

# Ram Krishnamurthy

## List of Publications by Year in descending order

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139  
papers

5,123  
citations

70961

41  
h-index

102304

66  
g-index

179  
all docs

179  
docs citations

179  
times ranked

2762  
citing authors

#	ARTICLE	IF	CITATIONS
1	Concurrent Prebiotic Formation of Nucleosideâ€Amidophosphates and Nucleosideâ€Triphosphates Potentiates Transition from Abiotic to Biotic Polymerization. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	5
2	Concurrent Prebiotic Formation of Nucleosideâ€Amidophosphates and Nucleosideâ€Triphosphates Potentiates Transition from Abiotic to Biotic Polymerization. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
3	InnenrÃ¼cktitelbild: Concurrent Prebiotic Formation of Nucleosideâ€Amidophosphates and Nucleosideâ€Triphosphates Potentiates Transition from Abiotic to Biotic Polymerization ( <i>Angew. Chem.</i> ) Tj ETQq1 1.0.784314 rgBT /O	1.0	0
4	A Plausible Prebiotic Oneâ€Pot Synthesis of Orotate and Pyruvate Suggestive of Common Protometabolic Pathways. <i>Angewandte Chemie - International Edition</i> , 2022, , .	7.2	10
5	Cyanide as a primordial reductant enables a protometabolic reductive glyoxylate pathway. <i>Nature Chemistry</i> , 2022, 14, 170-178.	6.6	21
6	Synthesis and hydrolytic stability of cyclic phosphatidic acids: implications for synthetic- and proto-cell studies. <i>Chemical Communications</i> , 2022, 58, 6231-6234.	2.2	6
7	Noncovalent Helicene Structure between Nucleic Acids and Cyanuric Acid. <i>Chemistry - A European Journal</i> , 2021, 27, 4043-4052.	1.7	14
8	The Unexpected Baseâ€Pairing Behavior of Cyanuric Acid in RNA and Ribose versus Cyanuric Acid Induced Helicene Assembly of Nucleic Acids: Implications for the Preâ€RNA Paradigm. <i>Chemistry - A European Journal</i> , 2021, 27, 4033-4042.	1.7	11
9	Prebiotic Phosphorylation and Concomitant Oligomerization of Deoxynucleosides to form DNA. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10775-10783.	7.2	15
10	Prebiotic Phosphorylation and Concomitant Oligomerization of Deoxynucleosides to form DNA. <i>Angewandte Chemie</i> , 2021, 133, 10870-10878.	1.6	5
11	Prebiotically Plausible RNA Activation Compatible with Ribozymeâ€Catalyzed Ligation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2952-2957.	7.2	11
12	PrÃ¤biotisch plausible RNAâ€Aktivierung kompatibel mit ribozymkatalysierter Ligation. <i>Angewandte Chemie</i> , 2021, 133, 2988-2993.	1.6	4
13	Frontispiece: The Unexpected Baseâ€Pairing Behavior of Cyanuric Acid in RNA and Ribose versus Cyanuric Acid Induced Helicene Assembly of Nucleic Acids: Implications for the Preâ€RNA Paradigm. <i>Chemistry - A European Journal</i> , 2021, 27, .	1.7	0
14	Transcriptional processing of an unnatural base pair by eukaryotic RNA polymerase II. <i>Nature Chemical Biology</i> , 2021, 17, 906-914.	3.9	16
15	Diamidophosphate (DAP) â€“ A Plausible Prebiotic Phosphorylating Reagent“ with a Chem to BioChem Potential?. <i>ChemBioChem</i> , 2021, 22, 3001-3009.	1.3	11
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> , 2021, 143, 13525-13537.	6.6	13
17	Separations of Carbohydrates with Noncovalent Shift Reagents by Frequency-Modulated Ion Mobility-Orbitrap Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2472-2480.	1.2	7
18	Towards an Understanding of the Molecular Mechanisms of Variable Unnatural Baseâ€Pair Behavior: A Biophysical Analysis of dNaMâ€dTPT3. <i>Chemistry - A European Journal</i> , 2021, 27, 13991-13997.	1.7	0

