

Claudio Luchinat

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623
papers

21,388
citations

73
h-index

107
g-index

651
ext. papers

23,562
ext. citations

6.7
avg, IF

6.7
L-index

#	Paper	IF	Citations
623	Magnetic susceptibility in paramagnetic NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2002 , 40, 249-273	10.4	389
622	Perspectives on NMR in drug discovery: a technique comes of age. <i>Nature Reviews Drug Discovery</i> , 2008 , 7, 738-45	64.1	318
621	Solution structure of oxidized horse heart cytochrome c. <i>Biochemistry</i> , 1997 , 36, 9867-77	3.2	282
620	A new structural model of A β 0 fibrils. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16013-22	16.4	265
619	NMR spectroscopy of paramagnetic metalloproteins. <i>ChemBioChem</i> , 2005 , 6, 1536-49	3.8	260
618	Standard operating procedures for pre-analytical handling of blood and urine for metabolomic studies and biobanks. <i>Journal of Biomolecular NMR</i> , 2011 , 49, 231-43	3	236
617	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9162-85	16.4	208
616	Evidence of different metabolic phenotypes in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1420-4	11.5	206
615	Lanthanide-Induced Pseudocontact Shifts for Solution Structure Refinements of Macromolecules in Shells up to 40 Å from the Metal Ion. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4154-4161	16.4	198
614	Experimentally exploring the conformational space sampled by domain reorientation in calmodulin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6841-6	11.5	197
613	Standardizing the experimental conditions for using urine in NMR-based metabolomic studies with a particular focus on diagnostic studies: a review. <i>Metabolomics</i> , 2015 , 11, 872-894	4.7	171
612	Magnetic susceptibility tensor anisotropies for a lanthanide ion series in a fixed protein matrix. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4181-8	16.4	170
611	The synthesis and in vitro testing of a zinc-activated MRI contrast agent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13881-6	11.5	155
610	Protonless NMR experiments for sequence-specific assignment of backbone nuclei in unfolded proteins. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3918-9	16.4	155
609	Metabolomic NMR fingerprinting to identify and predict survival of patients with metastatic colorectal cancer. <i>Cancer Research</i> , 2012 , 72, 356-64	10.1	152
608	Accurate, fully-automated NMR spectral profiling for metabolomics. <i>PLoS ONE</i> , 2015 , 10, e0124219	3.7	149
607	Mechanistic studies of a calcium-dependent MRI contrast agent. <i>Inorganic Chemistry</i> , 2002 , 41, 4018-24	5.1	147

606	High-Throughput Metabolomics by 1D NMR. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 968-994	16.4	146
605	Solid-state NMR of proteins sedimented by ultracentrifugation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 10396-9	11.5	141
604	Dynamic nuclear polarization at high magnetic fields in liquids. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2012 , 64, 4-28	10.4	140
603	The metabonomic signature of celiac disease. <i>Journal of Proteome Research</i> , 2009 , 8, 170-7	5.6	138
602	Conformational space of flexible biological macromolecules from average data. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13553-8	16.4	135
601	Conformational variability of matrix metalloproteinases: beyond a single 3D structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5334-9	11.5	134
600	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 acidurici</i> and <i>Clostridium pasteurianum</i> . <i>Journal of the American Chemical Society</i> , 1994 , 116, 651-660	16.4	134
599	Proton NOE studies on dicopper(II) dicobalt(II) superoxide dismutase. <i>Inorganic Chemistry</i> , 1989 , 28, 4650-4656	13.3	133
598	The crystal structure of yeast copper thionein: the solution of a long-lasting enigma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 51-6	11.5	129
597	Individual human phenotypes in metabolic space and time. <i>Journal of Proteome Research</i> , 2009 , 8, 4264-71	16.4	128
596	Albumin binding, relaxivity, and water exchange kinetics of the diastereoisomers of MS-325, a gadolinium(III)-based magnetic resonance angiography contrast agent. <i>Inorganic Chemistry</i> , 2007 , 46, 6632-9	5.1	128
595	Cobalt(II) as a probe of the structure and function of carbonic anhydrase. <i>Accounts of Chemical Research</i> , 1983 , 16, 272-279	24.3	124
594	A modular system for the synthesis of multiplexed magnetic resonance probes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5329-37	16.4	114
593	Carbonic anhydrase: An insight into the zinc binding site and into the active cavity through metal substitution 1982 , 45-92		114
592	The G-triplex DNA. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2269-73	16.4	113
591	Paramagnetism-based NMR restraints provide maximum allowed probabilities for the different conformations of partially independent protein domains. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12786-94	16.4	112
590	High-resolution solid-state NMR structure of a 17.6 kDa protein. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1032-40	16.4	110
589	COordination of Standards in MetabOmicS (COSMOS): facilitating integrated metabolomics data access. <i>Metabolomics</i> , 2015 , 11, 1587-1597	4.7	109

