

Claudio Luchinat

List of Publications by Year in descending order

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616
papers

25,369
citations

7551

77
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20307

116
g-index

651
all docs

651
docs citations

651
times ranked

18150
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic susceptibility in paramagnetic NMR. Progress in Nuclear Magnetic Resonance Spectroscopy, 2002, 40, 249-273.	3.9	431
2	Perspectives on NMR in drug discovery: a technique comes of age. Nature Reviews Drug Discovery, 2008, 7, 738-745.	21.5	373
3	Solution Structure of Oxidized Horse Heart Cytochrome c. Biochemistry, 1997, 36, 9867-9877.	1.2	290
4	NMR Spectroscopy of Paramagnetic Metalloproteins. ChemBioChem, 2005, 6, 1536-1549.	1.3	289
5	A New Structural Model of α -Synuclein Fibrils. Journal of the American Chemical Society, 2011, 133, 16013-16022.	6.6	289
6	Standard operating procedures for pre-analytical handling of blood and urine for metabolomic studies and biobanks. Journal of Biomolecular NMR, 2011, 49, 231-243.	1.6	285
7	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 9162-9185.	7.2	258
8	High-Throughput Metabolomics by 1D NMR. Angewandte Chemie - International Edition, 2019, 58, 968-994.	7.2	254
9	Evidence of different metabolic phenotypes in humans. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1420-1424.	3.3	231
10	Lanthanide-Induced Pseudocontact Shifts for Solution Structure Refinements of Macromolecules in Shells up to 40 Å from the Metal Ion. Journal of the American Chemical Society, 2000, 122, 4154-4161.	6.6	212
11	From The Cover: Experimentally exploring the conformational space sampled by domain reorientation in calmodulin. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6841-6846.	3.3	209
12	Accurate, Fully-Automated NMR Spectral Profiling for Metabolomics. PLoS ONE, 2015, 10, e0124219.	1.1	206
13	Standardizing the experimental conditions for using urine in NMR-based metabolomic studies with a particular focus on diagnostic studies: a review. Metabolomics, 2015, 11, 872-894.	1.4	196
14	Magnetic Susceptibility Tensor Anisotropies for a Lanthanide Ion Series in a Fixed Protein Matrix. Journal of the American Chemical Society, 2001, 123, 4181-4188.	6.6	183
15	Metabolomic NMR Fingerprinting to Identify and Predict Survival of Patients with Metastatic Colorectal Cancer. Cancer Research, 2012, 72, 356-364.	0.4	181
16	Protonless NMR Experiments for Sequence-Specific Assignment of Backbone Nuclei in Unfolded Proteins. Journal of the American Chemical Society, 2006, 128, 3918-3919.	6.6	176
17	The synthesis and <i>in vitro</i> testing of a zinc-activated MRI contrast agent. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13881-13886.	3.3	172
18	Mechanistic Studies of a Calcium-Dependent MRI Contrast Agent. Inorganic Chemistry, 2002, 41, 4018-4024.	1.9	166

