

JoAnne Stubbe

List of Publications by Year in descending order

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216
papers

14,797
citations

15495

65
h-index

24232

110
g-index

222
all docs

222
docs citations

222
times ranked

7955
citing authors

#	ARTICLE	IF	CITATIONS
1	Ribonucleotide reductase, a novel drug target for gonorrhea. <i>ELife</i> , 2022, 11, .	2.8	8
2	¹⁹ F Electron-Nuclear Double Resonance Reveals Interaction between Redox-Active Tyrosines across the $\hat{I}\pm/\hat{I}^2$ Interface of <i>E. coli</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2022, 144, 11270-11282.	6.6	12
3	Gated Proton Release during Radical Transfer at the Subunit Interface of Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2021, 143, 176-183.	6.6	14
4	Detection of Water Molecules on the Radical Transfer Pathway of Ribonucleotide Reductase by ¹⁷ O Electron Nuclear Double Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 7237-7241.	6.6	18
5	Statistical analysis of ENDOR spectra. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	8
6	Radicals in Biology: Your Life Is in Their Hands. <i>Journal of the American Chemical Society</i> , 2021, 143, 13463-13472.	6.6	23
7	Ribonucleotide Reductases: Structure, Chemistry, and Metabolism Suggest New Therapeutic Targets. <i>Annual Review of Biochemistry</i> , 2020, 89, 45-75.	5.0	120
8	PET Polymer Recycling. <i>Biochemistry</i> , 2020, 59, 2316-2318.	1.2	10
9	Subunit Interaction Dynamics of Class Ia Ribonucleotide Reductases: In Search of a Robust Assay. <i>Biochemistry</i> , 2020, 59, 1442-1453.	1.2	10
10	Structure of a trapped radical transfer pathway within a ribonucleotide reductase holocomplex. <i>Science</i> , 2020, 368, 424-427.	6.0	82
11	Conformational Motions and Water Networks at the $\hat{I}\pm/\hat{I}^2$ Interface in <i>E. coli</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2020, 142, 13768-13778.	6.6	21
12	Convergent allostery in ribonucleotide reductase. <i>Nature Communications</i> , 2019, 10, 2653.	5.8	27
13	Selenocysteine Substitution in a Class I Ribonucleotide Reductase. <i>Biochemistry</i> , 2019, 58, 5074-5084.	1.2	11
14	Discovery of a New Class I Ribonucleotide Reductase with an Essential DOPA Radical and NO Metal as an Initiator of Long-Range Radical Transfer. <i>Biochemistry</i> , 2019, 58, 435-437.	1.2	7
15	Properties of Site-Specifically Incorporated 3-Aminotyrosine in Proteins To Study Redox-Active Tyrosines: <i>Escherichia coli</i> Ribonucleotide Reductase as a Paradigm. <i>Biochemistry</i> , 2018, 57, 3402-3415.	1.2	12
16	An endogenous dAMP ligand in <i>Bacillus subtilis</i> class Ib RNR promotes assembly of a noncanonical dimer for regulation by dATP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4594-E4603.	3.3	18
17	Photochemical Rescue of a Conformationally Inactivated Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2018, 140, 15744-15752.	6.6	11
18	Basis of dATP inhibition of RNRs. <i>Journal of Biological Chemistry</i> , 2018, 293, 10413-10414.	1.6	6

