Roger S. Goody

List of Publications by Year
in descending order

304 papers	17,678 citations	10389 72 h-index	20358 116 g-index
413 all docs	413 docs citations	413 times ranked	12768 citing authors

#	Article	IF	Citations
1	The Original Michaelis Constant: Translation of the 1913 Michaelisâ€“Menten Paper. Biochemistry, 2011, 50, 8264-8269.	2.5	1,008
2	Time-resolved X-ray crystallographic study of the conformational change in Ha-Ras p21 protein on GTP hydrolysis. Nature, 1990, 345, 309-315.	27.8	520
3	Kinetics of interaction of nucleotides with nucleotide-free H-ras p21. Biochemistry, 1990, 29, 6058-6065.	2.5	411
4	A toolkit and benchmark study for FRET-restrained high-precision structural modeling. Nature Methods, 2012, 9, 1218-1225.	19.0	400
5	The <i>Legionella</i> Effector Protein DrrA AMPylates the Membrane Traffic Regulator Rab1b. Science, 2010, 329, 946-949.	12.6	319
6	GTPase activity of Rab5 acts as a timer for endocytic membrane fusion. Nature, 1996, 383, 266-269.	27.8	317
7	The magnesium ion-dependent adenosine triphosphatase of myosin. Two-step processes of adenosine triphosphate association and adenosine diphosphate dissociation. Biochemical Journal, 1974, 141, 351-364.	3.7	251
8	Multiparameter single-molecule fluorescence spectroscopy reveals heterogeneity of HIV-1 reverse transcriptase:primer/template complexes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1655-1660.	7.1	224
9	Synthesis and properties of diastereoisomers of adenosine 5'-(O-1-thiotriphosphate) and adenosine 5'-(O-2-thiotriphosphate). Biochemistry, 1976, 15, 1685-1691.	2.5	220
10	The Kinetic Mechanism of Ran-Nucleotide Exchange Catalyzed by RCC1. Biochemistry, 1995, 34, 12543-12552.	2.5	219
11	Structure of the N6-adenine DNA methyltransferase M.TaqI in complex with DNA and a cofactor analog. Nature Structural Biology, 2001, 8, 121-125.	9.7	212
12	Formation of a Transition-State Analog of the Ras GTPase Reaction by RasÂGDP, Tetrafluoroaluminate, and GTPase-Activating Proteins. Science, 1996, 273, 115-117.	12.6	211
13	Human immunodeficiency virus reverse transcriptase substrate-induced conformational changes and the mechanism of inhibition by nonnucleoside inhibitors.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 8046-8049.	7.1	194
14	The Interaction of Bovine Pancreatic Deoxyribonuclease I and Skeletal Muscle Actin. FEBS Journal, 1980, 104, 367-379.	0.2	193
15	Structure of Rab GDP-Dissociation Inhibitor in Complex with Prenylated YPT1 GTPase. Science, 2003, 302, 646-650.	12.6	193
16	The pre-hydrolysis state of p21ras in complex with GTP: new insights into the role of water molecules in the GTP hydrolysis reaction of ras-like proteins. Structure, 1999, 7, 1311-S2.	3.3	186
17	Thiophosphate analogs of nucleoside di- and triphosphates. Journal of the American Chemical Society, 1971, 93, 6252-6257.	13.7	180
18	Proteins of Contractile Systems. Annual Review of Biochemistry, 1976, 45, 427-466.	11.1	180

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19	Synthetic Inhibitors of Adenylate Kinases in the Assays for ATPases and Phosphokinases. FEBS Journal, 1975, 57, 197-204.	0.2	178
20	GrpE Accelerates Nucleotide Exchange of the Molecular Chaperone DnaK with an Associative Displacement Mechanism. Biochemistry, 1997, 36, 3417-3422.	2.5	175
21	Molecular control of Rab activity by GEFs, GAPs and GDI. Small GTPases, 2018, 9, 5-21.	1.6	168
22	RabGEFs are a major determinant for specific Rab membrane targeting. Journal of Cell Biology, 2013, 200, 287-300.	5.2	166
23	Kinetics of acto-S1 interaction as a guide to a model for the crossbridge cycle. Journal of Muscle Research and Cell Motility, 1984, 5, 351-361.	2.0	160
24	Analysis of the eukaryotic prenylome by isoprenoid affinity tagging. Nature Chemical Biology, 2009, 5, 227-235.	8.0	160