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19	Solid-state NMR of proteins sedimented by ultracentrifugation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10396-10399.	3.3	163
20	Dynamic nuclear polarization at high magnetic fields in liquids. Progress in Nuclear Magnetic Resonance Spectroscopy, 2012, 64, 4-28.	3.9	162
21	The Metabonomic Signature of Celiac Disease. Journal of Proteome Research, 2009, 8, 170-177.	1.8	160
22	Conformational Space of Flexible Biological Macromolecules from Average Data. Journal of the American Chemical Society, 2010, 132, 13553-13558.	6.6	155
23	The iron-sulfur cluster (Fe ₄ S ₄) centers in ferredoxins studied through proton and carbon hyperfine coupling. Sequence-specific assignments of cysteines in ferredoxins from <i>Clostridium acidii urici</i> and <i>Clostridium pasteurianum</i> . Journal of the American Chemical Society, 1994, 116, 651-660.	6.6	147
24	The crystal structure of yeast copper thionein: The solution of a long-lasting enigma. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 51-56.	3.3	146
25	Conformational variability of matrix metalloproteinases: Beyond a single 3D structure. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5334-5339.	3.3	143
26	Albumin Binding, Relaxivity, and Water Exchange Kinetics of the Diastereoisomers of MS-325, a Gadolinium(III)-Based Magnetic Resonance Angiography Contrast Agent. Inorganic Chemistry, 2007, 46, 6632-6639.	1.9	143
27	Individual Human Phenotypes in Metabolic Space and Time. Journal of Proteome Research, 2009, 8, 4264-4271.	1.8	143
28	Proton NOE studies on dicopper(II) dicobalt(II) superoxide dismutase. Inorganic Chemistry, 1989, 28, 4650-4656.	1.9	140
29	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. Metabolomics, 2015, 11, 1587-1597.	1.4	140
30	Cobalt(II) as a probe of the structure and function of carbonic anhydrase. Accounts of Chemical Research, 1983, 16, 272-279.	7.6	139
31	The Gâ€Trixplex DNA. Angewandte Chemie - International Edition, 2013, 52, 2269-2273.	7.2	133
32	A Modular System for the Synthesis of Multiplexed Magnetic Resonance Probes. Journal of the American Chemical Society, 2011, 133, 5329-5337.	6.6	126
33	Carbonic anhydrase: An insight into the zinc binding site and into the active cavity through metal substitution. , 1982, , 45-92.		124
34	Paramagnetism-Based NMR Restraints Provide Maximum Allowed Probabilities for the Different Conformations of Partially Independent Protein Domains. Journal of the American Chemical Society, 2007, 129, 12786-12794.	6.6	124
35	Recommendations and Standardization of Biomarker Quantification Using NMR-Based Metabolomics with Particular Focus on Urinary Analysis. Journal of Proteome Research, 2016, 15, 360-373.	1.8	122
36	Spectroscopic studies on Cu ₂ Zn ₂ SOD: a continuous advancement of investigation tools. Coordination Chemistry Reviews, 1990, 100, 67-103.	9.5	120

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37	Paramagnetism-Based Restraints for Xplor-NIH. <i>Journal of Biomolecular NMR</i> , 2004, 28, 249-261.	1.6	119
38	High-Field Dynamic Nuclear Polarization with High-Spin Transition Metal Ions. <i>Journal of the American Chemical Society</i> , 2011, 133, 5648-5651.	6.6	119
39	Field Dependent Dynamic Nuclear Polarization with Radicals in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2008, 130, 3254-3255.	6.6	117
40	High-Resolution Solid-State NMR Structure of a 17.6 kDa Protein. <i>Journal of the American Chemical Society</i> , 2010, 132, 1032-1040.	6.6	117
41	A Computer Program for the Calculation of Paramagnetic Enhancements of Nuclear-Relaxation Rates in Slowly Rotating Systems. <i>Journal of Magnetic Resonance Series A</i> , 1995, 113, 151-158.	1.6	116
42	pKa of zinc-bound water and nucleophilicity of hydroxo-containing species. Ab initio calculations on models for zinc enzymes. <i>Inorganic Chemistry</i> , 1990, 29, 1460-1463.	1.9	114
43	Paramagnetic constraints: An aid for quick solution structure determination of paramagnetic metalloproteins. <i>Concepts in Magnetic Resonance</i> , 2002, 14, 259-286.	1.3	112
44	Proton NMR spectroscopy and the electronic structure of the high potential iron-sulfur protein from <i>Chromatium vinosum</i> . <i>Journal of the American Chemical Society</i> , 1991, 113, 1237-1245.	6.6	111
45	Bimodal Fluorescence-Magnetic Resonance Contrast Agent for Apoptosis Imaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 6224-6233.	6.6	111
46	Partial Orientation of Oxidized and Reduced Cytochrome b5 at High Magnetic Fields: Magnetic Susceptibility Anisotropy Contributions and Consequences for Protein Solution Structure Determination. <i>Journal of the American Chemical Society</i> , 1998, 120, 12903-12909.	6.6	110
47	Ultrafast MAS Solid-State NMR Permits Extensive ^{13}C and ^1H Detection in Paramagnetic Metalloproteins. <i>Journal of the American Chemical Society</i> , 2010, 132, 5558-5559.	6.6	109
48	High Relaxivity Gd(III)-DNA Gold Nanostars: Investigation of Shape Effects on Proton Relaxation. <i>ACS Nano</i> , 2015, 9, 3385-3396.	7.3	108
49	Perspectives in paramagnetic NMR of metalloproteins. <i>Dalton Transactions</i> , 2008, , 3782.	1.6	107
50	High-Field NMR Studies of Oxidized Blue Copper Proteins: The Case of Spinach Plastocyanin. <i>Journal of the American Chemical Society</i> , 1999, 121, 2037-2046.	6.6	105
51	Structural Basis for Matrix Metalloproteinase 1-Catalyzed Collagenolysis. <i>Journal of the American Chemical Society</i> , 2012, 134, 2100-2110.	6.6	105
52	Uniqueness of the NMR approach to metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115300.	5.8	103
53	Paramagnetism-based versus classical constraints: an analysis of the solution structure of Ca ²⁺ calbindin D9k. <i>Journal of Biomolecular NMR</i> , 2001, 21, 85-98.	1.6	101
54	Accurate Solution Structures of Proteins from X-ray Data and a Minimal Set of NMR Data: Calmodulin~Peptide Complexes As Examples. <i>Journal of the American Chemical Society</i> , 2009, 131, 5134-5144.	6.6	101