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19	Cyclophospholipids Increase Proto-cellular Stability to Metal Ions. <i>Small</i> , 2020, 16, e1903381.	5.2	32
20	Chemistry of Abiotic Nucleotide Synthesis. <i>Chemical Reviews</i> , 2020, 120, 4766-4805.	23.0	123
21	A plausible metal-free ancestral analogue of the Krebs cycle composed entirely of $\alpha$ -ketoacids. <i>Nature Chemistry</i> , 2020, 12, 1016-1022.	6.6	72
22	A sensitive quantitative analysis of abiotically synthesized short homopeptides using ultraperformance liquid chromatography and time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1630, 461509.	1.8	3
23	Organic acid shift reagents for the discrimination of carbohydrate isobars by ion mobility-mass spectrometry. <i>Analyst</i> , 2020, 145, 8008-8015.	1.7	1
24	Mutually stabilizing interactions between proto-peptides and RNA. <i>Nature Communications</i> , 2020, 11, 3137.	5.8	61
25	Introduction: Chemical Evolution and the Origins of Life. <i>Chemical Reviews</i> , 2020, 120, 4613-4615.	23.0	23
26	Chemical Origins of Life: Its Engagement with Society. <i>Trends in Chemistry</i> , 2020, 2, 406-409.	4.4	1
27	Nanopore Sequencing of an Expanded Genetic Alphabet Reveals High-Fidelity Replication of a Predominantly Hydrophobic Unnatural Base Pair. <i>Journal of the American Chemical Society</i> , 2020, 142, 2110-2114.	6.6	19
28	New codons for efficient production of unnatural proteins in a semisynthetic organism. <i>Nature Chemical Biology</i> , 2020, 16, 570-576.	3.9	67
29	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> , 2019, 116, 16338-16346.	3.3	81
30	Synthesis of 2-Thioorotidine and Comparison of Its Unusual Instability with Its Canonical Pyrimidine Counterparts. <i>Journal of Organic Chemistry</i> , 2019, 84, 14427-14435.	1.7	0
31	Bis(dimethylamino)phosphorodiamidate: A Reagent for the Regioselective Cyclophosphorylation of cis-Diols Enabling One-Step Access to High-Value Target Cyclophosphates. <i>Organic Letters</i> , 2019, 21, 7400-7404.	2.4	12
32	Prebiotic Phosphorylation of Uridine using Diamidophosphate in Aerosols. <i>Scientific Reports</i> , 2019, 9, 13527.	1.6	13
33	Geochemical Sources and Availability of Amidophosphates on the Early Earth. <i>Angewandte Chemie</i> , 2019, 131, 8235-8239.	1.6	23
34	Optimization of Replication, Transcription, and Translation in a Semi-Synthetic Organism. <i>Journal of the American Chemical Society</i> , 2019, 141, 10644-10653.	6.6	52
35	Geochemical Sources and Availability of Amidophosphates on the Early Earth. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8151-8155.	7.2	44
36	Prebiotic phosphorylation of 2-thiouridine provides either nucleotides or DNA building blocks via photoreduction. <i>Nature Chemistry</i> , 2019, 11, 457-462.	6.6	61