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19	3.3-Å... resolution cryo-EM structure of human ribonucleotide reductase with substrate and allosteric regulators bound. <i>ELife</i> , 2018, 7, .	2.8	37
20	BIOLOGICAL CATALYSIS: UNDERSTANDING RATE ACCELERATIONS IN ENZYMATIC REACTIONS. , 2018, , .		0
21	Glutamate 350 Plays an Essential Role in Conformational Gating of Long-Range Radical Transport in <i>Escherichia coli</i> Class Ia Ribonucleotide Reductase. <i>Biochemistry</i> , 2017, 56, 856-868.	1.2	19
22	Formal Reduction Potentials of Difluorotyrosine and Trifluorotyrosine Protein Residues: Defining the Thermodynamics of Multistep Radical Transfer. <i>Journal of the American Chemical Society</i> , 2017, 139, 2994-3004.	6.6	34
23	Glutamate 52- \hat{I}^2 at the \hat{I}^{\pm}/\hat{I}^2 subunit interface of <i>Escherichia coli</i> class Ia ribonucleotide reductase is essential for conformational gating of radical transfer. <i>Journal of Biological Chemistry</i> , 2017, 292, 9229-9239.	1.6	26
24	Conformationally Dynamic Radical Transfer within Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2017, 139, 16657-16665.	6.6	36
25	The diferric-tyrosyl radical cluster of ribonucleotide reductase and cytosolic iron-sulfur clusters have distinct and similar biogenesis requirements. <i>Journal of Biological Chemistry</i> , 2017, 292, 11445-11451.	1.6	19
26	Spectroscopic Evidence for a H Bond Network at Y ₃₅₆ Located at the Subunit Interface of Active <i>E. coli</i> Ribonucleotide Reductase. <i>Biochemistry</i> , 2017, 56, 3647-3656.	1.2	27
27	Allosteric Inhibition of Human Ribonucleotide Reductase by dATP Entails the Stabilization of a Hexamer. <i>Biochemistry</i> , 2016, 55, 373-381.	1.2	45
28	A \hat{I}^{\pm} 200 meV Uphill Thermodynamic Landscape for Radical Transport in <i>Escherichia coli</i> Ribonucleotide Reductase Determined Using Fluorotyrosine-Substituted Enzymes. <i>Journal of the American Chemical Society</i> , 2016, 138, 13706-13716.	6.6	27
29	Structure of the Catalytic Domain of the Class I Polyhydroxybutyrate Synthase from <i>Cupriavidus necator</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 25264-25277.	1.6	69
30	Photochemical Generation of a Tryptophan Radical within the Subunit Interface of Ribonucleotide Reductase. <i>Biochemistry</i> , 2016, 55, 3234-3240.	1.2	14
31	Biophysical Characterization of Fluorotyrosine Probes Site-Specifically Incorporated into Enzymes: <i>E. coli</i> Ribonucleotide Reductase As an Example. <i>Journal of the American Chemical Society</i> , 2016, 138, 7951-7964.	6.6	43
32	Charge-Transfer Dynamics at the \hat{I}^{\pm}/\hat{I}^2 Subunit Interface of a Photochemical Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2016, 138, 1196-1205.	6.6	28
33	Radical transfer in <i>E. coli</i> ribonucleotide reductase: a NH ₂ Y ₇₃₁ R ₄₁₁ A \hat{I}^{\pm} mutant unmasks a new conformation of the pathway residue 731. <i>Chemical Science</i> , 2016, 7, 2170-2178.	3.7	38
34	A Ferredoxin Disulfide Reductase Delivers Electrons to the <i>Methanosarcina barkeri</i> Class III Ribonucleotide Reductase. <i>Biochemistry</i> , 2015, 54, 7019-7028.	1.2	18
35	Reverse Electron Transfer Completes the Catalytic Cycle in a 2,3,5-Trifluorotyrosine-Substituted Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2015, 137, 14387-14395.	6.6	22
36	Composition and Structure of the Inorganic Core of Relaxed Intermediate X (Y122F) of <i>Escherichia coli</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2015, 137, 15558-15566.	6.6	20