25	RabGDI Displacement by DrrA from Legionella Is a Consequence of Its Guanine Nucleotide Exchange Activity. Molecular Cell, 2009, 36, 1060-1072.	9.7	160
26	Structure of the Rab7:REP-1 Complex. Cell, 2004, 117, 749-760.	28.9	153
27	Lipidated Ras and Rab Peptides and Proteinsâ€"Synthesis, Structure, and Function. Angewandte Chemie - International Edition, 2006, 45, 6622-6646.	13.8	137
28	Site-Selective Protein Immobilization by Staudinger Ligation. Angewandte Chemie - International Edition, 2006, 45, 1408-1412.	13.8	136
29	Single-Step Kinetics of HIV-1 Reverse Transcriptase Mutants Responsible for Virus Resistance to Nucleoside Inhibitors Zidovudine and 3-TCâ€. Biochemistry, 1997, 36, 10292-10300.	2.5	135
30	Individual Rate Constants for the Interaction of Ras Proteins with GTPase-Activating Proteins Determined by Fluorescence Spectroscopy. Biochemistry, 1997, 36, 4535-4541.	2.5	135
31	The bottleneck in AZT activation. Nature Medicine, 1997, 3, 922-924.	30.7	130
32	The structural and mechanistic basis for recycling of Rab proteins between membrane compartments. Cellular and Molecular Life Sciences, 2005, 62, 1657-1670.	5.4	126
33	Transient Kinetic Studies on the Interaction of Ras and the Ras-Binding Domain of c-Raf-1 Reveal Rapid Equilibration of the Complexâ€. Biochemistry, 1998, 37, 14292-14299.	2.5	124
34	Membrane targeting mechanism of Rab GTPases elucidated by semisynthetic protein probes. Nature Chemical Biology, 2010, 6, 534-540.	8.0	119
35	Structure of Rab Escort Protein-1 in Complex with Rab Geranylgeranyltransferase. Molecular Cell, 2003, 11, 483-494.	9.7	116
36	Kinetics of Interaction of Rab5 and Rab7 with Nucleotides and Magnesium Ions. Journal of Biological Chemistry, 1996, 271, 20470-20478.	3.4	108

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37	Structure of doubly prenylated Ypt1:GDI complex and the mechanism of GDI-mediated Rab recycling. EMBO Journal, 2006, 25, 13-23.	7.8	103
38	Reversible phosphocholination of Rab proteins by<i>Legionella pneumophila</i>effector proteins. EMBO Journal, 2012, 31, 1774-1784.	7.8	101
39	Internal motions in myosin. Biochemistry, 1979, 18, 4238-4244.	2.5	100
40	Is there a rate-limiting step before GTP cleavage by H-ras p21?. Biochemistry, 1991, 30, 11181-11185.	2.5	99
41	Interaction analysis of prenylated Rab GTPase with Rab escort protein and GDP dissociation inhibitor explains the need for both regulators. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12294-12299.	7.1	99
42	Insights into the phosphoryltransfer mechanism of human thymidylate kinase gained from crystal structures of enzyme complexes along the reaction coordinate. Structure, 2000, 8, 629-642.	3.3	96
43	Structural evidence that myosin heads may interact with two sites on F-actin. Nature, 1982, 299, 467-469.	27.8	95
44	Fluorescence and NMR investigations on the ligand binding properties of adenylate kinases. Biochemistry, 1990, 29, 7440-7450.	2.5	95
45	KRasG12C inhibitors in clinical trials: a short historical perspective. RSC Medicinal Chemistry, 2020, 11, 760-770.	3.9	95
46	Noncompaction of the Ventricular Myocardium Is Associated with a De Novo Mutation in the Î²-Myosin Heavy Chain Gene. PLoS ONE, 2007, 2, e1362.	2.5	94
47	Time-Resolved FTIR Studies of the GTPase Reaction of H-Ras P21 Reveal a Key Role for the Î²-Phosphate. Biochemistry, 1998, 37, 10263-10271.	2.5	93
48	Oriented Immobilization of Farnesylated Proteins by the Thiolâ€Ene Reaction. Angewandte Chemie - International Edition, 2010, 49, 1252-1257.	13.8	93
49	Highâ€affinity binding of phosphatidylinositol 4â€phosphate by <i>Legionella pneumophila</i> DrrA. EMBO Reports, 2010, 11, 598-604.	4.5	92
50	Excitatory signaling in bacterial probed by caged chemoeffectors. Biophysical Journal, 1993, 65, 2368-2382.	0.5	90