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55	The three-dimensional structure in solution of the paramagnetic high-potential iron-sulfur protein I from <i>Ectothiorhodospira halophila</i> through nuclear magnetic resonance. <i>FEBS Journal</i> , 1994, 225, 715-725.	0.2	99
56	Pseudocontact shifts as constraints for energy minimization and molecular dynamics calculations on solution structures of paramagnetic metalloproteins. , 1997, 29, 68-76.		99
57	Heme methyl ¹ H chemical shifts as structural parameters in some low-spin ferriheme proteins. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 515-519.	1.1	98
58	A Strategy for the NMR Characterization of Type II Copper(II) Proteins:Â the Case of the Copper Trafficking Protein CopC from <i>Pseudomonas Syringae</i> . <i>Journal of the American Chemical Society</i> , 2003, 125, 7200-7208.	6.6	98
59	Snapshots of the Reaction Mechanism of Matrix Metalloproteinases. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7952-7955.	7.2	98
60	Identification of the iron ions of high potential iron protein from <i>Chromatium vinosum</i> within the protein frame through two-dimensional NMR experiments. <i>Journal of the American Chemical Society</i> , 1992, 114, 3332-3340.	6.6	97
61	NMR and Electronic Relaxation in Paramagnetic Dicopper(II) Compounds. <i>Journal of the American Chemical Society</i> , 1997, 119, 2156-2162.	6.6	97
62	Tuning the Affinity for Lanthanides of Calcium Binding Proteins. <i>Biochemistry</i> , 2003, 42, 8011-8021.	1.2	96
63	Metabolomic fingerprint of severe obesity is dynamically affected by bariatric surgery in a procedure-dependent manner. <i>American Journal of Clinical Nutrition</i> , 2015, 102, 1313-1322.	2.2	96
64	Are true scalar protonâ€”proton connectivities ever measured in COSY spectra of paramagnetic macromolecules?. <i>Chemical Physics Letters</i> , 1993, 203, 445-449.	1.2	95
65	Structural Information through NMR Hyperfine Shifts in Blue Copper Proteins. <i>Journal of the American Chemical Society</i> , 2000, 122, 3701-3707.	6.6	95
66	Solution Structure of the Paramagnetic Complex of the N-Terminal Domain of Calmodulin with Two Ce ³⁺ Ions by ¹ H NMRâ€”â€”â€”. <i>Biochemistry</i> , 1997, 36, 11605-11618.	1.2	93
67	Nuclear spin relaxation in paramagnetic complexes of S=1: Electron spin relaxation effects. <i>Journal of Chemical Physics</i> , 1999, 111, 5795-5807.	1.2	93
68	Paramagnetic shifts in solid-state NMR of proteins to elicit structural information. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17284-17289.	3.3	93
69	The electronic structure of FeS centers in proteins and models a contribution to the understanding of their electron transfer properties. <i>Structure and Bonding</i> , 1995, , 1-53.	1.0	91
70	The ¹ H NMR parameters of magnetically coupled dimersâ€”The Fe ₂ S ₂ proteins as an example. , 1990, , 113-136.		87
71	Metabolomics in breast cancer: A decade in review. <i>Cancer Treatment Reviews</i> , 2018, 67, 88-96.	3.4	87
72	The electronic structure of iron-sulfur [Fe ₄ S ₄] ³⁺ clusters in proteins. An investigation of the oxidized high-potential iron-sulfur protein II from <i>Ectothiorhodospira vacuolata</i> . <i>Biochemistry</i> , 1993, 32, 9387-9397.	1.2	86

