i> Catalyses Lysyl-Hydroxylation of U2AF65, a Protein Associated with RNA Splicing. <i>Science</i> , 2009, 325, 90-93.	6.0	356
15	Structure of a cephalosporin synthase. <i>Nature</i> , 1998, 394, 805-809.	13.7	344
16	Structure of Factor-inhibiting Hypoxia-inducible Factor (HIF) Reveals Mechanism of Oxidative Modification of HIF-1 α . <i>Journal of Biological Chemistry</i> , 2003, 278, 1802-1806.	1.6	342
17	Inhibition of 2-oxoglutarate dependent oxygenases. <i>Chemical Society Reviews</i> , 2011, 40, 4364.	18.7	336
18	Structure and Mechanism of Anthocyanidin Synthase from <i>Arabidopsis thaliana</i> . <i>Structure</i> , 2002, 10, 93-103.	1.6	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.	3.3	310
20	Signalling hypoxia by HIF hydroxylases. Biochemical and Biophysical Research Communications, 2005, 338, 617-626.	1.0	305
21	Crystal structures of histone demethylase JMJD2A reveal basis for substrate specificity. Nature, 2007, 448, 87-91.	13.7	297
22	Methods for converting cysteine to dehydroalanine on peptides and proteins. Chemical Science, 2011, 2, 1666.	3.7	296
23	Regulation of Jumonji-domain-containing histone demethylases by hypoxia-inducible factor (HIF)-1 α . Biochemical Journal, 2008, 416, 387-394.	1.7	278
24	2-Oxoglutarate-Dependent Oxygenases. Annual Review of Biochemistry, 2018, 87, 585-620.	5.0	276
25	Physiological and biochemical aspects of hydroxylations and demethylations catalyzed by human 2-oxoglutarate oxygenases. Trends in Biochemical Sciences, 2011, 36, 7-18.	3.7	260
26	Posttranslational hydroxylation of ankyrin repeats in I κ B 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.	3.3	258
27	Discovery and Optimization of Small-Molecule Ligands for the CBP/p300 Bromodomains. Journal of the American Chemical Society, 2014, 136, 9308-9319.	6.6	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.	2.6	238
30	Inhibitor Scaffolds for 2-Oxoglutarate-Dependent Histone Lysine Demethylases. Journal of Medicinal Chemistry, 2008, 51, 7053-7056.	2.9	221
31	The hypoxia-inducible transcription factor pathway regulates oxygen sensing in the simplest animal, <i>Trichoplax adhaerens</i> . EMBO Reports, 2011, 12, 63-70.	2.0	210
32	The enzymes of β -lactam biosynthesis. Natural Product Reports, 2013, 30, 21-107.	5.2	208
33	Structural Basis for Binding of Hypoxia-Inducible Factor to the Oxygen-Sensing Prolyl Hydroxylases. Structure, 2009, 17, 981-989.	1.6	205
34	Structural basis of metallo- β -lactamase, serine- β -lactamase and penicillin-binding protein inhibition by cyclic boronates. Nature Communications, 2016, 7, 12406.	5.8	202
35	Studies on the activity of the hypoxia-inducible-factor hydroxylases using an oxygen consumption assay. Biochemical Journal, 2007, 401, 227-234.	1.7	196
36	Hypoxia-inducible factor asparaginyl hydroxylase (FIH-1) catalyses hydroxylation at the β -carbon of asparagine-803. Biochemical Journal, 2002, 367, 571-575.	1.7	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. <i>Journal of Biological Chemistry</i> , 2007, 282, 3293-3301.	1.6	194
38	Quantitative High-Throughput Screening Identifies 8-Hydroxyquinolines as Cell-Active Histone Demethylase Inhibitors. <i>PLoS ONE</i> , 2010, 5, e15535.	1.1	194
39	Asparaginyl Hydroxylation of the Notch Ankyrin Repeat Domain by Factor Inhibiting Hypoxia-inducible Factor. <i>Journal of Biological Chemistry</i> , 2007, 282, 24027-24038.	1.6	189
40	Mechanistic Studies on Three 2-Oxoglutarate-dependent Oxygenases of Flavonoid Biosynthesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 1206-1216.	1.6	183
