

E Neil G Marsh

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Probing protein aggregation at buried interfaces: distinguishing between adsorbed protein monomers, dimers, and a monomer-dimer mixture <i>in situ</i> . <i>Chemical Science</i> , 2022, 13, 975-984. | 3.7 | 13 |
| 2 | Using kinetic isotope effects to probe the mechanism of adenosylcobalamin-dependent enzymes. <i>Methods in Enzymology</i> , 2022, , 151-172. | 0.4 | 2 |
| 3 | Purification of the full-length, membrane-associated form of the antiviral enzyme viperin utilizing nanodiscs. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 3 |
| 4 | Kinetic Analysis of Transient Intermediates in the Mechanism of Prenyl-Flavin-Dependent Ferulic Acid Decarboxylase. <i>Biochemistry</i> , 2021, 60, 125-134. | 1.2 | 6 |
| 5 | Viperin binds STING and enhances the type-I interferon response following dsDNA detection. <i>Immunology and Cell Biology</i> , 2021, 99, 373-391. | 1.0 | 25 |
| 6 | The Antiviral Enzyme, Viperin, Activates Protein Ubiquitination by the E3 Ubiquitin Ligase, TRAF6. <i>Journal of the American Chemical Society</i> , 2021, 143, 4910-4914. | 6.6 | 9 |
| 7 | Molecular Structure of the Surface-Immobilized Super Uranyl Binding Protein. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7706-7716. | 1.2 | 21 |
| 8 | The antiviral enzyme viperin inhibits cholesterol biosynthesis. <i>Journal of Biological Chemistry</i> , 2021, 297, 100824. | 1.6 | 10 |
| 9 | Giving superabsorbent polymers a second life as pressure-sensitive adhesives. <i>Nature Communications</i> , 2021, 12, 4524. | 5.8 | 32 |
| 10 | Decarboxylation of Aromatic Carboxylic Acids by the Prenylated-FMN-dependent Enzyme Phenazine-1-carboxylic Acid Decarboxylase. <i>ACS Catalysis</i> , 2021, 11, 11723-11732. | 5.5 | 6 |
| 11 | New Orange Ligand-Dependent Fluorescent Reporter for Anaerobic Imaging. <i>ACS Chemical Biology</i> , 2021, 16, 2109-2115. | 1.6 | 9 |
| 12 | Viperin is "taken down with a pinch of salt. <i>EMBO Reports</i> , 2021, , e54258. | 2.0 | 0 |
| 13 | Heme oxygenase-2 is post-translationally regulated by heme occupancy in the catalytic site. <i>Journal of Biological Chemistry</i> , 2020, 295, 17227-17240. | 1.6 | 24 |
| 14 | Imaging living obligate anaerobic bacteria with bilin-binding fluorescent proteins. <i>Current Research in Microbial Sciences</i> , 2020, 1, 1-6. | 1.4 | 17 |
| 15 | 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. | 1.6 | 53 |
| 16 | Targeting viperin to the mitochondrion inhibits the thiolase activity of the trifunctional enzyme complex. <i>Journal of Biological Chemistry</i> , 2020, 295, 2839-2849. | 1.6 | 16 |
| 17 | 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. | 1.2 | 13 |
| 18 | The Photoactive Excited State of the B ₁₂ -Based Photoreceptor CarH. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10732-10738. | 1.2 | 25 |

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| 19 | Extending fluorescence microscopy into anaerobic environments. <i>Current Opinion in Chemical Biology</i> , 2019, 51, 98-104. | 2.8 | 43 |
| 20 | Metal-dependent assembly of a protein nano-cage. <i>Protein Science</i> , 2019, 28, 1620-1629. | 3.1 | 22 |
| 21 | Probing Metal Ion Discrimination in a Protein Designed to Bind Uranyl Cation With Femtomolar Affinity. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 73. | 1.6 | 6 |
| 22 | Molecular Mechanisms of Interactions between Monolayered Transition Metal Dichalcogenides and Biological Molecules. <i>Journal of the American Chemical Society</i> , 2019, 141, 9980-9988. | 6.6 | 28 |