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73	Solution Structure of the Oxidized 2[4Fe-4S] Ferredoxin from <i>Clostridium Pasteurianum</i> . <i>FEBS Journal</i> , 1995, 232, 192-205.	0.2	86
74	Paramagnetically Induced Residual Dipolar Couplings for Solution Structure Determination of Lanthanide Binding Proteins. <i>Journal of the American Chemical Society</i> , 2002, 124, 5581-5587.	6.6	86
75	Paramagnetic Ions Provide Structural Restraints in Solid-State NMR of Proteins. <i>Journal of the American Chemical Society</i> , 2007, 129, 2218-2219.	6.6	85
76	Evidence of Reciprocal Reorientation of the Catalytic and Hemopexin-Like Domains of Full-Length MMP-12. <i>Journal of the American Chemical Society</i> , 2008, 130, 7011-7021.	6.6	84
77	Identification of a serum-detectable metabolomic fingerprint potentially correlated with the presence of micrometastatic disease in early breast cancer patients at varying risks of disease relapse by traditional prognostic methods. <i>Annals of Oncology</i> , 2011, 22, 1295-1301.	0.6	83
78	Serum metabolomic profiles evaluated after surgery may identify patients with oestrogen receptor negative early breast cancer at increased risk of disease recurrence. Results from a retrospective study. <i>Molecular Oncology</i> , 2015, 9, 128-139.	2.1	82
79	The three-dimensional solution structure of the reduced high-potential iron-sulfur protein from <i>Chromatium vinosum</i> through NMR. <i>Biochemistry</i> , 1995, 34, 206-219.	1.2	80
80	Plasma and urinary metabolomic profiles of Down syndrome correlate with alteration of mitochondrial metabolism. <i>Scientific Reports</i> , 2018, 8, 2977.	1.6	80
81	The CuA Center of a Soluble Domain from <i>Thermus</i> Cytochrome <i>ba3</i> . An NMR Investigation of the Paramagnetic Protein. <i>Journal of the American Chemical Society</i> , 1996, 118, 11658-11659.	6.6	78
82	Water 1H relaxation dispersion analysis on a nitroxide radical provides information on the maximal signal enhancement in Overhauser dynamic nuclear polarization experiments. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5902.	1.3	78
83	Uncovering the metabolomic fingerprint of breast cancer. <i>International Journal of Biochemistry and Cell Biology</i> , 2011, 43, 1010-1020.	1.2	77
84	Long-Range Correlated Dynamics in Intrinsically Disordered Proteins. <i>Journal of the American Chemical Society</i> , 2014, 136, 16201-16209.	6.6	77
85	One-thousand-fold enhancement of high field liquid nuclear magnetic resonance signals at room temperature. <i>Nature Chemistry</i> , 2017, 9, 676-680.	6.6	77
86	Acyl positional distribution of glycerol tri-esters in vegetable oils: a 13C NMR study. <i>Chemistry and Physics of Lipids</i> , 1999, 103, 47-55.	1.5	76
87	Metabolomic/lipidomic profiling of COVID-19 and individual response to tocilizumab. <i>PLoS Pathogens</i> , 2021, 17, e1009243.	2.1	76
88	Interdomain Flexibility in Full-length Matrix Metalloproteinase-1 (MMP-1). <i>Journal of Biological Chemistry</i> , 2009, 284, 12821-12828.	1.6	73
89	Exploration of serum metabolomic profiles and outcomes in women with metastatic breast cancer: A pilot study. <i>Molecular Oncology</i> , 2012, 6, 437-444.	2.1	73
90	Exploring the Subtleties of Drug-âReceptor Interactions:â The Case of Matrix Metalloproteinases. <i>Journal of the American Chemical Society</i> , 2007, 129, 2466-2475.	6.6	72