41	Molecular and cellular mechanisms of HIF prolyl hydroxylase inhibitors in clinical trials. <i>Chemical Science</i> , 2017, 8, 7651-7668.	3.7	174
42	Role of the jelly-roll fold in substrate binding by 2-oxoglutarate oxygenases. <i>Current Opinion in Structural Biology</i> , 2012, 22, 691-700.	2.6	171
43	Targeting histone lysine demethylases – Progress, challenges, and the future. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2014, 1839, 1416-1432.	0.9	170
44	Arginine demethylation is catalysed by a subset of JmjC histone lysine demethylases. <i>Nature Communications</i> , 2016, 7, 11974.	5.8	168
45	Human UTY(KDM6C) Is a Male-specific N ¹ -Methyl Lysyl Demethylase. <i>Journal of Biological Chemistry</i> , 2014, 289, 18302-18313.	1.6	166
46	Recent Progress in Histone Demethylase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 1308-1329.	2.9	165
47	Mechanisms of human histone and nucleic acid demethylases. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 525-534.	2.8	163
48	Structure of human RNA N ⁶ -methyladenine demethylase ALKBH5 provides insights into its mechanisms of nucleic acid recognition and demethylation. <i>Nucleic Acids Research</i> , 2014, 42, 4741-4754.	6.5	162
49	PHF8, a gene associated with cleft lip/palate and mental retardation, encodes for an N ¹ -dimethyl lysine demethylase. <i>Human Molecular Genetics</i> , 2010, 19, 217-222.	1.4	153
50	Epidithiodiketopiperazines Block the Interaction between Hypoxia-inducible Factor-1 α (HIF-1 α) and p300 by a Zinc Ejection Mechanism. <i>Journal of Biological Chemistry</i> , 2009, 284, 26831-26838.	1.6	148
51	Differential Sensitivity of Hypoxia Inducible Factor Hydroxylation Sites to Hypoxia and Hydroxylase Inhibitors. <i>Journal of Biological Chemistry</i> , 2011, 286, 13041-13051.	1.6	148
52	Selective Inhibitors of the JMJD2 Histone Demethylases: Combined Nondenaturing Mass Spectrometric Screening and Crystallographic Approaches. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 1810-1818.	2.9	146
53	2-Oxoglutarate analogue inhibitors of hif prolyl hydroxylase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 2677-2680.	1.0	144
54	Chemistry and biosynthesis of clavulanic acid and other clavams. <i>Natural Product Reports</i> , 1997, 14, 309.	5.2	143

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55	Structural and Evolutionary Basis for the Dual Substrate Selectivity of Human KDM4 Histone Demethylase Family. <i>Journal of Biological Chemistry</i> , 2011, 286, 41616-41625.	1.6	143
56	Crystal structure of a clavamate synthase-Fe(II)-2-oxoglutarate-substrate-NO complex: evidence for metal centred rearrangements. <i>FEBS Letters</i> , 2002, 517, 7-12.	1.3	142
57	5-Carboxy-8-hydroxyquinoline is a broad spectrum 2-oxoglutarate oxygenase inhibitor which causes iron translocation. <i>Chemical Science</i> , 2013, 4, 3110.	3.7	142
58	Bicyclic Boronate VNRX-5133 Inhibits Metallo- and Serine- β -Lactamases. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 8544-8556.	2.9	139
59	Structures of Human ALKBH5 Demethylase Reveal a Unique Binding Mode for Specific Single-stranded N6-Methyladenosine RNA Demethylation. <i>Journal of Biological Chemistry</i> , 2014, 289, 17299-17311.	1.6	138
60	Oxygenase-catalyzed ribosome hydroxylation occurs in prokaryotes and humans. <i>Nature Chemical Biology</i> , 2012, 8, 960-962.	3.9	135
61	Structural Basis of Metallo- β -Lactamase Inhibition by Captopril Stereoisomers. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 142-150.	1.4	134