| 23 | 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. | 6.6 | 51 |
| 24 | 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. | 1.6 | 46 |
| 25 | Kinetic Characterization of Prenyl-Flavin Synthase from <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , 2018, 57, 696-700. | 1.2 | 16 |
| 26 | Effect of immobilization site on the orientation and activity of surface-tethered enzymes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1021-1029. | 1.3 | 43 |
| 27 | 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. | 6.6 | 51 |
| 28 | Simultaneous Observation of the Orientation and Activity of Surface-Immobilized Enzymes. <i>Langmuir</i> , 2018, 34, 9133-9140. | 1.6 | 28 |
| 29 | Elaborating a coiled-coil-assembled octahedral protein cage with additional protein domains. <i>Protein Science</i> , 2018, 27, 1893-1900. | 3.1 | 13 |
| 30 | A Novel Radical SAM mechanism mediated by the Interferon-inducible Protein Viperin. <i>FASEB Journal</i> , 2018, 32, 796.7. | 0.2 | 0 |
| 31 | Viperin: A Radical SAM-dependent Approach in the Regulation of Farnesylpyrophosphate Synthase. <i>FASEB Journal</i> , 2018, 32, 526.11. | 0.2 | 0 |
| 32 | Folate binding protein: therapeutic natural nanotechnology for folic acid, methotrexate, and leucovorin. <i>Nanoscale</i> , 2017, 9, 2603-2615. | 2.8 | 14 |
| 33 | 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. | 6.6 | 37 |
| 34 | 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. | 1.7 | 22 |
| 35 | Symmetry-Directed Design of Protein Cages and Protein Lattices and Their Applications. <i>Sub-Cellular Biochemistry</i> , 2017, 83, 195-224. | 1.0 | 6 |
| 36 | Immobilized enzymes: understanding enzyme " surface interactions at the molecular level. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9539-9551. | 1.5 | 134 |

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|----|--|-----|-----------|
| 37 | Conjugation Dependent Interaction of Folic Acid with Folate Binding Protein. <i>Bioconjugate Chemistry</i> , 2017, 28, 2350-2360. | 1.8 | 13 |
| 38 | 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, 10972-10975. | 6.6 | 30 |
| 39 | Symmetry-Directed Self-Assembly of a Tetrahedral Protein Cage Mediated by de Novo-Designed Coiled Coils. <i>ChemBioChem</i> , 2017, 18, 1888-1892. | 1.3 | 42 |
| 40 | 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. | 1.6 | 28 |
| 41 | A label-free Sirtuin 1 assay based on droplet-electrospray ionization mass spectrometry. <i>Analytical Methods</i> , 2016, 8, 3458-3465. | 1.3 | 19 |
| 42 | An Unusual Iron-Dependent Oxidative Deformylation Reaction Providing Insight into Hydrocarbon Biosynthesis in Nature. <i>ACS Catalysis</i> , 2016, 6, 3293-3300. | 5.5 | 13 |
| 43 | 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, 2857-2863. | 1.2 | 37 |
| 44 | 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, 8681-8686. | 3.3 | 91 |
| 45 | 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. | 1.6 | 31 |
| 46 | Substrate-Triggered Exosite Binding: Synergistic Dendrimer/Folic Acid Action for Achieving Specific, Tight-Binding to Folate Binding Protein. <i>Biomacromolecules</i> , 2016, 17, 922-927. | 2.6 | 13 |
| 47 | Immobilization of enzyme on a polymer surface. <i>Surface Science</i> , 2016, 648, 53-59. | 0.8 | 13 |
| 48 | Molecular-Level Insights into Orientation-Dependent Changes in the Thermal Stability of Enzymes Covalently Immobilized on Surfaces. <i>Langmuir</i> , 2015, 31, 6145-6153. | 1.6 | 43 |
