Mario Piccioli

List of Publications by Year
in descending order

102 papers	3,760 citations	109321 35 h-index	138484 58 g-index
107 all docs	107 docs citations	107 times ranked	2164 citing authors

#	Article	IF	Citations
1	Interconversion between [2Feâ€“2S] and [4Feâ€“4S] cluster glutathione complexes. Chemical Communications, 2022, 58, 3533-3536.	4.1	7
2	NMR of paramagnetic metalloproteins in solution: Ubi venire, quo vadis?. Journal of Inorganic Biochemistry, 2022, 234, 111871.	3.5	10
3	Sequence-specific assignments in NMR spectra of paramagnetic systems: A non-systematic approach. Inorganica Chimica Acta, 2021, 514, 119984.	2.4	10
4	PREâ€driven protein NMR structures: an alternative approach in highly paramagnetic systems. FEBS Journal, 2021, 288, 3010-3023.	4.7	18
5	A Quantum Chemistry View on Two Archetypical Paramagnetic Pentacoordinate Nickel(II) Complexes Offers a Fresh Look on Their NMR Spectra. Inorganic Chemistry, 2021, 60, 2068-2075.	4.0	18
6	The long-standing relationship between paramagnetic NMR and ironâ€“sulfur proteins: the mitoNEET example. An old method for new stories or the other way around?. Magnetic Resonance, 2021, 2, 203-221.	1.9	9
7	Paramagnetic NMR Spectroscopy Is a Tool to Address Reactivity, Structure, and Proteinâ€“Protein Interactions of Metalloproteins: The Case of Ironâ€“Sulfur Proteins. Magnetochemistry, 2020, 6, 46.	2.4	8
8	Measuring transverse relaxation in highly paramagnetic systems. Journal of Biomolecular NMR, 2020, 74, 431-442.	2.8	14
9	1H, 13C and 15N assignment of the paramagnetic high potential ironâ€“sulfur protein (HiPIP) PioC from Rhodopseudomonas palustris TIE-1. Biomolecular NMR Assignments, 2020, 14, 211-215.	0.8	9
10	Paramagnetic 1H NMR Spectroscopy to Investigate the Catalytic Mechanism of Radical S-Adenosylmethionine Enzymes. Journal of Molecular Biology, 2019, 431, 4514-4522.	4.2	16
11	The conformation of biliverdin in dimethyl sulfoxide: implications for the coordination with copper. Structural Chemistry, 2019, 30, 2159-2166.	2.0	1
12	The biogenesis of ironâ€“sulfur proteins: from cellular biology to molecular aspects. Journal of Biological Inorganic Chemistry, 2018, 23, 493-494.	2.6	4
13	The NMR contribution to proteinâ€“protein networking in Feâ€“S protein maturation. Journal of Biological Inorganic Chemistry, 2018, 23, 665-685.	2.6	25
14	Structure and dynamics of Helicobacter pylori nickel-chaperone HypA: an integrated approach using NMR spectroscopy, functional assays and computational tools. Journal of Biological Inorganic Chemistry, 2018, 23, 1309-1330.	2.6	20
15	[4Fe-4S] Cluster Assembly in Mitochondria and Its Impairment by Copper. Journal of the American Chemical Society, 2017, 139, 719-730.	13.7	103
16	Insights into Interprotein Electron Transfer of Human Cytochrome <i>c</i> Variants Arranged in Multilayer Architectures by Means of an Artificial Silica Nanoparticle Matrix. ACS Omega, 2016, 1, 1058-1066.	3.5	11
17	Hypothesis: The Sound of the Individual Metabolic Phenotype? Acoustic Detection of NMR Experiments. OMICS A Journal of Integrative Biology, 2015, 19, 147-156.	2.0	1
18	Transient iron coordination sites in proteins: Exploiting the dual nature of paramagnetic NMR. Coordination Chemistry Reviews, 2015, 284, 313-328.	18.8	27

#	Article	IF	Citations
19	Formation of [4Fe-4S] Clusters in the Mitochondrial Ironâ€“Sulfur Cluster Assembly Machinery. Journal of the American Chemical Society, 2014, 136, 16240-16250.	13.7	114
