

Snorri Sigurdsson

List of Publications by Year in descending order

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147
papers

5,410
citations

57758

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66
g-index

153
all docs

153
docs citations

153
times ranked

3349
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition State Stabilization by a Catalytic RNA. <i>Science</i> , 2002, 298, 1421-1424.	12.6	271
2	Relative Orientation of Rigid Nitroxides by PELDOR: Beyond Distance Measurements in Nucleic Acids. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3292-3295.	13.8	184
3	A Nucleoside That Contains a Rigid Nitroxide Spin Label: A Fluorophore in Disguise. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2655-2658.	13.8	138
4	Sterically shielded spin labels for in-cell EPR spectroscopy: Analysis of stability in reducing environment. <i>Free Radical Research</i> , 2015, 49, 78-85.	3.3	131
5	Nanometer Distance Measurements on RNA Using PELDOR. <i>Journal of the American Chemical Society</i> , 2003, 125, 3434-3435.	13.7	127
6	Trityl Radicals: Spin Labels for Nanometer Distance Measurements. <i>Chemistry - A European Journal</i> , 2012, 18, 13580-13584.	3.3	116
7	Site-Specific Incorporation of Nitroxide Spin-Labels into Internal Sites of the TAR RNA; Structure-Dependent Dynamics of RNA by EPR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 1527-1528.	13.7	114
8	Conformational Flexibility of DNA. <i>Journal of the American Chemical Society</i> , 2011, 133, 13375-13379.	13.7	107
9	DNA interstrand cross-linking reactions of pyrrole-derived, bifunctional electrophiles: evidence for a common target site in DNA. <i>Journal of the American Chemical Society</i> , 1993, 115, 3407-3415.	13.7	100
10	Sequence preferences of DNA interstrand cross-linking agents: Importance of minimal DNA structural reorganization in the cross-linking reactions of mechlorethamine, cisplatin and mitomycin C. <i>Tetrahedron</i> , 1991, 47, 2475-2489.	1.9	97
11	Inter-domain cross-linking and molecular modelling of the hairpin ribozyme. <i>Journal of Molecular Biology</i> , 1997, 274, 197-212.	4.2	96
12	Site-Directed Spin-Labeling of Nucleic Acids by Click Chemistry: Detection of Abasic Sites in Duplex DNA by EPR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 10424-10428.	13.7	95
13	The preparation of triglycerides highly enriched with 3 polyunsaturated fatty acids via lipase catalyzed interesterification. <i>Tetrahedron Letters</i> , 1989, 30, 1671-1674.	1.4	93
14	Chemical Synthesis and Preliminary Structural Characterization of a Nitrous Acid Interstrand Cross-Linked Duplex DNA. <i>Journal of the American Chemical Society</i> , 1999, 121, 5081-5082.	13.7	92
15	Computationally Assisted Design of Polarizing Agents for Dynamic Nuclear Polarization Enhanced NMR: The AsymPol Family. <i>Journal of the American Chemical Society</i> , 2018, 140, 11013-11019.	13.7	92
16	Interstrand cross-linking of duplex DNA by nitrous acid: covalent structure of the dG-to-dG cross-link at the sequence 5'-CG. <i>Journal of the American Chemical Society</i> , 1992, 114, 4021-4027.	13.7	82
17	Site-Directed Spin Labelling of Nucleic Acids. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 2291-2301.	2.4	81
18	Rigid spin-labeled nucleoside \tilde{A}^\ddagger : a nonperturbing EPR probe of nucleic acid conformation. <i>Nucleic Acids Research</i> , 2008, 36, 5946-5954.	14.5	80

