

Richard C Page

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67 papers	1,692 citations	25 h-index	40 g-index
72 ext. papers	1,957 ext. citations	5 avg, IF	4.63 L-index

#	Paper	IF	Citations
67	Different Conformations Revealed by NMR Underlie Resistance to Ceftazidime/Avibactam and Susceptibility to Meropenem and Imipenem among D179Y Variants of KPC β -Lactamase.. <i>Antimicrobial Agents and Chemotherapy</i> , 2022 , e0212421	5.9	1
66	Hydrolytically Stable Maleimide-End-Functionalized Polymers for Site-Specific Protein Conjugation. <i>Bioconjugate Chemistry</i> , 2021 , 32, 2447-2456	6.3	0
65	Carbapenem Use Is Driving the Evolution of Imipenemase 1 Variants. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65,	5.9	8
64	Cytosolic protein quality control machinery: Interactions of Hsp70 with a network of co-chaperones and substrates. <i>Experimental Biology and Medicine</i> , 2021 , 246, 1419-1434	3.7	5
63	Two-distinct polymer ubiquitin conjugates by photochemical grafting-from. <i>Macromolecular Chemistry and Physics</i> , 2021 , 222, 2100091	2.6	1
62	Spectroscopic and biochemical characterization of metallo- β -lactamase IMP-1 with dicarboxylic, sulfonyl, and thiol inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2021 , 40, 116183	3.4	2
61	Simple polymerization through oxygen at reduced volumes using oil and water. <i>Journal of Polymer Science</i> , 2021 , 59, 2530	2.4	0
60	Polymer Modification of Lipases, Substrate Interactions, and Potential Inhibition. <i>Biomacromolecules</i> , 2021 , 22, 309-318	6.9	2
59	Structural Comparisons of Cefotaximase (CTX-M-ase) Sub Family 1. <i>Frontiers in Microbiology</i> , 2021 , 12, 688509	5.7	1
58	An integrated biophysical approach to discovering mechanisms of NDM-1 inhibition for several thiol-containing drugs. <i>Journal of Biological Inorganic Chemistry</i> , 2020 , 25, 717-727	3.7	5
57	Mapping protein-polymer conformations in bioconjugates with atomic precision. <i>Chemical Science</i> , 2020 , 11, 6160-6166	9.4	6
56	Toward Next-Generation Biohybrid Catalyst Design: Influence of Degree of Polymerization on Enzyme Activity. <i>Bioconjugate Chemistry</i> , 2020 , 31, 939-947	6.3	8
55	Simple Derivatization of RAFT-Synthesized Styrene-Maleic Anhydride Copolymers for Lipid Disk Formulations. <i>Biomacromolecules</i> , 2020 , 21, 1274-1284	6.9	15
54	Bioconjugates ¶From a specialized past to a diverse future. <i>Polymer</i> , 2020 , 211, 123062	3.9	11
53	CHIP phosphorylation by protein kinase G enhances protein quality control and attenuates cardiac ischemic injury. <i>Nature Communications</i> , 2020 , 11, 5237	17.4	14
52	Polymer conjugation of proteins as a synthetic post-translational modification to impact their stability and activity. <i>Polymer Chemistry</i> , 2019 , 10, 434-454	4.9	37
51	2- and N6-functionalized adenosine-5'diphosphate analogs for the inhibition of mortalin. <i>FEBS Letters</i> , 2019 , 593, 2030-2039	3.8	3