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37	Carbohydrate isomer resolution via multi-site derivatization cyclic ion mobility-mass spectrometry. <i>Analyst, The</i> , 2019, 144, 7220-7226.	1.7	21
38	The Oligomerization of Glucose Under Plausible Prebiotic Conditions. <i>Origins of Life and Evolution of Biospheres</i> , 2019, 49, 225-240.	0.8	4
39	The role of sugar-backbone heterogeneity and chimeras in the simultaneous emergence of RNA and DNA. <i>Nature Chemistry</i> , 2019, 11, 1009-1018.	6.6	71
40	A Search for Structural Alternatives of RNA. <i>Journal of the Mexican Chemical Society</i> , 2019, 53, .	0.2	1
41	Effect of temperature modulations on TEMPO-mediated regioselective oxidation of unprotected carbohydrates and nucleosides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2759-2765.	1.0	2
42	Rapid resolution of carbohydrate isomers via multi-site derivatization ion mobility-mass spectrometry. <i>Analyst, The</i> , 2018, 143, 949-955.	1.7	22
43	Glycosylation of a model proto-RNA nucleobase with non-ribose sugars: implications for the prebiotic synthesis of nucleosides. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1263-1271.	1.5	29
44	Linked cycles of oxidative decarboxylation of glyoxylate as protometabolic analogs of the citric acid cycle. <i>Nature Communications</i> , 2018, 9, 91.	5.8	89
45	Heterogeneous Pyrophosphate-Linked DNA-Oligonucleotides: Aversion to DNA but Affinity for RNA. <i>Chemistry - A European Journal</i> , 2018, 24, 6837-6842.	1.7	12
46	Phosphorylation, oligomerization and self-assembly in water under potential prebiotic conditions. <i>Nature Chemistry</i> , 2018, 10, 212-217.	6.6	177
47	Frontispiece: Life's Biological Chemistry: A Destiny or Destination Starting from Prebiotic Chemistry?. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	0
48	Experimentally investigating the origin of DNA/RNA on early Earth. <i>Nature Communications</i> , 2018, 9, 5175.	5.8	16
49	Base-Mediated Cascade Aldol Addition and Fragmentation Reactions of Dihydroxyfumaric Acid and Aromatic Aldehydes: Controlling Chemodivergence via Choice of Base, Solvent, and Substituents. <i>Journal of Organic Chemistry</i> , 2018, 83, 14219-14233.	1.7	6
50	Frontispiece: Chimeric XNA: An Unconventional Design for Orthogonal Informational Systems. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	0
51	Life's Biological Chemistry: A Destiny or Destination Starting from Prebiotic Chemistry?. <i>Chemistry - A European Journal</i> , 2018, 24, 16708-16715.	1.7	46
52	Chimeric XNA: An Unconventional Design for Orthogonal Informational Systems. <i>Chemistry - A European Journal</i> , 2018, 24, 12811-12819.	1.7	9
53	Reaction of glycine with glyoxylate: Competing transaminations, aldol reactions, and decarboxylations. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3709.	0.9	5
54	Anchimeric-Assisted Spontaneous Hydrolysis of Cyanohydrins Under Ambient Conditions: Implications for Cyanide-Initiated Selective Transformations. <i>Chemistry - A European Journal</i> , 2017, 23, 8756-8765.	1.7	15

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55	Investigations towards the Synthesis of 5-Amino-lyxofuranosides and 4-Amino-lyxopyranosides and NMR Analysis. <i>SynOpen</i> , 2017, 01, 0029-0040.	0.8	1
56	Giving Rise to Life: Transition from Prebiotic Chemistry to Protobiology. <i>Accounts of Chemical Research</i> , 2017, 50, 455-459.	7.6	53
57	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> , 2017, 114, E7652-E7659.	3.3	51
58	Orotidine-Containing RNA: Implications for the Hierarchical Selection (Systems Chemistry Emergence) of RNA. <i>Chemistry - A European Journal</i> , 2017, 23, 12668-12675.	1.7	9
59	Elongation of Model Prebiotic Proto-Peptides by Continuous Monomer Feeding. <i>Macromolecules</i> , 2017, 50, 9286-9294.	2.2	27
60	Nitrogenous Derivatives of Phosphorus and the Origins of Life: Plausible Prebiotic Phosphorylating Agents in Water. <i>Life</i> , 2017, 7, 32.	1.1	43
61	Nucleobase modification by an RNA enzyme. <i>Nucleic Acids Research</i> , 2017, 45, 1345-1354.	6.5	9
62	pH-controlled reaction divergence of decarboxylation versus fragmentation in reactions of dihydroxyfumarate with glyoxylate and formaldehyde: parallels to biological pathways. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 352-360.	0.9	5
63	Prebiotic Organic Chemistry and Chemical pre-Biology: Speaking to the Synthetic Organic Chemists. <i>Synlett</i> , 2016, 28, 1-11.	1.0	4
64	RNA-DNA Chimeras in the Context of an RNA World Transition to an RNA/DNA World. <i>Angewandte Chemie</i> , 2016, 128, 13398-13403.	1.6	7
65	A Plausible Prebiotic Origin of Glyoxylate: Nonenzymatic Transamination Reactions of Glycine with Formaldehyde. <i>Synlett</i> , 2016, 28, 93-97.	1.0	6
66	RNA-DNA Chimeras in the Context of an RNA World Transition to an RNA/DNA World. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13204-13209.	7.2	43
67	Mineral-Induced Enantioenrichment of Tartaric Acid. <i>Synlett</i> , 2016, 28, 89-92.	1.0	1
68	The Abiotic Oxidation of Organic Acids to Malonate. <i>Synlett</i> , 2016, 28, 98-102.	1.0	4
69	Spontaneous formation and base pairing of plausible prebiotic nucleotides in water. <i>Nature Communications</i> , 2016, 7, 11328.	5.8	112
70	Kinetics of prebiotic depsipeptide formation from the ester-amide exchange reaction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28441-28450.	1.3	28
71	Small molecule-mediated duplex formation of nucleic acids with incompatible backbones. <i>Chemical Communications</i> , 2016, 52, 5436-5439.	2.2	6
72	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> , 2015, 54, 9871-9875.	7.2	246