| 49 | Folate binding protein—Outlook for drug delivery applications. <i>Chinese Chemical Letters</i> , 2015, 26, 426-430. | 4.8 | 12 |
| 50 | 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, 1137-1144. | 1.6 | 83 |
| 51 | High-resolution NMR characterization of low abundance oligomers of amyloid- β^2 without purification. <i>Scientific Reports</i> , 2015, 5, 11811. | 1.6 | 101 |
| 52 | Recent progress in hydrocarbon biofuel synthesis: Pathways and enzymes. <i>Chinese Chemical Letters</i> , 2015, 26, 431-434. | 4.8 | 11 |
| 53 | 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. | 1.5 | 55 |
| 54 | Substrate-bound Structures of Benzylsuccinate Synthase Reveal How Toluene Is Activated in Anaerobic Hydrocarbon Degradation. <i>Journal of Biological Chemistry</i> , 2015, 290, 22398-22408. | 1.6 | 35 |

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| 55 | Characterization of a highly flexible self-assembling protein system designed to form nanocages. <i>Protein Science</i> , 2014, 23, 190-199. | 3.1 | 30 |
| 56 | 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, 2584-2593. | 1.6 | 32 |
| 57 | 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, 7143-7151. | 1.6 | 5 |
| 58 | 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, 169-177. | 1.2 | 22 |
| 59 | Structures of benzylsuccinate synthase elucidate roles of accessory subunits in glycol radical enzyme activation and activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10161-10166. | 3.3 | 55 |
| 60 | Recent Advances in Radical SAM Enzymology: New Structures and Mechanisms. <i>ACS Chemical Biology</i> , 2014, 9, 1929-1938. | 1.6 | 59 |
| 61 | Mechanistic Insights from Reaction of $\hat{I}\pm$ -Oxiranyl-Aldehydes with Cyanobacterial Aldehyde Deformylating Oxygenase. <i>ACS Chemical Biology</i> , 2014, 9, 570-577. | 1.6 | 29 |
| 62 | Surface Orientation Control of Site-Specifically Immobilized Nitro-reductase (NfsB). <i>Langmuir</i> , 2014, 30, 5930-5938. | 1.6 | 29 |
| 63 | Solvent Isotope Effects on Alkane Formation by Cyanobacterial Aldehyde Deformylating Oxygenase and Their Mechanistic Implications. <i>Biochemistry</i> , 2014, 53, 5537-5543. | 1.2 | 27 |
| 64 | Fluorinated Proteins: From Design and Synthesis to Structure and Stability. <i>Accounts of Chemical Research</i> , 2014, 47, 2878-2886. | 7.6 | 147 |
| 65 | Using ^{19}F NMR to Probe Biological Interactions of Proteins and Peptides. <i>ACS Chemical Biology</i> , 2014, 9, 1242-1250. | 1.6 | 161 |
| 66 | Design, Synthesis, and Study of Fluorinated Proteins. <i>Methods in Molecular Biology</i> , 2014, 1216, 89-116. | 0.4 | 8 |
| 67 | 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, 12660-12669. | 6.6 | 73 |
| 68 | Aldehyde-forming fatty acyl-CoA reductase from cyanobacteria: expression, purification and characterization of the recombinant enzyme. <i>FEBS Journal</i> , 2013, 280, 4773-4781. | 2.2 | 36 |
| 69 | Resolution of Oligomeric Species during the Aggregation of $A\hat{I}^2_{40}$ Using ^{19}F NMR. <i>Biochemistry</i> , 2013, 52, 1903-1912. | 1.2 | 97 |
| 70 | Perfluoro-tert-butyl-homoserine as a sensitive ^{19}F NMR reporter for peptide-membrane interactions in solution. <i>Journal of Peptide Science</i> , 2013, 19, 308-314. | 0.8 | 26 |
| 71 | Probing the Mechanism of Cyanobacterial Aldehyde Decarbonylase Using a Cyclopropyl Aldehyde. <i>Journal of the American Chemical Society</i> , 2013, 135, 5234-5237. | 6.6 | 62 |