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91	Paramagnetic relaxation as a tool for solution structure determination: Clostridium pasteurianum ferredoxin as an example. , 1997, 29, 348-358.		71
92	Liquid state DNP of water at 9.2 T: an experimental access to saturation. Physical Chemistry Chemical Physics, 2013, 15, 6049.	1.3	71
93	G-triplex structure and formation propensity. Nucleic Acids Research, 2014, 42, 13393-13404.	6.5	71
94	Evidence of the breaking of the copper-imidazolate bridge in copper/cobalt-substituted superoxide dismutase upon reduction of the copper(II) centers. Journal of the American Chemical Society, 1985, 107, 2178-2179.	6.6	70
95	Proton NMR spectra of oxidized high-potential iron-sulfur protein (HiPIP) from Rhodocyclus gelatinosus. A model for oxidized HiPIPs. Inorganic Chemistry, 1991, 30, 4517-4524.	1.9	70
96	Bond-Mediated Electron Tunneling in Ruthenium-Modified High-Potential Iron-Sulfur Protein. Journal of the American Chemical Society, 2000, 122, 4532-4533.	6.6	70
97	Mechanistic Investigation of β -Galactosidase-Activated MR Contrast Agents. Inorganic Chemistry, 2008, 47, 56-68.	1.9	70
98	Entropic Contribution to the Linking Coefficient in Fragment Based Drug Design: A Case Study. Journal of Medicinal Chemistry, 2010, 53, 4285-4289.	2.9	70
99	A critical assessment of methods to recover information from averaged data. Physical Chemistry Chemical Physics, 2016, 18, 5686-5701.	1.3	70
100	The iron-sulfur cluster in the oxidized high-potential iron protein from Ectothiorhodospira halophila. Journal of the American Chemical Society, 1993, 115, 3431-3440.	6.6	69
101	A Serine \rightarrow Cysteine Ligand Mutation in the High Potential Iron-Sulfur Protein from Chromatium vinosum Provides Insight into the Electronic Structure of the $[4Fe-4S]$ Cluster. Journal of the American Chemical Society, 1996, 118, 75-80.	6.6	69
102	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
103	1H NMRD PROFILES OF PARAMAGNETIC COMPLEXES AND METALLOPROTEINS. Advances in Inorganic Chemistry, 2005, 57, 105-172.	0.4	69
104	The Cardiovascular Risk of Healthy Individuals Studied by NMR Metabonomics of Plasma Samples. Journal of Proteome Research, 2011, 10, 4983-4992.	1.8	69
105	Solid-State NMR Crystallography through Paramagnetic Restraints. Journal of the American Chemical Society, 2012, 134, 5006-5009.	6.6	69
106	Paramagnetic Probes in Metalloproteins. Methods in Enzymology, 2001, 339, 314-340.	0.4	68
107	Examination of Matrix Metalloproteinase-1 in Solution. Journal of Biological Chemistry, 2013, 288, 30659-30671.	1.6	68
108	Paramagnetic NMR spectroscopy and coordination structure of cobalt(II) Cys112Asp azurin. Inorganic Chemistry, 1995, 34, 737-742.	1.9	67