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37	Hydrogen Bond Network between Amino Acid Radical Intermediates on the Proton-Coupled Electron Transfer Pathway of <i>E. coli</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2015, 137, 289-298.	6.6	65
38	Chemistry with an Artificial Primer of Polyhydroxybutyrate Synthase Suggests a Mechanism for Chain Termination. <i>Biochemistry</i> , 2015, 54, 2117-2125.	1.2	16
39	Modulation of Phenol Oxidation in Cofacial Dyads. <i>Journal of the American Chemical Society</i> , 2015, 137, 11860-11863.	6.6	10
40	Direct interfacial Y ₇₃₁ oxidation in $\hat{\pm}2$ by a photo $\hat{2}2$ subunit of <i>E. coli</i> class Ia ribonucleotide reductase. <i>Chemical Science</i> , 2015, 6, 4519-4524.	3.7	8
41	Probing Conformational Change During Radical Propagation in the <i>E. coli</i> Class Ia RNR Using 3-aminotyrosine as a Radical "Sink". <i>FASEB Journal</i> , 2015, 29, 572.10.	0.2	0
42	Quaternary Structure and Activity Modulation in Human Ribonucleotide Reductase. <i>FASEB Journal</i> , 2015, 29, 360.1.	0.2	0
43	Conserved electron donor complex Dre2-Tah18 is required for ribonucleotide reductase metallocofactor assembly and DNA synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1695-704.	3.3	40
44	The class III ribonucleotide reductase from <i>Neisseria bacilliformis</i> can utilize thioredoxin as a reductant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3756-65.	3.3	24
45	Choosing the Right Metal: Case Studies of Class I Ribonucleotide Reductases. <i>Journal of Biological Chemistry</i> , 2014, 289, 28104-28111.	1.6	36
46	Genetic Characterization and Role in Virulence of the Ribonucleotide Reductases of <i>Streptococcus sanguinis</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 6273-6287.	1.6	50
47	<i>Streptococcus sanguinis</i> Class Ib Ribonucleotide Reductase. <i>Journal of Biological Chemistry</i> , 2014, 289, 6259-6272.	1.6	45
48	Kinetics of Hydrogen Atom Abstraction from Substrate by an Active Site Thiyl Radical in Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2014, 136, 16210-16216.	6.6	32
49	<i>Bacillus subtilis</i> Class Ib Ribonucleotide Reductase: High Activity and Dynamic Subunit Interactions. <i>Biochemistry</i> , 2014, 53, 766-776.	1.2	15
50	A Chemically Competent Thiosulfuranyl Radical on the <i>Escherichia coli</i> Class III Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2014, 136, 9001-9013.	6.6	30
51	Mechanistic Insight with HBCH ₂ CoA as a Probe to Polyhydroxybutyrate (PHB) Synthases. <i>ACS Chemical Biology</i> , 2014, 9, 1773-1779.	1.6	10
52	CONTROLLED RADICAL REACTIONS IN BIOLOGY AND THE IMPORTANCE OF METALLO-COFACTOR BIOSYNTHESIS. , 2014, , .		0
53	Redox-Linked Changes to the Hydrogen-Bonding Network of Ribonucleotide Reductase $\hat{2}$. <i>Journal of the American Chemical Society</i> , 2013, 135, 6380-6383.	6.6	26
54	Function of the Diiron Cluster of <i>Escherichia coli</i> Class Ia Ribonucleotide Reductase in Proton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2013, 135, 8585-8593.	6.6	55

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55	Reversible, Long-Range Radical Transfer in <i>E. coli</i> Class Ia Ribonucleotide Reductase. <i>Accounts of Chemical Research</i> , 2013, 46, 2524-2535.	7.6	223
56	Mechanism of Assembly of the Dimanganese-Tyrosyl Radical Cofactor of Class Ib Ribonucleotide Reductase: Enzymatic Generation of Superoxide Is Required for Tyrosine Oxidation via a Mn(III)Mn(IV) Intermediate. <i>Journal of the American Chemical Society</i> , 2013, 135, 4027-4039.	6.6	97
57	Formal Reduction Potential of 3,5-Difluorotyrosine in a Structured Protein: Insight into Multistep Radical Transfer. <i>Biochemistry</i> , 2013, 52, 8907-8915.	1.2	27
58	Investigation of in Vivo Roles of the C-terminal Tails of the Small Subunit ($\hat{\text{I}}_2$) of <i>Saccharomyces cerevisiae</i> Ribonucleotide Reductase. <i>Journal of Biological Chemistry</i> , 2013, 288, 13951-13959.	1.6	9
59	Modulation of Y ₃₅₆ Photooxidation in <i>E. coli</i> Class Ia Ribonucleotide Reductase by Y ₇₃₁ Across the $\hat{\text{I}}_2$: $\hat{\text{I}}_2$ Interface. <i>Journal of the American Chemical Society</i> , 2013, 135, 13250-13253.	6.6	16
60	Generation of a stable, aminotyrosyl radical-induced $\hat{\text{I}}_{\pm 2}$ complex of <i>Escherichia coli</i> class Ia ribonucleotide reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3835-3840.	3.3	44
61	Radicals: Your life is in their hands. <i>FASEB Journal</i> , 2013, 27, 337.3.	0.2	0
62	Mechanistic Studies of Semicarbazone Triapine Targeting Human Ribonucleotide Reductase in Vitro and in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 35768-35778.	1.6	64
63	Photo-ribonucleotide reductase $\hat{\text{I}}_2$ by selective cysteine labeling with a radical phototrigger. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 39-43.	3.3	53
64	Clofarabine Targets the Large Subunit ($\hat{\text{I}}_{\pm}$) of Human Ribonucleotide Reductase in Live Cells by Assembly into Persistent Hexamers. <i>Chemistry and Biology</i> , 2012, 19, 799-805.	6.2	45
65	Christian R. Raetz (1946–2011). <i>ACS Chemical Biology</i> , 2012, 7, 12-13.	1.6	1
66	Metallation and mismetallation of iron and manganese proteins in vitro and in vivo: the class I ribonucleotide reductases as a case study. <i>Metallomics</i> , 2012, 4, 1020.	1.0	124
67	The Dimanganese(II) Site of <i>Bacillus subtilis</i> Class Ib Ribonucleotide Reductase. <i>Biochemistry</i> , 2012, 51, 3861-3871.	1.2	30
68	Deciphering Radical Transport in the Large Subunit of Class I Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2012, 134, 1172-1180.	6.6	40
69	Tangled Up in Knots: Structures of Inactivated Forms of <i>E. coli</i> Class Ia Ribonucleotide Reductase. <i>Structure</i> , 2012, 20, 1374-1383.	1.6	60
70	Purification of Polyhydroxybutyrate Synthase from Its Native Organism, <i>Ralstonia eutropha</i> : Implications for the Initiation and Elongation of Polymer Formation in Vivo. <i>Biochemistry</i> , 2012, 51, 2276-2288.	1.2	35
71	Growth and Localization of Polyhydroxybutyrate Granules in <i>Ralstonia eutropha</i> . <i>Journal of Bacteriology</i> , 2012, 194, 1092-1099.	1.0	65
72	ENDOR Spectroscopy and DFT Calculations: Evidence for the Hydrogen-Bond Network Within $\hat{\text{I}}_{\pm 2}$ in the PCET of <i>E. coli</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2012, 134, 17661-17670.	6.6	50

