Nicholas G Brown

List of Publications by Year
in descending order

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41 papers	2,024 citations	279701 23 h-index	302012 39 g-index
44 all docs	44 docs citations	44 times ranked	2641 citing authors

#	Article	IF	Citations
1	biGBac enables rapid gene assembly for the expression of large multisubunit protein complexes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2564-9.	3.3	263
2	Quantifying the heterogeneity of macromolecular machines by mass photometry. Nature Communications, 2020, 11, 1772.	5.8	146
3	Dual RING E3 Architectures Regulate Multiubiquitination and Ubiquitin Chain Elongation by APC/C. Cell, 2016, 165, 1440-1453.	13.5	126
4	Cryo-EM of Mitotic Checkpoint Complex-Bound APC/C Reveals Reciprocal and Conformational Regulation of Ubiquitin Ligation. Molecular Cell, 2016, 63, 593-607.	4.5	123
5	APC15 mediates CDC20 autoubiquitylation by APC/CMCC and disassembly of the mitotic checkpoint complex. Nature Structural and Molecular Biology, 2012, 19, 1116-1123.	3.6	118
6	Mechanism of APC/C ^{CDC20} activation by mitotic phosphorylation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2570-8.	3.3	112
7	Posing the APC/C E3 Ubiquitin Ligase to Orchestrate Cell Division. Trends in Cell Biology, 2019, 29, 117-134.	3.6	101
8	Mechanism of Polyubiquitination by Human Anaphase-Promoting Complex: RING Repurposing for Ubiquitin Chain Assembly. Molecular Cell, 2014, 56, 246-260.	4.5	98
9	Electron microscopy structure of human APC/CCDH1â€“EMI1 reveals multimodal mechanism of E3 ligase shutdown. Nature Structural and Molecular Biology, 2013, 20, 827-835.	3.6	82
10	RING E3 mechanism for ubiquitin ligation to a disordered substrate visualized for human anaphase-promoting complex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5272-5279.	3.3	80
11	Deep Sequencing of Systematic Combinatorial Libraries Reveals Î²-Lactamase Sequence Constraints at High Resolution. Journal of Molecular Biology, 2012, 424, 150-167.	2.0	76
12	Multiple Global Suppressors of Protein Stability Defects Facilitate the Evolution of Extended-Spectrum TEM Î²-Lactamases. Journal of Molecular Biology, 2010, 404, 832-846.	2.0	71
13	Comprehensive nucleosome interactome screen establishes fundamental principles of nucleosome binding. Nucleic Acids Research, 2020, 48, 9415-9432.	6.5	67
14	Cezanne/ <scp>OTUD</scp> 7B is a cell cycleâ€regulated deubiquitinase that antagonizes the degradation of <scp>APC</scp> /C substrates. EMBO Journal, 2018, 37, .	3.5	60
15	Molecular Basis for the Catalytic Specificity of the CTX-M Extended-Spectrum Î²-Lactamases. Biochemistry, 2015, 54, 447-457.	1.2	50
16	Structural and Biochemical Evidence That a TEM-1 Î²-Lactamase N170G Active Site Mutant Acts via Substrate-assisted Catalysis. Journal of Biological Chemistry, 2009, 284, 33703-33712.	1.6	45
17	Analysis of the plasticity of location of the Arg244 positive charge within the active site of the TEMâ€1 Î²â€lactamase. Protein Science, 2009, 18, 2080-2089.	3.1	35
18	Structure of an APC3â€“APC16 Complex: Insights into Assembly of the Anaphase-Promoting Complex/Cyclosome. Journal of Molecular Biology, 2015, 427, 1748-1764.	2.0	35

