Nicholas J Harmer

List of Publications by Year
in descending order

54 papers	1,809 citations	304701 22 h-index	276858 41 g-index
61 all docs	61 docs citations	61 times ranked	2744 citing authors

#	Article	IF	Citations
1	Structural biology and bioinformatics in drug design: opportunities and challenges for target identification and lead discovery. Philosophical Transactions of the Royal Society B: Biological Sciences, 2006, 361, 413-423.	4.0	140
2	The Crystal Structure of Fibroblast Growth Factor (FGF) 19 Reveals Novel Features of the FGF Family and Offers a Structural Basis for Its Unusual Receptor Affinityâ€,â€¡. Biochemistry, 2004, 43, 629-640.	2.5	116
3	Towards a Resolution of the Stoichiometry of the Fibroblast Growth Factor (FGF)â€“FGF Receptorâ€“Heparin Complex. Journal of Molecular Biology, 2004, 339, 821-834.	4.2	107
4	Characterization of Carboxylic Acid Reductases as Enzymes in the Toolbox for Synthetic Chemistry. ChemCatChem, 2017, 9, 1005-1017.	3.7	106
5	Myosin-5, kinesin-1 and myosin-17 cooperate in secretion of fungal chitin synthase. EMBO Journal, 2012, 31, 214-227.	7.8	97
6	A tyrosine703serine polymorphism of CD109 defines the Gov platelet alloantigens. Blood, 2002, 99, 1692-1698.	1.4	84
7	The HicA toxin from <i>Burkholderia pseudomallei</i> has a role in persister cell formation. Biochemical Journal, 2014, 459, 333-344.	3.7	81
8	Determination of Protein-ligand Interactions Using Differential Scanning Fluorimetry. Journal of Visualized Experiments, 2014, , 51809.	0.3	81
9	Evidence That Heparin Saccharides Promote FGF2 Mitogenesis through Two Distinct Mechanisms. Journal of Biological Chemistry, 2008, 283, 13001-13008.	3.4	76
10	Cooperative Dimerization of Fibroblast Growth Factor 1 (FGF1) upon a Single Heparin Saccharide May Drive the Formation of 2:2:1 FGF1Â·FGFR2cÂ·Heparin Ternary Complexes. Journal of Biological Chemistry, 2005, 280, 42274-42282.	3.4	68
11	Zoonoses under our noses. Microbes and Infection, 2019, 21, 10-19.	1.9	67
12	Characterization of the Burkholderia pseudomallei K96243 Capsular Polysaccharide I Coding Region. Infection and Immunity, 2012, 80, 1209-1221.	2.2	56
13	Multimers of the fibroblast growth factor (FGF)â€“FGF receptorâ€“saccharide complex are formed on long oligomers of heparin. Biochemical Journal, 2006, 393, 741-748.	3.7	48
14	Engineering a Seven Enzyme Biotransformation using Mathematical Modelling and Characterized Enzyme Parts. ChemCatChem, 2019, 11, 3474-3489.	3.7	39
15	A Burkholderia pseudomallei Macrophage Infectivity Potentiator-Like Protein Has Rapamycin-Inhibitable Peptidylprolyl Isomerase Activity and Pleiotropic Effects on Virulence. Infection and Immunity, 2011, 79, 4299-4307.	2.2	38
16	Effect of Substance P in Staphylococcus aureus and Staphylococcus epidermidis Virulence: Implication for Skin Homeostasis. Frontiers in Microbiology, 2016, 7, 506.	3.5	36
17	Glycosylation of DsbA in Francisella tularensis subsp. tularensis. Journal of Bacteriology, 2011, 193, 5498-5509.	2.2	34
18	Molecular features of lipoprotein CD0873: A potential vaccine against the human pathogen Clostridioides difficile. Journal of Biological Chemistry, 2019, 294, 15850-15861.	3.4	34