51	Nucleotide exchange via local protein unfoldingâ€"structure of Rab8 in complex with MSS4. EMBO Journal, 2006, 25, 1445-1455.	7.8	89
52	Three-dimensional structures and properties of a transforming and a nontransforming glycine-12 mutant of p21H-ras. Biochemistry, 1993, 32, 8411-8420.	2.5	88
53	Crystal structure of the GAP domain of Gyp1p: first insights into interaction with Ypt/Rab proteins. EMBO Journal, 2000, 19, 5105-5113.	7.8	88
54	Identification and Specificity Profiling of Protein Prenyltransferase Inhibitors Using New Fluorescent Phosphoisoprenoids. Journal of the American Chemical Society, 2006, 128, 2822-2835.	13.7	88

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55	HIV-1 Nef membrane association depends on charge, curvature, composition and sequence. Nature Chemical Biology, 2010, 6, 46-53.	8.0	88
56	Factors contributing to the inhibition of HIV reverse transcriptase by chain-terminating nucleotides in vitro and in vivo. FEBS Letters, 1991, 291, 1-5.	2.8	86
57	Structure of thymidylate kinase reveals the cause behind the limiting step in AZT activation. Nature Structural Biology, 1997, 4, 601-604.	9.7	86
58	GTPases involved in vesicular trafficking: Structures and mechanisms. Seminars in Cell and Developmental Biology, 2011, 22, 48-56.	5.0	86
59	The enzymatic synthesis of thiophosphate analogs of nucleotides. Biochimica Et Biophysica Acta - Biomembranes, 1972, 276, 155-161.	2.6	84
60	Cross-bridge conformation as revealed by x-ray diffraction studies on insect flight muscles with ATP analogues. Biophysical Journal, 1975, 15, 687-705.	0.5	84
61	Structural basis for efficient phosphorylation of 3'-azidothymidine monophosphate by Escherichia coli thymidylate kinase. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 14045-14050.	7.1	84
62	Î±-Synuclein interacts with the switch region of Rab8a in a Ser129 phosphorylation-dependent manner. Neurobiology of Disease, 2014, 70, 149-161.	4.4	84
63	The signal recognition particle receptor of Escherichia coli (FtsY) has a nucleotide exchange factor built into the GTPase domain. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 11339-11344.	7.1	82
64	Synthesis of proteinâ€"nucleic acid conjugates by expressed protein ligation. Chemical Communications, 2003, , 822-823.	4.1	81
65	A structural basis for Lowe syndrome caused by mutations in the Rab-binding domain of OCRL1. EMBO Journal, 2011, 30, 1659-1670.	7.8	80
66	The role of the hypervariable C-terminal domain in Rab GTPases membrane targeting. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2572-2577.	7.1	79
67	Direct Targeting of Rabâ€GTPaseâ€"Effector Interactions. Angewandte Chemie - International Edition, 2014, 53, 2498-2503.	13.8	79
68	Transient Kinetic Studies of the Mg++-dependent ATPase of Myosin and Its Proteolytic Subfragments. Cold Spring Harbor Symposia on Quantitative Biology, 1973, 37, 127-135.	1.1	78
69	Stereochemical aspects of the interaction of myosin and actomyosin with nucleotides. Journal of Muscle Research and Cell Motility, 1980, 1, 101-115.	2.0	77
70	Initiation of (-) strand DNA synthesis from tRNA(3Lys) on lentiviral RNAs: implications of specific HIV-1 RNA-tRNA(3Lys) interactions inhibiting primer utilization by retroviral reverse transcriptases.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 10063-10068.	7.1	77
71	Substrate and Product Structural Requirements for Binding of Nucleotides to H-ras p21: The Mechanism of Discrimination between Guanosine and Adenosine Nucleotides. Biochemistry, 1995, 34, 593-599.	2.5	75
72	Synthesis of ATP from ADP and Inorganic Phosphate at the Myosin-Subfragment 1 Active Site. FEBS Journal, 1974, 48, 287-295.	0.2	73

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73	The Binding Constant of ATP to Myosin S1 Fragment. FEBS Journal, 1977, 78, 317-324.	0.2	72