50	Influence of substrates and inhibitors on the structure of carbapenemase-2. <i>Experimental Biology and Medicine</i> , 2019 , 244, 1596-1604	3.7	3
49	Biophysical Consequences of EVEN-PLUS Syndrome Mutations for the Function of Mortalin. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3383-3396	3.4	5
48	Structural and functional analysis of the <i>Acinetobacter baumannii</i> BIsA photoreceptor and regulatory protein. <i>PLoS ONE</i> , 2019 , 14, e0220918	3.7	4
47	A Single Salt Bridge in VIM-20 Increases Protein Stability and Antibiotic Resistance under Low-Zinc Conditions. <i>MBio</i> , 2019 , 10,	7.8	13
46	H, C, and N backbone resonance assignments for KPC-2, a class A serine- β -lactamase. <i>Biomolecular NMR Assignments</i> , 2019 , 13, 139-142	0.7	1
45	Guided inquiry activity linking thermodynamic parameters of protein unfolding to structure using differential scanning fluorimetry data in the biophysical chemistry classroom. <i>Biochemistry and Molecular Biology Education</i> , 2019 , 47, 67-75	1.3	1
44	Probing the Interaction of Aspergillomarasmine A with Metallo- β -lactamases NDM-1, VIM-2, and IMP-7. <i>ACS Infectious Diseases</i> , 2018 , 4, 135-145	5.5	37
43	Grafting strategies for the synthesis of active DNase I polymer biohybrids. <i>European Polymer Journal</i> , 2018 , 107, 15-24	5.2	7
42	Investigating the Mechanism of Horseradish Peroxidase as a RAFT-Initiase. <i>Polymers</i> , 2018 , 10,	4.5	13
41	A Noncanonical Metal Center Drives the Activity of the Sediminispirochaeta smaragdinae Metallo- β -lactamase SPS-1. <i>Biochemistry</i> , 2018 , 57, 5218-5229	3.2	10
40	Evolution of New Delhi metallo- β -lactamase (NDM) in the clinic: Effects of NDM mutations on stability, zinc affinity, and mono-zinc activity. <i>Journal of Biological Chemistry</i> , 2018 , 293, 12606-12618	5.4	59
39	Photochemistry for Well-Defined Polymers in Aqueous Media: From Fundamentals to Polymer Nanoparticles to Bioconjugates. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800093	4.8	35
38	Biocatalytic Polymerization, Bioinspired Surfactants, and Bioconjugates Using RAFT Polymerization. <i>ACS Symposium Series</i> , 2018 , 219-232	0.4	1
37	Disrupted structure and aberrant function of CHIP mediates the loss of motor and cognitive function in preclinical models of SCAR16. <i>PLoS Genetics</i> , 2018 , 14, e1007664	6	19
36	Extraction of Thermodynamic Parameters of Protein Unfolding Using Parallelized Differential Scanning Fluorimetry. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 553-558	6.4	37
35	Using PyMOL to Explore the Effects of pH on Noncovalent Interactions between Immunoglobulin G and Protein A: A Guided-Inquiry Biochemistry Activity. <i>Biochemistry and Molecular Biology Education</i> , 2017 , 45, 528-536	1.3	11
34	H, N and C resonance assignments for free and IEEVD peptide-bound forms of the tetratricopeptide repeat domain from the human E3 ubiquitin ligase CHIP. <i>Biomolecular NMR Assignments</i> , 2017 , 11, 5-9	0.7	
33	Unraveling the CHIP:Hsp70 complex as an information processor for protein quality control. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 133-141	4	19