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73	Microwave-Assisted Phosphitylation of DNA and RNA Nucleosides and Their Analogs. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2015, 60, 2.19.1-2.19.20.	0.5	3
74	On the Emergence of RNA. <i>Israel Journal of Chemistry</i> , 2015, 55, 837-850.	1.0	59
75	Hydrogen-Bonding Complexes of 5-Azauracil and Uracil Derivatives in Organic Medium. <i>Journal of Organic Chemistry</i> , 2015, 80, 7066-7075.	1.7	7
76	Synthesis of orotidine by intramolecular nucleosidation. <i>Chemical Communications</i> , 2015, 51, 5618-5621.	2.2	10
77	Furanose. , 2015, , 903-904.		0
78	p-RNA. , 2015, , 2017-2021.		0
79	Synthesis of phosphoramidites of isoGNA, an isomer of glycerol nucleic acid. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2131-2138.	1.3	5
80	RNA as an Emergent Entity: An Understanding Gained Through Studying its Nonfunctional Alternatives. <i>Synlett</i> , 2014, 25, 1511-1517.	1.0	15
81	Spontaneous Prebiotic Formation of a $\beta$ -Ribofuranoside That Self-Assembles with a Complementary Heterocycle. <i>Journal of the American Chemical Society</i> , 2014, 136, 5640-5646.	6.6	82
82	Correction to "Production of Tartrates by Cyanide-Mediated Dimerization of Glyoxylate: A Potential Abiotic Pathway to the Citric Acid Cycle". <i>Journal of the American Chemical Society</i> , 2014, 136, 11846-11846.	6.6	1
83	Microwave-assisted preparation of nucleoside-phosphoramidites. <i>Chemical Communications</i> , 2014, 50, 7463-7465.	2.2	11
84	A Plausible Simultaneous Synthesis of Amino Acids and Simple Peptides on the Primordial Earth. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8132-8136.	7.2	82
85	Production of Tartrates by Cyanide-Mediated Dimerization of Glyoxylate: A Potential Abiotic Pathway to the Citric Acid Cycle. <i>Journal of the American Chemical Society</i> , 2013, 135, 13440-13445.	6.6	39
86	The Origin of RNA and "My Grandfather's Axe". <i>Chemistry and Biology</i> , 2013, 20, 466-474.	6.2	172
87	Chemical Etiology of Nucleic Acid Structure: The Pentulofuranosyl Oligonucleotide Systems: The (1 $\alpha$ - $\beta$ -3 $\alpha$ )- $\beta$ -Ribulo, (4 $\alpha$ - $\beta$ -3 $\alpha$ )- $\beta$ -Xylulo, and (1 $\alpha$ - $\beta$ -3 $\alpha$ )- $\beta$ -Xylulo. <i>A European Journal</i> , 2013, 19, 15336-15345.		
88	Base-Pairing Properties of a Structural Isomer of Glycerol Nucleic Acid. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5840-5844.	7.2	40
89	Role of p <i>K</i> <sub>a</sub> of Nucleobases in the Origins of Chemical Evolution. <i>Accounts of Chemical Research</i> , 2012, 45, 2035-2044.	7.6	100
90	Exploratory Experiments on the Chemistry of the "Glyoxylate Scenario": Formation of Ketosugars from Dihydroxyfumarate. <i>Journal of the American Chemical Society</i> , 2012, 134, 3577-3589.	6.6	61

