Jacques Meyer

List of Publications by Year
in descending order

58 papers	3,502 citations	136950 32 h-index	144013 57 g-index
62 all docs	62 docs citations	62 times ranked	2617 citing authors

#	Article	IF	Citations
1	Spectroscopic and Redox Studies of Valence-Delocalized [Fe2S2]+ Centers in Thioredoxin-like Ferredoxins. Journal of the American Chemical Society, 2015, 137, 4567-4580.	13.7	20
2	EPR and 57Fe ENDOR investigation of 2Fe ferredoxins from Aquifex aeolicus. Journal of Biological Inorganic Chemistry, 2012, 17, 1137-1150.	2.6	9
3	Ironâ€"sulfur protein folds, ironâ€"sulfur chemistry, and evolution. Journal of Biological Inorganic Chemistry, 2008, 13, 157-170.	2.6	218
4	Dynamics ofRhodobacter capsulatus[2Fe-2S] Ferredoxin VI andAquifex aeolicusFerredoxin 5 via Nuclear Resonance Vibrational Spectroscopy (NRVS) and Resonance Raman Spectroscopyâ€. Biochemistry, 2008, 47, 6612-6627.	2.5	34
5	Assignment of Individual Metal Redox States in a Metalloprotein by Crystallographic Refinement at Multiple X-ray Wavelengths. Journal of the American Chemical Society, 2007, 129, 2210-2211.	13.7	47
6	Miraculous catch of iron-sulfur protein sequences in the Sargasso Sea. FEBS Letters, 2004, 570, 1-6.	2.8	12
7	Ironâ€"Sulfur Proteins. , 2004, , 482-489.		15
8	An Isc-Type Extremely Thermostable [2Feâˆ'2S] Ferredoxin from Aquifex aeolicus. Biochemical, Spectroscopic, and Unfolding Studies. Biochemistry, 2003, 42, 1354-1364.	2.5	40
9	High Resolution Crystal Structures of the Wild Type and Cys-55 â†' Ser and Cys-59 â†' Ser Variants of the Thioredoxin-like [2Fe-2S] Ferredoxin from Aquifex aeolicus. Journal of Biological Chemistry, 2002, 277, 34499-34507.	3.4	31
10	A Hyperthermophilic Plant-Type [2Fe-2S] Ferredoxin from Aquifex aeolicus Is Stabilized by a Disulfide Bond. Biochemistry, 2002, 41, 3096-3108.	2.5	67
11	MÃ¶ssbauer Study of Reduced Rubredoxin As Purified and in Whole Cells. Structural Correlation Analysis of Spin Hamiltonian Parameters. Inorganic Chemistry, 2002, 41, 6358-6371.	4.0	51
12	Exceptional stability of a [2Feâ€"2S] ferredoxin from hyperthermophilic bacterium Aquifex aeolicus. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1599, 82-89.	2.3	11
13	Ferredoxins of the third kind. FEBS Letters, 2001, 509, 1-5.	2.8	80
14	Mapping the interaction of the [2Feâ€"2S] Clostridium pasteurianum ferredoxin with the nitrogenase MoFe protein. BBA - Proteins and Proteomics, 2001, 1549, 32-36.	2.1	10
15	Classification and phylogeny of hydrogenases. FEMS Microbiology Reviews, 2001, 25, 455-501.	8.6	882
16	Characterization of the gene encoding the [Fe]-hydrogenase from Megasphaera elsdenii. BBA - Proteins and Proteomics, 2000, 1476, 368-371.	2.1	39
17	MÃ¶ssbauer, EPR, and MCD studies of the C9S and C42S variants of Clostridium pasteurianum rubredoxin and MCD studies of the wild-type protein. Journal of Biological Inorganic Chemistry, 2000, 5, 475-487.	2.6	32
18	Structure of a thioredoxin-like [2Fe-2S] ferredoxin from Aquifex aeolicus. Journal of Molecular Biology, 2000, 300, 587-595.	4.2	62

