JoAnne Stubbe

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61 13,028 105 213 h-index g-index citations papers 6.47 11.3 13,994 222 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
213	Protein Radicals in Enzyme Catalysis. <i>Chemical Reviews</i> , 1998 , 98, 705-762	68.1	1278
212	Radical initiation in the class I ribonucleotide reductase: long-range proton-coupled electron transfer?. <i>Chemical Reviews</i> , 2003 , 103, 2167-201	68.1	707
211	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, 1351-64	5.8	238
210	Reconsideration of X, the Diiron Intermediate Formed during Cofactor Assembly in E. coli Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 1996 , 118, 7551-7557	16.4	234
209	Cytosolic monothiol glutaredoxins function in intracellular iron sensing and trafficking via their bound iron-sulfur cluster. <i>Cell Metabolism</i> , 2010 , 12, 373-385	24.6	224
208	Bleomycins: A Structural Model for Specificity, Binding, and Double Strand Cleavage. <i>Accounts of Chemical Research</i> , 1996 , 29, 322-330	24.3	207
207	Reversible, long-range radical transfer in E. coli class Ia ribonucleotide reductase. <i>Accounts of Chemical Research</i> , 2013 , 46, 2524-35	24.3	188
206	An ENDOR study of the tyrosyl free radical in ribonucleotide reductase from Escherichia coli. <i>Journal of the American Chemical Society</i> , 1989 , 111, 8076-8083	16.4	177
205	PHA synthase activity controls the molecular weight and polydispersity of polyhydroxybutyrate in vivo. <i>Nature Biotechnology</i> , 1997 , 15, 63-7	44.5	172
204	EXAFS Characterization of the Intermediate X Generated During the Assembly of the Escherichia coli Ribonucleotide Reductase R2 Diferric Tyrosyl Radical Cofactor. <i>Journal of the American Chemical Society</i> , 1998 , 120, 849-860	16.4	171
203	Mechanism of Assembly of the Tyrosyl Radical-Diiron(III) Cofactor of E. coli Ribonucleotide Reductase. 2. Kinetics of The Excess Fe2+ Reaction by Optical, EPR, and Moessbauer Spectroscopies. <i>Journal of the American Chemical Society</i> , 1994 , 116, 8015-8023	16.4	169
202	The crystal structure of class II ribonucleotide reductase reveals how an allosterically regulated monomer mimics a dimer. <i>Nature Structural Biology</i> , 2002 , 9, 293-300		164
201	Ribonucleotide reductases: radical enzymes with suicidal tendencies. <i>Chemistry and Biology</i> , 1995 , 2, 793-801		163
200	Class I ribonucleotide reductases: metallocofactor assembly and repair in vitro and in vivo. <i>Annual Review of Biochemistry</i> , 2011 , 80, 733-67	29.1	155
199	Mechanism of Assembly of the Tyrosyl Radical-Diiron(III) Cofactorof E. coli Ribonucleotide Reductase. 3. Kinetics of the Limiting Fe2+ Reaction by Optical, EPR, and Moessbauer Spectroscopies. <i>Journal of the American Chemical Society</i> , 1994 , 116, 8024-8032	16.4	142
198	Harnessing free radicals: formation and function of the tyrosyl radical in ribonucleotide reductase. <i>Trends in Biochemical Sciences</i> , 1998 , 23, 438-43	10.3	138
197	The Ralstonia eutropha PhaR protein couples synthesis of the PhaP phasin to the presence of polyhydroxybutyrate in cells and promotes polyhydroxybutyrate production. <i>Journal of Bacteriology</i> , 2002 , 184, 59-66	3.5	127