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91	A Unified Mechanism for Abiotic Adenine and Purine Synthesis in Formamide. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5134-5137.	7.2	68
92	Mapping the Landscape of Potentially Primordial Informational Oligomers: (3-Phosphoglyceric Acid Linked Acyclic Oligonucleotides Tagged with 2,4-Disubstituted 5-Aminopyrimidines as Recognition Elements. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1252-1262.		12
93	Diastereoselective Self-Condensation of Dihydroxyfumaric Acid in Water: Potential Route to Sugars. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8127-8130.	7.2	13
94	An expedient synthesis of l-ribulose and derivatives. <i>Carbohydrate Research</i> , 2011, 346, 703-707.	1.1	8
95	Furanose. , 2011, , 619-619.		0
96	p-RNA. , 2011, , 1339-1341.		0
97	Mapping the Landscape of Potentially Primordial Informational Oligomers: Oligodipeptides Tagged with Orotic Acid Derivatives as Recognition Elements. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8124-8128.	7.2	20
98	The Structure of a TNA~TNA Complex in Solution: NMR Study of the Octamer Duplex Derived from Î±-(3-Thiofuranosyl-(3'-2'-CGAATTCG. <i>Journal of the American Chemical Society</i> , 2008, 130, 15105-15115.	6.6	61
99	Mapping the Landscape of Potentially Primordial Informational Oligomers: Oligodipeptides and Oligodipeptoids Tagged with Triazines as Recognition Elements. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2470-2477.	7.2	90
100	Cover Picture: Mapping the Landscape of Potentially Primordial Informational Oligomers: Oligodipeptides and Oligodipeptoids Tagged with Triazines as Recognition Elements / Mapping the Landscape of Potentially Primordial Informational Oligomers: Oligodipeptides Tagged with 2,4-Disubstituted 5-Aminopyrimidines as Recognition Elements ( <i>Angew. Chem. Int. Ed.</i> 14/2007). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2333-2333.	7.2	0
101	Mapping the Landscape of Potentially Primordial Informational Oligomers: Oligodipeptides Tagged with 2,4-Disubstituted 5-Aminopyrimidines as Recognition Elements. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2478-2484.	7.2	80
102	Tautomerism in 5,8-Diaza-7,9-dicarbaguanine (Alloguanine™). <i>Helvetica Chimica Acta</i> , 2005, 88, 1960-1968. 1.0		6
103	Mannich-Type C-Nucleosidations with 7-Carba-purines and 4-Aminopyrimidines. <i>Synlett</i> , 2005, 2005, 0744-0750.	1.0	0
104	Base-Pairing Systems Related to TNA Containing Phosphoramidate Linkages: Synthesis of Building Blocks and Pairing Properties. <i>Chemistry and Biodiversity</i> , 2004, 1, 939-979.	1.0	13
105	Mannich-Type C-Nucleosidations in the 5,8-Diaza-7,9-dicarba-purine Family1. <i>Organic Letters</i> , 2004, 6, 3691-3694.	2.4	11
106	Pentopyranosyl Oligonucleotide Systems. Communication No. 13. <i>Helvetica Chimica Acta</i> , 2003, 86, 1259-1308.	1.0	19
107	Pentopyranosyl Oligonucleotide Systems. 9th Communication. <i>Helvetica Chimica Acta</i> , 2003, 86, 4270-4363.	1.0	50
108	Why Does TNA Cross-Pair More Strongly with RNA Than with DNA? An Answer From X-ray Analysis. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5893-5895.	7.2	63

