

# Nicholas V Hud

## List of Publications by Citations

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143  
papers

7,715  
citations

50  
h-index

84  
g-index

164  
ext. papers

8,669  
ext. citations

10  
avg, IF

6.14  
L-index

#	Paper	IF	Citations
143	DNA-templated Ag nanocluster formation. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 5207-12	16.4	901
142	The selectivity for K <sup>+</sup> versus Na <sup>+</sup> in DNA quadruplexes is dominated by relative free energies of hydration: a thermodynamic analysis by <sup>1</sup> H NMR. <i>Biochemistry</i> , <b>1996</b> , 35, 15383-90	3.2	292
141	Cryoelectron microscopy of lambda phage DNA condensates in vitreous ice: the fine structure of DNA toroids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 14925-30	11.5	239
140	The effect of sodium, potassium and ammonium ions on the conformation of the dimeric quadruplex formed by the <i>Oxytricha nova</i> telomere repeat oligonucleotide d(G(4)T(4)G(4)). <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 3018-28	20.1	203
139	Localization of ammonium ions in the minor groove of DNA duplexes in solution and the origin of DNA A-tract bending. <i>Journal of Molecular Biology</i> , <b>1999</b> , 286, 651-60	6.5	190
138	Controlling the size of nanoscale toroidal DNA condensates with static curvature and ionic strength. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 9296-301	11.5	184
137	Ester-Mediated Amide Bond Formation Driven by Wet-Dry Cycles: A Possible Path to Polypeptides on the Prebiotic Earth. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9871-5	16.4	183
136	DNA-cation interactions: The major and minor grooves are flexible ionophores. <i>Current Opinion in Structural Biology</i> , <b>2001</b> , 11, 293-301	8.1	181
135	Toroidal DNA condensates: unraveling the fine structure and the role of nucleation in determining size. <i>Annual Review of Biophysics and Biomolecular Structure</i> , <b>2005</b> , 34, 295-318		173
134	DNA and RNA in anhydrous media: duplex, triplex, and G-quadruplex secondary structures in a deep eutectic solvent. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 6310-4	16.4	166
133	Guanine, adenine, and hypoxanthine production in UV-irradiated formamide solutions: relaxation of the requirements for prebiotic purine nucleobase formation. <i>ChemBioChem</i> , <b>2010</b> , 11, 1240-3	3.8	151
132	History of the ribosome and the origin of translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 15396-401	11.5	147
131	Binding sites and dynamics of ammonium ions in a telomere repeat DNA quadruplex. <i>Journal of Molecular Biology</i> , <b>1999</b> , 285, 233-43	6.5	147
130	Cations in charge: magnesium ions in RNA folding and catalysis. <i>Current Opinion in Structural Biology</i> , <b>2012</b> , 22, 262-72	8.1	144
129	The origin of RNA and "my grandfather's axe". <i>Chemistry and Biology</i> , <b>2013</b> , 20, 466-74		130
128	Evolution of the ribosome at atomic resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 10251-6	11.5	129
127	Efficient self-assembly in water of long noncovalent polymers by nucleobase analogues. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 2447-50	16.4	122

