

Nick E Le Brun

List of Publications by Year in descending order

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120
papers

4,718
citations

87401

40
h-index

139680

61
g-index

124
all docs

124
docs citations

124
times ranked

3842
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron–sulfur clusters as inhibitors and catalysts of viral replication. <i>Nature Chemistry</i> , 2022, 14, 253-266.	6.6	23
2	The Di-Iron Protein YtfE Is a Nitric Oxide-Generating Nitrite Reductase Involved in the Management of Nitrosative Stress. <i>Journal of the American Chemical Society</i> , 2022, 144, 7129-7145.	6.6	8
3	Second Coordination Sphere Effects on the Mechanistic Pathways for Dioxygen Activation by a Ferritin: Involvement of a Tyr Radical and the Identification of a Cation Binding Site. <i>ChemBioChem</i> , 2022, 23, .	1.3	12
4	Insights into methionine S-methylation in diverse organisms. <i>Nature Communications</i> , 2022, 13, .	5.8	9
5	Mechanistic insights into the key marine dimethylsulfoniopropionate synthesis enzyme DsyB/DSYB. , 2022, 1, 114-130.		5
6	Electron Transfer from Haem to the Di-Iron Ferroxidase Centre in Bacterioferritin. <i>Angewandte Chemie</i> , 2021, 133, 8457-8460.	1.6	1
7	Electron Transfer from Haem to the Di-Iron Ferroxidase Centre in Bacterioferritin. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8376-8379.	7.2	9
8	Iron Oxidation in Escherichia coli Bacterioferritin Ferroxidase Centre, a Site Designed to React Rapidly with H ₂ O ₂ but Slowly with O ₂ . <i>Angewandte Chemie</i> , 2021, 133, 8442-8450.	1.6	0
9	Iron Oxidation in Escherichia coli Bacterioferritin Ferroxidase Centre, a Site Designed to React Rapidly with H ₂ O ₂ but Slowly with O ₂ . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8361-8369.	7.2	15
10	Biological iron-sulfur clusters: Mechanistic insights from mass spectrometry. <i>Coordination Chemistry Reviews</i> , 2021, 448, 214171.	9.5	10
11	Native Mass Spectrometry of Iron-Sulfur Proteins. <i>Methods in Molecular Biology</i> , 2021, 2353, 231-258.	0.4	7
12	Sensing mechanisms of iron–sulfur cluster regulatory proteins elucidated using native mass spectrometry. <i>Dalton Transactions</i> , 2021, 50, 7887-7897.	1.6	10
13	Key carboxylate residues for iron transit through the prokaryotic ferritin SynFtn. <i>Microbiology (United Kingdom)</i> , 2021, 167, .	0.7	2
14	Bacterial iron detoxification at the molecular level. <i>Journal of Biological Chemistry</i> , 2020, 295, 17602-17623.	1.6	63
15	Electron and Proton Transfers Modulate DNA Binding by the Transcription Regulator RsrR. <i>Journal of the American Chemical Society</i> , 2020, 142, 5104-5116.	6.6	11
16	Routes of iron entry into, and exit from, the catalytic ferroxidase sites of the prokaryotic ferritin SynFtn. <i>Dalton Transactions</i> , 2020, 49, 1545-1554.	1.6	10
17	Interaction of the Streptomyces Wbl protein WhiD with the principal sigma factor σ^H depends on the WhiD [4Fe-4S] cluster. <i>Journal of Biological Chemistry</i> , 2020, 295, 9752-9765.	1.6	10
18	nosX is essential for whole-cell N ₂ O reduction in Paracoccus denitrificans but not for assembly of copper centres of nitrous oxide reductase. <i>Microbiology (United Kingdom)</i> , 2020, 166, 909-917.	0.7	4