74	Interaction of fluorescently labeled dideoxynucleotides with HIV-1 reverse transcriptase. Biochemistry, 1991, 30, 3709-3715.	2.5	72
75	Dimerization Kinetics of HIV-1 and HIV-2 Reverse Transcriptase: A Two Step Process. Journal of Molecular Biology, 1995, 245, 508-521.	4.2	72
76	HIV-1 Reverse Transcriptase-Pseudoknot RNA Aptamer Interaction Has a Binding Affinity in the Low Picomolar Range Coupled with High Specificity. Journal of Biological Chemistry, 2000, 275, 18271-18278.	3.4	72
77	Protein LidA from Legionella is a Rab GTPase supereffector. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17945-17950.	7.1	72
78	X-ray Crystal Structure Analysis of the Catalytic Domain of the Oncogene Product p21H-rasComplexed with Caged GTP and Mant dGppNHp. Journal of Molecular Biology, 1995, 253, 132-150.	4.2	70
79	Refined model for primer/template binding by HIV-1 reverse transcriptase: pre-steady-state kinetic analyses of primer/template binding and nucleotide incorporation events distinguish between different binding modes depending on the nature of the nucleic acid substrate 1 1Edited by J. Karn. Journal of Molecular Biology, 1999, 292, 333-344.	4.2	70
80	Characterisation of the metal-ion-GDP complex at the active sites of transforming and nontransforming p21 proteins by observation of the 17O-Mn superhyperfine coupling and by kinetic methods. FEBS Journal, 1987, 162, 49-55.	0.2	69
81	Biochemical and crystallographic characterization of a complex of c-Ha-ras p21 and caged GTP with flash photolysis.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 7687-7690.	7.1	68
82	Crystal Structure of Yeast Thymidylate Kinase Complexed with the Bisubstrate Inhibitor P1-(5â€˜-Adenosyl) P5-(5â€˜-Thymidyl) Pentaphosphate (TP5A) at 2.0 Ã… Resolution:â€‰ Implications for Catalysis and AZT Activation,. Biochemistry, 1998, 37, 3677-3686.	2.5	68
83	Posttranslational modifications of Rab proteins cause effective displacement of GDP dissociation inhibitor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5621-5626.	7.1	68
84	Kinetic Analysis of Four HIV-1 Reverse Transcriptase Enzymes Mutated in the Primer Grip Region of p66. Journal of Biological Chemistry, 1997, 272, 17581-17587.	3.4	67
85	Vps9, Rabex-5 and DSS4: proteins with weak but distinct nucleotide-exchange activities for Rab proteins11Edited by J. Karn. Journal of Molecular Biology, 2001, 310, 141-156.	4.2	67
86	Exchange factors, effectors, GAPs and motor proteins: common thermodynamic and kinetic principles for different functions. European Biophysics Journal, 2002, 31, 268-274.	2.2	67
87	Kinetic and Thermodynamic Properties of the Ternary Complex between Fâ€actin, Myosin Subfragment 1 and Adenosine 5â€²â€[Î²,Î³â€imido]triphosphate. FEBS Journal, 1982, 128, 547-555.	0.2	67
88	RNase H activity of HIV reverse transcriptases is confined exclusively to the dimeric forms. FEBS Letters, 1992, 300, 97-100.	2.8	66
89	A phosphoryl transfer intermediate in the GTPase reaction of Ras in complex with its GTPase-activating protein. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13911-13916.	7.1	66
90	A Highly Efficient Strategy for Modification of Proteins at the Câ€…Terminus. Angewandte Chemie - International Edition, 2010, 49, 9417-9421.	13.8	66

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91	Affinity of guanine nucleotide binding proteins for their ligands: facts and artefacts. Trends in Biochemical Sciences, 1991, 16, 327-328.	7.5	65
92	The role of Cdc42 and Gic1 in the regulation of septin filament formation and dissociation. ELife, 2013, 2, e01085.	6.0	65
93	Exploiting the Substrate Tolerance of Farnesyltransferase for Site-Selective Protein Derivatization. ChemBioChem, 2007, 8, 408-423.	2.6	64
94	A New Potent HIV-1 Reverse Transcriptase Inhibitor. Journal of Biological Chemistry, 1999, 274, 24941-24946.	3.4	63