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196	Polyhydroxyalkanoate (PHA) hemeostasis: the role of PHA synthase. <i>Natural Product Reports</i> , 2003 , 20, 445-57	15.1	124
195	Nontemplate-dependent polymerization processes: polyhydroxyalkanoate synthases as a paradigm. <i>Annual Review of Biochemistry</i> , 2005 , 74, 433-80	29.1	123
194	Subcellular localization of yeast ribonucleotide reductase regulated by the DNA replication and damage checkpoint pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 6628-33	11.5	121
193	Class I and III polyhydroxyalkanoate synthases from Ralstonia eutropha and Allochromatium vinosum: characterization and substrate specificity studies. <i>Archives of Biochemistry and Biophysics</i> , 2001 , 394, 87-98	4.1	121
192	Site-specific insertion of 3-aminotyrosine into subunit alpha2 of E. coli ribonucleotide reductase: direct evidence for involvement of Y730 and Y731 in radical propagation. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15060-71	16.4	117
191	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, 1569-79	16.4	115
190	New insight into the role of the PhaP phasin of Ralstonia eutropha in promoting synthesis of polyhydroxybutyrate. <i>Journal of Bacteriology</i> , 2001 , 183, 2394-7	3.5	115
189	Structural basis for activation of class Ib ribonucleotide reductase. <i>Science</i> , 2010 , 329, 1526-30	33.3	114
188	High-frequency (139.5 GHz) EPR spectroscopy of the tyrosyl radical in Escherichia coli ribonucleotide reductase. <i>Journal of the American Chemical Society</i> , 1993 , 115, 6420-6421	16.4	114
187	Pre-steady-state and steady-state kinetic analysis of E. coli class I ribonucleotide reductase. <i>Biochemistry</i> , 2003 , 42, 10071-83	3.2	112
186	The Core Structure of X Generated in the Assembly of the Diiron Cluster of Ribonucleotide Reductase: 702 and H2170 ENDOR. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12910-12919	16.4	111
185	Di-iron-tyrosyl radical ribonucleotide reductases. Current Opinion in Chemical Biology, 2003 , 7, 183-8	9.7	108
184	An active dimanganese(III)-tyrosyl radical cofactor in Escherichia coli class Ib ribonucleotide reductase. <i>Biochemistry</i> , 2010 , 49, 1297-309	3.2	107
183	Identification of the Protonated Oxygenic Ligands of Ribonucleotide Reductase Intermediate X by Q-Band1,2H CW and Pulsed ENDOR. <i>Journal of the American Chemical Society</i> , 1997 , 119, 9816-9824	16.4	107
182	Studies of CoBleomycin A2 Green: Its Detailed Structural Characterization by NMR and Molecular Modeling and Its Sequence-Specific Interaction with DNA Oligonucleotides. <i>Journal of the American Chemical Society</i> , 1996 , 118, 1268-1280	16.4	105
181	pH Rate profiles of FnY356-R2s (n = 2, 3, 4) in Escherichia coli ribonucleotide reductase: evidence that Y356 is a redox-active amino acid along the radical propagation pathway. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1562-8	16.4	102
180	Coenzyme B12-dependent ribonucleotide reductase: evidence for the participation of five cysteine residues in ribonucleotide reduction. <i>Biochemistry</i> , 1994 , 33, 12676-85	3.2	102
179	Lipases provide a new mechanistic model for polyhydroxybutyrate (PHB) synthases: characterization of the functional residues in Chromatium vinosum PHB synthase. <i>Biochemistry</i> , 2000 , 39, 3927-36	3.2	97

178	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, 1020-36	4.5	96
177	Rapid FreezeQuench ENDOR of the Radical X Intermediate of Escherichia coli Ribonucleotide Reductase Using 17O2, H217O, and 2H2O. <i>Journal of the American Chemical Society</i> , 1996 , 118, 281-282	16.4	95
176	Kinetic studies of polyhydroxybutyrate granule formation in Wautersia eutropha H16 by transmission electron microscopy. <i>Journal of Bacteriology</i> , 2005 , 187, 3814-24	3.5	94
175	EPR distance measurements support a model for long-range radical initiation in E. coli ribonucleotide reductase. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15014-5	16.4	93
174	Ralstonia eutropha H16 encodes two and possibly three intracellular Poly[D-(-)-3-hydroxybutyrate] depolymerase genes. <i>Journal of Bacteriology</i> , 2003 , 185, 3788-94	3.5	92
173	Mechanistic studies on bleomycin-mediated DNA damage: multiple binding modes can result in double-stranded DNA cleavage. <i>Nucleic Acids Research</i> , 2008 , 36, 3781-90	20.1	89
172	Enhanced subunit interactions with gemcitabine-5'-diphosphate inhibit ribonucleotide reductases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14324-9	11.5	87
171	PHA synthase from chromatium vinosum: cysteine 149 is involved in covalent catalysis. <i>Biochemistry</i> , 1999 , 38, 826-37	3.2	87
170	N5-carboxyaminoimidazole ribonucleotide: evidence for a new intermediate and two new enzymatic activities in the de novo purine biosynthetic pathway of Escherichia coli. <i>Biochemistry</i> , 1994 , 33, 2269-78	3.2	84
169	Incorporation of fluorotyrosines into ribonucleotide reductase using an evolved, polyspecific aminoacyl-tRNA synthetase. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15942-5	16.4	81
168	Site-specific replacement of Y356 with 3,4-dihydroxyphenylalanine in the beta2 subunit of E. coli ribonucleotide reductase. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2522-3	16.4	81
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161	Location of the redox-active thiols of ribonucleotide reductase: sequence similarity between the Escherichia coli and Lactobacillus leichmannii enzymes. <i>Biochemistry</i> , 1987 , 26, 6905-9	3.2	74

