E Neil G Marsh

List of Publications by Year
in descending order

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151 papers	6,505 citations	46984 47 h-index	88593 70 g-index
221 all docs	221 docs citations	221 times ranked	6086 citing authors

#	Article	IF	Citations
1	Role of Zinc in Human Islet Amyloid Polypeptide Aggregation. Journal of the American Chemical Society, 2010, 132, 8973-8983.	6.6	212
2	Using ¹⁹F NMR to Probe Biological Interactions of Proteins and Peptides. ACS Chemical Biology, 2014, 9, 1242-1250.	1.6	161
3	The structure of ActVA-Orf6, a novel type of monooxygenase involved in actinorhodin biosynthesis. EMBO Journal, 2003, 22, 205-215.	3.5	150
4	Fluorinated Proteins: From Design and Synthesis to Structure and Stability. Accounts of Chemical Research, 2014, 47, 2878-2886.	7.6	147
5	Coupling of Cobaltâ"Carbon Bond Homolysis and Hydrogen Atom Abstraction in Adenosylcobalamin-Dependent Glutamate Mutaseâ€. Biochemistry, 1998, 37, 11864-11872.	1.2	139
6	Purification and characterization of clavaminate synthase from Streptomyces clavuligerus: an unusual oxidative enzyme in natural product biosynthesis. Biochemistry, 1990, 29, 6499-6508.	1.2	134
7	Immobilized enzymes: understanding enzyme â€" surface interactions at the molecular level. Organic and Biomolecular Chemistry, 2017, 15, 9539-9551.	1.5	134
8	Cloning and sequencing of glutamate mutase component S fromClostridium tetanomorphumHomologies with other cobalamin-dependent enzymes. FEBS Letters, 1992, 310, 167-170.	1.3	124
9	Alternative Pathways of Human Islet Amyloid Polypeptide Aggregation Distinguished by ¹⁹F Nuclear Magnetic Resonance-Detected Kinetics of Monomer Consumption. Biochemistry, 2012, 51, 8154-8162.	1.2	118
10	Using Fluorous Amino Acids to Modulate the Biological Activity of an Antimicrobial Peptide. ChemBioChem, 2008, 9, 370-373.	1.3	109
11	Adenosylcobalamin-dependent isomerases: new insights into structure and mechanism. Current Opinion in Chemical Biology, 2001, 5, 499-505.	2.8	102
12	High-resolution NMR characterization of low abundance oligomers of amyloid-Î² without purification. Scientific Reports, 2015, 5, 11811.	1.6	101
13	Modulating Protein Structure with Fluorous Amino Acids:Â Increased Stability and Native-like Structure Conferred on a 4-Helix Bundle Protein by Hexafluoroleucine. Journal of the American Chemical Society, 2006, 128, 337-343.	6.6	98
14	Oxygenâ€Independent Decarbonylation of Aldehydes by Cyanobacterial Aldehyde Decarbonylase: A New Reaction of Diiron Enzymes. Angewandte Chemie - International Edition, 2011, 50, 7148-7152.	7.2	98
15	Resolution of Oligomeric Species during the Aggregation of Aβ_{1â€"40} Using ¹⁹F NMR. Biochemistry, 2013, 52, 1903-1912.	1.2	97
16	Adenosyl Radical: Reagent and Catalyst in Enzyme Reactions. ChemBioChem, 2010, 11, 604-621.	1.3	95
17	Fluorous Effect in Proteins:ÂDe NovoDesign and Characterization of a Four-Î±-Helix Bundle Protein Containing Hexafluoroleucineâ€. Biochemistry, 2004, 43, 16277-16284.	1.2	93
18	Two isozymes of clavaminate synthase central to clavulanic acid formation: cloning and sequencing of both genes from Streptomyces clavuligerus. Biochemistry, 1992, 31, 12648-12657.	1.2	92

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19	Flexible, symmetry-directed approach to assembling protein cages. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8681-8686.	3.3	91
20	Production of Propane and Other Shortâ€Chain Alkanes by Structureâ€Based Engineering of Ligand Specificity in Aldehydeâ€Deformylating Oxygenase. ChemBioChem, 2013, 14, 1204-1208.	1.3	85