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19	MÃ¶ssbauer Evidence for a Diferrous [2Fe-2S] Cluster in a Ferredoxin fromAquifexaeolicus. Journal of the American Chemical Society, 1999, 121, 10450-10451.	13.7	22
20	Structural Similarities between the N-Terminal Domain ofClostridium pasteurianumHydrogenase and Plant-Type Ferredoxins. Biochemistry, 1999, 38, 1938-1943.	2.5	13
21	Observation and Interpretation of Temperature-Dependent Valence Delocalization in the [2Feâˆ'2S]+Cluster of a Ferredoxin fromClostridium pasteurianum. Journal of the American Chemical Society, 1999, 121, 3704-3714.	13.7	57
22	A [2Feâ€"2S] Protein from the Hyperthermophilic Bacterium Aquifex Aeolicus. Biochemical and Biophysical Research Communications, 1999, 261, 885-889.	2.1	31
23	Extensive Ligand Rearrangements around the [2Fe-2S] Cluster of Clostridium pasteurianum Ferredoxin. Biochemistry, 1998, 37, 10429-10437.	2.5	32
24	Heterologous Biosynthesis and Characterization of the [2Fe-2S]-Containing N-Terminal Domain ofClostridium pasteurianumHydrogenaseâ€. Biochemistry, 1998, 37, 15974-15980.	2.5	25
25	Atomic Resolution (0.94 Å...) Structure of Clostridium acidurici Ferredoxin. Detailed Geometry of [4Fe-4S] Clusters in a Protein,. Biochemistry, 1997, 36, 16065-16073.	2.5	153
26	Assembly of a [2Fe-2S]2+ Cluster in a Molecular Variant of Clostridium pasteurianum Rubredoxin. Biochemistry, 1997, 36, 13374-13380.	2.5	33
27	Specific Interaction of the [2Fe-2S] Ferredoxin fromClostridium pasteurianumwith the Nitrogenase MoFe Protein. Biochemistry, 1997, 36, 11797-11803.	2.5	28
28	Coordination of the [2Fe-2S] Cluster in Wild Type and Molecular Variants ofClostridium pasteurianumFerredoxin, Investigated by ESEEM Spectroscopyâ€. Biochemistry, 1996, 35, 12842-12848.	2.5	22
29	Cysteine Ligand Swapping on a Deletable Loop of the [2Fe-2S] Ferredoxin fromClostridium pasteurianumâ€. Biochemistry, 1996, 35, 8995-9002.	2.5	35
30	MÃ¶ssbauer Study of Cys56Ser Mutant 2Fe Ferredoxin fromClostridium Pasteurianum:Â Evidence for Double Exchange in an [Fe2S2]+Cluster. Journal of the American Chemical Society, 1996, 118, 8168-8169.	13.7	86
31	Molecular mechanism of pyruvate-ferredoxin oxidoreductases based on data obtained with theClostridium pasteurianumenzyme. FEBS Letters, 1996, 380, 287-290.	2.8	27
32	The coordination sphere of iron-sulfur clusters: lessons from site-directed mutagenesis experiments. Journal of Biological Inorganic Chemistry, 1996, 1, 2-14.	2.6	55
33	Sequence of a 10.5 kbp Fragment of Clostridium pasteurianum Genomic DNA Encompassing the Hydrogenase I Gene and Two Spore Germination Genes. Anaerobe, 1995, 1, 169-174.	2.1	8
34	Spectroscopic Evidence for a Reduced Fe2S2 Cluster with a S = 9/2 Ground State in Mutant Forms of Clostridium pasteurianum 2Fe Ferredoxin. Journal of the American Chemical Society, 1995, 117, 9612-9613.	13.7	89
35	Detection and Classification of Hyperfine-Shifted 1H, 2H, and 15N Resonances from the Four Cysteines That Ligate Iron in Oxidized and Reduced Clostridium pasteurianum Rubredoxin. Journal of the American Chemical Society, 1995, 117, 5347-5350.	13.7	60
36	Refined crystal structure of the 2[4Fe-4S] ferredoxin from Clostridium acidurici at 1.84 Å... resolution. Journal of Molecular Biology, 1994, 243, 683-695.	4.2	74