126	A unified model for the origin of DNA sequence-directed curvature. <i>Biopolymers</i> , <b>2003</b> , 69, 144-58	2.2	122
125	Localization of Divalent Metal Ions in the Minor Groove of DNA A-Tracts. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 5756-5757	16.4	113
124	Complete disproportionation of duplex poly(dT)*poly(dA) into triplex poly(dT)*poly(dA)*poly(dT) and poly(dA) by coralyne. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, 983-92	20.1	102
123	Assembly of an antiparallel homo-adenine DNA duplex by small-molecule binding. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 8644-5	16.4	95
122	Controlling nucleic acid secondary structure by intercalation: effects of DNA strand length on coralyne-driven duplex disproportionation. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, 4608-15	20.1	91
121	Ammonium Ion as an NMR Probe for Monovalent Cation Coordination Sites of DNA Quadruplexes. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 6403-6404	16.4	85
120	Tip-radius-induced artifacts in AFM images of protamine-complexed DNA fibers. <i>Ultramicroscopy</i> , <b>1992</b> , 42-44 ( Pt B), 1095-100	3.1	84
119	Secondary structures of rRNAs from all three domains of life. <i>PLoS ONE</i> , <b>2014</b> , 9, e88222	3.7	78
118	Formation of native-like mammalian sperm cell chromatin with folded bull protamine. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 20088-95	5.4	76
117	Molecular recognition of poly(A) by small ligands: an alternative method of analysis reveals nanomolar, cooperative and shape-selective binding. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, 611-21	20.1	74
116	Spontaneous formation and base pairing of plausible prebiotic nucleotides in water. <i>Nature Communications</i> , <b>2016</b> , 7, 11328	17.4	73
115	Darwin's Warm Little Pond: A One-Pot Reaction for Prebiotic Phosphorylation and the Mobilization of Phosphate from Minerals in a Urea-Based Solvent. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 13249-13253	16.4	71
114	Human telomere sequence DNA in water-free and high-viscosity solvents: G-quadruplex folding governed by Kramers rate theory. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15324-30	16.4	69
113	Primitive genetic polymers. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2010</b> , 2, a002196	10.2	68
112	Nucleation of DNA Condensation by Static Loops: Formation of DNA Toroids with Reduced Dimensions. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 4833-4834	16.4	68
111	Spontaneous prebiotic formation of a Ribofuranoside that self-assembles with a complementary heterocycle. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 5640-6	16.4	67
110	Quantum-mechanical analysis of the energetic contributions to $\pi$ -stacking in nucleic acids versus rise, twist, and slide. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 1306-16	16.4	66
109	Time study of DNA condensate morphology: implications regarding the nucleation, growth, and equilibrium populations of toroids and rods. <i>Biochemistry</i> , <b>2006</b> , 45, 8174-83	3.2	66

108	Collision cross section calibrants for negative ion mode traveling wave ion mobility-mass spectrometry. <i>Analyst, The</i> , <b>2015</b> , 140, 6853-61	5	65
107	Ester Formation and Hydrolysis during Wet/Dry Cycles: Generation of Far-from-Equilibrium Polymers in a Model Prebiotic Reaction. <i>Macromolecules</i> , <b>2014</b> , 47, 1334-1343	5.5	65
106	Abiotic synthesis of RNA in water: a common goal of prebiotic chemistry and bottom-up synthetic biology. <i>Current Opinion in Chemical Biology</i> , <b>2014</b> , 22, 146-57	9.7	65
105	RNA folding and catalysis mediated by iron (II). <i>PLoS ONE</i> , <b>2012</b> , 7, e38024	3.7	65
104	Formation of a beta-pyrimidine nucleoside by a free pyrimidine base and ribose in a plausible prebiotic reaction. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9556-7	16.4	65
103	Glyoxylate as a backbone linkage for a prebiotic ancestor of RNA. <i>Origins of Life and Evolution of Biospheres</i> , <b>2006</b> , 36, 39-63	1.5	62
102	RNA with iron(II) as a cofactor catalyses electron transfer. <i>Nature Chemistry</i> , <b>2013</b> , 5, 525-8	17.6	60
101	Secondary structure and domain architecture of the 23S and 5S rRNAs. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 7522-35	20.1	59
100	The solution structure of d(G(4)T(4)G(3))(2): a bimolecular G-quadruplex with a novel fold. <i>Journal of Molecular Biology</i> , <b>2002</b> , 320, 911-24	6.5	58
99	The ribosome challenge to the RNA world. <i>Journal of Molecular Evolution</i> , <b>2015</b> , 80, 143-61	3.1	57
98	Localization of <sup>23</sup> Na <sup>+</sup> in a DNA Quadruplex by High-Field Solid-State NMR. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 11423-11429	16.4	56
97	Evidence that both kinetic and thermodynamic factors govern DNA toroid dimensions: effects of magnesium(II) on DNA condensation by hexammine cobalt(III). <i>Biochemistry</i> , <b>2004</b> , 43, 5380-7	3.2	55
96	A viscous solvent enables information transfer from gene-length nucleic acids in a model prebiotic replication cycle. <i>Nature Chemistry</i> , <b>2017</b> , 9, 318-324	17.6	53
95	Folding and imaging of DNA nanostructures in anhydrous and hydrated deep-eutectic solvents. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 6765-9	16.4	51
94	Intercalation-mediated synthesis and replication: a new approach to the origin of life. <i>Journal of Theoretical Biology</i> , <b>2000</b> , 205, 543-62	2.3	51
93	B-DNA structure is intrinsically polymorphic: even at the level of base pair positions. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 3714-22	20.1	50
92	Selective incorporation of proteinaceous over nonproteinaceous cationic amino acids in model prebiotic oligomerization reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 16338-16346	11.5	48
91	Intercalation as a means to suppress cyclization and promote polymerization of base-pairing oligonucleotides in a prebiotic world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 5288-93	11.5	47