160	The evolution of ribonucleotide reduction revisited. <i>Trends in Biochemical Sciences</i> , 2001 , 26, 93-9	10.3	72	
159	Generation of the R2 subunit of ribonucleotide reductase by intein chemistry: insertion of 3-nitrotyrosine at residue 356 as a probe of the radical initiation process. <i>Biochemistry</i> , 2003 , 42, 14541-	-32 ²	71	
158	Isotope effects on the cleavage of DNA by bleomycin: mechanism and modulation. <i>Biochemistry</i> , 1993 , 32, 2601-9	3.2	70	
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156	Modular evolution of the purine biosynthetic pathway. Current Opinion in Chemical Biology, 2000, 4, 567	7-327	69	
155	Detection of a new substrate-derived radical during inactivation of ribonucleotide reductase from Escherichia coli by gemcitabine 5'-diphosphate. <i>Biochemistry</i> , 1998 , 37, 6419-26	3.2	63	
154	Escherichia coli class Ib ribonucleotide reductase contains a dimanganese(III)-tyrosyl radical cofactor in vivo. <i>Biochemistry</i> , 2011 , 50, 1672-81	3.2	61	
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152	Use of rapid kinetics methods to study the assembly of the diferric-tyrosyl radical cofactor of E. coli ribonucleotide reductase. <i>Methods in Enzymology</i> , 1995 , 258, 278-303	1.7	61	
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150	PELDOR spectroscopy with DOPA-beta2 and NH2Y-alpha2s: distance measurements between residues involved in the radical propagation pathway of E. coli ribonucleotide reductase. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15748-9	16.4	59	
149	Inactivation of ribonucleotide reductase by (E)-2'-fluoromethylene-2'-deoxycytidine 5'-diphosphate: a paradigm for nucleotide mechanism-based inhibitors. <i>Biochemistry</i> , 1996 , 35, 8381-91	3.2	59	
148	Growth and localization of polyhydroxybutyrate granules in Ralstonia eutropha. <i>Journal of Bacteriology</i> , 2012 , 194, 1092-9	3.5	58	
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143	Kinetics of radical intermediate formation and deoxynucleotide production in 3-aminotyrosine-substituted Escherichia coli ribonucleotide reductases. <i>Journal of the American Chemical Society</i> 2011 , 133, 9430-40	16.4	56	

142	Structure of the Catalytic Domain of the Class I Polyhydroxybutyrate Synthase from Cupriavidus necator. <i>Journal of Biological Chemistry</i> , 2016 , 291, 25264-25277	5.4	55
141	Tangled up in knots: structures of inactivated forms of E. coli class Ia ribonucleotide reductase. <i>Structure</i> , 2012 , 20, 1374-83	5.2	55
140	Mechanistic studies of semicarbazone triapine targeting human ribonucleotide reductase in vitro and in mammalian cells: tyrosyl radical quenching not involving reactive oxygen species. <i>Journal of Biological Chemistry</i> , 2012 , 287, 35768-35778	5.4	55
139	Pulsed ELDOR spectroscopy measures the distance between the two tyrosyl dadicals in the R2 subunit of the E. coli ribonucleotide reductase. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14	988- 9	55
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137	Circular Dichroism and Magnetic Circular Dichroism Studies of the Fully Reduced Binuclear Non-Heme Iron Active Site in the Escherichia coli R2 Subunit of Ribonucleoside Diphosphate Reductase. <i>Journal of the American Chemical Society</i> , 1995 , 117, 12664-12678	16.4	55
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134	Site-specific incorporation of fluorotyrosines into the R2 subunit of E. coli ribonucleotide reductase by expressed protein ligation. <i>Nature Protocols</i> , 2007 , 2, 1225-35	18.8	53
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132	Bleomycins: new methods will allow reinvestigation of old issues. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 175-81	9.7	52
131	A hot oxidant, 3-NO2Y122 radical, unmasks conformational gating in ribonucleotide reductase. Journal of the American Chemical Society, 2010 , 132, 15368-79	16.4	51
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129	Ribonucleotide Reductases: Structure, Chemistry, and Metabolism Suggest New Therapeutic Targets. <i>Annual Review of Biochemistry</i> , 2020 , 89, 45-75	29.1	50
128	Structure of the nucleotide radical formed during reaction of CDP/TTP with the E441Q-alpha2beta2 of E. coli ribonucleotide reductase. <i>Journal of the American Chemical Society</i> , 2009 , 131, 200-11	16.4	50
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119	A Systematic Evaluation of the Bleomycin A2l-Threonine Side Chain: Its Role in Preorganization of a Compact Conformation Implicated in Sequence-Selective DNA Cleavage. <i>Journal of the American Chemical Society</i> , 1998 , 120, 9139-9148	16.4	47
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117	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, 13828-30	16.4	46
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113	Structure of the nitrogen-centered radical formed during inactivation of E. coli ribonucleotide reductase by 2'-azido-2'-deoxyuridine-5'-diphosphate: trapping of the 3'-ketonucleotide. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7729-38	16.4	45
112	Mechanism of inactivation of human ribonucleotide reductase with p53R2 by gemcitabine 5'-diphosphate. <i>Biochemistry</i> , 2009 , 48, 11612-21	3.2	44
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110	Function of the diiron cluster of Escherichia coli class Ia ribonucleotide reductase in proton-coupled electron transfer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8585-93	16.4	43
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102	pH Dependence of charge transfer between tryptophan and tyrosine in dipeptides. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005 , 1706, 232-8	4.6	38
101	Site-specific replacement of a conserved tyrosine in ribonucleotide reductase with an aniline amino acid: a mechanistic probe for a redox-active tyrosine. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16702-3	16.4	38
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