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19	Identification of Single-Base Mismatches in Duplex DNA by EPR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 18054-18056.	13.7	79
20	Sequence preferences of DNA interstrand cross-linking agents: dG-to-dG cross-linking at 5'-CG by structurally simplified analogs of mitomycin C. <i>Biochemistry</i> , 1990, 29, 9225-9233.	2.5	77
21	Isolation and characterization of a thermostable RNA ligase 1 from a <i>Thermus scotoductus</i> bacteriophage TS2126 with good single-stranded DNA ligation properties. <i>Nucleic Acids Research</i> , 2005, 33, 135-142.	14.5	70
22	Studying RNA Using Site-Directed Spin-Labeling and Continuous-Wave Electron Paramagnetic Resonance Spectroscopy. <i>Methods in Enzymology</i> , 2009, 469, 303-328.	1.0	68
23	Chemical Synthesis of Cross-Link Lesions Found in Nitrous Acid Treated DNA: A General Method for the Preparation of N2-Substituted 2'-Deoxyguanosines. <i>Journal of Organic Chemistry</i> , 2000, 65, 2959-2964.	3.2	67
24	Investigation of RNA-Protein and RNA-Metal Ion Interactions by Electron Paramagnetic Resonance Spectroscopy. <i>Chemistry and Biology</i> , 2002, 9, 699-706.	6.0	66
25	Folding of the cocaine aptamer studied by EPR and fluorescence spectroscopies using the bifunctional spectroscopic probe C. <i>Nucleic Acids Research</i> , 2009, 37, 3990-3995.	14.5	66
26	Site-specific incorporation of nitroxide spin-labels into 2'-positions of nucleic acids. <i>Nature Protocols</i> , 2007, 2, 1954-1962.	12.0	64
27	Monitoring tat peptide binding to TAR RNA by solid-state 31P-19F REDOR NMR. <i>Nucleic Acids Research</i> , 2005, 33, 3447-3454.	14.5	63
28	Synthesis and Characterization of RNA Containing a Rigid and Nonperturbing Cytidine-Derived Spin Label. <i>Journal of Organic Chemistry</i> , 2012, 77, 7749-7754.	3.2	61
29	Measurements of short distances between trityl spin labels with CW EPR, DQC and PELDOR. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19673.	2.8	59
30	Natural Abundance ^{15}N -NMR by Dynamic Nuclear Polarization: Fast Analysis of Binding Sites of a Novel Amine-Carboxyl-Linked Immobilized Dirhodium Catalyst. <i>Chemistry - A European Journal</i> , 2015, 21, 3798-3805.	3.3	59
31	Orientation selection in distance measurements between nitroxide spin labels at 94 GHz EPR with variable dual frequency irradiation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3433.	2.8	58
32	Dynamic Nuclear Polarization Nuclear Magnetic Resonance in Human Cells Using Fluorescent Polarizing Agents. <i>Biochemistry</i> , 2018, 57, 4741-4746.	2.5	58
33	A new $\hat{\pm}$ -helical extension promotes RNA binding by the dsRBD of Rnt1p RNase III. <i>EMBO Journal</i> , 2004, 23, 2468-2477.	7.8	56
34	Structural Investigation of a High-Affinity MnlI Binding Site in the Hammerhead Ribozyme by EPR Spectroscopy and DFT Calculations. Effects of Neomycin B on Metal-Ion Binding. <i>ChemBioChem</i> , 2003, 4, 1057-1065.	2.6	54
35	W-band PELDOR with 1 kW microwave power: Molecular geometry, flexibility and exchange coupling. <i>Journal of Magnetic Resonance</i> , 2012, 216, 175-182.	2.1	54
36	tert-Butyldimethylsilyl O-protected chitosan and chitoooligosaccharides: useful precursors for N-modifications in common organic solvents. <i>Carbohydrate Research</i> , 2008, 343, 2576-2582.	2.3	53