62	Selective Inhibition of Factor Inhibiting Hypoxia-Inducible Factor. <i>Journal of the American Chemical Society</i> , 2005, 127, 7680-7681.	6.6	128
63	Structural Basis for Inhibition of the Fat Mass and Obesity Associated Protein (FTO). <i>Journal of Medicinal Chemistry</i> , 2013, 56, 3680-3688.	2.9	128
64	Plant Growth Regulator Daminozide Is a Selective Inhibitor of Human KDM2/7 Histone Demethylases. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 6639-6643.	2.9	125
65	Protein Hydroxylation Catalyzed by 2-Oxoglutarate-dependent Oxygenases. <i>Journal of Biological Chemistry</i> , 2015, 290, 20712-20722.	1.6	124
66	Highly selective inhibition of histone demethylases by de novo macrocyclic peptides. <i>Nature Communications</i> , 2017, 8, 14773.	5.8	124
67	Expression of Idh1R132H in the Murine Subventricular Zone Stem Cell Niche Recapitulates Features of Early Gliomagenesis. <i>Cancer Cell</i> , 2016, 30, 578-594.	7.7	122
68	The FIH hydroxylase is a cellular peroxide sensor that modulates HIF transcriptional activity. <i>EMBO Reports</i> , 2012, 13, 251-257.	2.0	120
69	Human AlkB Homologue 5 Is a Nuclear 2-Oxoglutarate Dependent Oxygenase and a Direct Target of Hypoxia-Inducible Factor 1 α (HIF-1 α). <i>PLoS ONE</i> , 2011, 6, e16210.	1.1	120
70	Structural basis for the broad-spectrum inhibition of metallo- β -lactamases by thiols. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2282.	1.5	118
71	Investigating the dependence of the hypoxia-inducible factor hydroxylases (factor inhibiting HIF and) Tj ETQq1 1 0.784314 rgBT /Overl 135-142.	1.7	118
72	Mechanisms and structures of crotonase superfamily enzymes α €“ How nature controls enolate and oxyanion reactivity. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 2507-2527.	2.4	112

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73	Studies on the active site of deacetoxycephalosporin C synthase. <i>Journal of Molecular Biology</i> , 1999, 287, 943-960.	2.0	111
74	Hydroxylation of the eukaryotic ribosomal decoding center affects translational accuracy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4019-4024.	3.3	111
75	Pharmacological targeting of the HIF hydroxylases – A new field in medicine development. <i>Molecular Aspects of Medicine</i> , 2016, 47-48, 54-75.	2.7	111
76	Potent and Selective KDM5 Inhibitor Stops Cellular Demethylation of H3K4me3 at Transcription Start Sites and Proliferation of MM1S Myeloma Cells. <i>Cell Chemical Biology</i> , 2017, 24, 371-380.	2.5	111
77	Rhodanine hydrolysis leads to potent thioenolate mediated metallo- β -lactamase inhibition. <i>Nature Chemistry</i> , 2014, 6, 1084-1090.	6.6	110
78	Structural basis for oxygen degradation domain selectivity of the HIF prolyl hydroxylases. <i>Nature Communications</i> , 2016, 7, 12673.	5.8	109
79	Noninvasive Quantification of 2-Hydroxyglutarate in Human Gliomas with IDH1 and IDH2 Mutations. <i>Cancer Research</i> , 2016, 76, 43-49.	0.4	108
80	Insights into the Mechanistic Basis of Plasmid-Mediated Colistin Resistance from Crystal Structures of the Catalytic Domain of MCR-1. <i>Scientific Reports</i> , 2017, 7, 39392.	1.6	107
81	Therapeutic targeting of oxygen-sensing prolyl hydroxylases abrogates ATF4-dependent neuronal death and improves outcomes after brain hemorrhage in several rodent models. <i>Science Translational Medicine</i> , 2016, 8, 328ra29.	5.8	106
82	Selective Small Molecule Probes for the Hypoxia Inducible Factor (HIF) Prolyl Hydroxylases. <i>ACS Chemical Biology</i> , 2013, 8, 1488-1496.	1.6	105