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109	Quality assurance multicenter comparison of different MR scanners for quantitative diffusion-weighted imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 213-219.	1.9	67
110	The solution structure of paramagnetic metalloproteins. <i>Progress in Biophysics and Molecular Biology</i> , 1996, 66, 43-80.	1.4	66
111	Characterization of a Partially Unfolded High Potential Iron Protein. <i>Biochemistry</i> , 1997, 36, 9332-9339.	1.2	66
112	Locating the Metal Ion in Calcium-Binding Proteins by Using Cerium(III) as a Probe. <i>ChemBioChem</i> , 2001, 2, 550-558.	1.3	66
113	Phenotyping COPD by ¹ H NMR metabolomics of exhaled breath condensate. <i>Metabolomics</i> , 2014, 10, 302-311.	1.4	66
114	Evidence of a DHA Signature in the Lipidome and Metabolome of Human Hepatocytes. <i>International Journal of Molecular Sciences</i> , 2017, 18, 359.	1.8	66
115	Age and Sex Effects on Plasma Metabolite Association Networks in Healthy Subjects. <i>Journal of Proteome Research</i> , 2018, 17, 97-107.	1.8	66
116	NMR-based metabolomics identifies patients at high risk of death within two years after acute myocardial infarction in the AMI-Florence II cohort. <i>BMC Medicine</i> , 2019, 17, 3.	2.3	66
117	PSEUDYANA for NMR structure calculation of paramagnetic metalloproteins using torsion angle molecular dynamics. <i>Journal of Biomolecular NMR</i> , 1998, 12, 553-557.	1.6	65
118	The First Solution Structure of a Paramagnetic Copper(II) Protein: The Case of Oxidized Plastocyanin from the Cyanobacterium <i>Synechocystis</i> PCC6803. <i>Journal of the American Chemical Society</i> , 2001, 123, 2405-2413.	6.6	65
119	Serum Metabolomic Profiles Identify ER-Positive Early Breast Cancer Patients at Increased Risk of Disease Recurrence in a Multicenter Population. <i>Clinical Cancer Research</i> , 2017, 23, 1422-1431.	3.2	65
120	Three-Dimensional Solution Structure of the Oxidized High Potential Iron-Sulfur Protein from <i>Chromatium vinosum</i> through NMR. Comparative Analysis with the Solution Structure of the Reduced Species. <i>Biochemistry</i> , 1995, 34, 9851-9858.	1.2	64
121	Analysis of the Temperature Dependence of the ¹ H and ¹³ C Isotropic Shifts of Horse Heart Ferricytochrome c: An Explanation of Curie and Anti-Curie Temperature Dependence and Nonlinear Pseudocontact Shifts in a Common Two-Level Framework. <i>Journal of the American Chemical Society</i> , 1998, 120, 8472-8479.	6.6	64
122	Sulfonamide-Functionalized Gadolinium DTPA Complexes as Possible Contrast Agents for MRI: A Relaxometric Investigation. , 2000, 2000, 625-630.		64
123	Are Patients with Potential Celiac Disease Really Potential? The Answer of Metabonomics. <i>Journal of Proteome Research</i> , 2011, 10, 714-721.	1.8	64
124	Dynamic Nuclear Polarization of ¹ H, ¹³ C, and ⁵⁹ Co in a Tris(ethylenediamine)cobalt(III) Crystalline Lattice Doped with Cr(III). <i>Journal of the American Chemical Society</i> , 2014, 136, 11716-11727.	6.6	64
125	Regulation of HuR structure and function by dihydrotanshinone-I. <i>Nucleic Acids Research</i> , 2017, 45, 9514-9527.	6.5	64
126	Structural Basis of Serine/Threonine Phosphatase Inhibition by the Archetypal Small Molecules Cantharidin and Norcantharidin. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 4838-4843.	2.9	62