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37	Single base interrogation by a fluorescent nucleotide: each of the four DNA bases identified by fluorescence spectroscopy. <i>Chemical Communications</i> , 2008, , 3393.	4.1	52
38	Conformational dynamics of nucleic acid molecules studied by PELDOR spectroscopy with rigid spin labels. <i>Journal of Magnetic Resonance</i> , 2015, 252, 187-198.	2.1	52
39	Electron Paramagnetic Resonance Dynamic Signatures of TAR RNA~Small Molecule Complexes Provide Insight into RNA Structure and Recognition. <i>Biochemistry</i> , 2002, 41, 14843-14847.	2.5	50
40	Analytical method to determine the orientation of rigid spin labels in DNA. <i>Physical Review E</i> , 2010, 81, 021911.	2.1	49
41	bcTol: a highly water-soluble biradical for efficient dynamic nuclear polarization of biomolecules. <i>Chemical Communications</i> , 2016, 52, 7020-7023.	4.1	49
42	DNA interstrand cross-linking by reductively activated FR900482 and FR66979. <i>Journal of the American Chemical Society</i> , 1993, 115, 1199-1200.	13.7	48
43	Frequency-agile gyrotron for electron decoupling and pulsed dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2018, 289, 45-54.	2.1	47
44	A Nonfluoro Nucleoside as a Sensitive ¹⁹ F NMR Probe of Nucleic Acid Conformation. <i>Organic Letters</i> , 2008, 10, 2745-2747.	4.6	46
45	Ferro- and antiferromagnetic exchange coupling constants in PELDOR spectra. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6708.	2.8	45
46	Noncovalent and Site-Directed Spin Labeling of Nucleic Acids. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7984-7986.	13.8	44
47	Pulsed EPR dipolar spectroscopy at Q- and G-band on a trityl biradical. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24446-24451.	2.8	43
48	Incorporation of 2-deoxy-5-(trifluoromethyl)uridine and 5-Cyano-2-deoxyuridine into DNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 2453-2455.	2.2	41
49	Structure-function relationships of hammerhead ribozymes: from understanding to applications. <i>Trends in Biotechnology</i> , 1995, 13, 286-289.	9.3	40
50	A Mild and Simple Method for the Preparation of Isocyanates from Aliphatic Amines Using Trichloromethyl Chloroformate. Synthesis of an Isocyanate Containing an Activated Disulfide. <i>Journal of Organic Chemistry</i> , 1996, 61, 3883-3884.	3.2	38
51	Determination of DNA minor groove width in distamycin-DNA complexes by solid-state NMR. <i>Nucleic Acids Research</i> , 2003, 31, 5084-5089.	14.5	38
52	Flexibility and conformation of the cocaine aptamer studied by PELDOR. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2993-3002.	2.8	38
53	Site-directed spin labeling of 2-amino groups in RNA with isoindoline nitroxides that are resistant to reduction. <i>Chemical Communications</i> , 2015, 51, 13142-13145.	4.1	37
54	Efficiency of Water-Soluble Nitroxide Biradicals for Dynamic Nuclear Polarization in Rotating Solids at 9.4T: bcTol and cyolyl-TOTAPOL as New Polarizing Agents. <i>Chemistry - A European Journal</i> , 2018, 24, 3.3 13485-13494.	3.3	37