90	NMR evaluation of ammonium ion movement within a unimolecular G-quadruplex in solution. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 2554-63	20.1	46
89	Characterization of divalent cation localization in the minor groove of the A(n)T(n) and T(n)A(n) DNA sequence elements by <sup>1</sup> H NMR spectroscopy and manganese(II). <i>Biochemistry</i> , <b>2002</b> , 41, 9900-10	3.2	45
88	Universal sequence replication, reversible polymerization and early functional biopolymers: a model for the initiation of prebiotic sequence evolution. <i>PLoS ONE</i> , <b>2012</b> , 7, e34166	3.7	44
87	Ethidium and proflavine binding to a 2P5linked RNA duplex. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 15380-1	16.4	43
86	Spontaneous Symmetry Breaking in the Formation of Supramolecular Polymers: Implications for the Origin of Biological Homochirality. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1453-1457	16.4	42
85	Molecular paleontology: a biochemical model of the ancestral ribosome. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 3373-85	20.1	41
84	Harnessing DNA intercalation. <i>Trends in Biotechnology</i> , <b>2007</b> , 25, 433-6	15.1	41
83	Enzymatic behavior by intercalating molecules in a template-directed ligation reaction. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 2004-8	16.4	40
82	MD and NMR analyses of choline and TMA binding to duplex DNA: on the origins of aberrant sequence-dependent stability by alkyl cations in aqueous and water-free solvents. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 3075-86	16.4	39
81	Was a Pyrimidine-Pyrimidine Base Pair the Ancestor of Watson-Crick Base Pairs? Insights from a Systematic Approach to the Origin of RNA. <i>Israel Journal of Chemistry</i> , <b>2015</b> , 55, 891-905	3.4	38
80	Surveying the sequence diversity of model prebiotic peptides by mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E7652-E7659	11.5	37
79	Addressing the problems of base pairing and strand cyclization in template-directed synthesis: a case for the utility and necessity of molecular midwives and reversible backbone linkages for the origin of proto-RNA. <i>Chemistry and Biodiversity</i> , <b>2007</b> , 4, 768-83	2.5	37
78	Ultra-sensitive pH control of supramolecular polymers and hydrogels: pKa matching of biomimetic monomers. <i>Chemical Science</i> , <b>2014</b> , 5, 4681-4686	9.4	35
77	RNA-magnesium-protein interactions in large ribosomal subunit. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 8113-20	3.4	35
76	Ester-Mediated Amide Bond Formation Driven by Wet/Dry Cycles: A Possible Path to Polypeptides on the Prebiotic Earth. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 10009-10013	3.6	34
75	Multiple prebiotic metals mediate translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 12164-12169	11.5	34
74	Conformational variants of duplex DNA correlated with cytosine-rich chromosomal fragile sites. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 7157-64	5.4	32
73	Comprehensive investigation of the energetics of pyrimidine nucleoside formation in a model prebiotic reaction. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 16088-95	16.4	30

