E Neil G Marsh

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157
papers

5,422
citations

45
h-index

6,022
ext. papers

6,022
ext. citations

6,022
avg, IF

L-index

#	Paper	IF	Citations
157	Role of zinc in human islet amyloid polypeptide aggregation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8973-83	16.4	181
156	The structure of ActVA-Orf6, a novel type of monooxygenase involved in actinorhodin biosynthesis. <i>EMBO Journal</i> , 2003 , 22, 205-15	13	135
155	Using (19)F NMR to probe biological interactions of proteins and peptides. <i>ACS Chemical Biology</i> , 2014 , 9, 1242-50	4.9	125
154	Coupling of cobalt-carbon bond homolysis and hydrogen atom abstraction in adenosylcobalamin-dependent glutamate mutase. <i>Biochemistry</i> , 1998 , 37, 11864-72	3.2	125
153	Purification and characterization of clavaminate synthase from Streptomyces clavuligerus: an unusual oxidative enzyme in natural product biosynthesis. <i>Biochemistry</i> , 1990 , 29, 6499-508	3.2	119
152	Fluorinated proteins: from design and synthesis to structure and stability. <i>Accounts of Chemical Research</i> , 2014 , 47, 2878-86	24.3	117
151	Alternative pathways of human islet amyloid polypeptide aggregation distinguished by (19)f nuclear magnetic resonance-detected kinetics of monomer consumption. <i>Biochemistry</i> , 2012 , 51, 8154	-6 2 .2	106
150	Cloning and sequencing of glutamate mutase component S from Clostridium tetanomorphum. Homologies with other cobalamin-dependent enzymes. <i>FEBS Letters</i> , 1992 , 310, 167-70	3.8	102
149	Immobilized enzymes: understanding enzyme - surface interactions at the molecular level. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 9539-9551	3.9	98
148	Using fluorous amino acids to modulate the biological activity of an antimicrobial peptide. <i>ChemBioChem</i> , 2008 , 9, 370-3	3.8	98
147	Modulating protein structure with fluorous amino acids: increased stability and native-like structure conferred on a 4-helix bundle protein by hexafluoroleucine. <i>Journal of the American Chemical Society</i> , 2006 , 128, 337-43	16.4	93
146	Adenosylcobalamin-dependent isomerases: new insights into structure and mechanism. <i>Current Opinion in Chemical Biology</i> , 2001 , 5, 499-505	9.7	90
145	Oxygen-independent decarbonylation of aldehydes by cyanobacterial aldehyde decarbonylase: a new reaction of diiron enzymes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7148-52	16.4	89
144	Fluorous effect in proteins: de novo design and characterization of a four-alpha-helix bundle protein containing hexafluoroleucine. <i>Biochemistry</i> , 2004 , 43, 16277-84	3.2	88
143	Resolution of oligomeric species during the aggregation of All-40 using (19)F NMR. <i>Biochemistry</i> , 2013 , 52, 1903-12	3.2	85
142	High-resolution NMR characterization of low abundance oligomers of amyloid-dwithout purification. <i>Scientific Reports</i> , 2015 , 5, 11811	4.9	82
141	Two isozymes of clavaminate synthase central to clavulanic acid formation: cloning and sequencing of both genes from Streptomyces clavuligerus. <i>Biochemistry</i> , 1992 , 31, 12648-57	3.2	82

(2004-2016)