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37	Mutated Forms of the [2Fe-2S] Ferredoxin from Clostridium pasteurianum with Noncysteinyl Ligands to the Iron-Sulfur Cluster. Biochemistry, 1994, 33, 13642-13650.	2.5	69
38	Sequential assignments by1H 2D NMR of oxidized ferredoxins fromClostridium pasteurianum andClostridium acidurici. Magnetic Resonance in Chemistry, 1993, 31, S27-S33.	1.9	14
39	Transcript mapping of the rubredoxin gene fromClostridium pasteurianum. FEMS Microbiology Letters, 1993, 112, 223-227.	1.8	4
40	Cloning and sequencing of the gene encoding the [2Fe-2S] ferredoxin from Clostridium pasteurianum. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1993, 1174, 108-110.	2.4	11
41	Replacement Of Sulfur By Selenium In Ironâ€"Sulfur Proteins. Advances in Inorganic Chemistry, 1992, 38, 73-115.	1.0	34
42	Primary structure of hydrogenase from Clostridium pasteurianum. Biochemistry, 1991, 30, 9697-9704.	2.5	118
43	Hydrogen-1 nuclear magnetic resonance of the nitrogenase iron protein (Cp2) from Clostridium pasteurianum. Biochemistry, 1988, 27, 6150-6156.	2.5	53
44	The evolution of ferredoxins. Trends in Ecology and Evolution, 1988, 3, 222-226.	8.7	36
45	Hydrogen-1 nuclear magnetic resonance of selenium-substituted clostridial ferredoxins. Inorganic Chemistry, 1987, 26, 320-324.	4.0	32
46	High-multiplicity spin states of 2[4Fe-4Se]+ clostridial ferredoxins. Biochemistry, 1986, 25, 464-468.	2.5	43
47	Amino acid sequence of the [2Fe-2S] ferredoxin from Clostridium pasteurianum. Biochemistry, 1986, 25, 6054-6061.	2.5	63
48	Resonance Raman spectroscopy of [2Feâ^'2X]2+ (X = S, Se) clusters in ferredoxins. BBA - Proteins and Proteomics, 1986, 873, 108-118.	2.1	22
49	High-yield chemical assembly of [2Fe-2X] (X = S, Se) clusters into spinach apoferredoxin: product characterization by resonance Raman spectroscopy. BBA - Proteins and Proteomics, 1986, 871, 243-249.	2.1	34
50	[4Fe-4X]2+ (X = sulfur, selenium) clusters in Clostridium pasteurianum ferredoxin and in synthetic analogs: structural data from resonance Raman spectroscopy. Biochemistry, 1984, 23, 6605-6613.	2.5	28
51	Structural differences between [2Fe-2S] clusters in spinach ferredoxin and in the â€œRed paramagnetic proteinâ€•from Clostridium pasteurianum. A resonance Raman study. Biochemical and Biophysical Research Communications, 1984, 119, 828-835.	2.1	30
52	Resonance Raman spectroscopy of Azotobacter vinelandii ferredoxin I. FEBS Letters, 1983, 163, 212-216.	2.8	12
53	Characterization of the selenium-substituted 2[4Fe-4Se] ferredoxin from Clostridium pasteurianum. Biochemistry, 1982, 21, 4762-4771.	2.5	119
54	Comparison of carbon monoxide, nitric oxide, and nitrite as inhibitors of the nitrogenase from Clostridium pasteurianum. Archives of Biochemistry and Biophysics, 1981, 210, 246-256.	3.0	71

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55	Replacement of sulfide by selenide in the [4Fe-4S] clusters of the ferredoxin fromClostridium pasteurianum. Biochemical and Biophysical Research Communications, 1981, 103, 667-673.	2.1	23
56	Effects of L-methionine-DL-sulfoximine and Î²-N-oxalyl-L-Î±,Î²-diaminopropionic acid on nitrogenase biosynthesis and activity in Rhodopseudomonas capsulata. Biochemical and Biophysical Research Communications, 1979, 89, 353-359.	2.1	25
57	Nitrogen fixation and hydrogen metabolism in photosynthetic bacteria. Biochimie, 1978, 60, 245-260.	2.6	100
58	Aerobic nitrogen fixation byRhodopseudomonas capsulata. FEBS Letters, 1978, 85, 224-228.	2.8	41