| 72 | Production of Propane and Other Short-Chain Alkanes by Structure-Based Engineering of Ligand Specificity in Aldehyde-Deformylating Oxygenase. <i>ChemBioChem</i> , 2013, 14, 1204-1208. | 1.3 | 85 |

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| 73 | Aldehyde Decarboxylases: Enigmatic Enzymes of Hydrocarbon Biosynthesis. <i>ACS Catalysis</i> , 2013, 3, 2515-2521. | 5.5 | 56 |
| 74 | 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, 4810-4815. | 3.3 | 79 |
| 75 | Comparison of the structures and stabilities of coiled-coil proteins containing hexafluoroleucine and <i>L</i> -butylalanine provides insight into the stabilizing effects of highly fluorinated amino acid side-chains. <i>Protein Science</i> , 2012, 21, 1705-1715. | 3.1 | 14 |
| 76 | Influence of Fluorination on the Thermodynamics of Protein Folding. <i>Journal of the American Chemical Society</i> , 2012, 134, 13027-13034. | 6.6 | 38 |
| 77 | 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, 8154-8162. | 1.2 | 118 |
| 78 | Adenosylcobalamin enzymes: Theory and experiment begin to converge. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1154-1164. | 1.1 | 51 |
| 79 | Fluorine: A new element in protein design. <i>Protein Science</i> , 2012, 21, 453-462. | 3.1 | 79 |
| 80 | Evaluation of a symmetry-based strategy for assembling protein complexes. <i>RSC Advances</i> , 2011, 1, 1004. | 1.7 | 36 |
| 81 | 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, 5979-5987. | 1.2 | 30 |
| 82 | Oxygen-Independent Alkane Formation by Non-Heme Iron-Dependent Cyanobacterial Aldehyde Decarboxylase: Investigation of Kinetics and Requirement for an External Electron Donor. <i>Biochemistry</i> , 2011, 50, 10743-10750. | 1.2 | 70 |
| 83 | Oxygen-Independent Decarboxylation of Aldehydes by Cyanobacterial Aldehyde Decarboxylase: A New Reaction of Diron Enzymes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7148-7152. | 7.2 | 98 |
| 84 | Adenosyl Radical: Reagent and Catalyst in Enzyme Reactions. <i>ChemBioChem</i> , 2010, 11, 604-621. | 1.3 | 95 |
| 85 | Using Fluorine Nuclear Magnetic Resonance To Probe the Interaction of Membrane-Active Peptides with the Lipid Bilayer. <i>Biochemistry</i> , 2010, 49, 5760-5765. | 1.2 | 55 |
| 86 | Hydrogen Tunneling in Adenosylcobalamin-Dependent Glutamate Mutase: Evidence from Intrinsic Kinetic Isotope Effects Measured by Intramolecular Competition. <i>Biochemistry</i> , 2010, 49, 3168-3173. | 1.2 | 17 |
| 87 | Conversion of (3 <i>S</i> ,4 <i>R</i>)-Tetrahydroaidzein to (3 <i>S</i>)-Equol by THD Reductase: Proposed Mechanism Involving a Radical Intermediate. <i>Biochemistry</i> , 2010, 49, 5582-5587. | 1.2 | 35 |
| 88 | Role of Zinc in Human Islet Amyloid Polypeptide Aggregation. <i>Journal of the American Chemical Society</i> , 2010, 132, 8973-8983. | 6.6 | 212 |
| 89 | Fluorine—a new element in the design of membrane-active peptides. <i>Molecular BioSystems</i> , 2009, 5, 1143. | 2.9 | 60 |
| 90 | Engineering Protein Stability and Specificity Using Fluorous Amino Acids: The Importance of Packing Effects. <i>Biochemistry</i> , 2009, 48, 10810-10817. | 1.2 | 43 |

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| 91 | Subunit Structure of Benzylsuccinate Synthase. <i>Biochemistry</i> , 2009, 48, 1284-1292. | 1.2 | 31 |
| 92 | Insights into the mechanisms of adenosylcobalamin (coenzyme B12)-dependent enzymes from rapid chemical quench experiments. <i>Biochemical Society Transactions</i> , 2009, 37, 336-342. | 1.6 | 12 |