140	Flexible, symmetry-directed approach to assembling protein cages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 8681-6	11.5	77	
139	Adenosyl radical: reagent and catalyst in enzyme reactions. <i>ChemBioChem</i> , 2010 , 11, 604-21	3.8	77	
138	Production of propane and other short-chain alkanes by structure-based engineering of ligand specificity in aldehyde-deformylating oxygenase. <i>ChemBioChem</i> , 2013 , 14, 1204-8	3.8	74	
137	Using fluorous amino acids to probe the effects of changing hydrophobicity on the physical and biological properties of the beta-hairpin antimicrobial peptide protegrin-1. <i>Biochemistry</i> , 2008 , 47, 9243	i- 3 56	72	
136	Fluorine: a new element in protein design. <i>Protein Science</i> , 2012 , 21, 453-62	6.3	69	
135	Structural basis for the enhanced stability of highly fluorinated proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4810-5	11.5	69	
134	Isofunctional enzymes PAD1 and UbiX catalyze formation of a novel cofactor required by ferulic acid decarboxylase and 4-hydroxy-3-polyprenylbenzoic acid decarboxylase. <i>ACS Chemical Biology</i> , 2015 , 10, 1137-44	4.9	65	
133	How a protein prepares for B12 binding: structure and dynamics of the B12-binding subunit of glutamate mutase from Clostridium tetanomorphum. <i>Structure</i> , 1998 , 6, 1021-33	5.2	63	
132	Identification of a flavin:NADH oxidoreductase involved in the biosynthesis of actinorhodin. Purification and characterization of the recombinant enzyme. <i>Journal of Biological Chemistry</i> , 1995 , 270, 17339-43	5.4	63	
131	Molecular orientation of enzymes attached to surfaces through defined chemical linkages at the solid-liquid interface. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12660-9	16.4	62	
130	Oxygen-independent alkane formation by non-heme iron-dependent cyanobacterial aldehyde decarbonylase: investigation of kinetics and requirement for an external electron donor. <i>Biochemistry</i> , 2011 , 50, 10743-50	3.2	61	
129	Using nonnatural amino acids to control metal-coordination number in three-stranded coiled coils. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2864-8	16.4	61	
128	Noncovalent self-assembly of a heterotetrameric diiron protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5150-4	11.5	58	
127	Time-resolved measurements of the photolysis and recombination of adenosylcobalamin bound to glutamate mutase. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 18146-52	3.4	57	
126	Probing the mechanism of cyanobacterial aldehyde decarbonylase using a cyclopropyl aldehyde. Journal of the American Chemical Society, 2013 , 135, 5234-7	16.4	55	
125	Fluorinea new element in the design of membrane-active peptides. <i>Molecular BioSystems</i> , 2009 , 5, 114	3-7	54	
124	Recent advances in radical SAM enzymology: new structures and mechanisms. <i>ACS Chemical Biology</i> , 2014 , 9, 1929-38	4.9	51	
123	S-adenosylmethionine radical enzymes. <i>Bioorganic Chemistry</i> , 2004 , 32, 326-40	5.1	51	

122	Control of metal coordination number in de novo designed peptides through subtle sequence modifications. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9178-9	16.4	51
121	Using fluorine nuclear magnetic resonance to probe the interaction of membrane-active peptides with the lipid bilayer. <i>Biochemistry</i> , 2010 , 49, 5760-5	3.2	49
120	Photolysis and recombination of adenosylcobalamin bound to glutamate mutase. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1598-9	16.4	49
119	A radical approach to enzyme catalysis. <i>BioEssays</i> , 1995 , 17, 431-41	4.1	49
118	Effects of Peptide Immobilization Sites on the Structure and Activity of Surface-Tethered Antimicrobial Peptides. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7146-7155	3.8	48
117	Adenosylcobalamin-dependent glutamate mutase: examination of substrate and coenzyme binding in an engineered fusion protein possessing simplified subunit structure and kinetic properties. <i>Biochemistry</i> , 1997 , 36, 14939-45	3.2	47
116	How enzymes control the reactivity of adenosylcobalamin: effect on coenzyme binding and catalysis of mutations in the conserved histidine-aspartate pair of glutamate mutase. <i>Biochemistry</i> , 1997 , 36, 7884-9	3.2	46
115	Aldehyde Decarbonylases: Enigmatic Enzymes of Hydrocarbon Biosynthesis. ACS Catalysis, 2013, 3,	13.1	45
114	Covalent Metal Peptide Framework Compounds That Extend in One and Two Dimensions. <i>Crystal Growth and Design</i> , 2008 , 8, 296-303	3.5	45
113	Mechanism of Glutamate Mutase: Identification and Kinetic Competence of Acrylate and Glycyl Radical as Intermediates in the Rearrangement of Glutamate to Methylaspartate. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10732-10733	16.4	45
112	Structures of benzylsuccinate synthase elucidate roles of accessory subunits in glycyl radical enzyme activation and activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10161-6	11.5	44
111	The fluorous effect in proteins: properties of alpha4F6, a 4-alpha-helix bundle protein with a fluorocarbon core. <i>Biochemistry</i> , 2008 , 47, 4484-90	3.2	43
110	Adenosylcobalamin enzymes: theory and experiment begin to converge. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012 , 1824, 1154-64	4	41
109	Engineering protein stability and specificity using fluorous amino acids: the importance of packing effects. <i>Biochemistry</i> , 2009 , 48, 10810-7	3.2	41
108	Review Article Coenzyme-B(12)-Dependent Glutamate Mutase. <i>Bioorganic Chemistry</i> , 2000 , 28, 176-189	5.1	41
107	Pre-steady-state kinetic investigation of intermediates in the reaction catalyzed by adenosylcobalamin-dependent glutamate mutase. <i>Biochemistry</i> , 1999 , 38, 13684-91	3.2	40
106	Mechanism of benzylsuccinate synthase: stereochemistry of toluene addition to fumarate and maleate. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8608-9	16.4	39
105	Tritium isotope effects in adenosylcobalamin-dependent glutamate mutase: implications for the mechanism. <i>Biochemistry</i> , 1995 , 34, 7542-7	3.2	37