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55	Site specific labelling of sugar residues in oligoribonucleotides: reactions of aliphatic isocyanates with 2' amino groups. <i>Nucleic Acids Research</i> , 1996, 24, 3129-3133.	14.5	36
56	EPR Spectroscopic Analysis of U7 Hammerhead Ribozyme Dynamics during Metal Ion Induced Folding. <i>Biochemistry</i> , 2005, 44, 12870-12878.	2.5	35
57	Identification of Amino Acids that Promote Specific and Rigid TAR RNA-Tat Protein Complex Formation. <i>Chemistry and Biology</i> , 2005, 12, 329-337.	6.0	34
58	Solution structure of a nitrous acid induced DNA interstrand cross-link. <i>Nucleic Acids Research</i> , 2004, 32, 2785-2794.	14.5	31
59	Long-Range Distance Measurements to the Phosphodiester Backbone of Solid Nucleic Acids Using ^{31}P REDOR NMR. <i>Journal of the American Chemical Society</i> , 1999, 121, 6070-6071.	13.7	30
60	Crystal structure of a DNA containing the planar, phenoxazine-derived bi-functional spectroscopic probe $\text{A}\ddagger$. <i>Nucleic Acids Research</i> , 2011, 39, 4419-4426.	14.5	30
61	Hydrogen-bonding controlled rigidity of an isoindoline-derived nitroxide spin label for nucleic acids. <i>Chemical Communications</i> , 2013, 49, 999-1001.	4.1	30
62	Highly Efficient Polarizing Agents for MAS DNP of Proton Dense Molecular Solids. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	30
63	Protein-induced changes in DNA structure and dynamics observed with noncovalent site-directed spin labeling and PELDOR. <i>Nucleic Acids Research</i> , 2013, 41, e11-e11.	14.5	29
64	Compaction of RNA Duplexes in the Cell**. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23025-23029.	13.8	28
65	TMIO-Pyrlmid Hybrids are Profluorescent, Site-Directed Spin Labels for Nucleic Acids. <i>Organic Letters</i> , 2014, 16, 5528-5531.	4.6	27
66	Conformationally Restricted Isoindoline D erived Spin Labels in Duplex DNA: Distances and Rotational Flexibility by Pulsed Electron D ouble Resonance Spectroscopy. <i>Chemistry - A European Journal</i> , 2014, 20, 15913-15919.	3.3	27
67	Advanced EPR Methods for Studying Conformational Dynamics of Nucleic Acids. <i>Methods in Enzymology</i> , 2015, 564, 403-425.	1.0	27
68	Structure D Function Relationships of Phenoxazine Nucleosides for Identification of Mismatches in Duplex DNA by Fluorescence Spectroscopy. <i>ChemBioChem</i> , 2011, 12, 567-575.	2.6	26
69	Nitroxide-labeled pyrimidines for non-covalent spin-labeling of abasic sites in DNA and RNA duplexes. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 7366-7374.	2.8	26
70	Distance measurements between manganese(II) and nitroxide spin-labels by DEER determine a binding site of Mn^{2+} in the HP92 loop of ribosomal RNA. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15098-15102.	2.8	26
71	Affinity crosslinking of duplex DNA by a pyrrole-oligopeptide conjugate. <i>Journal of the American Chemical Society</i> , 1993, 115, 12633-12634.	13.7	25
72	Interstrand disulfide cross-linking of internal sugar residues in duplex RNA. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 269-273.	3.0	25

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73	EPR spectroscopic analysis of TAR RNA–metal ion interactions. <i>Biochemical and Biophysical Research Communications</i> , 2003, 303, 721-725.	2.1	25
74	Influence of Mg ²⁺ on the conformational flexibility of a tetracycline aptamer. <i>Rna</i> , 2019, 25, 158-167.	3.5	24
75	High-resolution EPR distance measurements on RNA and DNA with the non-covalent ζ' spin label. <i>Nucleic Acids Research</i> , 2020, 48, 924-933.	14.5	23
76	Site-Directed Nitroxide Spin Labeling of Biopolymers. <i>Structure and Bonding</i> , 2011, , 121-162.	1.0	22
77	Dynamic Nuclear Polarization Provides New Insights into Chromophore Structure in Phytochrome Photoreceptors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 16017-16020.	13.8	22
78	In Vitro Selection of Hammerhead Ribozymes Containing a Bulged Nucleotide in Stem II. <i>Nucleic Acids Research</i> , 1996, 24, 4401-4406.	14.5	21
79	Identification and Characterization of a Divalent Metal Ion-Dependent Cleavage Site in the Hammerhead Ribozyme. <i>Biochemistry</i> , 2001, 40, 13849-13856.	2.5	21
80	Structure guided fluorescence labeling reveals a two-step binding mechanism of neomycin to its RNA aptamer. <i>Nucleic Acids Research</i> , 2019, 47, 15-28.	14.5	21
81	Quantification of Formaldehyde-Mediated Covalent Adducts of Adriamycin with DNA. <i>Biochemistry</i> , 1999, 38, 8682-8690.	2.5	20
82	Nitroxides and nucleic acids: Chemistry and electron paramagnetic resonance (EPR) spectroscopy. <i>Pure and Applied Chemistry</i> , 2011, 83, 677-686.	1.9	20
83	Structural changes of an abasic site in duplex DNA affect noncovalent binding of the spin label \tilde{S} . <i>Nucleic Acids Research</i> , 2012, 40, 3732-3740.	14.5	20
84	Conformational Equilibria of Bulged Sites in Duplex DNA Studied by EPR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2664-2675.	2.6	19
85	Experimental and theoretical study of the metastable decay of negatively charged nucleosides in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15283.	2.8	19
86	An NMR study of [d(CGCGAATTCGCG)] ₂ containing an interstrand cross-link derived from a distamycin-pyrrole conjugate. <i>Nucleic Acids Research</i> , 1996, 24, 1566-1573.	14.5	18
87	Using solid-state ³¹ P{ ¹⁹ F} REDOR NMR to measure distances between a trifluoromethyl group and a phosphodiester in nucleic acids. <i>Journal of Magnetic Resonance</i> , 2006, 178, 11-24.	2.1	18
88	Determination of helix orientations in a flexible DNA by multi-frequency EPR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29801-29811.	2.8	18
89	A semi-rigid isoindoline-derived nitroxide spin label for RNA. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 816-824.	2.8	18
90	Frequency-chirped dynamic nuclear polarization with magic angle spinning using a frequency-agile gyrotron. <i>Journal of Magnetic Resonance</i> , 2019, 308, 106586.	2.1	18

