

# Charles G Hoogstraten

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

843  
citations

516710

16  
h-index

552781

26  
g-index

32  
all docs

32  
docs citations

32  
times ranked

645  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Active Site Dynamics in the Lead-Dependent Ribozyme. <i>Biochemistry</i> , 2000, 39, 9951-9958.  | 2.5  | 103       |
| 2  | NMR solution structure of the lead-dependent ribozyme: evidence for dynamics in RNA catalysis 1 Edited by I. Tinoco. <i>Journal of Molecular Biology</i> , 1998, 284, 337-350.   | 4.2  | 82        |
| 3  | Extensive Backbone Dynamics in the GCAA RNA Tetraloop Analyzed Using <sup>13</sup> C NMR Spin Relaxation and Specific Isotope Labeling. <i>Journal of the American Chemical Society</i> , 2008, 130, 16757-16769.                                | 13.7 | 71        |
| 4  | Order, dynamics and metal-binding in the lead-dependent ribozyme 1 Edited by I. Tinoco. <i>Journal of Molecular Biology</i> , 1998, 284, 325-335.  | 4.2  | 67        |
| 5  | Mn <sup>2+</sup> -Nitrogen Interactions in RNA Probed by Electron Spin Echo Envelope Modulation Spectroscopy: A Application to the Hammerhead Ribozyme. <i>Journal of the American Chemical Society</i> , 1999, 121, 9215-9218.                  | 13.7 | 66        |
| 6  | Coordination Environment of a Site-Bound Metal Ion in the Hammerhead Ribozyme Determined by <sup>15</sup> N and <sup>2</sup> H ESEEM Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 16764-16770.                     | 13.7 | 58        |
| 7  | Structural Analysis of Metal Ion Ligation to Nucleotides and Nucleic Acids Using Pulsed EPR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2002, 124, 834-842.  | 13.7 | 57        |
| 8  | Alternate-site isotopic labeling of ribonucleotides for NMR studies of ribose conformational dynamics in RNA. <i>Journal of Biomolecular NMR</i> , 2006, 35, 261-274.  | 2.8  | 46        |
| 9  | Comparison of the accuracy of protein solution structures derived from conventional and network edited NOESY data. <i>Protein Science</i> , 1995, 4, 2289-2299.  | 7.6  | 38        |
| 10 | Charge-driven condensation of RNA and proteins suggests broad role of phase separation in cytoplasmic environments. <i>ELife</i> , 2021, 10, .   | 6.0  | 38        |
| 11 | Metabolic labeling: Taking advantage of bacterial pathways to prepare spectroscopically useful isotope patterns in proteins and nucleic acids. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2008, 32A, 34-55. | 0.5  | 33        |
| 12 | Structure-function relationships in RNA and RNP enzymes: Recent advances. <i>Biopolymers</i> , 2007, 87, 317-328.  | 2.4  | 30        |
| 13 | Water counting: Quantitating the hydration level of paramagnetic metal ions bound to nucleotides and nucleic acids. <i>Rna</i> , 2002, 8, 252-260.   | 3.5  | 27        |
| 14 | Conformationally restricted nucleotides as a probe of structure-function relationships in RNA. <i>Rna</i> , 2008, 14, 1632-1643.   | 3.5  | 22        |
| 15 | Measurement of Carbon-Phosphorus Coupling Constants in RNA Using Spin Echo Difference Constant-Time HCCH COSY. <i>Journal of Magnetic Resonance</i> , 1998, 133, 236-240.  | 2.1  | 17        |
| 16 | Topological Editing of Cross-Relaxation Networks. <i>Israel Journal of Chemistry</i> , 1992, 32, 245-256.  | 2.3  | 16        |
| 17 | NOE Measurements in the Absence of Spin Diffusion: Application to Methylene Groups in Proteins and Effects on Local Structural Parameters. <i>Journal of the American Chemical Society</i> , 1995, 117, 5610-5611.                               | 13.7 | 13        |
| 18 | Effects of Experimentally Achievable Improvements in the Quality of NMR Distance Constraints on the Accuracy of Calculated Protein Structures. <i>Journal of Molecular Biology</i> , 1996, 258, 334-348.   | 4.2  | 13        |

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|----|--|------|-----------|
| 19 | Coupling between conformational dynamics and catalytic function at the active site of the lead-dependent ribozyme. <i>Rna</i> , 2018, 24, 1542-1554.   | 3.5  | 12        |
| 20 | <sup>31</sup> P NMR Probes of Chemical Dynamics: Paramagnetic Relaxation Enhancement of the <sup>1</sup> H and <sup>31</sup> P NMR Resonances of Methyl Phosphite and Methyl ethyl Phosphate Anions by Selected Metal Complexes. <i>Inorganic Chemistry</i> , 2001, 40, 6547-6554. | 4.0  | 8         |
| 21 | Improved distance analysis in RNA using network-editing techniques for overcoming errors due to spin diffusion. , 1998, 11, 85-95.   |      | 6         |
| 22 | Unraveling the Thermodynamics and Kinetics of RNA Assembly. <i>Methods in Enzymology</i> , 2014, 549, 407-432.   | 1.0  | 4         |
| 23 | The 27 kDa <i>Trypanosoma brucei</i> Pentatricopeptide Repeat Protein is a G-tract Specific RNA Binding Protein. <i>Scientific Reports</i> , 2018, 8, 16989.   | 3.3  | 4         |
| 24 | Intermolecular domain docking in the hairpin ribozyme. <i>RNA Biology</i> , 2013, 10, 425-435.   | 3.1  | 3         |
| 25 | Intrinsic Base-Pair Rearrangement in the Hairpin Ribozyme Directs RNA Conformational Sampling and Tertiary Interface Formation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10885-10898.   | 2.6  | 3         |
| 26 | Thermodynamics and kinetics of RNA tertiary structure formation in the junctionless hairpin ribozyme. <i>Biophysical Chemistry</i> , 2017, 228, 62-68.   | 2.8  | 3         |
| 27 | Spectroscopic characterization of Mn <sup>2+</sup> and Cd <sup>2+</sup> coordination to phosphorothioates in the conserved A9 metal site of the hammerhead ribozyme. <i>Journal of Inorganic Biochemistry</i> , 2022, 230, 111754.   | 3.5  | 2         |
| 28 | Lead and RNA. , 2013, , 1166-1173.   |      | 1         |
| 29 | NOE Measurements in the Absence of Spin Diffusion: Application to Methylene Groups in Proteins and Effects on Local Structural Parameters. [Erratum to document cited in CA122:310070]. <i>Journal of the American Chemical Society</i> , 1995, 117, 8885-8885.                    | 13.7 | 0         |
| 30 | Analysis of Ribose Ring Dynamics in RNA Molecules Using <sup>13</sup> C NMR. <i>FASEB Journal</i> , 2006, 20, A69.   | 0.5  | 0         |
| 31 | Approaches to the Determination of More Accurate Cross-Relaxation Rates and the Effects of Improved Distance Constraints on Protein Solution Structures. , 1996, , 73-111.   |      | 0         |
| 32 | Dynamics-Function Analysis in Catalytic RNA Using NMR Spin Relaxation and Conformationally Restricted Nucleotides. <i>Methods in Molecular Biology</i> , 2021, 2167, 183-202.  | 0.9  | 0         |