Benjamin D Bax

List of Publications by Citations

47 papers	2,532 citations	25 h-index	50 g-index
51 ext. papers	2,992 ext. citations	7.7 avg, IF	4.26 L-index

#	Paper	IF	Citations
47	Type IIA topoisomerase inhibition by a new class of antibacterial agents. *Nature*, **2010**, 466, 935-40	50.4	509
46	Inhibition of PAD4 activity is sufficient to disrupt mouse and human NET formation. *Nature Chemical Biology*, **2015**, 11, 189-91	11.7	354
45	Structural basis of quinolone inhibition of type IIA topoisomerases and target-mediated resistance. *Nature Structural and Molecular Biology*, **2010**, 17, 1152-3	17.6	203
44	The structure of phosphorylated GSK-3beta complexed with a peptide, FRATtide, that inhibits beta-catenin phosphorylation. *Structure*, **2001**, 9, 1143-52	5.2	163
43	The structure of rat ADP-ribosylation factor-1 (ARF-1) complexed to GDP determined from two different crystal forms. *Nature Structural and Molecular Biology*, **1995**, 2, 797-806	17.6	94
42	High resolution structure of an oligomeric eye lens beta-crystallin. Loops, arches, linkers and interfaces in beta B2 dimer compared to a monomeric gamma-crystallin. *Journal of Molecular Biology*, **1991**, 222, 1067-83	6.5	81
41	GSK-3 inhibition by adenoviral FRAT1 overexpression is neuroprotective and induces Tau dephosphorylation and beta-catenin stabilisation without elevation of glycogen synthase activity. *FEBS Letters*, **2001**, 507, 288-94	3.8	76
40	Structural basis of DNA gyrase inhibition by antibacterial QPT-1, anticancer drug etoposide and moxifloxacin. *Nature Communications*, **2015**, 6, 10048	17.4	71
39	Protein arginine deiminase 2 binds calcium in an ordered fashion: implications for inhibitor design. *ACS Chemical Biology*, **2015**, 10, 1043-53	4.9	68
38	Structure of mouse 7S NGF: a complex of nerve growth factor with four binding proteins. *Structure*, **1997**, 5, 1275-85	5.2	55
37	Challenges for and current status of research into positive modulators of AMPA receptors. *British Journal of Pharmacology*, **2010**, 160, 181-90	8.6	54
36	Integration of lead optimization with crystallography for a membrane-bound ion channel target: discovery of a new class of AMPA receptor positive allosteric modulators. *Journal of Medicinal Chemistry*, **2011**, 54, 78-94	8.3	53
35	Crystallizing Membrane Proteins in the Lipidic Mesophase. Experience with Human Prostaglandin E2 Synthase 1 and an Evolving Strategy. *Crystal Growth and Design*, **2014**, 14, 2034-2047	3.5	49
34	Novel hydroxyl tricyclics (e.g., GSK966587) as potent inhibitors of bacterial type IIA topoisomerases. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 5437-41	2.9	48
33	Mechanistic and Structural Basis for the Actions of the Antibacterial Gepotidacin against Staphylococcus aureus Gyrase. *ACS Infectious Diseases*, **2019**, 5, 570-581	5.5	48
32	Evolutionary and functional relationships between the basic and acidic beta-crystallins. *Experimental Eye Research*, **1988**, 46, 375-403	3.7	46
31	5-Aryl-4-carboxamide-1,3-oxazoles: potent and selective GSK-3 inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 1989-94	2.9	42