72	Solution nuclear magnetic resonance probing of cation binding sites on nucleic acids. <i>Methods in Enzymology</i> , <b>2001</b> , 338, 400-20	1.7	29
71	Mutually stabilizing interactions between proto-peptides and RNA. <i>Nature Communications</i> , <b>2020</b> , 11, 3137	17.4	28
70	Formation of supramolecular assemblies and liquid crystals by purine nucleobases and cyanuric acid in water: implications for the possible origins of RNA. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 20091-6	3.6	27
69	RNA-DNA Chimeras in the Context of an RNA World Transition to an RNA/DNA World. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 13204-13209	16.4	25
68	Bacterial protein HU dictates the morphology of DNA condensates produced by crowding agents and polyamines. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 951-61	20.1	25
67	Molecular dynamics simulations and coupled nucleotide substitution experiments indicate the nature of A{middle dot}A base pairing and a putative structure of the coralyne-induced homo-adenine duplex. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, 7715-27	20.1	24
66	Folding, Assembly, and Persistence: The Essential Nature and Origins of Biopolymers. <i>Journal of Molecular Evolution</i> , <b>2018</b> , 86, 598-610	3.1	24
65	Condensation of oligonucleotides assembled into nicked and gapped duplexes: potential structures for oligonucleotide delivery. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, 143-51	20.1	23
64	In vitro secondary structure of the genomic RNA of satellite tobacco mosaic virus. <i>PLoS ONE</i> , <b>2013</b> , 8, e54384	3.7	22
63	Glycosylation of a model proto-RNA nucleobase with non-ribose sugars: implications for the prebiotic synthesis of nucleosides. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 1263-1271	3.9	21
62	Integration host factor (IHF) dictates the structure of polyamine-DNA condensates: implications for the role of IHF in the compaction of bacterial chromatin. <i>Biochemistry</i> , <b>2009</b> , 48, 667-75	3.2	21
61	Gene packaging with lipids, peptides and viruses inhibits transfection by electroporation in vitro. <i>Journal of Controlled Release</i> , <b>2003</b> , 86, 361-70	11.7	21
60	Kinetics of prebiotic depsipeptide formation from the ester-amide exchange reaction. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 28441-28450	3.6	20
59	Ribosomal small subunit domains radiate from a central core. <i>Scientific Reports</i> , <b>2016</b> , 6, 20885	4.9	20
58	Elongation of Model Prebiotic Proto-Peptides by Continuous Monomer Feeding. <i>Macromolecules</i> , <b>2017</b> , 50, 9286-9294	5.5	19
57	Domain III of the T. thermophilus 23S rRNA folds independently to a near-native state. <i>Rna</i> , <b>2012</b> , 18, 752-8	5.8	19
56	Evidence of strong hydrogen bonding by 8-aminoguanine. <i>Chemical Communications</i> , <b>2009</b> , 647-9	5.8	19
55	Iron mediates catalysis of nucleic acid processing enzymes: support for Fe(II) as a cofactor before the great oxidation event. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 3634-3642	20.1	18