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91	Noncovalent and site-directed spin labeling of duplex RNA. <i>Chemical Communications</i> , 2016, 52, 14442-14445.	4.1	17
92	Dynamic Nuclear Polarization with Electron Decoupling in Intact Human Cells and Cell Lysates. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2323-2330.	2.6	16
93	Flexibilities of isoindoline-derived spin labels for nucleic acids by orientation selective PELDOR. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16196-16201.	2.8	15
94	Site-Directed Spin Labeling for EPR Studies of Nucleic Acids. <i>Nucleic Acids and Molecular Biology</i> , 2016, , 159-187.	0.2	15
95	Dynamics of Nucleic Acids at Room Temperature Revealed by Pulsed EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10540-10543.	13.8	15
96	Large flanking sequence effects in single nucleotide mismatch detection using fluorescent nucleoside Áff. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 6121-6126.	3.0	14
97	Stereospecific Syntheses of 3â€-Deuterated Pyrimidine Nucleosides and Their Site-Specific Incorporation into DNA. <i>Organic Letters</i> , 2003, 5, 917-919.	4.6	13
98	Structural features and dynamics of a coldâ€adapted alkaline phosphatase studied by EPR spectroscopy. <i>FEBS Journal</i> , 2009, 276, 2725-2735.	4.7	13
99	Conformation and dynamics of nucleotides in bulges and symmetric internal loops in duplex DNA studied by EPR and fluorescence spectroscopies. <i>Biochemical and Biophysical Research Communications</i> , 2012, 420, 656-661.	2.1	13
100	Monoalkylation of DNA by reductively activated FR66979. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 173-179.	3.0	12
101	Zinc-dependent cleavage in the catalytic core of the hammerhead ribozyme: evidence for a pH-dependent conformational change. <i>Nucleic Acids Research</i> , 2003, 31, 2595-2600.	14.5	12
102	Sequence context effect on the structure of nitrous acid induced DNA interstrand cross-links. <i>Nucleic Acids Research</i> , 2004, 32, 2795-2801.	14.5	12
103	Synthesis of a 5â€2â€6â€Locked, 1,10â€Phenanthrolineâ€Containing Nucleoside and Its Incorporation into DNA. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 4713-4718.	2.4	12
104	TEMPO-derived spin labels linked to the nucleobases adenine and cytosine for probing local structural perturbations in DNA by EPR spectroscopy. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 219-227.	2.2	12
105	Quantitative UPLCâ€MS/MS assay of urinary 2,8-dihydroxyadenine for diagnosis and management of adenine phosphoribosyltransferase deficiency. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1036-1037, 170-177.	2.3	12
106	Characterization of Vâ€Moâ€W Mixed Oxide Catalyst Surface Species by ⁵¹V Solid-State Dynamic Nuclear Polarization NMR. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20857-20864.	3.1	12
107	Purineâ€Derived Nitroxides for Noncovalent Spinâ€Labeling of Abasic Sites in Duplex Nucleic Acids. <i>Chemistry - A European Journal</i> , 2018, 24, 4157-4164.	3.3	12
108	Noncovalent spin-labeling of RNA: the aptamer approach. <i>Chemical Communications</i> , 2018, 54, 11749-11752.	4.1	12