21	Isofunctional Enzymes PAD1 and UbiX Catalyze Formation of a Novel Cofactor Required by Ferulic Acid Decarboxylase and 4-Hydroxy-3-polyprenylbenzoic Acid Decarboxylase. ACS Chemical Biology, 2015, 10, 1137-1144.	1.6	83
22	Using Fluorous Amino Acids To Probe the Effects of Changing Hydrophobicity on the Physical and Biological Properties of the Î²-Hairpin Antimicrobial Peptide Protegrin-1. Biochemistry, 2008, 47, 9243-9250.	1.2	80
23	Structural basis for the enhanced stability of highly fluorinated proteins. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4810-4815.	3.3	79
24	Fluorine: A new element in protein design. Protein Science, 2012, 21, 453-462.	3.1	79
25	Molecular Orientation of Enzymes Attached to Surfaces through Defined Chemical Linkages at the Solidâ€“Liquid Interface. Journal of the American Chemical Society, 2013, 135, 12660-12669.	6.6	73
26	How a protein prepares for B12 binding: structure and dynamics of the B12-binding subunit of glutamate mutase from Clostridium tetanomorphum. Structure, 1998, 6, 1021-1033.	1.6	72
27	Identification of a Flavin:NADH Oxidoreductase Involved in the Biosynthesis of Actinorhodin. Journal of Biological Chemistry, 1995, 270, 17339-17343.	1.6	71
28	Oxygen-Independent Alkane Formation by Non-Heme Iron-Dependent Cyanobacterial Aldehyde Decarbonylase: Investigation of Kinetics and Requirement for an External Electron Donor. Biochemistry, 2011, 50, 10743-10750.	1.2	70
29	Noncovalent self-assembly of a heterotetrameric diiron protein. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5150-5154.	3.3	65
30	Time-Resolved Measurements of the Photolysis and Recombination of Adenosylcobalamin Bound to Glutamate Mutase. Journal of Physical Chemistry B, 2005, 109, 18146-18152.	1.2	65
31	Using Nonnatural Amino Acids to Control Metal-Coordination Number in Three-Stranded Coiled Coils. Angewandte Chemie - International Edition, 2006, 45, 2864-2868.	7.2	63
32	Probing the Mechanism of Cyanobacterial Aldehyde Decarbonylase Using a Cyclopropyl Aldehyde. Journal of the American Chemical Society, 2013, 135, 5234-5237.	6.6	62
33	Fluorineâ€”a new element in the design of membrane-active peptides. Molecular BioSystems, 2009, 5, 1143.	2.9	60
34	Recent Advances in Radical SAM Enzymology: New Structures and Mechanisms. ACS Chemical Biology, 2014, 9, 1929-1938.	1.6	59
35	How Enzymes Control the Reactivity of Adenosylcobalamin:Â Effect on Coenzyme Binding and Catalysis of Mutations in the Conserved Histidine-Aspartate Pair of Glutamate Mutase. Biochemistry, 1997, 36, 7884-7889.	1.2	58
36	Photolysis and Recombination of Adenosylcobalamin Bound to Glutamate Mutase. Journal of the American Chemical Society, 2004, 126, 1598-1599.	6.6	58

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37	Aldehyde Decarbonylases: Enigmatic Enzymes of Hydrocarbon Biosynthesis. ACS Catalysis, 2013, 3, 2515-2521.	5.5	56
38	Using Fluorine Nuclear Magnetic Resonance To Probe the Interaction of Membrane-Active Peptides with the Lipid Bilayer. Biochemistry, 2010, 49, 5760-5765.	1.2	55
39	Structures of benzylsuccinate synthase elucidate roles of accessory subunits in glycyl radical enzyme activation and activity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10161-10166.	3.3	55
40	Effects of Peptide Immobilization Sites on the Structure and Activity of Surface-Tethered Antimicrobial Peptides. Journal of Physical Chemistry C, 2015, 119, 7146-7155.	1.5	55
41	Review Article Coenzyme-B12-Dependent Glutamate Mutase. Bioorganic Chemistry, 2000, 28, 176-189.	2.0	54
42	A radical approach to enzyme catalysis. BioEssays, 1995, 17, 431-441.	1.2	53