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19	An aminoâ€terminal signal peptide of Vfr protein negatively influences RopBâ€dependent SpeB expression and attenuates virulence in Streptococcus pyogenes. Molecular Microbiology, 2011, 82, 1481-1495.	1.2	32
20	Analysis of the Functional Contributions of Asn233 in Metallo-Î²-Lactamase IMP-1. Antimicrobial Agents and Chemotherapy, 2011, 55, 5696-5702.	1.4	30
21	Probing the Sites of Interactions of Rotaviral Proteins Involved in Replication. Journal of Virology, 2014, 88, 12866-12881.	1.5	29
22	USP15 suppresses tumor immunity via deubiquitylation and inactivation of TET2. Science Advances, 2020, 6, .	4.7	28
23	Ubiquitin chain-elongating enzyme UBE2S activates the RING E3 ligase APC/C for substrate priming. Nature Structural and Molecular Biology, 2020, 27, 550-560.	3.6	26
24	Mutagenesis of Zinc Ligand Residue Cys221 Reveals Plasticity in the IMP-1 Metallo-Î²-Lactamase Active Site. Antimicrobial Agents and Chemotherapy, 2012, 56, 5667-5677.	1.4	22
25	Protein engineering of a ubiquitin-variant inhibitor of APC/C identifies a cryptic K48 ubiquitin chain binding site. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17280-17289.	3.3	22
26	Analysis of the Binding Forces Driving the Tight Interactions between Î²-Lactamase Inhibitory Protein-II (BLIP-II) and Class A Î²-Lactamases. Journal of Biological Chemistry, 2011, 286, 32723-32735.	1.6	18
27	Paradoxical mitotic exit induced by a small molecule inhibitor of APC/CCdc20. Nature Chemical Biology, 2020, 16, 546-555.	3.9	16
28	Identification of the Î²-Lactamase Inhibitor Protein-II (BLIP-II) Interface Residues Essential for Binding Affinity and Specificity for Class A Î²-Lactamases. Journal of Biological Chemistry, 2013, 288, 17156-17166.	1.6	15
29	BLIP-II Is a Highly Potent Inhibitor of Klebsiella pneumoniae Carbapenemase (KPC-2). Antimicrobial Agents and Chemotherapy, 2013, 57, 3398-3401.	1.4	13
30	Role of Î²â€lactamase residues in a common interface for binding the structurally unrelated inhibitory proteins BLIP and BLIPâ€II. Protein Science, 2014, 23, 1235-1246.	3.1	13
31	Intricate Regulatory Mechanisms of the Anaphase-Promoting Complex/Cyclosome and Its Role in Chromatin Regulation. Frontiers in Cell and Developmental Biology, 2021, 9, 687515.	1.8	13
32	Measuring APC/C-Dependent Ubiquitylation In Vitro. Methods in Molecular Biology, 2016, 1342, 287-303.	0.4	12
33	Cyclin F drives proliferation through SCF-dependent degradation of the retinoblastoma-like tumor suppressor p130/RBL2. ELife, 2021, 10, .	2.8	9
34	Functional conservation and divergence of the helixâ€turnâ€helix motif of E2 ubiquitinâ€conjugating enzymes. EMBO Journal, 2022, 41, e108823.	3.5	8
35	In silico APC/C substrate discovery reveals cell cycle-dependent degradation of UHRF1 and other chromatin regulators. PLoS Biology, 2020, 18, e3000975.	2.6	7
36	Cryo-EM structure of the plant 26S proteasome. Plant Communications, 2022, 3, 100310.	3.6	7

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37	Use of periplasmic target protein capture for phage display engineering of tight-binding proteinâ€“protein interactions. Protein Engineering, Design and Selection, 2011, 24, 819-828.	1.0	4
38	APC7 mediates ubiquitin signaling in constitutive heterochromatin in the developing mammalian brain. Molecular Cell, 2022, 82, 90-105.e13.	4.5	4
39	Examining the mechanistic relationship of <scp>APC</scp>/<scp>C^{CDH1}</scp> and its interphase inhibitor <scp>EMI1</scp>. Protein Science, 2022, 31, .	3.1	4
40	UBE2S Learns Self-Control. Structure, 2019, 27, 1185-1187.	1.6	0
41	Characterization of a novel interaction between BLIPâ€¡ and Staphylococcus aureus PBP2a. FASEB Journal, 2013, 27, 1013.2.	0.2	0