32	Clinical Variants of New Delhi Metallo- β -Lactamase Are Evolving To Overcome Zinc Scarcity. <i>ACS Infectious Diseases</i> , 2017 , 3, 927-940	5.5	39
31	Polymer Conjugation to Enhance Cellulase Activity and Preserve Thermal and Functional Stability. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2638-2645	6.3	16
30	Dipicolinic Acid Derivatives as Inhibitors of New Delhi Metallo- β -Lactamase-1. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 7267-7283	8.3	94
29	Strategies for Biophysical Characterization of Protein-Polymer Conjugates. <i>Methods in Enzymology</i> , 2017 , 590, 93-114	1.7	5
28	Approaches for Conjugating Tailor-Made Polymers to Proteins. <i>Methods in Enzymology</i> , 2017 , 590, 193-224	2.4	7
27	Biochemical characterization and zinc binding group (ZBGs) inhibition studies on the catalytic domain of MMP7 (cdMMP7). <i>Journal of Inorganic Biochemistry</i> , 2016 , 165, 7-17	4.2	3
26	Well-Defined Macromolecules Using Horseradish Peroxidase as a RAFT Initiase. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 362-7	4.8	54
25	Investigating the Impact of Polymer Functional Groups on the Stability and Activity of Lysozyme-Polymer Conjugates. <i>Biomacromolecules</i> , 2016 , 17, 1123-34	6.9	72
24	Design, synthesis and evaluation of XZH-5 analogues as STAT3 inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 1348-55	3.4	14
23	Dissecting structural and electronic effects in inducible nitric oxide synthase. <i>Biochemical Journal</i> , 2015 , 467, 153-65	3.8	4
22	Why synthesize protein-polymer conjugates? The stability and activity of chymotrypsin-polymer bioconjugates synthesized by RAFT. <i>Polymer</i> , 2015 , 72, 382-386	3.9	31
21	The best of both worlds: active enzymes by grafting-to followed by grafting-from a protein. <i>Chemical Communications</i> , 2015 , 51, 5343-6	5.8	37
20	A bipartite interaction between Hsp70 and CHIP regulates ubiquitination of chaperoned client proteins. <i>Structure</i> , 2015 , 23, 472-482	5.2	54
19	Biochemical, mechanistic, and spectroscopic characterization of metallo- β -Lactamase VIM-2. <i>Biochemistry</i> , 2014 , 53, 7321-31	3.2	47
18	Crystal structure of the nucleotide-binding domain of mortalin, the mitochondrial Hsp70 chaperone. <i>Protein Science</i> , 2014 , 23, 833-42	6.3	28
17	Structural characterization of carbohydrate binding by LMAN1 protein provides new insight into the endoplasmic reticulum export of factors V (FV) and VIII (FVIII). <i>Journal of Biological Chemistry</i> , 2013 , 288, 20499-509	5.4	38
16	RACK1 interacts with filamin-A to regulate plasma membrane levels of the cystic fibrosis transmembrane conductance regulator. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 305, C111-20	5.1	4
15	Molecular basis of antiangiogenic thrombospondin-1 type 1 repeat domain interactions with CD36. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 1655-62	9.4	31

14	Crystallization and preliminary X-ray crystallographic analysis of the Bag2 amino-terminal domain from <i>Mus musculus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 647-51		5
13	Structural insights into the conformation and oligomerization of E2~ubiquitin conjugates. <i>Biochemistry</i> , 2012 , 51, 4175-87	3.2	58
12	Expression, purification and structural characterization of functionally replete thrombospondin-1 type 1 repeats in a bacterial expression system. <i>Protein Expression and Purification</i> , 2011 , 80, 253-9	2	15
11	Structure of filamin A immunoglobulin-like repeat 10 from <i>Homo sapiens</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011 , 67, 871-6		11
10	The inducible kinase IKKi is required for IL-17-dependent signaling associated with neutrophilia and pulmonary inflammation. <i>Nature Immunology</i> , 2011 , 12, 844-52	19.1	152
9	Biochemical basis of the interaction between cystic fibrosis transmembrane conductance regulator and immunoglobulin-like repeats of filamin. <i>Journal of Biological Chemistry</i> , 2010 , 285, 17166-76	5.4	18
8	Structure of an integrin α IIb β 3 transmembrane-cytoplasmic heterocomplex provides insight into integrin activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17729-34	11.5	127
7	Backbone structure of a small helical integral membrane protein: A unique structural characterization. <i>Protein Science</i> , 2009 , 18, 134-46	6.3	33
6	Stabilization of Reaction Intermediates in the Catalytic Cycle of Nitric Oxide Synthases. <i>FASEB Journal</i> , 2009 , 23, 890.1	0.9	
5	Structural basis of nucleotide exchange and client binding by the Hsp70 cochaperone Bag2. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 1309-17	17.6	69
4	Transmembrane helix uniformity examined by spectral mapping of torsion angles. <i>Structure</i> , 2008 , 16, 787-97	5.2	72
3	Stabilization and characterization of a heme-oxy reaction intermediate in inducible nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 33498-507	5.4	40
2	Lipid bilayers: an essential environment for the understanding of membrane proteins. <i>Magnetic Resonance in Chemistry</i> , 2007 , 45 Suppl 1, S2-11	2.1	45
1	Comprehensive evaluation of solution nuclear magnetic resonance spectroscopy sample preparation for helical integral membrane proteins. <i>Journal of Structural and Functional Genomics</i> , 2006 , 7, 51-64		74