43	S-Adenosylmethionine radical enzymes. Bioorganic Chemistry, 2004, 32, 326-340.	2.0	53
44	Viperin: An ancient radical SAM enzyme finds its place in modern cellular metabolism and innate immunity. Journal of Biological Chemistry, 2020, 295, 11513-11528.	1.6	53
45	Control of Metal Coordination Number in de Novo Designed Peptides through Subtle Sequence Modifications. Journal of the American Chemical Society, 2004, 126, 9178-9179.	6.6	52
46	Adenosylcobalamin enzymes: Theory and experiment begin to converge. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 1154-1164.	1.1	51
47	Investigating the Effect of Two-Point Surface Attachment on Enzyme Stability and Activity. Journal of the American Chemical Society, 2018, 140, 16560-16569.	6.6	51
48	Coiled-Coil-Mediated Assembly of an Icosahedral Protein Cage with Extremely High Thermal and Chemical Stability. Journal of the American Chemical Society, 2019, 141, 9207-9216.	6.6	51
49	Adenosylcobalamin-Dependent Glutamate Mutase:Â Examination of Substrate and Coenzyme Binding in an Engineered Fusion Protein Possessing Simplified Subunit Structure and Kinetic Propertiesâ€. Biochemistry, 1997, 36, 14939-14945.	1.2	50
50	Covalent Metalâ^'Peptide Framework Compounds That Extend in One and Two Dimensions. Crystal Growth and Design, 2008, 8, 296-303.	1.4	50
51	Mechanism of Glutamate Mutase:Â Identification and Kinetic Competence of Acrylate and Glycyl Radical as Intermediates in the Rearrangement of Glutamate to Methylaspartate. Journal of the American Chemical Society, 2000, 122, 10732-10733.	6.6	49
52	The Fluorous Effect in Proteins: Properties of Î±4F6, a 4-Î±-Helix Bundle Protein with a Fluorocarbon Core. Biochemistry, 2008, 47, 4484-4490.	1.2	46
53	Viperin interacts with the kinase IRAK1 and the E3 ubiquitin ligase TRAF6, coupling innate immune signaling to antiviral ribonucleotide synthesis. Journal of Biological Chemistry, 2019, 294, 6888-6898.	1.6	46
54	Pre-Steady-State Kinetic Investigation of Intermediates in the Reaction Catalyzed by Adenosylcobalamin-Dependent Glutamate Mutaseâ€. Biochemistry, 1999, 38, 13684-13691.	1.2	44

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55	Mechanism of Benzylsuccinate Synthase:Â Stereochemistry of Toluene Addition to Fumarate and Maleate. Journal of the American Chemical Society, 2005, 127, 8608-8609.	6.6	44
56	Engineering Protein Stability and Specificity Using Fluorous Amino Acids: The Importance of Packing Effects. Biochemistry, 2009, 48, 10810-10817.	1.2	43
57	Molecular-Level Insights into Orientation-Dependent Changes in the Thermal Stability of Enzymes Covalently Immobilized on Surfaces. Langmuir, 2015, 31, 6145-6153.	1.6	43
58	Effect of immobilization site on the orientation and activity of surface-tethered enzymes. Physical Chemistry Chemical Physics, 2018, 20, 1021-1029.	1.3	43
59	Extending fluorescence microscopy into anaerobic environments. Current Opinion in Chemical Biology, 2019, 51, 98-104.	2.8	43
60	Symmetryâ€Directed Selfâ€Assembly of a Tetrahedral Protein Cage Mediated by de Novoâ€Designed Coiled Coils. ChemBioChem, 2017, 18, 1888-1892.	1.3	42
61	Tritium isotope effects in adenosylcobalamin-dependent glutamate mutase: Implications for the mechanism. Biochemistry, 1995, 34, 7542-7547.	1.2	40
62	Proteinâ€“coenzyme interactions in adenosylcobalamin-dependent glutamate mutase. Biochemical Journal, 2001, 355, 131-137.	1.7	40
63	Influence of Fluorination on the Thermodynamics of Protein Folding. Journal of the American Chemical Society, 2012, 134, 13027-13034.	6.6	38
64	A Short and Efficient Synthesis ofl-5,5,5,5â€˛,5â€˛,5â€˛-hexafluoroleucine fromN-Cbz-l-Serine. Organic Letters, 2002, 4, 4281-4283.	2.4	37