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19	Generation of 34S-substituted protein-bound [4Fe-4S] clusters using 34S-L-cysteine. <i>Biology Methods and Protocols</i> , 2019, 4, bpy015.	1.0	10
20	NosL is a dedicated copper chaperone for assembly of the Cu _Z center of nitrous oxide reductase. <i>Chemical Science</i> , 2019, 10, 4985-4993.	3.7	24
21	Mass Spectrometric Identification of [4Fe-4S](NO) Intermediates of Nitric Oxide Sensing by Regulatory Iron-Sulfur Cluster Proteins. <i>Chemistry - A European Journal</i> , 2019, 25, 3675-3684.	1.7	24
22	Crystal Structure of the Transcription Regulator RsrR Reveals a [2Fe-2S] Cluster Coordinated by Cys, Glu, and His Residues. <i>Journal of the American Chemical Society</i> , 2019, 141, 2367-2375.	6.6	18
23	Reaction of O ₂ with a diiron protein generates a mixed-valent Fe ²⁺ /Fe ³⁺ center and peroxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2058-2067.	3.3	22
24	Mass spectrometric studies of Cu(I)-binding to the N-terminal domains of <i>B. subtilis</i> CopA and influence of bacillithiol. <i>Journal of Inorganic Biochemistry</i> , 2019, 190, 24-30.	1.5	7
25	Mechanisms of iron- and O ₂ -sensing by the [4Fe-4S] cluster of the global iron regulator RirA. <i>ELife</i> , 2019, 8, .	2.8	27
26	Redox-Sensing Iron-Sulfur Cluster Regulators. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 1809-1829.	2.5	32
27	The N-terminal domains of <i>Bacillus subtilis</i> CopA do not form a stable complex in the absence of their inter-domain linker. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 275-282.	1.1	5
28	Mass spectrometric detection of iron nitrosyls, sulfide oxidation and mycothiolation during nitrosylation of the NO sensor [4Fe-4S] NsrR. <i>Chemical Communications</i> , 2018, 54, 5992-5995.	2.2	28
29	Electron transfer ferredoxins with unusual cluster binding motifs support secondary metabolism in many bacteria. <i>Chemical Science</i> , 2018, 9, 7948-7957.	3.7	29
30	NBP35 interacts with DRE ₂ in the maturation of cytosolic iron-sulphur proteins in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2017, 89, 590-600.	2.8	31
31	Kinetic analysis of copper transfer from a chaperone to its target protein mediated by complex formation. <i>Chemical Communications</i> , 2017, 53, 1397-1400.	2.2	12
32	Crystal structures of the NO sensor NsrR reveal how its iron-sulfur cluster modulates DNA binding. <i>Nature Communications</i> , 2017, 8, 15052.	5.8	59
33	Cmr is a redox-responsive regulator of DosR that contributes to <i>M. tuberculosis</i> virulence. <i>Nucleic Acids Research</i> , 2017, 45, 6600-6612.	6.5	22
34	Mass spectrometric identification of intermediates in the O ₂ -driven [4Fe-4S] to [2Fe-2S] cluster conversion in FNR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3215-E3223.	3.3	46
35	Diversity of Fe ²⁺ entry and oxidation in ferritins. <i>Current Opinion in Chemical Biology</i> , 2017, 37, 122-128.	2.8	31
36	Sensing iron availability via the fragile [4Fe-4S] cluster of the bacterial transcriptional repressor RirA. <i>Chemical Science</i> , 2017, 8, 8451-8463.	3.7	27