588	High-field dynamic nuclear polarization with high-spin transition metal ions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5648-51	16.4	108
587	Paramagnetism-based restraints for Xplor-NIH. <i>Journal of Biomolecular NMR</i> , 2004 , 28, 249-61	3	107
586	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		107
585	Field dependent dynamic nuclear polarization with radicals in aqueous solution. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3254-5	16.4	105
584	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	5.1	104
583	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	16.4	104
582	Ultrafast MAS solid-state NMR permits extensive ¹³ C and ¹ H detection in paramagnetic metalloproteins. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5558-9	16.4	103
581	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	16.4	102
580	Spectroscopic studies on Cu ₂ Zn ₂ SOD: a continuous advancement of investigation tools. <i>Coordination Chemistry Reviews</i> , 1990 , 100, 67-103	23.2	102
579	Paramagnetic constraints: An aid for quick solution structure determination of paramagnetic metalloproteins. <i>Concepts in Magnetic Resonance</i> , 2002 , 14, 259-286		101
578	Perspectives in paramagnetic NMR of metalloproteins. <i>Dalton Transactions</i> , 2008 , 3782-90	4.3	100
577	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	16.4	99
576	Paramagnetism-based versus classical constraints: an analysis of the solution structure of Ca Ln calbindin D9k. <i>Journal of Biomolecular NMR</i> , 2001 , 21, 85-98	3	95
575	Recommendations and Standardization of Biomarker Quantification Using NMR-Based Metabolomics with Particular Focus on Urinary Analysis. <i>Journal of Proteome Research</i> , 2016 , 15, 360-73	5.6	94
574	Pseudocontact shifts as constraints for energy minimization and molecular dynamics calculations on solution structures of paramagnetic metalloproteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 1997 , 29, 68-76	4.2	94
573	High relaxivity Gd(III)-DNA gold nanostars: investigation of shape effects on proton relaxation. <i>ACS Nano</i> , 2015 , 9, 3385-96	16.7	92
572	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, 5134-44	16.4	92
571	A strategy for the NMR characterization of type II copper(II) proteins: the case of the copper trafficking protein CopC from <i>Pseudomonas Syringae</i> . <i>Journal of the American Chemical Society</i> , 2003 , 125, 7200-8	16.4	92