65	Cation-Ï€ interactions studied in a model coiled-coil peptide. Protein Science, 2004, 13, 2244-2251.	3.1	37
66	Mechanism of the Novel Prenylated Flavin-Containing Enzyme Ferulic Acid Decarboxylase Probed by Isotope Effects and Linear Free-Energy Relationships. Biochemistry, 2016, 55, 2857-2863.	1.2	37
67	Engineered Surface-Immobilized Enzyme that Retains High Levels of Catalytic Activity in Air. Journal of the American Chemical Society, 2017, 139, 2872-2875.	6.6	37
68	Evaluation of a symmetry-based strategy for assembling protein complexes. RSC Advances, 2011, 1, 1004.	1.7	36
69	Aldehydeâ€forming fatty acylâ€<scp>C</scp>o<scp>A</scp> reductase from cyanobacteria: expression, purification and characterization of the recombinant enzyme. FEBS Journal, 2013, 280, 4773-4781.	2.2	36
70	Conversion of (3S,4R)-Tetrahydrodaidzein to (3S)-Equol by THD Reductase: Proposed Mechanism Involving a Radical Intermediate. Biochemistry, 2010, 49, 5582-5587.	1.2	35
71	Substrate-bound Structures of Benzylsuccinate Synthase Reveal How Toluene Is Activated in Anaerobic Hydrocarbon Degradation. Journal of Biological Chemistry, 2015, 290, 22398-22408.	1.6	35
72	Mechanism of Benzylsuccinate Synthase Probed by Substrate and Isotope Exchange. Journal of the American Chemical Society, 2006, 128, 16056-16057.	6.6	34

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73	The B12-Binding Subunit of Glutamate Mutase from Clostridium tetanomorphum Traps the Nucleotide Moiety of Coenzyme B12. Journal of Molecular Biology, 2001, 309, 777-791.	2.0	33
74	Insights into Substrate and Metal Binding from the Crystal Structure of Cyanobacterial Aldehyde Deformylating Oxygenase with Substrate Bound. ACS Chemical Biology, 2014, 9, 2584-2593.	1.6	32
75	Giving superabsorbent polymers a second life as pressure-sensitive adhesives. Nature Communications, 2021, 12, 4524.	5.8	32
76	Subunit Structure of Benzylsuccinate Synthase. Biochemistry, 2009, 48, 1284-1292.	1.2	31
77	Does Viperin Function as a Radical S-Adenosyl-l-methionine-dependent Enzyme in Regulating Farnesylpyrophosphate Synthase Expression and Activity?. Journal of Biological Chemistry, 2016, 291, 26806-26815.	1.6	31
78	Using Fluorine Nuclear Magnetic Resonance To Probe Changes in the Structure and Dynamics of Membrane-Active Peptides Interacting with Lipid Bilayers. Biochemistry, 2011, 50, 5979-5987.	1.2	30
79	Characterization of a highly flexible selfâ€assembling protein system designed to form nanocages. Protein Science, 2014, 23, 190-199.	3.1	30
80	Evidence for a 1,3-Dipolar Cyclo-addition Mechanism in the Decarboxylation of Phenylacrylic Acids Catalyzed by Ferulic Acid Decarboxylase. Journal of the American Chemical Society, 2017, 139, 10972-10975.	6.6	30
81	Tritium Partitioning and Isotope Effects in Adenosylcobalamin-Dependent Glutamate Mutaseâ€. Biochemistry, 2001, 40, 13060-13067.	1.2	29
82	A Novel Reaction between Adenosylcobalamin and 2-Methyleneglutarate Catalyzed by Glutamate Mutase. Biochemistry, 2002, 41, 3200-3206.	1.2	29
83	Mechanistic Insights from Reaction of Î±-Oxiranyl-Aldehydes with Cyanobacterial Aldehyde Deformylating Oxygenase. ACS Chemical Biology, 2014, 9, 570-577.	1.6	29
84	Surface Orientation Control of Site-Specifically Immobilized Nitro-reductase (NfsB). Langmuir, 2014, 30, 5930-5938.	1.6	29
85	Electronic Structure Studies of the Adenosylcobalamin Cofactor in Glutamate Mutaseâ€. Biochemistry, 2005, 44, 15167-15181.	1.2	28
86	Deuterium Isotope Effects in the Unusual Addition of Toluene to Fumarate Catalyzed by Benzylsuccinate Synthaseâ€. Biochemistry, 2006, 45, 13932-13938.	1.2	28