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37	Tyr25, Tyr58 and Trp133 of Escherichia colibacterioferritin transfer electrons between iron in the central cavity and the ferroxidase centre. <i>Metallomics</i> , 2017, 9, 1421-1428.	1.0	17
38	Redox-sensing iron-sulfur cluster regulators. <i>Antioxidants and Redox Signaling</i> , 2017, , .	2.5	1
39	Structure of a Wbl protein and implications for NO sensing by <i>M. tuberculosis</i> . <i>Nature Communications</i> , 2017, 8, 2280.	5.8	38
40	13. Reactivity of iron-sulfur clusters with nitric oxide. , 2017, , 387-438.		1
41	The Molecular Bases of the Dual Regulation of Bacterial Iron Sulfur Cluster Biogenesis by CyaY and IscX. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 97.	1.6	25
42	Iron- Sulfur Cluster-based Sensors. 2-Oxoglutarate-Dependent Oxygenases, 2017, , 136-178.	0.8	0
43	Biochemical properties of <i>Paracoccus denitrificans</i> FnrP: reactions with molecular oxygen and nitric oxide. <i>Journal of Biological Inorganic Chemistry</i> , 2016, 21, 71-82.	1.1	22
44	Nitrosylation of Nitric Oxide-Sensing Regulatory Proteins Containing [4Fe-4S] Clusters Gives Rise to Multiple Iron-Nitrosyl Complexes. <i>Angewandte Chemie</i> , 2016, 128, 14795-14799.	1.6	4
45	Differentiated, Promoter-specific Response of [4Fe-4S] NsrR DNA Binding to Reaction with Nitric Oxide. <i>Journal of Biological Chemistry</i> , 2016, 291, 8663-8672.	1.6	32
46	Mass spectrometry of <i>B. subtilis</i> CopZ: Cu-binding and interactions with bacillithiol. <i>Metallomics</i> , 2016, 8, 709-719.	1.0	25
47	Nitrosylation of Nitric Oxide-Sensing Regulatory Proteins Containing [4Fe-4S] Clusters Gives Rise to Multiple Iron-Nitrosyl Complexes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14575-14579.	7.2	33
48	Characterization of a putative NsrR homologue in <i>Streptomyces venezuelae</i> reveals a new member of the Rrf2 superfamily. <i>Scientific Reports</i> , 2016, 6, 31597.	1.6	30
49	Ferritins: furnishing proteins with iron. <i>Journal of Biological Inorganic Chemistry</i> , 2016, 21, 13-28.	1.1	87
50	Three Aromatic Residues are Required for Electron Transfer during Iron Mineralization in Bacterioferritin. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14763-14767.	7.2	24
51	Three Aromatic Residues are Required for Electron Transfer during Iron Mineralization in Bacterioferritin. <i>Angewandte Chemie</i> , 2015, 127, 14976-14980.	1.6	14
52	PerR controls oxidative stress defence and aerotolerance but not motility-associated phenotypes of <i>Campylobacter jejuni</i> . <i>Microbiology (United Kingdom)</i> , 2015, 161, 1524-1536.	0.7	26
53	The B-type Channel Is a Major Route for Iron Entry into the Ferroxidase Center and Central Cavity of Bacterioferritin. <i>Journal of Biological Chemistry</i> , 2015, 290, 3732-3739.	1.6	24
54	NsrR from <i>Streptomyces coelicolor</i> Is a Nitric Oxide-sensing [4Fe-4S] Cluster Protein with a Specialized Regulatory Function. <i>Journal of Biological Chemistry</i> , 2015, 290, 12689-12704.	1.6	77