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73	Kinetics of Radical Intermediate Formation and Deoxynucleotide Production in 3-Aminotyrosine-Substituted <i>Escherichia coli</i> Ribonucleotide Reductases. <i>Journal of the American Chemical Society</i> , 2011, 133, 9430-9440.	6.6	62
74	Use of 2,3,5-F ₃ Y ¹² and 3-NH ₂ Y ¹² To Study Proton-Coupled Electron Transfer in <i>Escherichia coli</i> Ribonucleotide Reductase. <i>Biochemistry</i> , 2011, 50, 1403-1411.	1.2	11
75	<i>Escherichia coli</i> Class Ib Ribonucleotide Reductase Contains a Dimanganese(III)-Tyrosyl Radical Cofactor in Vivo. <i>Biochemistry</i> , 2011, 50, 1672-1681.	1.2	74
76	<i>Bacillus subtilis</i> Class Ib Ribonucleotide Reductase Is a Dimanganese(III)-Tyrosyl Radical Enzyme. <i>Biochemistry</i> , 2011, 50, 5615-5623.	1.2	52
77	Equilibration of Tyrosyl Radicals (Y ₃₅₆ ⁺ , Y ₇₃₁ ⁺ , Tj ETQq1 1 0.784314 rgBT) Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2011, 133, 18420-18432.	6.6	61
78	Incorporation of Fluorotyrosines into Ribonucleotide Reductase Using an Evolved, Polyspecific Aminoacyl-tRNA Synthetase. <i>Journal of the American Chemical Society</i> , 2011, 133, 15942-15945.	6.6	97
79	Class I Ribonucleotide Reductases: Metallocofactor Assembly and Repair In Vitro and In Vivo. <i>Annual Review of Biochemistry</i> , 2011, 80, 733-767.	5.0	183
80	The Two Faces of SAM. <i>Science</i> , 2011, 332, 544-545.	6.0	13
81	Control of metallation and active cofactor assembly in the class Ia and Ib ribonucleotide reductases: diiron or dimanganese?. <i>Current Opinion in Chemical Biology</i> , 2011, 15, 284-290.	2.8	22
82	Clofarabine 5'-di and -triphosphates inhibit human ribonucleotide reductase by altering the quaternary structure of its large subunit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9815-9820.	3.3	62
83	Investigation of in Vivo Diferric Tyrosyl Radical Formation in <i>Saccharomyces cerevisiae</i> Rnr2 Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 41499-41509.	1.6	46
84	Structural interconversions modulate activity of <i>Escherichia coli</i> ribonucleotide reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 21046-21051.	3.3	87
85	Structural Basis for Activation of Class Ib Ribonucleotide Reductase. <i>Science</i> , 2010, 329, 1526-1530.	6.0	131
86	Site-Specific Incorporation of 3-Nitrotyrosine as a Probe of pKa Perturbation of Redox-Active Tyrosines in Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2010, 132, 8385-8397.	6.6	80
87	A Hot Oxidant, 3-NO ₂ Y ₁₂₂ Radical, Unmasks Conformational Gating in Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2010, 132, 15368-15379.	6.6	56
88	An Active Dimanganese(III)-Tyrosyl Radical Cofactor in <i>Escherichia coli</i> Class Ib Ribonucleotide Reductase. <i>Biochemistry</i> , 2010, 49, 1297-1309.	1.2	121
89	Inactivation of <i>Lactobacillus leichmannii</i> Ribonucleotide Reductase by 2',2'-Difluoro-2'-deoxycytidine 5'-Triphosphate: Adenosylcobalamin Destruction and Formation of a Nucleotide-Based Radical. <i>Biochemistry</i> , 2010, 49, 1396-1403.	1.2	7
90	Cytosolic Monothiol Glutaredoxins Function in Intracellular Iron Sensing and Trafficking via Their Bound Iron-Sulfur Cluster. <i>Cell Metabolism</i> , 2010, 12, 373-385.	7.2	263