20	The IR-15N-HSQC-AP experiment: a new tool for NMR spectroscopy of paramagnetic molecules. Journal of Biomolecular NMR, 2014, 58, 123-128.	2.8	34
21	[2Fe-2S] cluster transfer in ironâ€“sulfur protein biogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6203-6208.	7.1	116
22	Electrochemical nitration of myoglobin at tyrosine 103: Structure and stability. Archives of Biochemistry and Biophysics, 2013, 529, 26-33.	3.0	7
23	Role of the iron axial ligands of heme carrier HasA in heme uptake and release.. Journal of Biological Chemistry, 2013, 288, 2190.	3.4	1
24	Molecular view of an electron transfer process essential for ironâ€“sulfur protein biogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7136-7141.	7.1	63
25	Electron self-exchange of cytochrome c measured<i>via</i>¹³Cdetected protonless NMR. Journal of Porphyrins and Phthalocyanines, 2013, 17, 142-149.	0.8	4
26	Role of the Iron Axial Ligands of Heme Carrier HasA in Heme Uptake and Release. Journal of Biological Chemistry, 2012, 287, 26932-26943.	3.4	32
27	Toward Structural Dynamics: Protein Motions Viewed by Chemical Shift Modulations and Direct Detection of Câ€²N Multiple-Quantum Relaxation. Journal of the American Chemical Society, 2010, 132, 3594-3600.	13.7	15
28	Mapping the Interaction between the Hemophore HasA and Its Outer Membrane Receptor HasR Using CRINEPTâˆ’TROSY NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 1736-1744.	13.7	39
29	The Solution Structure of the Monomeric Copper, Zinc Superoxide Dismutase from Salmonella enterica: Structural Insights To Understand the Evolution toward the Dimeric Structure. Biochemistry, 2008, 47, 12954-12963.	2.5	17
30	Deciphering the Structural Role of Histidine 83 for Heme Binding in Hemophore HasA. Journal of Biological Chemistry, 2008, 283, 5960-5970.	3.4	45
31	NMR assignment of reduced form of copper, zinc superoxide dismutase from Salmonella enterica. Biomolecular NMR Assignments, 2007, 1, 65-67.	0.8	3
32	Direct-Detected13C NMR to Investigate the Iron(III) Hemophore HasA. Journal of the American Chemical Society, 2006, 128, 150-158.	13.7	67
33	13C Direct Detected NMR Increases the Detectability of Residual Dipolar Couplings. Journal of the American Chemical Society, 2006, 128, 15042-15043.	13.7	61
34	NMR in the SPINE Structural Proteomics project. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1150-1161.	2.5	12
35	13C direct detected COCO-TOCSY: A tool for sequence specific assignment and structure determination in protonless NMR experiments. Journal of Magnetic Resonance, 2006, 182, 325-329.	2.1	7
36	Assignment Strategy for Fast Relaxing Signals: Complete Aminoacid Identification in Thulium Substituted Calbindin D9K. Journal of Biomolecular NMR, 2006, 34, 63-73.	2.8	29

#	Article	IF	Citations
37	13C-detected protonless NMR spectroscopy of proteins in solution. Progress in Nuclear Magnetic Resonance Spectroscopy, 2006, 48, 25-45.	7.5	210
38	13C Direct detected experiments: Optimization for paramagnetic signals. Journal of Magnetic Resonance, 2005, 174, 125-132.	2.1	38
39	NMR structures of paramagnetic metalloproteins. Quarterly Reviews of Biophysics, 2005, 38, 167-219.	5.7	84
40	Asymmetry in13Câˆ'13C COSY Spectra Provides Information on Ligand Geometry in Paramagnetic Proteins. Journal of the American Chemical Society, 2005, 127, 12216-12217.	13.7	19