87	Effect of Surface Crowding and Surface Hydrophilicity on the Activity, Stability and Molecular Orientation of a Covalently Tethered Enzyme. Langmuir, 2017, 33, 7152-7159.	1.6	28
88	Simultaneous Observation of the Orientation and Activity of Surface-Immobilized Enzymes. Langmuir, 2018, 34, 9133-9140.	1.6	28
89	Molecular Mechanisms of Interactions between Monolayered Transition Metal Dichalcogenides and Biological Molecules. Journal of the American Chemical Society, 2019, 141, 9980-9988.	6.6	28
90	Isotope Effects for Deuterium Transfer between Substrate and Coenzyme in Adenosylcobalamin-Dependent Glutamate Mutaseâ€. Biochemistry, 2005, 44, 2686-2691.	1.2	27

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91	Solvent Isotope Effects on Alkane Formation by Cyanobacterial Aldehyde Deformylating Oxygenase and Their Mechanistic Implications. Biochemistry, 2014, 53, 5537-5543.	1.2	27
92	Perfluoroâ€‹tertâ€‹butylâ€‹homoserine as a sensitive ¹⁹F NMR reporter for peptideâ€“membrane interactions in solution. Journal of Peptide Science, 2013, 19, 308-314.	0.8	26
93	Proteinâ€’coenzyme interactions in adenosylcobalamin-dependent glutamate mutase. Biochemical Journal, 2001, 355, 131.	1.7	25
94	Viperin binds STING and enhances the typeâ€‹I interferon response following dsDNA detection. Immunology and Cell Biology, 2021, 99, 373-391.	1.0	25
95	The Photoactive Excited State of the B₁₂-Based Photoreceptor CarH. Journal of Physical Chemistry B, 2020, 124, 10732-10738.	1.2	25
96	Heme oxygenase-2 is post-translationally regulated by heme occupancy in the catalytic site. Journal of Biological Chemistry, 2020, 295, 17227-17240.	1.6	24
97	Cloning and sequencing of glutamate mutase component E fromClostridium tetanomorphum. FEBS Letters, 1993, 317, 44-48.	1.3	22
98	Pre-Steady-State Measurement of Intrinsic Secondary Tritium Isotope Effects Associated with the Homolysis of Adenosylcobalamin and the Formation of 5â€˜-Deoxyadensosine in Glutamate Mutaseâ€. Biochemistry, 2004, 43, 2155-2158.	1.2	22
99	Evidence for Coupled Motion and Hydrogen Tunneling of the Reaction Catalyzed by Glutamate Mutaseâ€. Biochemistry, 2007, 46, 883-889.	1.2	22
100	Role of Active Site Residues in Promoting Cobaltâ€“Carbon Bond Homolysis in Adenosylcobalamin-Dependent Mutases Revealed through Experiment and Computation. Biochemistry, 2014, 53, 169-177.	1.2	22
101	Evaluation of de novo-designed coiled coils as off-the-shelf components for protein assembly. Molecular Systems Design and Engineering, 2017, 2, 140-148.	1.7	22
102	Metalâ€‹dependent assembly of a protein nanoâ€‹cage. Protein Science, 2019, 28, 1620-1629.	3.1	22
103	Molecular Structure of the Surface-Immobilized Super Uranyl Binding Protein. Journal of Physical Chemistry B, 2021, 125, 7706-7716.	1.2	21
104	The Reaction of the Substrate Analog 2-Ketoglutarate with Adenosylcobalamin-dependent Glutamate Mutase. Journal of Biological Chemistry, 1999, 274, 11619-11622.	1.6	20
105	Toward an Improved Understanding of the Glutamate Mutase System. Journal of the American Chemical Society, 2007, 129, 1623-1633.	6.6	20
106	Crystallization and preliminary diffraction data for adenosylcobalamin-dependent methylmalonyl-CoA mutase from Propionibacterium shermanii. Journal of Molecular Biology, 1988, 200, 421-422.	2.0	19
107	The role of the active site glutamate in the rearrangement of glutamate to 3-methylaspartate catalyzed by adenosylcobalamin-dependent glutamate mutase. Chemistry and Biology, 2001, 8, 1143-1149.	6.2	19