95	Synthesis of Fluorescently Labeled Mono- and Diprenylated Rab7 GTPase. Journal of the American Chemical Society, 2004, 126, 16368-16378.	13.7	63
96	Inhibition of platelet aggregation and the platelet release reaction by Î±, Ï‰ diadenosine polyphosphates. FEBS Letters, 1975, 54, 57-60.	2.8	61
97	Cross-bridges and the mechanism of muscle contraction. Biochimica Et Biophysica Acta - Reviews on Bioenergetics, 1983, 726, 13-39.	0.2	61
98	Intein-Mediated Synthesis of Geranylgeranylated Rab7 Protein in Vitro. Journal of the American Chemical Society, 2002, 124, 5648-5649.	13.7	61
99	Protease-Resistant and Cell-Permeable Double-Stapled Peptides Targeting the Rab8a GTPase. ACS Chemical Biology, 2016, 11, 2375-2382.	3.4	61
100	Adenylylation: renaissance of a forgotten post-translational modification. Trends in Biochemical Sciences, 2011, 36, 221-228.	7.5	60
101	Mechanism of Rab1b deactivation by the <i>Legionella pneumophila</i> GAP LepB. EMBO Reports, 2013, 14, 199-205.	4.5	60
102	Co-ordinated electron microscopy and X-ray studies of glycerinated insect flight muscle. I. X-ray diffraction monitoring during preparation for electron microscopy of muscle fibres fixed in rigor, in ATP and in AMPPNP. Journal of Muscle Research and Cell Motility, 1983, 4, 25-53.	2.0	59
103	Mechanisms of action of Rab proteins, key regulators of intracellular vesicular transport. Biological Chemistry, 2017, 398, 565-575.	2.5	59
104	Characterization of the ternary complex between Rab7, REP-1 and Rab geranylgeranyl transferase. FEBS Journal, 1999, 265, 160-170.	0.2	58
105	Total chemical synthesis of a functional interacting protein pair: The protooncogene H-Ras and the Ras-binding domain of its effector c-Raf1. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5075-5080.	7.1	57
106	Evaluation of Human Immunodeficiency Virus Type 1 Reverse Transcriptase Primer tRNA Binding by Fluorescence Spectroscopy:Â Specificity and Comparison to Primer/Template Binding. Biochemistry, 1996, 35, 4609-4618.	2.5	56
107	Modifying Human Thymidylate Kinase to Potentiate Azidothymidine Activation. Journal of Biological Chemistry, 1999, 274, 35289-35292.	3.4	56
108	Catalytic mechanism of a mammalian RabÂ·RabGAP complex in atomic detail. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21348-21353.	7.1	56

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109	Proximityâ€Triggered Covalent Stabilization of Lowâ€Affinity Protein Complexes In Vitro and In Vivo. Angewandte Chemie - International Edition, 2017, 56, 15737-15741.	13.8	56
110	Time-resolved cryo-electron microscopic study of the dissociation of actomyosin induced by photolysis of photolabile nucleotides. Journal of Molecular Biology, 1991, 219, 139-144.	4.2	55
111	Intermediates in the Guanine Nucleotide Exchange Reaction of Rab8 Protein Catalyzed by Guanine Nucleotide Exchange Factors Rabin8 and GRAB. Journal of Biological Chemistry, 2013, 288, 32466-32474.	3.4	55
112	Structures of RabGGTaseâ€"substrate/product complexes provide insights into the evolution of protein prenylation. EMBO Journal, 2008, 27, 2444-2456.	7.8	54
113	Kinetics of the Interaction of Translation Factor SelB fromEscherichia coli with Guanosine Nucleotides and Selenocysteine Insertion Sequence RNA. Journal of Biological Chemistry, 2000, 275, 20458-20466.	3.4	53
114	Sec2 is a Highly Efficient Exchange Factor for the Rab Protein Sec4. Journal of Molecular Biology, 2007, 365, 1359-1367.	4.2	52
115	X-ray titration of binding of Î², Î³-imido-ATP to myosin in insect flight muscle. Nature, 1976, 262, 613-615.	27.8	51
116	4â€²-Thio-oligo-Î²-D-ribonucleotides: synthesis of Î²-4â€²-thio-oligouridylates, nuclease resistance, base pairing properties, and interaction with HIV-1 reverse transcriptase. Nucleic Acids Research, 1993, 21, 1587-1593.	14.5	51