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109	Water-soluble BDPA radicals with improved persistence. <i>Chemical Communications</i> , 2020, 56, 13121-13124.	4.1	12
110	Synthesis and reactions with DNA of a family of DNA-DNA affinity cross-linking agents. <i>Tetrahedron</i> , 1994, 50, 12065-12084.	1.9	11
111	Impact of spin label rigidity on extent and accuracy of distance information from PRE data. <i>Journal of Biomolecular NMR</i> , 2017, 68, 53-63.	2.8	11
112	The distance between g-tensors of nitroxide biradicals governs MAS-DNP performance: The case of the bTurea family. <i>Journal of Magnetic Resonance</i> , 2021, 329, 107026.	2.1	11
113	A Single-stranded Junction Modulates Nanosecond Motional Ordering of the Substrate Recognition Duplex of a Group I Ribozyme. <i>ChemBioChem</i> , 2013, 14, 1720-1723.	2.6	10
114	On the Limited Stability of BDPA Radicals. <i>Chemistry - A European Journal</i> , 2020, 26, 7486-7491.	3.3	10
115	Reduction Resistant and Rigid Nitroxide Spin-Labels for DNA and RNA. <i>Journal of Organic Chemistry</i> , 2020, 85, 4036-4046.	3.2	10
116	Unexpected formation of 2-deoxy-N ³ -(3,3,3-trifluoro-1-propenyl)uridine via a Michael-type addition to 3,3,3-trifluoropropyne. <i>Tetrahedron Letters</i> , 2003, 44, 6899-6901.	1.4	9
117	Chemical syntheses of inhibitory substrates of the RNA-RNA ligation reaction catalyzed by the hairpin ribozyme. <i>Nucleic Acids Research</i> , 2004, 32, 2017-2022.	14.5	9
118	Effect of N ³ Modifications on the Affinity of Spin Label Å§ for Abasic Sites in Duplex DNA. <i>ChemBioChem</i> , 2012, 13, 684-690.	2.6	9
119	Orientation Selective 2D-SIFTER Experiments at X-Band Frequencies. <i>Applied Magnetic Resonance</i> , 2018, 49, 1355-1368.	1.2	9
120	Paramagnetic-iterative relaxation matrix approach: extracting PRE-restraints from NOESY spectra for 3D structure elucidation of biomolecules. <i>Journal of Biomolecular NMR</i> , 2019, 73, 699-712.	2.8	9
121	Thiol-Containing RNA for the Study of Structure and Function of Ribozymes. <i>Methods</i> , 1999, 18, 71-77.	3.8	8
122	Spin the light off: rapid internal conversion into a dark doublet state quenches the fluorescence of an RNA spin label. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26255-26264.	2.8	8
123	Benzoyl-Protected Hydroxylamines for Improved Chemical Synthesis of Oligonucleotides Containing Nitroxide Spin Labels. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3799-3805.	2.4	8
124	Characterization of frequency-chirped dynamic nuclear polarization in rotating solids. <i>Journal of Magnetic Resonance</i> , 2020, 313, 106702.	2.1	8
125	Isolation of Oligoribonucleotides Containing Intramolecular Cross-Links. <i>Analytical Biochemistry</i> , 1996, 235, 241-242.	2.4	7
126	Investigation of Mg ²⁺ - and temperature-dependent folding of the hairpin ribozyme by photo-crosslinking: effects of photo-crosslinker tether length and chemistry. <i>Nucleic Acids Research</i> , 2005, 33, 1058-1068.	14.5	7