30	Discovery of N-[(2S)-5-(6-fluoro-3-pyridinyl)-2,3-dihydro-1H-inden-2-yl]-2-propanesulfonamide, a novel clinical AMPA receptor positive modulator. *Journal of Medicinal Chemistry*, **2010**, 53, 5801-12	8.3	42
29	The structure of MSK1 reveals a novel autoinhibitory conformation for a dual kinase protein. *Structure*, **2004**, 12, 1067-77	5.2	42
28	Close packing of an oligomeric eye lens beta-crystallin induces loss of symmetry and ordering of sequence extensions. *Journal of Molecular Biology*, **1994**, 236, 1250-8	6.5	42
27	Thiophene antibacterials that allosterically stabilize DNA-cleavage complexes with DNA gyrase. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E4492-E4500	11.5	33
26	Getting the chemistry right: protonation, tautomers and the importance of H atoms in biological chemistry. *Acta Crystallographica Section D: Structural Biology*, **2017**, 73, 131-140	5.5	33
25	Novel tricyclics (e.g., GSK945237) as potent inhibitors of bacterial type IIA topoisomerases. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 2464-2469	2.9	31
24	DNA Topoisomerase Inhibitors: Trapping a DNA-Cleaving Machine in Motion. *Journal of Molecular Biology*, **2019**, 431, 3427-3449	6.5	29
23	1-Aryl-3,4-dihydroisoquinoline inhibitors of JNK3. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 2230-4	2.9	29
22	The three-dimensional structure of cytosolic bovine retinal creatine kinase. *Acta Crystallographica Section D: Biological Crystallography*, **2001**, 57, 187-93		24
21	Structural aspects of the functional modules in human protein kinase-C alpha deduced from comparative analyses. *Proteins: Structure, Function and Bioinformatics*, **1996**, 26, 217-35	4.2	23
20	Structural and functional analysis of the nucleotide and DNA binding activities of the human PIF1 helicase. *Nucleic Acids Research*, **2019**, 47, 3208-3222	20.1	20
19	ADP ribosylation factor 1 mutants identify a phospholipase D effector region and reveal that phospholipase D participates in lysosomal secretion but is not sufficient for recruitment of coatomer I. *Biochemical Journal*, **1999**, 341, 185	3.8	19
18	A new class of antibacterials, the imidazopyrazinones, reveal structural transitions involved in DNA gyrase poisoning and mechanisms of resistance. *Nucleic Acids Research*, **2018**, 46, 4114-4128	20.1	18
17	Identification of 2-(4-pyridyl)thienopyridinones as GSK-3 inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 4823-7	2.9	17
16	Crystallization of a new form of the eye lens protein beta B2-crystallin. *Journal of Molecular Biology*, **1989**, 208, 715-7	6.5	15
15	Coupling the core of the anticancer drug etoposide to an oligonucleotide induces topoisomerase II-mediated cleavage at specific DNA sequences. *Nucleic Acids Research*, **2018**, 46, 2218-2233	20.1	13
14	Mechanism of Action of Mycobacterium tuberculosis Gyrase Inhibitors: A Novel Class of Gyrase Poisons. *ACS Infectious Diseases*, **2018**, 4, 1211-1222	5.5	13
13	Crystallization and initial crystallographic analysis of covalent DNA-cleavage complexes of Staphyloccocus aureus DNA gyrase with QPT-1, moxifloxacin and etoposide. *Acta Crystallographica Section F, Structural Biology Communications*, **2015**, 71, 1242-6	1.1	13

12	Prediction of the three-dimensional structures of the nerve growth factor and epidermal growth factor binding proteins (kallikreins) and an hypothetical structure of the high molecular weight complex of epidermal growth factor with its binding protein. *Protein Science*, **1993**, 2, 1229-41	6.3	11
11	Structure-guided design of antibacterials that allosterically inhibit DNA gyrase. *Bioorganic and Medicinal Chemistry Letters*, **2019**, 29, 1407-1412	2.9	10
10	Recent Developments in Inhibitors of Bacterial Type IIA Topoisomerases **2013**, 263-297		8
9	From PIM1 to PI3K via GSK3 Target Hopping through the Kinome. *ACS Medicinal Chemistry Letters*, **2017**, 8, 1093-1098	4.3	8
8	Protein-protein interactions. Putting the pieces together. *Current Biology*, **1995**, 5, 1119-21	6.3	8
7	Crystallization and structure of ebselen bound to Cys141 of human inositol monophosphatase. *Acta Crystallographica Section F, Structural Biology Communications*, **2020**, 76, 469-476	1.1	5
6	Purification, crystallization and preliminary X-ray crystallographic studies of the Mycobacterium tuberculosis DNA gyrase ATPase domain. *Acta Crystallographica Section F: Structural Biology Communications*, **2013**, 69, 679-82		4
5	Conformational flexibility within the small domain of human serine racemase. *Acta Crystallographica Section F, Structural Biology Communications*, **2020**, 76, 65-73	1.1	2
4	Crystallization and preliminary X-ray diffraction studies on ADP-ribosylation factor 1. *Journal of Molecular Biology*, **1994**, 244, 651-3	6.5	2
3	Purification, crystallization and preliminary crystallographic analysis of bovine cytosolic brain-type creatine kinase. *Acta Crystallographica Section D: Biological Crystallography*, **1998**, 54, 989-90		1
2	Tyrosine 121 moves revealing a ligandable pocket that couples catalysis to ATP-binding in serine racemase.. *Communications Biology*, **2022**, 5, 346	6.7	1
1	Common themes and surprising differences in small G-proteins. *Biochemical Society Transactions*, **1997**, 25, 989-91	5.1	