54	Prebiotic Syntheses of Noncanonical Nucleosides and Nucleotides. <i>Chemical Reviews</i> , <b>2020</b> , 120, 4806-4830	18.1	18
53	Solution structure and thermodynamics of 2P5PRNA intercalation. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 5831-8	16.4	17
52	Submicromolar, selective G-quadruplex ligands from one pot: thermodynamic and structural studies of human telomeric DNA binding by azacyanines. <i>ChemBioChem</i> , <b>2008</b> , 9, 1889-92	3.8	17
51	A blueprint for academic laboratories to produce SARS-CoV-2 quantitative RT-PCR test kits. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 15438-15453	5.4	16
50	Searching for lost nucleotides of the pre-RNA World with a self-refining model of early Earth. <i>Nature Communications</i> , <b>2018</b> , 9, 5171	17.4	16
49	Water and Life: The Medium is the Message. <i>Journal of Molecular Evolution</i> , <b>2021</b> , 89, 2-11	3.1	16
48	DFT energy surfaces for aminopurine homodimers and their conjugate acid ions. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 3369-77	2.8	15
47	Structure of polyglutamine. <i>FEBS Letters</i> , <b>2000</b> , 472, 166-8	3.8	15
46	A Stark Contrast to Modern Earth: Phosphate Mineral Transformation and Nucleoside Phosphorylation in an Iron- and Cyanide-Rich Early Earth Scenario. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16981-16987	16.4	14
45	Enhanced nonenzymatic ligation of homopurine miniduplexes: support for greater base stacking in a pre-RNA world. <i>ChemBioChem</i> , <b>2013</b> , 14, 45-8	3.8	14
44	Nonenzymatic ligation of DNA with a reversible step and a final linkage that can be used in PCR. <i>ChemBioChem</i> , <b>2012</b> , 13, 1121-4	3.8	13
43	Silicate-Promoted Phosphorylation of Glycerol in Non-Aqueous Solvents: A Prebiotically Plausible Route to Organophosphates. <i>Life</i> , <b>2017</b> , 7,	3	12
42	Darwin's Warm Little Pond: A One-Pot Reaction for Prebiotic Phosphorylation and the Mobilization of Phosphate from Minerals in a Urea-Based Solvent. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 13443-13447	3.6	12
41	Characterization of nigerlysin, hemolysin produced by <i>Aspergillus niger</i> , and effect on mouse neuronal cells in vitro. <i>Toxicology</i> , <b>2006</b> , 219, 150-5	4.4	12
40	Solvent viscosity facilitates replication and ribozyme catalysis from an RNA duplex in a model prebiotic process. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 6569-6577	20.1	11
39	A Possible Path to Prebiotic Peptides Involving Silica and Hydroxy Acid-Mediated Amide Bond Formation. <i>ChemBioChem</i> , <b>2018</b> , 19, 1913-1917	3.8	11
38	Folding and Imaging of DNA Nanostructures in Anhydrous and Hydrated Deep-Eutectic Solvents. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6869-6873	3.6	11
37	Molecular recognition of Watson-Crick-like purine-purine base pairs. <i>ChemBioChem</i> , <b>2011</b> , 12, 2155-8	3.8	11

36	Chapter 4: Metal Ion Interactions with G-Quadruplex Structures. <i>RSC Biomolecular Sciences</i> , <b>2008</b> , 118-153		11
35	Reversible Transformation of a Supramolecular Hydrogel by Redox Switching of Methylene Blue-A Noncovalent Chain Stopper. <i>ACS Omega</i> , <b>2020</b> , 5, 344-349	3.9	11
34	Exquisite regulation of supramolecular equilibrium polymers in water: chain stoppers control length, polydispersity and viscoelasticity. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 5268-5277	4.9	11
33	Protein-free ribosomal RNA folds to a near-native state in the presence of Mg <sup>2+</sup> . <i>RSC Advances</i> , <b>2017</b> , 7, 54674-54681	3.7	8
32	Enzymatic Behavior by Intercalating Molecules in a Template-Directed Ligation Reaction. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 2038-2042	3.6	8
31	Our Odyssey to Find a Plausible Prebiotic Path to RNA: The First Twenty Years. <i>Synlett</i> , <b>2016</b> , 28, 36-55	2.2	8
30	MgCl <sub>2</sub> Enhances Cluster Formation by Nanoscale Toroidal DNA Condensates. <i>Journal of Cluster Science</i> , <b>2003</b> , 14, 115-122	3	7
29	The Prebiotic Provenance of Semi-Aqueous Solvents. <i>Origins of Life and Evolution of Biospheres</i> , <b>2020</b> , 50, 1-14	1.5	6
28	Small molecule-mediated duplex formation of nucleic acids with incompatible backbones. <i>Chemical Communications</i> , <b>2016</b> , 52, 5436-9	5.8	6
27	Adenine Synthesis in a Model Prebiotic Reaction: Connecting Origin of Life Chemistry with Biology. <i>Journal of Chemical Education</i> , <b>2011</b> , 88, 1698-1701	2.4	6
26	Towards Efficient Nonenzymatic DNA Ligation: Comparing Key Parameters for Maximizing Ligation Rates and Yields with Carbodiimide Activation*. <i>ChemBioChem</i> , <b>2020</b> , 21, 3359-3370	3.8	6
25	X-ray Fiber Diffraction and Computational Analyses of Stacked Hexads in Supramolecular Polymers: Insight into Self-Assembly in Water by Prospective Prebiotic Nucleobases. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 6079-6094	16.4	6
24	SalivaSTAT: Direct-PCR and Pooling of Saliva Samples Collected in Healthcare and Community Setting for SARS-CoV-2 Mass Surveillance. <i>Diagnostics</i> , <b>2021</b> , 11,	3.8	6
23	Water-Soluble Supramolecular Polymers of Paired and Stacked Heterocycles: Assembly, Structure, Properties, and a Possible Path to Pre-RNA. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 9279-9296	16.4	6
22	RNA/DNA Chimeras in the Context of an RNA World Transition to an RNA/DNA World. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 13398-13403	3.6	6
21	The Unexpected Base-Pairing Behavior of Cyanuric Acid in RNA and Ribose versus Cyanuric Acid Induced Helicene Assembly of Nucleic Acids: Implications for the Pre-RNA Paradigm. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 4033-4042	4.8	6
20	Mineral surfaces: a mixed blessing for the RNA world?. <i>Astrobiology</i> , <b>2009</b> , 9, 253-5; discussion 256	3.7	5
19	A blueprint for academic labs to produce SARS-CoV-2 RT-qPCR test kits <b>2020</b> ,		5