117	Rab GTPase Prenylation Hierarchy and Its Potential Role in Choroideremia Disease. PLoS ONE, 2013, 8, e81758.	2.5	51
118	bMERB domains are bivalent Rab8 family effectors evolved by gene duplication. ELife, 2016, 5, .	6.0	51
119	Temperature-dependent equilibrium between the open and closed conformation of the p66 subunit of HIV-1 reverse transcriptase revealed by site-directed spin labelling 1 1Edited by W. Baumeister. Journal of Molecular Biology, 2000, 301, 1029-1039.	4.2	50
120	Understanding and Exploiting Protein Prenyltransferases. ChemBioChem, 2010, 11, 1194-1201.	2.6	50
121	Kinetics of interaction of HIV reverse transcriptase with primer/template. Biochemistry, 1993, 32, 7966-7971.	2.5	49
122	Allosteric Regulation of Substrate Binding and Product Release in Geranylgeranyltransferase Type II. Biochemistry, 2001, 40, 268-274.	2.5	49
123	Guanine Nucleotide Exchange Factors Operate by a Simple Allosteric Competitive Mechanismâ€. Biochemistry, 2005, 44, 15423-15429.	2.5	49
124	Psoromic Acid is a Selective and Covalent Rab-Prenylation Inhibitor Targeting Autoinhibited RabGGTase. Journal of the American Chemical Society, 2012, 134, 7384-7391.	13.7	49
125	Relaxation of chemically skinned guinea pig taenia coli smooth muscle from rigor by photolytic release of adenosine-5â€²-triphosphate. Journal of Muscle Research and Cell Motility, 1987, 8, 377-385.	2.0	48
126	Pre-Steady-State Kinetic Characterization of RNA-Primed Initiation of Transcription by HIV-1 Reverse Transcriptase and Analysis of the Transition to a Processive DNA-Primed Polymerization Modeâ€. Biochemistry, 1998, 37, 13349-13358.	2.5	48

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127	Co-ordinated electron microscopy and X-ray studies of glycerinated insect flight muscle. II. Electron microscopy and image reconstruction of muscle fibres fixed in rigor, in ATP and in AMPPNP. Journal of Muscle Research and Cell Motility, 1983, 4, 55-81.	2.0	47
128	Crystallization and preliminary X-ray analysis of the human c-H-ras-oncogene product p21 complexed with GTP analogues. Journal of Molecular Biology, 1989, 206, 257-259.	4.2	47
129	Double Prenylation by RabGGTase Can Proceed without Dissociation of the Mono-prenylated Intermediate. Journal of Biological Chemistry, 2001, 276, 48631-48636.	3.4	47
130	Quantitative Analysis of Prenylated RhoA Interaction with Its Chaperone, RhoGDI. Journal of Biological Chemistry, 2012, 287, 26549-26562.	3.4	47
131	Potentiating AZT activation: structures of wild-type and mutant human thymidylate kinase suggest reasons for the mutantsâ€™ improved kinetics with the HIV prodrug metabolite AZTMP 1 1Edited by J. Karn. Journal of Molecular Biology, 2000, 304, 43-53.	4.2	44
132	Phosphoisoprenoid Binding Specificity of Geranylgeranyltransferase Type II. Biochemistry, 2000, 39, 12043-12052.	2.5	44
133	Biophysical Analysis of the Interaction of Rab6a GTPase with Its Effector Domains. Journal of Biological Chemistry, 2009, 284, 2628-2635.	3.4	44
134	Direct Readout of Protein-Protein Interactions by Mass Spectrometry from Protein-DNA Microarrays. Angewandte Chemie - International Edition, 2005, 44, 7635-7639.	13.8	43
135	Kinetics of nucleotide and metal ion interaction with G-actin. Biochemistry, 1988, 27, 1785-1792.	2.5	42
136	Synthetic human tRNAuuuLys3 and natural bovine tRNAsuuLys3 interact with HIV-1 reverse transcriptase and serve as specific primers for retroviral cDNA synthesis. Gene, 1992, 111, 183-197.	2.2	42
137	Characterization of the dimerization process of HIV-1 reverse transcriptase heterodimer using intrinsic protein fluorescence. FEBS Letters, 1993, 324, 153-158.	2.8	41
138	Conformational stability of dimeric HIV-1 and HIV-2 reverse transcriptases. Biochemistry, 1995, 34, 16337-16346.	2.5	41