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19	Highly thermostable carboxylic acid reductases generated by ancestral sequence reconstruction. Communications Biology, 2019, 2, 429.	4.4	34
20	Using enzyme cascades in biocatalysis: Highlight on transaminases and carboxylic acid reductases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140322.	2.3	31
21	Pseudomonas aeruginosa Expresses a Functional Human Natriuretic Peptide Receptor Ortholog: Involvement in Biofilm Formation. MBio, 2015, 6, .	4.1	28
22	A novel FK-506-binding-like protein that lacks peptidyl-prolyl isomerase activity is involved in intracellular infection and in vivo virulence of Burkholderia pseudomallei. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 61	1.8	24
23	Carbohydrate Kinases: A Conserved Mechanism Across Differing Folds. Catalysts, 2019, 9, 29.	3.5	22
24	Predicting Protein Function from Structureâ€"The Roles of Short-chain Dehydrogenase/Reductase Enzymes in Bordetella O-antigen Biosynthesis. Journal of Molecular Biology, 2007, 374, 749-763.	4.2	21
25	Achieving high signal-to-noise in cell regulatory systems: Spatial organization of multiprotein transmembrane assemblies of FGFR and MET receptors. Progress in Biophysics and Molecular Biology, 2015, 118, 103-111.	2.9	21
26	The structural biology of growth factor receptor activation. Biophysical Chemistry, 2002, 100, 545-553.	2.8	20
27	The structure of a <i>Burkholderia pseudomallei</i> immunophilinâ€"inhibitor complex reveals new approaches to antimicrobial development. Biochemical Journal, 2011, 437, 413-422.	3.7	20
28	Structural characterisation of the capsular polysaccharide expressed by Burkholderia thailandensis strain E555:: wbil (pKnock-KmR) and assessment of the significance of the 2-O-acetyl group in immune protection. Carbohydrate Research, 2017, 452, 17-24.	2.3	20
29	<i>Pseudomonas aeruginosa</i> Biofilm Dispersion by the Human Atrial Natriuretic Peptide. Advanced Science, 2022, 9, e2103262.	11.2	20
30	1.15 Ã… Crystal structure of theX. tropicalisSpred1 EVH1 domain suggests a fourth distinct peptide-binding mechanism within the EVH1 family. FEBS Letters, 2005, 579, 1161-1166.	2.8	19
31	The Structure of Sedoheptulose-7-Phosphate Isomerase from Burkholderia pseudomallei Reveals a Zinc Binding Site at the Heart of the Active Site. Journal of Molecular Biology, 2010, 400, 379-392.	4.2	18
32	A Structural Biology Approach Enables the Development of Antimicrobials Targeting Bacterial Immunophilins. Antimicrobial Agents and Chemotherapy, 2014, 58, 1458-1467.	3.2	18
33	Identification of type II toxin-antitoxin modules in<i>Burkholderia pseudomallei</i>. FEMS Microbiology Letters, 2013, 338, 86-94.	1.8	17
34	Covalent inhibitors of LgtC: A blueprint for the discovery of non-substrate-like inhibitors for bacterial glycosyltransferases. Bioorganic and Medicinal Chemistry, 2017, 25, 3182-3194.	3.0	16
35	Sequence analyses and comparative modeling of fly and worm fibroblast growth factor receptors indicate that the determinants for FGF and heparin binding are retained in evolution. FEBS Letters, 2001, 501, 51-58.	2.8	15
36	A half-site multimeric enzyme achieves its cooperativity without conformational changes. Scientific Reports, 2017, 7, 16529.	3.3	14

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37	Asymmetry in the Multiprotein Systems of Molecular Biology. Structural Chemistry, 2002, 13, 405-412.	2.0	13
38	Development, synthesis and structureâ€“activity-relationships of inhibitors of the macrophage infectivity potentiator (Mip) proteins of Legionella pneumophila and Burkholderia pseudomallei. Bioorganic and Medicinal Chemistry, 2016, 24, 5134-5147.	3.0	13
39	Expression and purification of recombinant human fibroblast growth factor receptor in Escherichia coli. Protein Expression and Purification, 2006, 49, 15-22.	1.3	10
40	Isotype switching: Mouse IgG3 constant region drives increased affinity for polysaccharide antigens. Virulence, 2016, 7, 623-626.	4.4	10
41	A miniaturized peptidyl-prolyl isomerase enzyme assay. Analytical Biochemistry, 2017, 536, 59-68.	2.4	10
42	The molecular basis of protein toxin HicAâ€“dependent binding of the protein antitoxin HicB to DNA. Journal of Biological Chemistry, 2018, 293, 19429-19440.	3.4	10
43	A universal fluorescence-based toolkit for real-time quantification of DNA and RNA nuclease activity. Scientific Reports, 2019, 9, 8853.	3.3	9
44	Structural and biochemical characterisation of Archaeoglobus fulgidus esterase reveals a bound CoA molecule in the vicinity of the active site. Scientific Reports, 2016, 6, 25542.	3.3	8
45	Unraveling the B.Âpseudomallei Heptokinase WcbL: From Structure to Drug Discovery. Chemistry and Biology, 2015, 22, 1622-1632.	6.0	7
46	Structural insights into Wcbl, a novel polysaccharide-biosynthesis enzyme. IUCrJ, 2014, 1, 28-38.	2.2	5
47	Unique Data Sets and Bespoke Laboratory Videos: Teaching and Assessing of Experimental Methods and Data Analysis in a Pandemic. Journal of Chemical Education, 0, , .	2.3	5
48	Broad-spectrum <i>in vitro</i> activity of macrophage infectivity potentiator inhibitors against Gram-negative bacteria and <i>Leishmania major</i>. Journal of Antimicrobial Chemotherapy, 2022, 77, 1625-1634.	3.0	5
49	The Fibroblast Growth Factor (FGF) â€“ FGF Receptor Complex: Progress Towards the Physiological State. , 2006, , 83-116.		4
50	Studying the role of heparin in the formation of FGF1-FGFR2 complexes using gel chromatography. International Journal of Experimental Pathology, 2004, 85, A72-A72.	1.3	2
51	Cloning, expression, purification and preliminary crystallographic analysis of the short-chain dehydrogenase enzymes WbmF, WbmG and WbmH fromBordetella bronchiseptica. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 711-715.	0.7	2
52	Drug screening to identify compounds to act as co-therapies for the treatment of Burkholderia species. PLoS ONE, 2021, 16, e0248119.	2.5	2
53	Role of Heparan Sulfate in Fibroblast Growth Factor Signaling. , 2005, , 399-434.		1
54	Spinning sugars in antigen biosynthesis: characterization of the Coxiella burnetii and Streptomyces griseus TDP-sugar epimerases. Journal of Biological Chemistry, 2022, , 101903.	3.4	1