570	NMR and Electronic Relaxation in Paramagnetic Dicopper(II) Compounds. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2156-2162	16.4	91
569	Heme methyl 1H chemical shifts as structural parameters in some low-spin ferriheme proteins. <i>Journal of Biological Inorganic Chemistry</i> , 1999 , 4, 515-9	3.7	90
568	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	16.4	89
567	Structural basis for matrix metalloproteinase 1-catalyzed collagenolysis. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2100-10	16.4	88
566	Snapshots of the reaction mechanism of matrix metalloproteinases. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7952-5	16.4	88
565	Structural Information through NMR Hyperfine Shifts in Blue Copper Proteins. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3701-3707	16.4	87
564	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, 715-25		87
563	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, 1313-22	7	86
562	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, 17284-9	11.5	86
561	Tuning the affinity for lanthanides of calcium binding proteins. <i>Biochemistry</i> , 2003 , 42, 8011-21	3.2	83
560	Nuclear spin relaxation in paramagnetic complexes of S=1: Electron spin relaxation effects. <i>Journal of Chemical Physics</i> , 1999 , 111, 5795-5807	3.9	83
559	Solution structure of the paramagnetic complex of the N-terminal domain of calmodulin with two Ce ³⁺ ions by 1H NMR. <i>Biochemistry</i> , 1997 , 36, 11605-18	3.2	82
558	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	0.9	79
557	The electronic structure of [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, 9387-97	3.2	79
556	Are true scalar proton-proton connectivities ever measured in COSY spectra of paramagnetic macromolecules?. <i>Chemical Physics Letters</i> , 1993 , 203, 445-449	2.5	79
555	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, 7011-21	16.4	78
554	Paramagnetically induced residual dipolar couplings for solution structure determination of lanthanide binding proteins. <i>Journal of the American Chemical Society</i> , 2002 , 124, 5581-7	16.4	77
553	The 1H NMR parameters of magnetically coupled dimers—the Fe ₂ S ₂ proteins as an example 1990 , 113-136		77

552	Paramagnetic ions provide structural restraints in solid-state NMR of proteins. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2218-9	16.4	75
551	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	10.3	73
550	Solution structure of the oxidized 2[4Fe-4S] ferredoxin from <i>Clostridium pasteurianum</i> . <i>FEBS Journal</i> , 1995 , 232, 192-205		73
549	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, 128-39	7.9	72
548	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, 5902-10	3.6	72
547	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, 206-19	3.2	72
546	Uncovering the metabolomic fingerprint of breast cancer. <i>International Journal of Biochemistry and Cell Biology</i> , 2011 , 43, 1010-20	5.6	71
545	The CuA Center of a Soluble Domain from <i>Thermus</i> Cytochrome ba3. An NMR Investigation of the Paramagnetic Protein. <i>Journal of the American Chemical Society</i> , 1996 , 118, 11658-11659	16.4	71
544	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	3.7	68
543	Exploration of serum metabolomic profiles and outcomes in women with metastatic breast cancer: a pilot study. <i>Molecular Oncology</i> , 2012 , 6, 437-44	7.9	66
542	Entropic contribution to the linking coefficient in fragment based drug design: a case study. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 4285-9	8.3	66
541	Exploring the subtleties of drug-receptor interactions: the case of matrix metalloproteinases. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2466-75	16.4	66
540	Metabolomics in breast cancer: A decade in review. <i>Cancer Treatment Reviews</i> , 2018 , 67, 88-96	14.4	65
539	Long-range correlated dynamics in intrinsically disordered proteins. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16201-9	16.4	65
538	Interdomain flexibility in full-length matrix metalloproteinase-1 (MMP-1). <i>Journal of Biological Chemistry</i> , 2009 , 284, 12821-8	5.4	65
537	Mechanistic investigation of beta-galactosidase-activated MR contrast agents. <i>Inorganic Chemistry</i> , 2008 , 47, 56-68	5.1	65
536	Evidence of the breaking of the copper-imidazolate bridge in copper/cobalt-substituted superoxide dismutase upon reduction of the copper(II) centers. <i>Journal of the American Chemical Society</i> , 1985 , 107, 2178-2179	16.4	65
535	Uniqueness of the NMR approach to metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 120, 115306	16.4	65