| 93 | Using Fluorous Amino Acids to Modulate the Biological Activity of an Antimicrobial Peptide. <i>ChemBioChem</i> , 2008, 9, 370-373. | 1.3 | 109 |
| 94 | Covalent Metal-Peptide Framework Compounds That Extend in One and Two Dimensions. <i>Crystal Growth and Design</i> , 2008, 8, 296-303. | 1.4 | 50 |
| 95 | Using Fluorous Amino Acids To Probe the Effects of Changing Hydrophobicity on the Physical and Biological Properties of the β^2 -Hairpin Antimicrobial Peptide Protegrin-1. <i>Biochemistry</i> , 2008, 47, 9243-9250. | 1.2 | 80 |
| 96 | The Fluorous Effect in Proteins: Properties of β^2 F6, a 4-Helix Bundle Protein with a Fluorocarbon Core. <i>Biochemistry</i> , 2008, 47, 4484-4490. | 1.2 | 46 |
| 97 | Changes in the free energy profile of glutamate mutase imparted by the mutation of an active site arginine residue to lysine. <i>Archives of Biochemistry and Biophysics</i> , 2007, 461, 194-199. | 1.4 | 4 |
| 98 | Toward an Improved Understanding of the Glutamate Mutase System. <i>Journal of the American Chemical Society</i> , 2007, 129, 1623-1633. | 6.6 | 20 |
| 99 | Evidence for Coupled Motion and Hydrogen Tunneling of the Reaction Catalyzed by Glutamate Mutase. <i>Biochemistry</i> , 2007, 46, 883-889. | 1.2 | 22 |
| 100 | Intrinsic Deuterium Kinetic Isotope Effects in Glutamate Mutase Measured by an Intramolecular Competition Experiment. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8455-8459. | 7.2 | 16 |
| 101 | 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. | 1.0 | 8 |
| 102 | Reaction of Adenosylcobalamin-Dependent Glutamate Mutase with 2-Thiolglutarate. <i>Biochemistry</i> , 2006, 45, 11650-11657. | 1.2 | 10 |
| 103 | Mechanism of Benzylsuccinate Synthase Probed by Substrate and Isotope Exchange. <i>Journal of the American Chemical Society</i> , 2006, 128, 16056-16057. | 6.6 | 34 |
| 104 | Deuterium Isotope Effects in the Unusual Addition of Toluene to Fumarate Catalyzed by Benzylsuccinate Synthase. <i>Biochemistry</i> , 2006, 45, 13932-13938. | 1.2 | 28 |
| 105 | Modulating Protein Structure with Fluorous Amino Acids: Increased Stability and Native-like Structure Conferred on a 4-Helix Bundle Protein by Hexafluoroisoleucine. <i>Journal of the American Chemical Society</i> , 2006, 128, 337-343. | 6.6 | 98 |
| 106 | Using Nonnatural Amino Acids to Control Metal-Coordination Number in Three-Stranded Coiled Coils. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2864-2868. | 7.2 | 63 |
| 107 | Isotope Effects for Deuterium Transfer between Substrate and Coenzyme in Adenosylcobalamin-Dependent Glutamate Mutase. <i>Biochemistry</i> , 2005, 44, 2686-2691. | 1.2 | 27 |
| 108 | Mechanism of Benzylsuccinate Synthase: Stereochemistry of Toluene Addition to Fumarate and Maleate. <i>Journal of the American Chemical Society</i> , 2005, 127, 8608-8609. | 6.6 | 44 |

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| 109 | Electronic Structure Studies of the Adenosylcobalamin Cofactor in Glutamate Mutase. <i>Biochemistry</i> , 2005, 44, 15167-15181. | 1.2 | 28 |
| 110 | Time-Resolved Measurements of the Photolysis and Recombination of Adenosylcobalamin Bound to Glutamate Mutase. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18146-18152. | 1.2 | 65 |
| 111 | Cation- π interactions studied in a model coiled-coil peptide. <i>Protein Science</i> , 2004, 13, 2244-2251. | 3.1 | 37 |
| 112 | S-Adenosylmethionine radical enzymes. <i>Bioorganic Chemistry</i> , 2004, 32, 326-340. | 2.0 | 53 |