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55	Three <i>Pseudomonas putida</i> FNR Family Proteins with Different Sensitivities to O ₂ . <i>Journal of Biological Chemistry</i> , 2015, 290, 16812-16823.	1.6	19
56	A Diatom Ferritin Optimized for Iron Oxidation but Not Iron Storage. <i>Journal of Biological Chemistry</i> , 2015, 290, 28416-28427.	1.6	31
57	Influence of association state and DNA binding on the O ₂ -reactivity of [4Fe-4S] fumarate and nitrate reduction (FNR) regulator. <i>Biochemical Journal</i> , 2014, 463, 83-92.	1.7	19
58	Mechanisms of iron mineralization in ferritins: one size does not fit all. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 775-785.	1.1	67
59	Iron-Sulfur Clusters as Biological Sensors: The Chemistry of Reactions with Molecular Oxygen and Nitric Oxide. <i>Accounts of Chemical Research</i> , 2014, 47, 3196-3205.	7.6	156
60	Techniques for the Production, Isolation, and Analysis of Iron-Sulfur Proteins. <i>Methods in Molecular Biology</i> , 2014, 1122, 33-48.	0.4	26
61	Mechanism of Ferrous Iron Binding and Oxidation by Ferritin from a Pennate Diatom. <i>Journal of Biological Chemistry</i> , 2013, 288, 14917-14925.	1.6	53
62	Mechanism of [4Fe-4S](Cys) ₄ Cluster Nitrosylation Is Conserved among NO-responsive Regulators. <i>Journal of Biological Chemistry</i> , 2013, 288, 11492-11502.	1.6	59
63	Fe-haem bound to <i>Escherichia coli</i> bacterioferritin accelerates iron core formation by an electron transfer mechanism. <i>Biochemical Journal</i> , 2012, 444, 553-560.	1.7	22
64	Reversible cycling between cysteine persulfide-ligated [2Fe-2S] and cysteine-ligated [4Fe-4S] clusters in the FNR regulatory protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15734-15739.	3.3	110
65	CopAb, the second N-terminal soluble domain of <i>Bacillus subtilis</i> CopA, dominates the Cu(I)-binding properties of CopAab. <i>Dalton Transactions</i> , 2012, 41, 5939.	1.6	8
66	Bacterial Iron-Sulfur Regulatory Proteins As Biological Sensor-Switches. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1215-1231.	2.5	71
67	Cu(I)- and proton-binding properties of the first N-terminal soluble domain of <i>Bacillus subtilis</i> CopA. <i>FEBS Journal</i> , 2012, 279, 285-298.	2.2	10
68	Iron-sulfur cluster sensor-regulators. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 35-44.	2.8	87
69	Mechanistic Insight into the Nitrosylation of the [4Fe-4S] Cluster of WhiB-like Proteins. <i>Journal of the American Chemical Society</i> , 2011, 133, 1112-1121.	6.6	124
70	Heme binding to the second, lower-affinity site of the global iron regulator Irr from <i>Rhizobium leguminosarum</i> promotes oligomerization. <i>FEBS Journal</i> , 2011, 278, 2011-2021.	2.2	13
71	A New Role for Heme, Facilitating Release of Iron from the Bacterioferritin Iron Biomineral. <i>Journal of Biological Chemistry</i> , 2011, 286, 3473-3483.	1.6	61
72	<i>Mycobacterium tuberculosis</i> WhiB1 is an essential DNA-binding protein with a nitric oxide-sensitive iron-sulfur cluster. <i>Biochemical Journal</i> , 2010, 432, 417-427.	1.7	114