83	OGFOD1 catalyzes prolyl hydroxylation of RPS23 and is involved in translation control and stress granule formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4031-4036.	3.3	105
84	Pan-Histone Demethylase Inhibitors Simultaneously Targeting Jumonji C and Lysine-Specific Demethylases Display High Anticancer Activities. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 42-55.	2.9	105
85	The road to avibactam: the first clinically useful non- β -lactam working somewhat like a β -lactam. <i>Future Medicinal Chemistry</i> , 2016, 8, 1063-1084.	1.1	102
86	How formaldehyde reacts with amino acids. <i>Communications Chemistry</i> , 2019, 2, .	2.0	102
87	The human oxygen sensing machinery and its manipulation. <i>Chemical Society Reviews</i> , 2008, 37, 1308.	18.7	100
88	Assay Platform for Clinically Relevant Metallo- β -lactamases. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 6945-6953.	2.9	100
89	Bisthiazolidines: A Substrate-Mimicking Scaffold as an Inhibitor of the NDM-1 Carbapenemase. <i>ACS Infectious Diseases</i> , 2015, 1, 544-554.	1.8	100
90	Kinetic and crystallographic studies on deacetoxycephalosporin C synthase (DAOCS). <i>Journal of Molecular Biology</i> , 2001, 308, 937-948.	2.0	99

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91	Optimal Translational Termination Requires C4 Lysyl Hydroxylation of eRF1. <i>Molecular Cell</i> , 2014, 53, 645-654.	4.5	99
92	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
93	PTP1B controls non-mitochondrial oxygen consumption by regulating RNF213 to promote tumour survival during hypoxia. <i>Nature Cell Biology</i> , 2016, 18, 803-813.	4.6	95
94	Cyclic Boronates Inhibit All Classes of \hat{I}^2 -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	94
95	Allosteric Inhibition of the SARS-CoV-2 Main Protease: Insights from Mass Spectrometry Based Assays**. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23544-23548.	7.2	92
96	Tuning the Transcriptional Response to Hypoxia by Inhibiting Hypoxia-inducible Factor (HIF) Prolyl and Asparaginyl Hydroxylases. <i>Journal of Biological Chemistry</i> , 2016, 291, 20661-20673.	1.6	91
97	The Selectivity and Inhibition of AlkB. <i>Journal of Biological Chemistry</i> , 2003, 278, 10157-10161.	1.6	90
98	Crystal Structure of Carbapenem Synthase (CarC). <i>Journal of Biological Chemistry</i> , 2003, 278, 20843-20850.	1.6	90
99	The Mechanism of ACV Synthetase. <i>Chemical Reviews</i> , 1997, 97, 2631-2650.	23.0	88
100	Ribosomal oxygenases are structurally conserved from prokaryotes to humans. <i>Nature</i> , 2014, 510, 422-426.	13.7	87
101	The Chemical Biology of Human Metallo- \hat{I}^2 -Lactamase Fold Proteins. <i>Trends in Biochemical Sciences</i> , 2016, 41, 338-355.	3.7	87
102	Crystal Structure of the 2-Oxoglutarate- and Fe(II)-Dependent Lysyl Hydroxylase JMJD6. <i>Journal of Molecular Biology</i> , 2010, 401, 211-222.	2.0	85
103	X-ray absorption studies of the ferrous active site of isopenicillin N synthase and related model complexes. <i>Biochemistry</i> , 1993, 32, 6664-6673.	1.2	84
104	A miniaturized screen for inhibitors of Jumonji histone demethylases. <i>Molecular BioSystems</i> , 2010, 6, 357-364.	2.9	84
105	Structure-function relationships of human JmjC oxygenases demethylases versus hydroxylases. <i>Current Opinion in Structural Biology</i> , 2016, 41, 62-72.	2.6	84