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91	Mechanism of Inactivation of Human Ribonucleotide Reductase with p53R2 by Gemcitabine 5â€²-Diphosphate. <i>Biochemistry</i> , 2009, 48, 11612-11621.	1.2	47
92	Insight into the Mechanism of Inactivation of Ribonucleotide Reductase by Gemcitabine 5â€²-Diphosphate in the Presence or Absence of Reductant. <i>Biochemistry</i> , 2009, 48, 11622-11629.	1.2	51
93	Use of 3-Aminotyrosine To Examine the Pathway Dependence of Radical Propagation in <i>Escherichia coli</i> Ribonucleotide Reductase. <i>Biochemistry</i> , 2009, 48, 12125-12132.	1.2	21
94	Re(bpy)(CO) ₃ CN as a Probe of Conformational Flexibility in a Photochemical Ribonucleotide Reductase. <i>Biochemistry</i> , 2009, 48, 5832-5838.	1.2	15
95	Identification of Protonated Oxygenic Ligands of Ribonucleotide Reductase Intermediate X. <i>Journal of the American Chemical Society</i> , 2009, 131, 3370-3376.	6.6	39
96	Chapter 3 Replacement of Y730 and Y731 in the Î±2 Subunit of <i>Escherichia coli</i> Ribonucleotide Reductase with 3â€²-Aminotyrosine using an Evolved Suppressor tRNA/tRNAâ€³ Synthetase Pair. <i>Methods in Enzymology</i> , 2009, 462, 45-76.	0.4	10
97	Structural Examination of the Transient 3-Aminotyrosyl Radical on the PCET Pathway of <i>E. coli</i> Ribonucleotide Reductase by Multifrequency EPR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 15729-15738.	6.6	25
98	Detection of Covalent and Noncovalent Intermediates in the Polymerization Reaction Catalyzed by a C149S Class III Polyhydroxybutyrate Synthase. <i>Biochemistry</i> , 2009, 48, 9202-9211.	1.2	19
99	Structure of the Nucleotide Radical Formed during Reaction of CDP/TTP with the E441Q-Î±2 of <i>E. coli</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2009, 131, 200-211.	6.6	55
100	Unnatural amino acids: better than the real things?. <i>F1000 Biology Reports</i> , 2009, 1, 88.	4.0	2
101	Mapping the subunit interface of ribonucleotide reductase (RNR) using photo cross-linking. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5923-5925.	1.0	4
102	Methodology To Probe Subunit Interactions in Ribonucleotide Reductases. <i>Biochemistry</i> , 2008, 47, 13046-13055.	1.2	14
103	Importance of the Maintenance Pathway in the Regulation of the Activity of <i>Escherichia coli</i> Ribonucleotide Reductaseâ€². <i>Biochemistry</i> , 2008, 47, 3989-3999.	1.2	34
104	Mechanistic studies on bleomycin-mediated DNA damage: multiple binding modes can result in double-stranded DNA cleavage. <i>Nucleic Acids Research</i> , 2008, 36, 3781-3790.	6.5	120
105	NrdI, a flavodoxin involved in maintenance of the diferric-tyrosyl radical cofactor in <i>Escherichia coli</i> class Ib ribonucleotide reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14383-14388.	3.3	63
106	Enhanced subunit interactions with gemcitabine-5â€²-diphosphate inhibit ribonucleotide reductases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14324-14329.	3.3	98
107	Forward and Reverse Electron Transfer with the Y356DOPA-Î±2 Heterodimer of <i>E. coli</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2007, 129, 2226-2227.	6.6	35
108	Photoactive Peptides for Light-Initiated Tyrosyl Radical Generation and Transport into Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2007, 129, 8500-8509.	6.6	44