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73	Heme-responsive DNA Binding by the Global Iron Regulator Irr from <i>Rhizobium leguminosarum</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 16023-16031.	1.6	44
74	The dddP gene of <i>Roseovarius nubinhibens</i> encodes a novel lyase that cleaves dimethylsulfoniopropionate into acrylate plus dimethyl sulfide. <i>Microbiology (United Kingdom)</i> , 2010, 156, 1900-1906.	0.7	49
75	Iron core mineralisation in prokaryotic ferritins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010, 1800, 732-744.	1.1	97
76	There's NO stopping NsrR, a global regulator of the bacterial NO stress response. <i>Trends in Microbiology</i> , 2010, 18, 149-156.	3.5	111
77	Crystal Structure and Biophysical Properties of <i>Bacillus subtilis</i> BdbD. <i>Journal of Biological Chemistry</i> , 2009, 284, 23719-23733.	1.6	37
78	Structural and Mechanistic Studies of a Stabilized Subunit Dimer Variant of <i>Escherichia coli</i> Bacterioferritin Identify Residues Required for Core Formation. <i>Journal of Biological Chemistry</i> , 2009, 284, 18873-18881.	1.6	23
79	The O ₂ sensitivity of the transcription factor FNR is controlled by Ser24 modulating the kinetics of [4Fe-4S] to [2Fe-2S] conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4659-4664.	3.3	75
80	Structure and Functional Properties of <i>Bacillus subtilis</i> Endospore Biogenesis Factor StoA. <i>Journal of Biological Chemistry</i> , 2009, 284, 10056-10066.	1.6	14
81	Characterization of [4Fe-4S]-Containing and Cluster-Free Forms of <i>Streptomyces</i> WhiD. <i>Biochemistry</i> , 2009, 48, 12252-12264.	1.2	73
82	Monitoring the Iron Status of the Ferroxidase Center of <i>Escherichia coli</i> Bacterioferritin Using Fluorescence Spectroscopy. <i>Biochemistry</i> , 2009, 48, 9031-9039.	1.2	27
83	Structural Basis for Iron Mineralization by Bacterioferritin. <i>Journal of the American Chemical Society</i> , 2009, 131, 6808-6813.	6.6	82
84	The N-terminal soluble domains of <i>Bacillus subtilis</i> CopA exhibit a high affinity and capacity for Cu(I) ions. <i>Dalton Transactions</i> , 2009, , 688-696.	1.6	16
85	A Tetranuclear Cu(I) Cluster in the Metallochaperone Protein CopZ. <i>Biochemistry</i> , 2009, 48, 9324-9326.	1.2	31
86	Mechanistic insights into Cu(I) cluster transfer between the chaperone CopZ and its cognate Cu(I)-transporting P-type ATPase, CopA. <i>Biochemical Journal</i> , 2009, 424, 347-356.	1.7	30
87	Distinct characteristics of Ag ⁺ and Cd ²⁺ binding to CopZ from <i>Bacillus subtilis</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 1011-1023.	1.1	18
88	Reactions of Nitric Oxide and Oxygen with the Regulator of Fumarate and Nitrate Reduction, a Global Transcriptional Regulator, during Anaerobic Growth of <i>Escherichia coli</i> . <i>Methods in Enzymology</i> , 2008, 437, 191-209.	0.4	39
89	Structure and Cu(I)-binding properties of the N-terminal soluble domains of <i>Bacillus subtilis</i> CopA. <i>Biochemical Journal</i> , 2008, 411, 571-579.	1.7	34
90	Influence of the Environment on the [4Fe ²⁺ 4S] ²⁺ to [2Fe ²⁺ 2S] ²⁺ Cluster Switch in the Transcriptional Regulator FNR. <i>Journal of the American Chemical Society</i> , 2008, 130, 1749-1758.	6.6	63

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91	The Active-Site Cysteinylys and Hydrophobic Cavity Residues of ResA Are Important for Cytochrome <i>c</i> Maturation in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2008, 190, 4697-4705.	1.0	13
92	Effects of substitutions in the CXXC active-site motif of the extracytoplasmic thioredoxin ResA. <i>Biochemical Journal</i> , 2008, 414, 81-91.	1.7	36
93	Signal perception by FNR: the role of the iron-sulfur cluster 1. <i>Biochemical Society Transactions</i> , 2008, 36, 1144-1148.	1.6	31
94	High Cu(I) and low proton affinities of the CXXC motif of <i>Bacillus subtilis</i> CopZ. <i>Biochemical Journal</i> , 2008, 413, 459-465.	1.7	55
95	The Transcriptional Repressor Protein NsrR Senses Nitric Oxide Directly via a [2Fe-2S] Cluster. <i>PLoS ONE</i> , 2008, 3, e3623.	1.1	121
96	RsmA Is an Anti-sigma Factor That Modulates Its Activity through a [2Fe-2S] Cluster Cofactor. <i>Journal of Biological Chemistry</i> , 2007, 282, 31812-31820.	1.6	32
97	Superoxide-mediated amplification of the oxygen-induced switch from [4Fe-4S] to [2Fe-2S] clusters in the transcriptional regulator FNR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2092-2097.	3.3	114
98	Atx1-like chaperones and their cognate P-type ATPases: copper-binding and transfer. <i>BioMetals</i> , 2007, 20, 275-289.	1.8	51
99	Molecular Basis for Specificity of the Extracytoplasmic Thioredoxin ResA. <i>Journal of Biological Chemistry</i> , 2006, 281, 35467-35477.	1.6	35
100	Detection of Sulfide Release from the Oxygen-sensing [4Fe-4S] Cluster of FNR. <i>Journal of Biological Chemistry</i> , 2006, 281, 18909-18913.	1.6	58
101	Formation of protein-coated iron minerals. <i>Dalton Transactions</i> , 2005, , 3597.	1.6	98
102	Structural Basis of Redox-coupled Protein Substrate Selection by the Cytochrome <i>c</i> Biosynthesis Protein ResA. <i>Journal of Biological Chemistry</i> , 2004, 279, 23654-23660.	1.6	56
103	Effect of phosphate on bacterioferritin-catalysed iron(II) oxidation. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 161-170.	1.1	39
104	Protein-Template-Driven Formation of Polynuclear Iron Species. <i>Journal of the American Chemical Society</i> , 2004, 126, 496-504.	6.6	23
105	CopZ from <i>Bacillus subtilis</i> interacts in vivo with a copper exporting CPx-type ATPase CopA. <i>FEMS Microbiology Letters</i> , 2003, 220, 105-112.	0.7	91
106	Core Formation in <i>Escherichia coli</i> Bacterioferritin Requires a Functional Ferroxidase Center. <i>Biochemistry</i> , 2003, 42, 14047-14056.	1.2	62
107	<i>Bacillus subtilis</i> ResA Is a Thiol-Disulfide Oxidoreductase Involved in Cytochrome <i>c</i> Synthesis. <i>Journal of Biological Chemistry</i> , 2003, 278, 17852-17858.	1.6	74
108	Copper-mediated dimerization of CopZ, a predicted copper chaperone from <i>Bacillus subtilis</i> . <i>Biochemical Journal</i> , 2002, 368, 729-739.	1.7	56