108	A label-free Sirtuin 1 assay based on droplet-electrospray ionization mass spectrometry. Analytical Methods, 2016, 8, 3458-3465.	1.3	19

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109	Rearrangement of l-2-Hydroxyglutarate to l-threo-3-Methylmalate Catalyzed by Adenosylcobalamin-Dependent Glutamate Mutase. Biochemistry, 2000, 39, 10340-10346.	1.2	18
110	Hydrogen Tunneling in Adenosylcobalamin-Dependent Glutamate Mutase: Evidence from Intrinsic Kinetic Isotope Effects Measured by Intramolecular Competition. Biochemistry, 2010, 49, 3168-3173.	1.2	17
111	Imaging living obligate anaerobic bacteria with bilin-binding fluorescent proteins. Current Research in Microbial Sciences, 2020, 1, 1-6.	1.4	17
112	Intrinsic Deuterium Kinetic Isotope Effects in Glutamate Mutase Measured by an Intramolecular Competition Experiment. Angewandte Chemie - International Edition, 2007, 46, 8455-8459.	7.2	16
113	Kinetic Characterization of Prenyl-Flavin Synthase from Saccharomyces cerevisiae. Biochemistry, 2018, 57, 696-700.	1.2	16
114	Targeting viperin to the mitochondrion inhibits the thiolase activity of the trifunctional enzyme complex. Journal of Biological Chemistry, 2020, 295, 2839-2849.	1.6	16
115	Role of Arg100 in the Active Site of Adenosylcobalamin-Dependent Glutamate Mutaseâ€. Biochemistry, 2004, 43, 3238-3245.	1.2	14
116	Comparison of the structures and stabilities of coiledâ€coil proteins containing hexafluoroleucine and tâ€butylalanine provides insight into the stabilizing effects of highly fluorinated amino acid sideâ€chains. Protein Science, 2012, 21, 1705-1715.	3.1	14
117	Folate binding protein: therapeutic natural nanotechnology for folic acid, methotrexate, and leucovorin. Nanoscale, 2017, 9, 2603-2615.	2.8	14
118	Pre-Steady-State Kinetic Studies on the Glu171Gln Active Site Mutant of Adenosylcobalamin-Dependent Glutamate Mutaseâ€. Biochemistry, 2002, 41, 15803-15809.	1.2	13
119	An Unusual Iron-Dependent Oxidative Deformylation Reaction Providing Insight into Hydrocarbon Biosynthesis in Nature. ACS Catalysis, 2016, 6, 3293-3300.	5.5	13
120	Substrate-Triggered Exosite Binding: Synergistic Dendrimer/Folic Acid Action for Achieving Specific, Tight-Binding to Folate Binding Protein. Biomacromolecules, 2016, 17, 922-927.	2.6	13
121	Immobilization of enzyme on a polymer surface. Surface Science, 2016, 648, 53-59.	0.8	13
122	Conjugation Dependent Interaction of Folic Acid with Folate Binding Protein. Bioconjugate Chemistry, 2017, 28, 2350-2360.	1.8	13
123	Elaborating a coiledâ€coilâ€assembled octahedral protein cage with additional protein domains. Protein Science, 2018, 27, 1893-1900.	3.1	13
124	Interactions between Viperin, Vesicle-Associated Membrane Protein A, and Hepatitis C Virus Protein NS5A Modulate Viperin Activity and NS5A Degradation. Biochemistry, 2020, 59, 780-789.	1.2	13
125	Probing protein aggregation at buried interfaces: distinguishing between adsorbed protein monomers, dimers, and a monomerâ€“dimer mixture in situ. Chemical Science, 2022, 13, 975-984.	3.7	13
126	Insights into the mechanisms of adenosylcobalamin (coenzyme B12)-dependent enzymes from rapid chemical quench experiments. Biochemical Society Transactions, 2009, 37, 336-342.	1.6	12

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127	Folate binding proteinâ€"Outlook for drug delivery applications. Chinese Chemical Letters, 2015, 26, 426-430.	4.8	12
128	Recent progress in hydrocarbon biofuel synthesis: Pathways and enzymes. Chinese Chemical Letters, 2015, 26, 431-434.	4.8	11
129	Reaction of Adenosylcobalamin-Dependent Glutamate Mutase with 2-Thiolglutarateâ€. Biochemistry, 2006, 45, 11650-11657.	1.2	10