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104	ProteinBoenzyme interactions in adenosylcobalamin-dependent glutamate mutase. <i>Biochemical Journal</i> , 2001 , 355, 131-137	3.8	36
103	Symmetry-Directed Self-Assembly of a Tetrahedral Protein Cage Mediated by de Novo-Designed Coiled Coils. <i>ChemBioChem</i> , 2017 , 18, 1888-1892	3.8	35
102	Cation-pi interactions studied in a model coiled-coil peptide. <i>Protein Science</i> , 2004 , 13, 2244-51	6.3	35
101	Coiled-Coil-Mediated Assembly of an Icosahedral Protein Cage with Extremely High Thermal and Chemical Stability. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9207-9216	16.4	34
100	Molecular-Level Insights into Orientation-Dependent Changes in the Thermal Stability of Enzymes Covalently Immobilized on Surfaces. <i>Langmuir</i> , 2015 , 31, 6145-53	4	34
99	Influence of fluorination on the thermodynamics of protein folding. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13027-34	16.4	34
98	A short and efficient synthesis of L-5,5,5,5,5,5,5,6,6,0 hexafluoroleucine from N-Cbz-L-serine. <i>Organic Letters</i> , 2002 , 4, 4281-3	6.2	34
97	Mechanism of the Novel Prenylated Flavin-Containing Enzyme Ferulic Acid Decarboxylase Probed by Isotope Effects and Linear Free-Energy Relationships. <i>Biochemistry</i> , 2016 , 55, 2857-63	3.2	33
96	Investigating the Effect of Two-Point Surface Attachment on Enzyme Stability and Activity. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16560-16569	16.4	33
95	Aldehyde-forming fatty acyl-CoA reductase from cyanobacteria: expression, purification and characterization of the recombinant enzyme. <i>FEBS Journal</i> , 2013 , 280, 4773-81	5.7	32
94	Evaluation of a symmetry-based strategy for assembling protein complexes. RSC Advances, 2011, 1, 10	0 4,1 01	231
93	Mechanism of benzylsuccinate synthase probed by substrate and isotope exchange. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16056-7	16.4	31
92	Conversion of (3S,4R)-tetrahydrodaidzein to (3S)-equol by THD reductase: proposed mechanism involving a radical intermediate. <i>Biochemistry</i> , 2010 , 49, 5582-7	3.2	29
91	Subunit structure of benzylsuccinate synthase. <i>Biochemistry</i> , 2009 , 48, 1284-92	3.2	29
90	Effect of immobilization site on the orientation and activity of surface-tethered enzymes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1021-1029	3.6	29
89	Evidence for a 1,3-Dipolar Cyclo-addition Mechanism in the Decarboxylation of Phenylacrylic Acids Catalyzed by Ferulic Acid Decarboxylase. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10972-10	09754	28
88	A novel reaction between adenosylcobalamin and 2-methyleneglutarate catalyzed by glutamate mutase. <i>Biochemistry</i> , 2002 , 41, 3200-6	3.2	28
87	The B(12)-binding subunit of glutamate mutase from Clostridium tetanomorphum traps the nucleotide moiety of coenzyme B(12). <i>Journal of Molecular Biology</i> , 2001 , 309, 777-91	6.5	28