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109	PELDOR Spectroscopy with DOPA- \hat{I}^{22} and $NH_{2}Y_{\pm 2}$: Distance Measurements between Residues Involved in the Radical Propagation Pathway of <i>E. coli</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2007, 129, 15748-15749.	6.6	68
110	Site-Specific Insertion of 3-Aminotyrosine into Subunit \hat{I}^{2} of <i>E. coli</i> Ribonucleotide Reductase: Direct Evidence for Involvement of Y_{730} and Y_{731} in Radical Propagation. <i>Journal of the American Chemical Society</i> , 2007, 129, 15060-15071.	6.6	129
111	Direct Observation of a Transient Tyrosine Radical Competent for Initiating Turnover in a Photochemical Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2007, 129, 13828-13830.	6.6	50
112	YfaE, a Ferredoxin Involved in Diferric-Tyrosyl Radical Maintenance in <i>Escherichia coli</i> Ribonucleotide Reductase. <i>Biochemistry</i> , 2007, 46, 11577-11588.	1.2	54
113	Models of transition. <i>Nature</i> , 2007, 448, 762-763.	13.7	1
114	Site-specific incorporation of fluorotyrosines into the R2 subunit of <i>E. coli</i> ribonucleotide reductase by expressed protein ligation. <i>Nature Protocols</i> , 2007, 2, 1225-1235.	5.5	56
115	Determination of the in Vivo Stoichiometry of Tyrosyl Radical per \hat{I}^{2} in <i>Saccharomyces cerevisiae</i> Ribonucleotide Reductase. <i>Biochemistry</i> , 2006, 45, 12282-12294.	1.2	23
116	Complexed Structures of Formylglycinamide Ribonucleotide Amidotransferase from <i>Thermotoga maritima</i> Describe a Novel ATP Binding Protein Superfamily. <i>Biochemistry</i> , 2006, 45, 14880-14895.	1.2	26
117	Mono-, Di-, Tri-, and Tetra-Substituted Fluorotyrosines: New Probes for Enzymes That Use Tyrosyl Radicals in Catalysis. <i>Journal of the American Chemical Society</i> , 2006, 128, 1569-1579.	6.6	126
118	pH Rate Profiles of $FnY_{356}R_{2s}$ ($n=2, 3, 4$) in <i>Escherichia coli</i> Ribonucleotide Reductase: Evidence that Y_{356} is a Redox-Active Amino Acid along the Radical Propagation Pathway. <i>Journal of the American Chemical Society</i> , 2006, 128, 1562-1568.	6.6	114
119	Site-Specific Replacement of Y_{356} with 3,4-Dihydroxyphenylalanine in the \hat{I}^{2} Subunit of <i>E. coli</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2006, 128, 2522-2523.	6.6	84
120	Electron Transfer Reactions of Fluorotyrosyl Radicals. <i>Journal of the American Chemical Society</i> , 2006, 128, 13654-13655.	6.6	49
121	Proton-coupled electron transfer: the mechanistic underpinning for radical transport and catalysis in biology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 1351-1364.	1.8	262
122	Ribonucleotide Reductases. <i>Advances in Enzymology and Related Areas of Molecular Biology</i> , 2006, 63, 349-419.	1.3	48
123	Nuclear localization of the <i>Saccharomyces cerevisiae</i> ribonucleotide reductase small subunit requires a karyopherin and a WD40 repeat protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1422-1427.	3.3	41
124	Polyhydroxybutyrate (PHB) Synthases (PhaC): Toward understanding elongation granule formation and chain termination. <i>FASEB Journal</i> , 2006, 20, A888.	0.2	0
125	Kinetic Studies of Polyhydroxybutyrate Granule Formation in <i>Wautersia eutropha</i> H16 by Transmission Electron Microscopy. <i>Journal of Bacteriology</i> , 2005, 187, 3814-3824.	1.0	111
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