130	The antiviral enzyme viperin inhibits cholesterol biosynthesis. Journal of Biological Chemistry, 2021, 297, 100824.	1.6	10
131	A Protein Pre-Organized to Trap the Nucleotide Moiety of Coenzyme B12: Refined Solution Structure of the B12-Binding Subunit of Glutamate Mutase from Clostridium tetanomorphum. ChemBioChem, 2001, 2, 643-655.	1.3	9
132	The Antiviral Enzyme, Viperin, Activates Protein Ubiquitination by the E3 Ubiquitin Ligase, TRAF6. Journal of the American Chemical Society, 2021, 143, 4910-4914.	6.6	9
133	New Orange Ligand-Dependent Fluorescent Reporter for Anaerobic Imaging. ACS Chemical Biology, 2021, 16, 2109-2115.	1.6	9
134	Crystallization and preliminary X-ray diffraction studies of a monooxygenase fromStreptomyces coelicolorA3(2) involved in the biosynthesis of the polyketide actinorhodin. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 481-483.	2.5	8
135	Synthesis of mono- and di-deuterated (2S,3S)-3-methylaspartic acids to facilitate measurement of intrinsic kinetic isotope effects in enzymes. Tetrahedron, 2007, 63, 4663-4668.	1.0	8
136	Design, Synthesis, and Study of Fluorinated Proteins. Methods in Molecular Biology, 2014, 1216, 89-116.	0.4	8
137	Adenosylcobalamin-dependent glutamate mutase: properties of a fusion protein in which the cobalamin-binding subunit is linked to the catalytic subunit. Biochemical Journal, 1996, 320, 825-830.	1.7	7
138	Symmetry-Directed Design of Protein Cages and Protein Lattices and Their Applications. Sub-Cellular Biochemistry, 2017, 83, 195-224.	1.0	6
139	Probing Metal Ion Discrimination in a Protein Designed to Bind Uranyl Cation With Femtomolar Affinity. Frontiers in Molecular Biosciences, 2019, 6, 73.	1.6	6
140	Kinetic Analysis of Transient Intermediates in the Mechanism of Prenyl-Flavin-Dependent Ferulic Acid Decarboxylase. Biochemistry, 2021, 60, 125-134.	1.2	6
141	Decarboxylation of Aromatic Carboxylic Acids by the Prenylated-FMN-dependent Enzyme Phenazine-1-carboxylic Acid Decarboxylase. ACS Catalysis, 2021, 11, 11723-11732.	5.5	6
142	Adenosylcobalamin-Dependent Glutamate Mutase: Pre-Steady-State Kinetic Methods for Investigating Reaction Mechanism. Methods in Enzymology, 2002, 354, 380-399.	0.4	5
143	Comparison of the Influence of Humidity and <scp>d</scp>-Mannitol on the Organization of Tetraethylene Glycol-Terminated Self-Assembled Monolayers and Immobilized Antimicrobial Peptides. Langmuir, 2014, 30, 7143-7151.	1.6	5
144	Adenosylcobalamin-Dependent Enzymes. Sub-Cellular Biochemistry, 2000, 35, 351-403.	1.0	4

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145	Changes in the free energy profile of glutamate mutase imparted by the mutation of an active site arginine residue to lysine. Archives of Biochemistry and Biophysics, 2007, 461, 194-199.	1.4	4
146	Purification of the full-length, membrane-associated form of the antiviral enzyme viperin utilizing nanodiscs. Scientific Reports, 2022, 12, .	1.6	3
147	Carboxymethylation of MutS-Cysteine-15 Specifically Inactivates Adenosylcobalamin-dependent Glutamate Mutase. Journal of Biological Chemistry, 1996, 271, 29121-29125.	1.6	2
148	Using kinetic isotope effects to probe the mechanism of adenosylcobalamin-dependent enzymes. Methods in Enzymology, 2022, , 151-172.	0.4	2
149	A Novel Radical SAM mechanism mediated by the Interferonâ€Inducible Protein Viperin. FASEB Journal, 2018, 32, 796.7.	0.2	0
150	Viperin: A Radical SAMâ€dependent Approach in the Regulation of Farnesylpyrophosphate Synthase. FASEB Journal, 2018, 32, 526.11.	0.2	0
151	Viperinâ€”taken down with a pinch of salt. EMBO Reports, 2021, , e54258.	2.0	0