86	Tritium partitioning and isotope effects in adenosylcobalamin-dependent glutamate mutase. <i>Biochemistry</i> , 2001 , 40, 13060-7	3.2	28
85	Engineered Surface-Immobilized Enzyme that Retains High Levels of Catalytic Activity in Air. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2872-2875	16.4	27
84	Substrate-bound structures of benzylsuccinate synthase reveal how toluene is activated in anaerobic hydrocarbon degradation. <i>Journal of Biological Chemistry</i> , 2015 , 290, 22398-408	5.4	27
83	Insights into substrate and metal binding from the crystal structure of cyanobacterial aldehyde deformylating oxygenase with substrate bound. <i>ACS Chemical Biology</i> , 2014 , 9, 2584-93	4.9	27
82	Does Viperin Function as a Radical S-Adenosyl-l-methionine-dependent Enzyme in Regulating Farnesylpyrophosphate Synthase Expression and Activity?. <i>Journal of Biological Chemistry</i> , 2016 , 291, 26806-26815	5.4	25
81	Characterization of a highly flexible self-assembling protein system designed to form nanocages. <i>Protein Science</i> , 2014 , 23, 190-9	6.3	25
80	Surface orientation control of site-specifically immobilized nitro-reductase (NfsB). <i>Langmuir</i> , 2014 , 30, 5930-8	4	25
79	Using fluorine nuclear magnetic resonance to probe changes in the structure and dynamics of membrane-active peptides interacting with lipid bilayers. <i>Biochemistry</i> , 2011 , 50, 5979-87	3.2	25
78	Deuterium isotope effects in the unusual addition of toluene to fumarate catalyzed by benzylsuccinate synthase. <i>Biochemistry</i> , 2006 , 45, 13932-8	3.2	25
77	Solvent isotope effects on alkane formation by cyanobacterial aldehyde deformylating oxygenase and their mechanistic implications. <i>Biochemistry</i> , 2014 , 53, 5537-43	3.2	24
76	Viperin interacts with the kinase IRAK1 and the E3 ubiquitin ligase TRAF6, coupling innate immune signaling to antiviral ribonucleotide synthesis. <i>Journal of Biological Chemistry</i> , 2019 , 294, 6888-6898	5.4	23
75	Mechanistic insights from reaction of Exiranyl-aldehydes with cyanobacterial aldehyde deformylating oxygenase. <i>ACS Chemical Biology</i> , 2014 , 9, 570-7	4.9	23
74	Isotope effects for deuterium transfer between substrate and coenzyme in adenosylcobalamin-dependent glutamate mutase. <i>Biochemistry</i> , 2005 , 44, 2686-91	3.2	23
73	Viperin: An ancient radical SAM enzyme finds its place in modern cellular metabolism and innate immunity. <i>Journal of Biological Chemistry</i> , 2020 , 295, 11513-11528	5.4	22
72	Extending fluorescence microscopy into anaerobic environments. <i>Current Opinion in Chemical Biology</i> , 2019 , 51, 98-104	9.7	22
71	Effect of Surface Crowding and Surface Hydrophilicity on the Activity, Stability and Molecular Orientation of a Covalently Tethered Enzyme. <i>Langmuir</i> , 2017 , 33, 7152-7159	4	22
70	Perfluoro-tert-butyl-homoserine as a sensitive 19F NMR reporter for peptide-membrane interactions in solution. <i>Journal of Peptide Science</i> , 2013 , 19, 308-14	2.1	22
69	Evidence for coupled motion and hydrogen tunneling of the reaction catalyzed by glutamate mutase. <i>Biochemistry</i> , 2007 , 46, 883-9	3.2	22