41	Mobility Studies in Proteins by 15N Nuclear Magnetic Resonance: Rusticyanin as an Example. Principles and Practice, 2004, , 15-33.	0.3	2
42	A simple protocol to study blue copper proteins by NMR. FEBS Journal, 2003, 270, 600-609.	0.2	14
43	Backbone Dynamics of Rusticyanin:â€‰ The High Hydrophobicity and Rigidity of This Blue Copper Protein Is Responsible for Its Thermodynamic Properties. Biochemistry, 2003, 42, 10396-10405.	2.5	26
44	Monitoring the Early Steps of Unfolding of Dicalcium and Mono-Ce3+-Substituted Forms of P43M Calbindin D9kâ€. Biochemistry, 2003, 42, 13066-13073.	2.5	5
45	New Routes to the Detection of Relaxation Allowed Coherence Transfer in Paramagnetic Molecules. Journal of the American Chemical Society, 2003, 125, 14978-14979.	13.7	8
46	A15N NMR Mobility Study on the Dicalcium P43M Calbindin D9kand Its Mono-La3+-Substituted Formâ€. Biochemistry, 2002, 41, 5104-5111.	2.5	19
47	Redox-Related Chemical Shift Perturbations on Backbone Nuclei of High-Potential Ironâˆ'Sulfur Proteins. Inorganic Chemistry, 2002, 41, 1679-1683.	4.0	8
48	Tailored HCCHâ€"TOCSY Experiment for Resonance Assignment in the Proximity of a Paramagnetic Center. Journal of Magnetic Resonance, 2002, 155, 236-243.	2.1	7
49	Cross correlation rates between Curie spin and dipole-dipole relaxation in paramagnetic proteins: the case of cerium substituted calbindin D9k. Journal of Biomolecular NMR, 2002, 23, 115-125.	2.8	40
50	Paramagnetic Probes in Metalloproteins. Methods in Enzymology, 2001, 339, 314-340.	1.0	68
51	Development of NMR Instrumentation to Achieve Excitation of Large Bandwidths in High-Resolution Spectra at High Field. Journal of Magnetic Resonance, 2001, 150, 161-166.	2.1	12
52	Locating the Metal Ion in Calcium-Binding Proteins by Using Cerium(III) as a Probe. ChemBioChem, 2001, 2, 550-558.	2.6	66
53	Paramagnetism-based versus classical constraints: an analysis of the solution structure of Ca Ln calbindin D9k. Journal of Biomolecular NMR, 2001, 21, 85-98.	2.8	101
54	Locating the Metal Ion in Calcium-Binding Proteins by Using Cerium(III) as a Probe. ChemBioChem, 2001, 2, 550-558.	2.6	1

#	Article	IF	Citations
55	Multiple selective excitation as a tool for NMR studies of paramagnetic metalloproteins. Magnetic Resonance in Chemistry, 2000, 38, 827-832.	1.9	4
56	Protein Hydration and Location of Water Molecules in Oxidized Horse Heart Cytochrome c by 1H NMR. Journal of Magnetic Resonance, 2000, 147, 1-8.	2.1	28
57	Structural and Dynamical Properties of a Partially Unfolded Fe4S4Protein:Â Role of the Cofactor in Protein Foldingâ€. Biochemistry, 1999, 38, 4669-4680.	2.5	38
58	Thermochromic Conformational Change of Methanobacterium thermoautotrophicum Iron Superoxide Dismutase. Inorganic Chemistry, 1999, 38, 614-615.	4.0	10
59	Folding properties of ironâ€"sulfur proteins. Inorganica Chimica Acta, 1998, 283, 12-16.	2.4	8
60	Solution Structure of Reduced Monomeric Q133M2 Copper, Zinc Superoxide Dismutase (SOD). Why Is SOD a Dimeric Enzyme?[,]. Biochemistry, 1998, 37, 11780-11791.	2.5	135
61	Characterization of a Partially Unfolded High Potential Iron Protein. Biochemistry, 1997, 36, 9332-9339.	2.5	66
62	Paramagnetic NMR spectroscopy of native and cobalt substituted manganese superoxide dismutase from Escherichia coli. FEBS Letters, 1997, 401, 15-19.	2.8	8
63	ePHOGSY experiments on a paramagnetic protein: location of the catalytic water molecule in the heme crevice of the oxidized form of horse heart cytochrome c. FEBS Letters, 1997, 415, 45-48.	2.8	30