18	Prebiotic Origin of Pre-RNA Building Blocks in a Urea "Warm Little Pond" Scenario. <i>ChemBioChem</i> , <b>2020</b> , 21, 3504-3510	3.8	5
17	Transition metals enhance prebiotic depsipeptide oligomerization reactions involving histidine.. <i>RSC Advances</i> , <b>2021</b> , 11, 3534-3538	3.7	5
16	Depsipeptide Nucleic Acids: Prebiotic Formation, Oligomerization, and Self-Assembly of a New Proto-Nucleic Acid Candidate. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 13525-13537	16.4	5
15	Searching for Possible Ancestors of RNA: The Self-Assembly Hypothesis for the Origin of Proto-RNA. <i>Nucleic Acids and Molecular Biology</i> , <b>2018</b> , 143-174		4
14	Chapter 3:Sequence-specific DNA/Metal Ion Interactions. <i>RSC Biomolecular Sciences</i> , <b>2008</b> , 75-117		4
13	RNA nucleosides built in one prebiotic pot. <i>Science</i> , <b>2019</b> , 366, 32-33	33.3	3
12	Spontaneous Symmetry Breaking in the Formation of Supramolecular Polymers: Implications for the Origin of Biological Homochirality. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 1467-1471	3.6	3
11	Step-Growth Control in Template-Directed Polymerization. <i>Heterocycles</i> , <b>2010</b> , 82, 1477	0.8	3
10	The proto-Nucleic Acid Builder: a software tool for constructing nucleic acid analogs. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 79-89	20.1	3
9	Thioesters provide a plausible prebiotic path to proto-peptides.. <i>Nature Communications</i> , <b>2022</b> , 13, 2569	17.4	2
8	A Stark Contrast to Modern Earth: Phosphate Mineral Transformation and Nucleoside Phosphorylation in an Iron- and Cyanide-Rich Early Earth Scenario. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17137-17143	2.6	1
7	Self-Assembly and the Origin of the First RNA-Like Polymers. <i>ACS Symposium Series</i> , <b>2010</b> , 109-132	0.4	1
6	Impact of substrate-template stability, temperature, phosphate location, and nick-site base pairs on non-enzymatic DNA ligation: Defining parameters for optimization of ligation rates and yields with carbodiimide activation		1
5	Titelbild: Darwin's Warm Little Pond: A One-Pot Reaction for Prebiotic Phosphorylation and the Mobilization of Phosphate from Minerals in a Urea-Based Solvent (Angew. Chem. 42/2016). <i>Angewandte Chemie</i> , <b>2016</b> , 128, 13107-13107	3.6	
4	Titelbild: Folding and Imaging of DNA Nanostructures in Anhydrous and Hydrated Deep-Eutectic Solvents (Angew. Chem. 23/2015). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6753-6753	3.6	
3	Cover Picture: Enzymatic Behavior by Intercalating Molecules in a Template-Directed Ligation Reaction (Angew. Chem. Int. Ed. 15/2004). <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 1895-1895	16.4	
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