(2007-2004)

68	Pre-steady-state measurement of intrinsic secondary tritium isotope effects associated with the homolysis of adenosylcobalamin and the formation of 5Udeoxyadensosine in glutamate mutase. <i>Biochemistry</i> , 2004 , 43, 2155-8	3.2	22	
67	Electronic structure studies of the adenosylcobalamin cofactor in glutamate mutase. <i>Biochemistry</i> , 2005 , 44, 15167-81	3.2	20	
66	Toward an improved understanding of the glutamate mutase system. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1623-33	16.4	19	
65	Using Nonnatural Amino Acids to Control Metal-Coordination Number in Three-Stranded Coiled Coils. <i>Angewandte Chemie</i> , 2006 , 118, 2930-2934	3.6	19	
64	Molecular Mechanisms of Interactions between Monolayered Transition Metal Dichalcogenides and Biological Molecules. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9980-9988	16.4	18	
63	Protein-coenzyme interactions in adenosylcobalamin-dependent glutamate mutase. <i>Biochemical Journal</i> , 2001 , 355, 131-7	3.8	18	
62	The role of the active site glutamate in the rearrangement of glutamate to 3-methylaspartate catalyzed by adenosylcobalamin-dependent glutamate mutase. <i>Chemistry and Biology</i> , 2001 , 8, 1143-9		18	
61	The reaction of the substrate analog 2-ketoglutarate with adenosylcobalamin-dependent glutamate mutase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 11619-22	5.4	18	
60	Cloning and sequencing of glutamate mutase component E from Clostridium tetanomorphum. Organization of the mut genes. <i>FEBS Letters</i> , 1993 , 317, 44-8	3.8	18	
59	Crystallization and preliminary diffraction data for adenosylcobalamin-dependent methylmalonyl-CoA mutase from Propionibacterium shermanii. <i>Journal of Molecular Biology</i> , 1988 , 200, 421-2	6.5	18	
58	Simultaneous Observation of the Orientation and Activity of Surface-Immobilized Enzymes. <i>Langmuir</i> , 2018 , 34, 9133-9140	4	17	
57	Rearrangement of L-2-hydroxyglutarate to L-threo-3-methylmalate catalyzed by adenosylcobalamin-dependent glutamate mutase. <i>Biochemistry</i> , 2000 , 39, 10340-6	3.2	17	
56	A Label-free Sirtuin 1 Assay based on Droplet-Electrospray Ionization Mass Spectrometry. <i>Analytical Methods</i> , 2016 , 8, 3458-3465	3.2	17	
55	Evaluation of de novo-designed coiled coils as off-the-shelf components for protein assembly. <i>Molecular Systems Design and Engineering</i> , 2017 , 2, 140-148	4.6	16	
54	Role of active site residues in promoting cobalt-carbon bond homolysis in adenosylcobalamin-dependent mutases revealed through experiment and computation. <i>Biochemistry</i> , 2014 , 53, 169-77	3.2	16	
53	Hydrogen tunneling in adenosylcobalamin-dependent glutamate mutase: evidence from intrinsic kinetic isotope effects measured by intramolecular competition. <i>Biochemistry</i> , 2010 , 49, 3168-73	3.2	16	
52	Heme oxygenase-2 is post-translationally regulated by heme occupancy in the catalytic site. <i>Journal of Biological Chemistry</i> , 2020 , 295, 17227-17240	5.4	15	
51	Intrinsic deuterium kinetic isotope effects in glutamate mutase measured by an intramolecular competition experiment. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8455-9	16.4	14	