64	Assignment of backbone NMR resonances and secondary structural elements of a reduced monomeric mutant of copper/zinc superoxide dismutase. Magnetic Resonance in Chemistry, 1997, 35, 845-853.	1.9	16
65	The influence of a surface charge on the electronic and steric structure of a high potential iron-sulfur protein. Journal of Biological Inorganic Chemistry, 1996, 1, 257-263.	2.6	12
66	Paramagnetic NMR Analysis of the Seven-Iron Ferredoxin from the Hyperthermoacidophilic Archaeon Desulfurolobus ambivalens Reveals Structural Similarity to other Dicluster Ferredoxins. FEBS Journal, 1996, 236, 92-99.	0.2	24
67	The Solution Structure Refinement of the Paramagnetic Reduced High-Potential Iron-Sulfur Protein I from Ectothiorhodospira Halophila by Using Stable Isotope Labeling and Nuclear Relaxation. FEBS Journal, 1996, 241, 440-452.	0.2	69
68	Solution Structure of the Oxidized 2[4Fe-4S] Ferredoxin from Clostridium Pasteurianum. FEBS Journal, 1995, 232, 192-205.	0.2	86
69	The Solution Structure of Oxidized HiPIP I from <i>Ectothiorhodospira halophila</i>; Can NMR Spectroscopy Be Used to Probe Rearrangements Associated with Electron Transfer Processes?. Chemistry - A European Journal, 1995, 1, 598-607.	3.3	30
70	The role of a conserved tyrosine residue in highâ€potential iron sulfur proteins. Protein Science, 1995, 4, 2562-2572.	7.6	39
71	Paramagnetic NMR spectroscopy and coordination structure of cobalt(II) Cys112Asp azurin. Inorganic Chemistry, 1995, 34, 737-742.	4.0	67
72	Sequence-Specific Assignment of Ligand Cysteine Protons of Oxidized, Recombinant HiPIP I from Ectothiorhodospira halophila. Inorganic Chemistry, 1995, 34, 2516-2523.	4.0	40

#	Article	IF	Citations
73	New Approaches to NMR of Paramagnetic Molecules. , 1995, , 1-28.		5
74	A spectroscopic characterization of a monomeric analog of copper, zinc superoxide dismutase. European Biophysics Journal, 1994, 23, 167-176.	2.2	70
75	NOE-NOESY, a Further Tool in NMR of Paramagnetic Metalloproteins. Journal of Magnetic Resonance Series B, 1994, 103, 278-283.	1.6	14
76	Paramagnetic Metal Centers in Proteins Investigated through Heterocorrelated NMR Spectroscopy. Journal of Magnetic Resonance Series B, 1994, 104, 95-98.	1.6	14
77	COSY spectra of paramagnetic macromolecules: Observability, scalar effects, cross-correlation effects, relaxation-allowed coherence transfer. Concepts in Magnetic Resonance, 1994, 6, 307-335.	1.3	39
78	Copper-zinc superoxide dismutase: A paramagnetic protein that provides a unique frame for the NMR investigation. Progress in Nuclear Magnetic Resonance Spectroscopy, 1994, 26, 91-139.	7.5	36
79	Sequence-specific assignment of the 1H and 15N nuclear magnetic resonance spectra of the reduced recombinant high-potential iron-sulfur protein I from Ectothiorhodospira halophila. FEBS Journal, 1994, 225, 703-714.	0.2	25
80	The three-dimensional structure in solution of the paramagnetic high-potential iron-sulfur protein I from Ectothiorhodospira halophila through nuclear magnetic resonance. FEBS Journal, 1994, 225, 715-725.	0.2	99
81	X-Ray, NMR and Molecular Dynamics Studies on Reduced Bovine Superoxide Dismutase: Implications for the Mechanism. Biochemical and Biophysical Research Communications, 1994, 202, 1088-1095.	2.1	44