106	8-Substituted Pyrido[3,4- <i>d</i>]pyrimidin-4(3 <i>H</i>)-one Derivatives As Potent, Cell Permeable, KDM4 (JMJD2) and KDM5 (JARID1) Histone Lysine Demethylase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 1388-1409.	2.9	83
107	Dynamic Combinatorial Chemistry Employing Boronic Acids/Boronate Esters Leads to Potent Oxygenase Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6672-6675.	7.2	82
108	Interaction of Avibactam with Class B Metallo- \hat{I}^2 -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5655-5662.	1.4	82

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109	Structure of Human Phytanoyl-CoA 2-Hydroxylase Identifies Molecular Mechanisms of Refsum Disease*. <i>Journal of Biological Chemistry</i> , 2005, 280, 41101-41110.	1.6	78
110	Structural and Mechanistic Studies on Î³-Butyrobetaine Hydroxylase. <i>Chemistry and Biology</i> , 2010, 17, 1316-1324.	6.2	78
111	Inhibition of the histone lysine demethylase JMJD2A by ejection of structural Zn(ii). <i>Chemical Communications</i> , 2009, , 6376.	2.2	77
112	Inhibition of Histone Demethylases by 4-((Carboxy-2,2'-bipyridyl) Compounds. <i>ChemMedChem</i> , 2011, 6, 759-764.	1.7	76
113	The oxygenase Jmjd6â€“a case study in conflicting assignments. <i>Biochemical Journal</i> , 2015, 468, 191-202.	1.7	76
114	Therapeutic Manipulation of the HIF Hydroxylases. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 481-501.	2.5	75
115	Evidence for the slow reaction of hypoxia-inducible factor prolyl hydroxylaseâ€“2 with oxygen. <i>FEBS Journal</i> , 2010, 277, 4089-4099.	2.2	75
116	Studies on the catalytic domains of multiple JmjC oxygenases using peptide substrates. <i>Epigenetics</i> , 2014, 9, 1596-1603.	1.3	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. <i>Journal of Biological Chemistry</i> , 2008, 283, 3808-3815.	1.6	72
118	Disruption of dimerization and substrate phosphorylation inhibit factor inhibiting hypoxia-inducible factor (FIH) activity. <i>Biochemical Journal</i> , 2004, 383, 429-437.	1.7	71
119	Structural insights into how 5-hydroxymethylation influences transcription factor binding. <i>Chemical Communications</i> , 2014, 50, 1794-1796.	2.2	71
120	Prolyl hydroxylase 2 inactivation enhances glycogen storage and promotes excessive neutrophilic responses. <i>Journal of Clinical Investigation</i> , 2017, 127, 3407-3420.	3.9	71
121	Lack of activity of recombinant HIF prolyl hydroxylases (PHDs) on reported non-HIF substrates. <i>ELife</i> , 2019, 8, .	2.8	70
122	Proteins of the penicillin biosynthesis pathway. <i>Current Opinion in Structural Biology</i> , 1997, 7, 857-864.	2.6	69
123	Non-enzymatic chemistry enables 2-hydroxyglutarate-mediated activation of 2-oxoglutarate oxygenases. <i>Nature Communications</i> , 2014, 5, 3423.	5.8	69
124	Kinetic Investigations of the Role of Factor Inhibiting Hypoxia-inducible Factor (FIH) as an Oxygen Sensor. <i>Journal of Biological Chemistry</i> , 2015, 290, 19726-19742.	1.6	69
125	Will morphing boron-based inhibitors beat the Î²-lactamases?. <i>Current Opinion in Chemical Biology</i> , 2019, 50, 101-110.	2.8	69
126	Mechanistic Insights into the Inhibition of Serine Proteases by Monocyclic Lactamsâ€“,â€“. <i>Biochemistry</i> , 1999, 38, 7989-7998.	1.2	68

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127	Factor-inhibiting hypoxia-inducible factor (FIH) catalyses the post-translational hydroxylation of histidyl residues within ankyrin repeat domains. FEBS Journal, 2011, 278, 1086-1097.	2.2	68
128	Analysis of Jmjd6 Cellular Localization and Testing for Its Involvement in Histone Demethylation. PLoS ONE, 2010, 5, e13769.	1.1	67