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127	SedNMR: On the Edge between Solution and Solid-State NMR. <i>Accounts of Chemical Research</i> , 2013, 46, 2059-2069.	7.6	62
128	Sarcolab pilot study into skeletal muscle's adaptation to long-term spaceflight. <i>Npj Microgravity</i> , 2018, 4, 18.	1.9	62
129	¹³ C Direct Detected NMR Increases the Detectability of Residual Dipolar Couplings. <i>Journal of the American Chemical Society</i> , 2006, 128, 15042-15043.	6.6	61
130	¹ H NMRD profiles of diamagnetic proteins: a model-free analysis. <i>Magnetic Resonance in Chemistry</i> , 2000, 38, 543-550.	1.1	60
131	Nanodiamond-Gadolinium(III) Aggregates for Tracking Cancer Growth In Vivo at High Field. <i>Nano Letters</i> , 2016, 16, 7551-7564.	4.5	60
132	An investigation of superoxide dismutase Lys-143, Ile-143, and Glu-143 mutants: Cu ₂ Co ₂ SOD derivatives. <i>Journal of the American Chemical Society</i> , 1988, 110, 3629-3633.	6.6	59
133	Metabolomic fingerprint of heart failure in humans: A nuclear magnetic resonance spectroscopy analysis. <i>International Journal of Cardiology</i> , 2013, 168, e113-e115.	0.8	59
134	Allostasis and Resilience of the Human Individual Metabolic Phenotype. <i>Journal of Proteome Research</i> , 2015, 14, 2951-2962.	1.8	58
135	<i>Thermotoga maritima</i> IscU. Structural Characterization and Dynamics of a New Class of Metallochaperone. <i>Journal of Molecular Biology</i> , 2003, 331, 907-924.	2.0	57
136	¹ H and ¹³ C Dynamic Nuclear Polarization in Aqueous Solution with a Two-Field (0.35 T/14 T) Shuttle DNP Spectrometer. <i>Journal of the American Chemical Society</i> , 2009, 131, 15086-15087.	6.6	57
137	EF-hand protein dynamics and evolution of calcium signal transduction: an NMR view. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 949-962.	1.1	56
138	Dynamic Nuclear Polarization of Sedimented Solutes. <i>Journal of the American Chemical Society</i> , 2013, 135, 1641-1644.	6.6	56
139	The epr spectra of the inhibitor derivatives of cobalt carbonic anhydrase. <i>Journal of Inorganic Biochemistry</i> , 1981, 14, 81-93.	1.5	55
140	Browsing gene banks for Fe ₂ S ₂ ferredoxins and structural modeling of 88 plant-type sequences: An analysis of fold and function. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 46, 110-127.	1.5	55
141	In vitro fermentation of potential prebiotic flours from natural sources: Impact on the human colonic microbiota and metabolome. <i>Molecular Nutrition and Food Research</i> , 2012, 56, 1342-1352.	1.5	55
142	¹ H-NMR studies on partially and fully reduced 2(4Fe-4S) ferredoxin from <i>Clostridium pasteurianum</i> . <i>FEBS Journal</i> , 1992, 204, 831-839.	0.2	54
143	Paramagnetic Metal Ions in Ligand Screening: The Coll Matrix Metalloproteinase 12. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2254-2256.	7.2	54
144	Magnetic susceptibility and paramagnetism-based NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2019, 114-115, 211-236.	3.9	54

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145	Hydrogen-1 NMR spectra of the coordination sphere of cobalt-substituted carbonic anhydrase. <i>Journal of the American Chemical Society</i> , 1981, 103, 7784-7788.	6.6	53
146	Water Exchange at the Active Site of Carbonic Anhydrase. <i>Biophysical Journal</i> , 1983, 41, 179-187.	0.2	53
147	A Heteronuclear Direct-Detection NMR Spectroscopy Experiment for Protein-Backbone Assignment. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2257-2259.	7.2	52
148	Persistent contrast enhancement by sterically stabilized paramagnetic liposomes in murine melanoma. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 669-672.	1.9	52
149	Unraveling Hidden Regulatory Sites in Structurally Homologous Metalloproteases. <i>Journal of Molecular Biology</i> , 2013, 425, 2330-2346.	2.0	52
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