82	The iron-sulfur cluster (Fe4S4) centers in ferredoxins studied through proton and carbon hyperfine coupling. Sequence-specific assignments of cysteines in ferredoxins from Clostridium acidi urici and Clostridium pasteurianum. Journal of the American Chemical Society, 1994, 116, 651-660.	13.7	147
83	Copper-cobalt superoxide dismutase: A re-examination of the1H NMR spectrum through a novel selectively deuteriated derivative. Magnetic Resonance in Chemistry, 1993, 31, S17-S22.	1.9	5
84	1H-NMR investigation of oxidized and reduced high-potential iron-sulfur protein from Rhodopseudomonas globiformis. FEBS Journal, 1993, 212, 69-78.	0.2	33
85	The structure of iron-sulfur clusters in proteins as monitored by NMR, mÃ¶ssbauer, EPR and molecular dynamics. Journal of Molecular Structure, 1993, 292, 207-219.	3.6	9
86	Two-dimensional 1 H NMR spectra of ferricytochrome c 551 from Pseudomonas aeruginosa. FEBS Letters, 1993, 324, 305-308.	2.8	9
87	The iron-sulfur cluster in the oxidized high-potential iron protein from Ectothiorhodospira halophila. Journal of the American Chemical Society, 1993, 115, 3431-3440.	13.7	69
88	Electron self-exchange in high-potential iron-sulfur proteins. Characterization of protein I from Ectothiorhodospira vacuolata. Biochemistry, 1993, 32, 12887-12893.	2.5	47
89	The electronic structure of iron-sulfur [Fe4S4]3+ clusters in proteins. An investigation of the oxidized high-potential iron-sulfur protein II from Ectothiorhodospira vacuolata. Biochemistry, 1993, 32, 9387-9397.	2.5	86
90	Two-dimensional proton NMR studies of the paramagnetic metalloenzyme copper-nickel superoxide dismutase. Inorganic Chemistry, 1992, 31, 4433-4435.	4.0	28

#	Article	IF	Citations
91	Identification of the iron ions of high potential iron protein from Chromatium vinosum within the protein frame through two-dimensional NMR experiments. Journal of the American Chemical Society, 1992, 114, 3332-3340.	13.7	97
92	NMR is a unique and necessary step in the investigation of iron sulfur proteins: the HiPIP from R. gelatinosus as an example. Inorganica Chimica Acta, 1992, 198-200, 483-491.	2.4	29
93	Advances in the NMR investigation of paramagnetic molecules in solution. Coordination Chemistry Reviews, 1992, 120, 1-28.	18.8	22
94	1H NMR studies on lanthanides substituted transferrins. Journal of Inorganic Biochemistry, 1991, 42, 185-190.	3.5	7
95	Assignment of active-site protons in the 1H-NMR spectrum of reduced human Cu/Zn superoxide dismutase. FEBS Journal, 1991, 197, 691-697.	0.2	25
96	1H NMR investigation of reduced copper-cobalt superoxide dismutase. European Biophysics Journal, 1991, 20, 269-279.	2.2	23
97	Spectroscopic studies on Cu2Zn2SOD: a continuous advancement of investigation tools. Coordination Chemistry Reviews, 1990, 100, 67-103.	18.8	120
98	Cobalt(II) as a probe of the metal binding sites of transferrins. Inorganica Chimica Acta, 1990, 174, 137-140.	2.4	4
99	Hydrogen-1 NOE and ligand field studies of copper-cobalt superoxide dismutase with anions. Inorganic Chemistry, 1990, 29, 4867-4873.	4.0	34
100	Transient versus steady state NOE in paramagnetic molecules Cu2Co2SOD as an example. FEBS Letters, 1990, 272, 175-180.	2.8	24
101	Proton NOE studies on dicopper(II) dicobalt(II) superoxide dismutase. Inorganic Chemistry, 1989, 28, 4650-4656.	4.0	140
102	Kinetic studies on metal removal from transferrins by pyrophosphate. Investigation on iron(III) and manganese(III) derivatives. Inorganic Chemistry, 1988, 27, 2405-2409.	4.0	26