139	Structure of the Disordered C Terminus of Rab7 GTPase Induced by Binding to the Rab Geranylgeranyl Transferase Catalytic Complex Reveals the Mechanism of Rab Prenylation. Journal of Biological Chemistry, 2009, 284, 13185-13192.	3.4	40
140	Oneâ€Pot Dualâ€Labeling of a Protein by Two Chemoselective Reactions. Angewandte Chemie - International Edition, 2011, 50, 8287-8290.	13.8	40
141	Semi-synthetic Rab proteins as tools for studying intermolecular interactions. FEBS Letters, 2000, 468, 155-158.	2.8	39
142	A Structural Model of the GDP Dissociation Inhibitor Rab Membrane Extraction Mechanism. Journal of Biological Chemistry, 2008, 283, 18377-18384.	3.4	39
143	Interaction of Guanosine Nucleotides and Their Analogs with Elongation Factor Tu from Thermus thermophilus. Biochemistry, 1995, 34, 12535-12542.	2.5	38
144	Combining Chemical and Biological Techniques to Produce Modified Proteins. ChemBioChem, 2002, 3, 399.	2.6	38

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145	Studies on the structure and mechanism of H-ras p21. Philosophical Transactions of the Royal Society B: Biological Sciences, 1992, 336, 3-11.	4.0	37
146	Selective spin diffusion. A novel method for studying motional properties of biopolymers in solution. FEBS Letters, 1978, 96, 287-290.	2.8	36
147	Rab-Subfamily-Specific Regions of Ypt7p Are Structurally Different from Other RabGTPases. Structure, 2002, 10, 569-579.	3.3	36
148	[24] Triggering methods in crystallographic enzyme kinetics. Methods in Enzymology, 1997, 277, 467-490.	1.0	35
149	Development of Selective, Potent RabGGTase Inhibitors. Journal of Medicinal Chemistry, 2012, 55, 8330-8340.	6.4	34
150	Stereochemistry of the elongation factor Tu . GTP complex. FEBS Journal, 1983, 135, 237-241.	0.2	33
151	Phosphoisoprenoids Modulate Association of Rab Geranylgeranyltransferase with REP-1. Journal of Biological Chemistry, 2001, 276, 48637-48643.	3.4	33
152	Farnesylation of the SNARE Protein Ykt6 Increases Its Stability and Helical Folding. Journal of Molecular Biology, 2008, 377, 1334-1345.	4.2	33
153	Probing protein function by chemical modification. Journal of Peptide Science, 2010, 16, 514-523.	1.4	33
154	Nucleosidesâ€"LXVIII. Tetrahedron, 1970, 26, 3883-3903.	1.9	32
155	Synthesis of Functionalized Rab GTPases by a Combination of Solution- or Solid-Phase Lipopeptide Synthesis with Expressed Protein Ligation. Chemistry - A European Journal, 2005, 11, 2756-2772.	3.3	32
156	A generic building block for C- and N-terminal protein-labeling and protein-immobilization. Bioorganic and Medicinal Chemistry, 2006, 14, 6288-6306.	3.0	32
157	The Structure of the EF-Tu . GDP . Me2+ Complex. FEBS Journal, 1982, 124, 109-115.	0.2	31
158	High-resolution crystal structure of S. cerevisiae Ypt51(Î"C15)-GppNHp, a small GTP-binding protein involved in regulation of endocytosis. Journal of Molecular Biology, 2000, 298, 111-121.	4.2	31
159	Membrane extraction of Rab proteins by GDP dissociation inhibitor characterized using attenuated total reflection infrared spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13380-13385.	7.1	31
160	Thiophosphate-Analogues and 1-N-Oxides of ATP and ADP in Mitochondrial Translocation and Phosphoryl-Transfer Reactions. FEBS Journal, 1973, 40, 485-491.	0.2	30
161	Template. Phosphorothioate oligonucleotides duplexes as inhibitors of HIV-1 reverse transcriptase. Biochemical and Biophysical Research Communications, 1992, 186, 1249-1256.	2.1	30
162	Moderate discrimination of REP-1 between Rab7â‹…GDP and Rab7â‹…GTP arises from a difference of an order of magnitude in dissociation rates1. FEBS Letters, 1998, 425, 460-464.	2.8	30

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163	The structure of insect flight muscle in the presence of AMPPNP. Journal of Muscle Research and Cell Motility, 1987, 8, 473-503.	2.0	29
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