129	A Code for RanGDP Binding in Ankyrin Repeats Defines a Nuclear Import Pathway. Cell, 2014, 157, 1130-1145.	13.5	67
130	Targeting Protein-Protein Interactions in the HIF System. ChemMedChem, 2016, 11, 773-786.	1.6	67
131	Development of homogeneous luminescence assays for histone demethylase catalysis and binding. Analytical Biochemistry, 2010, 404, 86-93.	1.1	66
132	Analogues of dealanylalohopcin are inhibitors of human HIF prolyl hydroxylases. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1451-1454.	1.0	65
133	Hydroxylation of methylated CpG dinucleotides reverses stabilisation of DNA duplexes by cytosine 5-methylation. Chemical Communications, 2011, 47, 5325.	2.2	65
134	Linking of 2-Oxoglutarate and Substrate Binding Sites Enables Potent and Highly Selective Inhibition of JmJC Histone Demethylases. Angewandte Chemie - International Edition, 2012, 51, 1631-1634.	7.2	64
135	The enzymology of clavam and carbapenem biosynthesis. Chemical Communications, 2005, , 4251.	2.2	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.	1.6	63
137	Design and synthesis of potent and selective inhibitors of BRD7 and BRD9 bromodomains. MedChemComm, 2015, 6, 1381-1386.	3.5	63
138	NMR-filtered virtual screening leads to non-metal chelating metallo- β -lactamase inhibitors. Chemical Science, 2017, 8, 928-937.	3.7	63
139	Jumonji domain containing protein 6 (Jmjd6) modulates splicing and specifically interacts with arginine-serine-rich (RS) domains of SR- and SR-like proteins. Nucleic Acids Research, 2014, 42, 7833-7850.	6.5	61
140	Direct sulfonylation of anilines mediated by visible light. Chemical Science, 2018, 9, 629-633.	3.7	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.	3.3	60
142	Reporter Ligand NMR Screening Method for 2-Oxoglutarate Oxygenase Inhibitors. Journal of Medicinal Chemistry, 2013, 56, 547-555.	2.9	59
143	Glucose Metabolism and Oxygen Availability Govern Reactivation of the Latent Human Retrovirus HTLV-1. Cell Chemical Biology, 2017, 24, 1377-1387.e3.	2.5	59
144	Expression, purification and characterization of 1-aminocyclopropane-1-carboxylate oxidase from tomato in Escherichia coli. Biochemical Journal, 1995, 307, 77-85.	1.7	58

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145	Evidence for a Stereoelectronic Effect in Human Oxygen Sensing. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1784-1787.	7.2	58
146	Monitoring Conformational Changes in the NDM-1 Metallo- β -lactamase by ¹⁹ F-NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3129-3133.	7.2	58
147	Binding of D- and L-captopril inhibitors to metallo- β -lactamase studied by polarizable molecular mechanics and quantum mechanics. <i>Journal of Computational Chemistry</i> , 2002, 23, 1281-1296.	1.5	57
148	Structural and mechanistic basis of penicillin-binding protein inhibition by lactvicins. <i>Nature Chemical Biology</i> , 2007, 3, 565-569.	3.9	57
149	Potent and Selective Triazole-Based Inhibitors of the Hypoxia-Inducible Factor Prolyl-Hydroxylases with Activity in the Murine Brain. <i>PLoS ONE</i> , 2015, 10, e0132004.	1.1	57
150	Biochemical characterization of New Delhi metallo- β -lactamase variants reveals differences in protein stability. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 463-469.	1.3	57
151	Iron-Mediated Cleavage of C-C Bonds in Vicinal Tricarbonyl Compounds in Water. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2796-2800.	7.2	56
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