534	Bimodal Fluorescence-Magnetic Resonance Contrast Agent for Apoptosis Imaging. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6224-6233	16.4	64
533	Characterization of a partially unfolded high potential iron protein. <i>Biochemistry</i> , 1997 , 36, 9332-9	3.2	64
532	A Serine α -Cysteine Ligand Mutation in the High Potential Iron-Sulfur Protein from <i>Chromatium vinosum</i> Provides Insight into the Electronic Structure of the [4Fe-S] Cluster. <i>Journal of the American Chemical Society</i> , 1996 , 118, 75-80	16.4	64
531	The solution structure refinement of the paramagnetic reduced high-potential iron-sulfur protein I from <i>Ectothiorhodospira halophila</i> by using stable isotope labeling and nuclear relaxation. <i>FEBS Journal</i> , 1996 , 241, 440-52		64
530	Paramagnetic NMR spectroscopy and coordination structure of cobalt(II) Cys112Asp azurin. <i>Inorganic Chemistry</i> , 1995 , 34, 737-742	5.1	63
529	PSEUDYANA for NMR structure calculation of paramagnetic metalloproteins using torsion angle molecular dynamics. <i>Journal of Biomolecular NMR</i> , 1998 , 12, 553-7	3	62
528	The iron-sulfur cluster in the oxidized high-potential iron protein from <i>Ectothiorhodospira halophila</i> . <i>Journal of the American Chemical Society</i> , 1993 , 115, 3431-3440	16.4	62
527	Solid-state NMR crystallography through paramagnetic restraints. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5006-9	16.4	61
526	The cardiovascular risk of healthy individuals studied by NMR metabolomics of plasma samples. <i>Journal of Proteome Research</i> , 2011 , 10, 4983-92	5.6	61
525	^1H NMRD PROFILES OF PARAMAGNETIC COMPLEXES AND METALLOPROTEINS. <i>Advances in Inorganic Chemistry</i> , 2005 , 57, 105-172	2.1	61
524	Sulfonamide-Functionalized Gadolinium DTPA Complexes as Possible Contrast Agents for MRI: A Relaxometric Investigation 2000 , 2000, 625-630		61
523	Proton NMR spectra of oxidized high-potential iron-sulfur protein (HiPIP) from <i>Rhodocyclus gelatinosus</i> . A model for oxidized HiPIPs. <i>Inorganic Chemistry</i> , 1991 , 30, 4517-4524	5.1	61
522	Examination of matrix metalloproteinase-1 in solution: a preference for the pre-collagenolysis state. <i>Journal of Biological Chemistry</i> , 2013 , 288, 30659-30671	5.4	60
521	Locating the metal ion in calcium-binding proteins by using cerium(III) as a probe. <i>ChemBioChem</i> , 2001 , 2, 550-8	3.8	60
520	Bond-Mediated Electron Tunneling in Ruthenium-Modified High-Potential Iron-Sulfur Protein. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4532-4533	16.4	60
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518	The solution structure of paramagnetic metalloproteins. <i>Progress in Biophysics and Molecular Biology</i> , 1996 , 66, 43-80	4.7	60
517	Liquid state DNP of water at 9.2 T: an experimental access to saturation. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6049-56	3.6	58

516	Analysis of the Temperature Dependence of the ¹ H and ¹³ C Isotropic Shifts of Horse Heart Ferricytochrome c: 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	16.4	58
515	One-thousand-fold enhancement of high field liquid nuclear magnetic resonance signals at room temperature. <i>Nature Chemistry</i> , 2017 , 9, 676-680	17.6	57
514	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, 9851-8	3.2	57
513	Structural basis of serine/threonine phosphatase inhibition by the archetypal small molecules cantharidin and norcantharidin. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 4838-43	8.3	56
512	A critical assessment of methods to recover information from averaged data. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5686-701	3.6	55
511	Paramagnetic relaxation as a tool for solution structure determination: Clostridium pasteurianum ferredoxin as an example 1997 , 29, 348-358		55
510	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, 2405-13	16.4	55
509	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	16.4	55
508	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	12.9	54
507	<i>Thermotoga maritima</i> IscU. Structural characterization and dynamics of a new class of metallochaperone. <i>Journal of Molecular Biology</i> , 2003 , 331, 907-24	6.5	54
506	¹ H NMRD profiles of diamagnetic proteins: a model-free analysis. <i>Magnetic Resonance in Chemistry</i> , 2000 , 38, 543-550	2.1	54
505	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, 11716-27	16.4	53
504	Dynamic nuclear polarization of sedimented solutes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1641-4	16.4	53
503	(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, 15086-7	16.4	53
502	¹³ C direct detected NMR increases the detectability of residual dipolar couplings. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15042-3	16.4	52
501	G-triplex structure and formation propensity. <i>Nucleic Acids Research</i> , 2014 , 42, 13393-404	20.1	51
500	Are patients with potential celiac disease really potential? The answer of metabolomics. <i>Journal of Proteome Research</i> , 2011 , 10, 714-21	5.6	51
499	SedNMR: on the edge between solution and solid-state NMR. <i>Accounts of Chemical Research</i> , 2013 , 46, 2059-69	24.3	50