50	Immobilization of enzyme on a polymer surface. Surface Science, 2016, 648, 53-59	1.8	13
49	Role of Arg100 in the active site of adenosylcobalamin-dependent glutamate mutase. <i>Biochemistry</i> , 2004 , 43, 3238-45	3.2	13
48	Folate binding protein: therapeutic natural nanotechnology for folic acid, methotrexate, and leucovorin. <i>Nanoscale</i> , 2017 , 9, 2603-2615	7.7	12
47	Substrate-Triggered Exosite Binding: Synergistic Dendrimer/Folic Acid Action for Achieving Specific, Tight-Binding to Folate Binding Protein. <i>Biomacromolecules</i> , 2016 , 17, 922-7	6.9	12
46	Metal-dependent assembly of a protein nano-cage. <i>Protein Science</i> , 2019 , 28, 1620-1629	6.3	12
45	An Unusual Iron-Dependent Oxidative Deformylation Reaction Providing Insight into Hydrocarbon Biosynthesis in Nature. <i>ACS Catalysis</i> , 2016 , 6, 3293-3300	13.1	12
44	Folate binding protein Dutlook for drug delivery applications. Chinese Chemical Letters, 2015, 26, 426-4	1 3% .1	11
43	Comparison of the structures and stabilities of coiled-coil proteins containing hexafluoroleucine and t-butylalanine provides insight into the stabilizing effects of highly fluorinated amino acid side-chains. <i>Protein Science</i> , 2012 , 21, 1705-15	6.3	11
42	Pre-steady-state kinetic studies on the Glu171Gln active site mutant of adenosylcobalamin-dependent glutamate mutase. <i>Biochemistry</i> , 2002 , 41, 15803-9	3.2	11
41	The Photoactive Excited State of the B-Based Photoreceptor CarH. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 10732-10738	3.4	11
40	Kinetic Characterization of Prenyl-Flavin Synthase from Saccharomyces cerevisiae. <i>Biochemistry</i> , 2018 , 57, 696-700	3.2	11
39	Giving superabsorbent polymers a second life as pressure-sensitive adhesives. <i>Nature Communications</i> , 2021 , 12, 4524	17.4	11
38	Targeting viperin to the mitochondrion inhibits the thiolase activity of the trifunctional enzyme complex. <i>Journal of Biological Chemistry</i> , 2020 , 295, 2839-2849	5.4	10
37	Conjugation Dependent Interaction of Folic Acid with Folate Binding Protein. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2350-2360	6.3	10
36	Molecular Structure of the Surface-Immobilized Super Uranyl Binding Protein. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 7706-7716	3.4	10
35	Elaborating a coiled-coil-assembled octahedral protein cage with additional protein domains. <i>Protein Science</i> , 2018 , 27, 1893-1900	6.3	9
34	Insights into the mechanisms of adenosylcobalamin (coenzyme B12)-dependent enzymes from rapid chemical quench experiments. <i>Biochemical Society Transactions</i> , 2009 , 37, 336-42	5.1	9
33	Reaction of adenosylcobalamin-dependent glutamate mutase with 2-thiolglutarate. <i>Biochemistry</i> , 2006 , 45, 11650-7	3.2	9