| 113 | Photolysis and Recombination of Adenosylcobalamin Bound to Glutamate Mutase. <i>Journal of the American Chemical Society</i> , 2004, 126, 1598-1599. | 6.6 | 58 |
| 114 | Fluorous Effect in Proteins: De Novo Design and Characterization of a Four- α -Helix Bundle Protein Containing Hexafluoroleucine. <i>Biochemistry</i> , 2004, 43, 16277-16284. | 1.2 | 93 |
| 115 | Pre-Steady-State Measurement of Intrinsic Secondary Tritium Isotope Effects Associated with the Homolysis of Adenosylcobalamin and the Formation of 5 α -Deoxyadenosine in Glutamate Mutase. <i>Biochemistry</i> , 2004, 43, 2155-2158. | 1.2 | 22 |
| 116 | Control of Metal Coordination Number in de Novo Designed Peptides through Subtle Sequence Modifications. <i>Journal of the American Chemical Society</i> , 2004, 126, 9178-9179. | 6.6 | 52 |
| 117 | Role of Arg100 in the Active Site of Adenosylcobalamin-Dependent Glutamate Mutase. <i>Biochemistry</i> , 2004, 43, 3238-3245. | 1.2 | 14 |
| 118 | The structure of ActVA-Orf6, a novel type of monooxygenase involved in actinorhodin biosynthesis. <i>EMBO Journal</i> , 2003, 22, 205-215. | 3.5 | 150 |
| 119 | Adenosylcobalamin-Dependent Glutamate Mutase: Pre-Steady-State Kinetic Methods for Investigating Reaction Mechanism. <i>Methods in Enzymology</i> , 2002, 354, 380-399. | 0.4 | 5 |
| 120 | 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, 5150-5154. | 3.3 | 65 |
| 121 | Pre-Steady-State Kinetic Studies on the Glu171Gln Active Site Mutant of Adenosylcobalamin-Dependent Glutamate Mutase. <i>Biochemistry</i> , 2002, 41, 15803-15809. | 1.2 | 13 |
| 122 | A Novel Reaction between Adenosylcobalamin and 2-Methyleneglutarate Catalyzed by Glutamate Mutase. <i>Biochemistry</i> , 2002, 41, 3200-3206. | 1.2 | 29 |
| 123 | A Short and Efficient Synthesis of l-5,5,5,5 α -hexafluoroleucine from N-Cbz-l-Serine. <i>Organic Letters</i> , 2002, 4, 4281-4283. | 2.4 | 37 |
| 124 | The B12-Binding Subunit of Glutamate Mutase from <i>Clostridium tetanomorphum</i> Traps the Nucleotide Moiety of Coenzyme B12. <i>Journal of Molecular Biology</i> , 2001, 309, 777-791. | 2.0 | 33 |
| 125 | Tritium Partitioning and Isotope Effects in Adenosylcobalamin-Dependent Glutamate Mutase. <i>Biochemistry</i> , 2001, 40, 13060-13067. | 1.2 | 29 |
| 126 | Protein-coenzyme interactions in adenosylcobalamin-dependent glutamate mutase. <i>Biochemical Journal</i> , 2001, 355, 131. | 1.7 | 25 |

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| 127 | Protein-coenzyme interactions in adenosylcobalamin-dependent glutamate mutase. <i>Biochemical Journal</i> , 2001, 355, 131-137. | 1.7 | 40 |
| 128 | Adenosylcobalamin-dependent isomerases: new insights into structure and mechanism. <i>Current Opinion in Chemical Biology</i> , 2001, 5, 499-505. | 2.8 | 102 |
| 129 | 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, 1143-1149. | 6.2 | 19 |
| 130 | A Protein Pre-Organized to Trap the Nucleotide Moiety of Coenzyme B12: Refined Solution Structure of the B12-Binding Subunit of Glutamate Mutase from <i>Clostridium tetanomorphum</i> . <i>ChemBioChem</i> , 2001, 2, 643-655. | 1.3 | 9 |
| 131 | Review Article Coenzyme-B12-Dependent Glutamate Mutase. <i>Bioorganic Chemistry</i> , 2000, 28, 176-189. | 2.0 | 54 |
| 132 | Crystallization and preliminary X-ray diffraction studies of a monooxygenase from <i>Streptomyces coelicolor</i> A3(2) involved in the biosynthesis of the polyketide actinorhodin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 481-483. | 2.5 | 8 |
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