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127	Sensitivity analysis of magic angle spinning dynamic nuclear polarization below 6â€°K. <i>Journal of Magnetic Resonance</i> , 2019, 305, 51-57.	2.1	7
128	Use of Enzymes in Organic Synthesis: Reduction of Ketones by Baker's Yeast Revisited. <i>Journal of Chemical Education</i> , 2005, 82, 1049.	2.3	6
129	Theory for Spinâˆ™Lattice Relaxation of Spin Probes on Weakly Deformable DNA. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9219-9236.	2.6	6
130	Site-Directed Spin Labeling of RNA by Postsynthetic Modification of 2â€²-Amino Groups. <i>Methods in Enzymology</i> , 2015, 563, 397-414.	1.0	6
131	PREPARATION OF BASE-DEUTERATED 2'-DEOXYADENOSINE NUCLEOSIDES AND THEIR SITE-SPECIFIC INCORPORATION INTO DNA. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001, 20, 1903-1913.	1.1	5
132	Rigid 5â€²-6-locked phenanthroline-derived nucleosides chelated to ruthenium and europium ions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 264-267.	2.2	5
133	Compaction of RNA Duplexes in the Cell**. <i>Angewandte Chemie</i> , 2020, 132, 23225-23229.	2.0	5
134	Modified RNAs as Tools in RNA Biochemistry. , 0, , 112-129.		4
135	Simulating electron spin resonance spectra of macromolecules labeled with two dipolar-coupled nitroxide spin labels from trajectories. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12785.	2.8	4
136	Dynamics of Nucleic Acids at Room Temperature Revealed by Pulsed EPR Spectroscopy. <i>Angewandte Chemie</i> , 2018, 130, 10700-10703.	2.0	4
137	Nitroxideâ€Derived N â€Oxide Phenazines for Noncovalent Spinâ€Labeling of DNA. <i>ChemBioChem</i> , 2020, 21, 2635-2642.	2.6	4
138	A Carbazole-Derived Nitroxide That Is an Analogue of Cytidine: A Rigid Spin Label for DNA and RNA. <i>Journal of Organic Chemistry</i> , 2021, 86, 11647-11659.	3.2	4
139	[12] Site-specific sulfhydryl groups for study of RNA conformation via disulfide cross-linking. <i>Methods in Enzymology</i> , 2000, 318, 165-175.	1.0	3
140	Interactions of the antibiotics neomycin B and chlortetracycline with the hammerhead ribozyme as studied by Zn 2+ -dependent RNA cleavage. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 1023-1028.	3.0	3
141	Mass Spectrometric Study on Sodium Ion Induced Central Nucleotide Deletion in the Gas Phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 690-698.	2.8	3
142	Syntheses and photophysical properties of 5â€²-6-locked fluorescent nucleosides. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 149-157.	2.8	3
143	Noncovalent Spinâ€Labeling of DNA and RNA Triplexes. <i>Chemistry and Biodiversity</i> , 2020, 17, e1900676.	2.1	3
144	Dynamic Nuclear Polarization Provides New Insights into Chromophore Structure in Phytochrome Photoreceptors. <i>Angewandte Chemie</i> , 2016, 128, 16251-16254.	2.0	2

#	ARTICLE	IF	CITATIONS
145	Probing the tertiary structure of the hairpin ribozyme by chemical crosslinking. Collection of Czechoslovak Chemical Communications, 1996, 61, 276-279.	1.0	2
146	Highly Efficient Polarizing Agents for MASâ€DNP of Protonâ€Dense Molecular Solids. Angewandte Chemie, 0, , .	2.0	1
147	Structure and Dynamics of Nucleic Acid Molecules Studied by Pulsed EPR. Biophysical Journal, 2018, 114, 29a.	0.5	0