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32	A protein pre-organized to trap the nucleotide moiety of coenzyme B(12): refined solution structure of the B(12)-binding subunit of glutamate mutase from Clostridium tetanomorphum. <i>ChemBioChem</i> , 2001 , 2, 643-55	3.8	9
31	Imaging living obligate anaerobic bacteria with bilin-binding fluorescent proteins. <i>Current Research in Microbial Sciences</i> , 2020 , 1, 1-6	3.3	8
30	Oxygen-Independent Decarbonylation of Aldehydes by Cyanobacterial Aldehyde Decarbonylase: A New Reaction of Diiron Enzymes. <i>Angewandte Chemie</i> , 2011 , 123, 7286-7290	3.6	8
29	Synthesis of Mono- and Di-Deuterated (2S, 3S)-3-Methylaspartic Acids to Facilitate Measurement of Intrinsic Kinetic Isotope Effects in Enzymes. <i>Tetrahedron</i> , 2007 , 63, 4663-4668	2.4	8
28	Recent progress in hydrocarbon biofuel synthesis: Pathways and enzymes. <i>Chinese Chemical Letters</i> , 2015 , 26, 431-434	8.1	7
27	Interactions between Viperin, Vesicle-Associated Membrane Protein A, and Hepatitis C Virus Protein NS5A Modulate Viperin Activity and NS5A Degradation. <i>Biochemistry</i> , 2020 , 59, 780-789	3.2	7
26	Crystallization and preliminary X-ray diffraction studies of a monooxygenase from Streptomyces coelicolor A3(2) involved in the biosynthesis of the polyketide actinorhodin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 481-3		7
25	Probing protein aggregation at buried interfaces: distinguishing between adsorbed protein monomers, dimers, and a monomer-dimer mixture <i>Chemical Science</i> , 2022 , 13, 975-984	9.4	7
24	Viperin binds STING and enhances the type-I interferon response following dsDNA detection. <i>Immunology and Cell Biology</i> , 2021 , 99, 373-391	5	7
23	Symmetry-Directed Design of Protein Cages and Protein Lattices and Their Applications. <i>Sub-Cellular Biochemistry</i> , 2017 , 83, 195-224	5.5	6
22	Viperin binds STING and enhances the type-I interferon response following dsDNA detection		6
21	Comparison of the influence of humidity and D-mannitol on the organization of tetraethylene glycol-terminated self-assembled monolayers and immobilized antimicrobial peptides. <i>Langmuir</i> , 2014 , 30, 7143-51	4	5
20	Adenosylcobalamin-dependent glutamate mutase: pre-steady-state kinetic methods for investigating reaction mechanism. <i>Methods in Enzymology</i> , 2002 , 354, 380-99	1.7	5
19	Adenosylcobalamin-dependent glutamate mutase: properties of a fusion protein in which the cobalamin-binding subunit is linked to the catalytic subunit. <i>Biochemical Journal</i> , 1996 , 320 (Pt 3), 825-3	в д .8	5
19	Adenosylcobalamin-dependent glutamate mutase: properties of a fusion protein in which the cobalamin-binding subunit is linked to the catalytic subunit. <i>Biochemical Journal</i> , 1996 , 320 (Pt 3), 825-320. Design, synthesis, and study of fluorinated proteins. <i>Methods in Molecular Biology</i> , 2014 , 1216, 89-116.	1.4	5
	cobalamin-binding subunit is linked to the catalytic subunit. <i>Biochemical Journal</i> , 1996 , 320 (Pt 3), 825-3		
18	cobalamin-binding subunit is linked to the catalytic subunit. <i>Biochemical Journal</i> , 1996 , 320 (Pt 3), 825-32. Design, synthesis, and study of fluorinated proteins. <i>Methods in Molecular Biology</i> , 2014 , 1216, 89-116. Changes in the free energy profile of glutamate mutase imparted by the mutation of an active site	1.4	5

14	Probing Metal Ion Discrimination in a Protein Designed to Bind Uranyl Cation With Femtomolar Affinity. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 73	5.6	2
13	New Orange Ligand-Dependent Fluorescent Reporter for Anaerobic Imaging. <i>ACS Chemical Biology</i> , 2021 , 16, 2109-2115	4.9	2
12	Kinetic Analysis of Transient Intermediates in the Mechanism of Prenyl-Flavin-Dependent Ferulic Acid Decarboxylase. <i>Biochemistry</i> , 2021 , 60, 125-134	3.2	2
11	Viperin inhibits cholesterol biosynthesis and interacts with enzymes in the cholesterol biosynthetic pat	:hway	2
10	Glutamate Mutase 2007 , 253-271		1
9	Carboxymethylation of MutS-cysteine-15 specifically inactivates adenosylcobalamin-dependent glutamate mutase. Examination of the role of this residue in coenzyme-binding and catalysis. <i>Journal of Biological Chemistry</i> , 1996 , 271, 29121-5	5.4	1
8	Interactions between Viperin, IRAK1 andTRAF6 couple innate immune signaling to antiviral ribonucleotide synthesis		1
7	Coiled Coil-Mediated Assembly of an Icosahedral Protein Cage with Extremely High Thermal and Chemical Stability		1
6	The antiviral enzyme viperin inhibits cholesterol biosynthesis. <i>Journal of Biological Chemistry</i> , 2021 , 297, 100824	5.4	1
5	Using kinetic isotope effects to probe the mechanism of adenosylcobalamin-dependent enzymes. <i>Methods in Enzymology</i> , 2022 ,	1.7	O
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