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109	Iron Detoxification Properties of Escherichia coli Bacterioferritin. Journal of Biological Chemistry, 2002, 277, 37064-37069.	1.6	74
110	Studies of copper(II)-binding to bacterioferritin and its effect on iron(II) oxidation Based on the presentation given at Dalton Discussion No. 4, 10 th 13th January 2002, Kloster Banz, Germany.. Dalton Transactions RSC, 2002, , 811-818.	2.3	13
111	Genes required for cytochrome c synthesis in Bacillus subtilis. Molecular Microbiology, 2002, 36, 638-650.	1.2	85
112	The Iron Oxidation and Hydrolysis Chemistry of Escherichia coli Bacterioferritin. Biochemistry, 2000, 39, 4915-4923.	1.2	104
113	Studies of the Cytochrome Subunits of Menaquinone: Cytochrome c Reductase (bc Complex) of Bacillus subtilis. Journal of Biological Chemistry, 1998, 273, 8860-8866.	1.6	65
114	Spectroscopic Studies of Cobalt(II) Binding to Escherichia coli Bacterioferritin. Journal of Biological Chemistry, 1997, 272, 422-429.	1.6	26
115	Charge compensated binding of divalent metals to bacterioferritin: H ⁺ release associated with cobalt(II) and zinc(II) binding at dinuclear metal sites. FEBS Letters, 1996, 397, 159-163.	1.3	33
116	MCD, EPR and NMR spectroscopic studies of rabbit hemopexin and its heme binding domain. BBA - Proteins and Proteomics, 1995, 1253, 215-223.	2.1	13
117	Site-directed Replacement of the Coaxial Heme Ligands of Bacterioferritin Generates Heme-free Variants. Journal of Biological Chemistry, 1995, 270, 23268-23274.	1.6	84
118	Magnetic circular dichroism spectroscopy of the iron cores of ferritin and bacterioferritin. Molecular Physics, 1995, 85, 1061-1068.	0.8	10
119	Kinetic and structural characterization of an intermediate in the biomineralization of bacterioferritin. FEBS Letters, 1993, 333, 197-202.	1.3	80
120	An EPR investigation of non-haem iron sites in Escherichia coli bacterioferritin and their interaction with phosphate. FEBS Letters, 1993, 323, 261-266.	1.3	29