498	Metabolomic fingerprint of heart failure in humans: a nuclear magnetic resonance spectroscopy analysis. <i>International Journal of Cardiology</i> , 2013 , 168, e113-5	3.2	50
497	Paramagnetic metal ions in ligand screening: the Co(II) matrix metalloproteinase 12. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2254-6	16.4	50
496	A Heteronuclear Direct-Detection NMR Spectroscopy Experiment for Protein-Backbone Assignment. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2257-2259	16.4	50
495	Persistent contrast enhancement by sterically stabilized paramagnetic liposomes in murine melanoma. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 669-72	4.4	50
494	Quality assurance multicenter comparison of different MR scanners for quantitative diffusion-weighted imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 213-9	5.6	49
493	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, 1342-52	5.9	48
492	Browsing gene banks for Fe2S2 ferredoxins and structural modeling of 88 plant-type sequences: an analysis of fold and function. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002 , 46, 110-27	4.2	48
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490	The epr spectra of the inhibitor derivatives of cobalt carbonic anhydrase. <i>Journal of Inorganic Biochemistry</i> , 1981 , 14, 81-93	4.2	47
489	Neue Ansätze zur Empfindlichkeitssteigerung in der biomolekularen NMR-Spektroskopie. <i>Angewandte Chemie</i> , 2015 , 127, 9292-9317	3.6	46
488	Phenotyping COPD by 1H NMR metabolomics of exhaled breath condensate. <i>Metabolomics</i> , 2014 , 10, 302-311	4.7	46
487	Water exchange at the active site of carbonic anhydrase. A synthesis of the OH- and H2O-models. <i>Biophysical Journal</i> , 1983 , 41, 179-87	2.9	46
486	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	16.4	46
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484	Unraveling hidden regulatory sites in structurally homologous metalloproteases. <i>Journal of Molecular Biology</i> , 2013 , 425, 2330-46	6.5	45
483	Collective relaxation of protein protons at very low magnetic field: a new window on protein dynamics and aggregation. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1055-64	16.4	45
482	EF-hand protein dynamics and evolution of calcium signal transduction: an NMR view. <i>Journal of Biological Inorganic Chemistry</i> , 2006 , 11, 949-62	3.7	45
481	Solution structure of the oxidized Fe7S8 ferredoxin from the thermophilic bacterium <i>Bacillus schlegelii</i> by 1H NMR spectroscopy. <i>Biochemistry</i> , 1998 , 37, 9812-26	3.2	45

480	1H-NMR studies on partially and fully reduced 2(4Fe-4S) ferredoxin from <i>Clostridium pasteurianum</i> . <i>FEBS Journal</i> , 1992 , 204, 831-9		45
479	Identification of productive and futile encounters in an electron transfer protein complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E1840-E1847 ^{11.5}		44
478	Nanodiamond-Gadolinium(III) Aggregates for Tracking Cancer Growth In Vivo at High Field. <i>Nano Letters</i> , 2016 , 16, 7551-7564	11.5	44
477	NMR properties of sedimented solutes. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 439-47	3.6	44
476	Combining in silico tools and NMR data to validate protein-ligand structural models: application to matrix metalloproteinases. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 7544-59	8.3	44
475	The magnetic properties of myoglobin as studied by NMR spectroscopy. <i>Chemistry - A European Journal</i> , 2003 , 9, 2316-22	4.8	44
474	Age and Sex Effects on Plasma Metabolite Association Networks in Healthy Subjects. <i>Journal of Proteome Research</i> , 2018 , 17, 97-107	5.6	43
473	Solution structure calculations through self-orientation in a magnetic field of a cerium(III) substituted calcium-binding protein. <i>Journal of Magnetic Resonance</i> , 2001 , 148, 23-30	3	43
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