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109	C-Nucleosidations with 2,6-Diamino-5,8-diaza-7,9-dicarba-purine <sup>1</sup> . Organic Letters, 2003, 5, 2071-2074.	2.4	13
110	2,6-Diamino-5,8-diaza-7,9-dicarba-purine <sup>1</sup> . Organic Letters, 2003, 5, 2067-2070.	2.4	21
111	Crystal Structure of a B-Form DNA Duplex Containing (l)- $\beta$ -Threofuranosyl (3'- $\beta$ -2') Nucleosides: A Four-Carbon Sugar Is Easily Accommodated into the Backbone of DNA. Journal of the American Chemical Society, 2002, 124, 13716-13721.	6.6	63
112	Base-Pairing Systems Related to TNA: $\beta$ -Threofuranosyl Oligonucleotides Containing Phosphoramidate Linkages <sup>1</sup> . Organic Letters, 2002, 4, 1279-1282.	2.4	38
113	2,6-Diaminopurine in TNA: Effect on Duplex Stabilities and on the Efficiency of Template-Controlled Ligations <sup>1</sup> . Organic Letters, 2002, 4, 1283-1286.	2.4	63
114	Pentopyranosyl Oligonucleotide Systems, Communication No.12,		



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127	Chemical Etiology of Nucleic Acid Structure: Comparing Pentopyranosyl-(2'â†'4') Oligonucleotides with RNA. <i>Science</i> , 1999, 283, 699-703.	6.0	113
128	Promiscuous Watsonâ™Crick Cross-Pairing within the Family of Pentopyranosyl (4â€ˆâ†'2â€ˆ) Oligonucleotides. <i>Organic Letters</i> , 1999, 1, 1527-1530.	2.4	24
129	l-lyxopyranosyl (4â€ˆâ†'3â€ˆ) Oligonucleotides:â€‰ A Base-Pairing System Containing a Shortened Backbone. <i>Organic Letters</i> , 1999, 1, 1531-1534.	2.4	22
130	Formation of Sugar Phosphates under Potentially Natural Conditions. <i>Mineralogical Magazine</i> , 1998, 62A, 815-815.	0.6	0
131	Pyranosyl-RNA: Base Pairing between Homochiral Oligonucleotide Strands of Opposite Sense of Chirality. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1537-1541.	4.4	57
132	Pyranosyl-RNA (â€ˆp-RNAâ€™): Base-pairing selectivity and potential to replicate. Preliminary communication. <i>Helvetica Chimica Acta</i> , 1995, 78, 1621-1635.	1.0	116
133	Bis(tri-n-butylstannyl)benzopinacolate: Preparation and use as a mediator of intermolecular free radical reactions. <i>Tetrahedron Letters</i> , 1993, 34, 7819-7822.	0.7	24
134	Investigation of a model for 1,2-asymmetric induction in reactions of .alpha.-carbalkoxy radicals: a stereochemical comparison of reactions of .alpha.-carbalkoxy radicals and ester enolates. <i>Journal of Organic Chemistry</i> , 1992, 57, 4457-4470.	1.7	87
135	Synthesis of 6H-dibenzo[b,d]pyran-6-ones via dienone-phenol rearrangements of spiro[2,5-cyclohexadiene-1,1â€²(3â€²H)-isobenzofuran]-3â€²-ones. <i>Tetrahedron</i> , 1992, 48, 8179-8188.	1.0	26
136	Stereoselective Free Radical Reactions at C(20) of Steroid Side Chains. <i>Synlett</i> , 1991, 1991, 412-414.	1.0	27
137	Free-radical cyclizations: application to the total synthesis of dl-pleurotin and dl-dihydropleurotin acid. <i>Journal of the American Chemical Society</i> , 1989, 111, 7507-7519.	6.6	82
138	A Plausible Prebiotic Oneâ€Pot Synthesis of Orotate and Pyruvate Suggestive of Common Protometabolic Pathways. <i>Angewandte Chemie</i> , 0, , .	1.6	2
139	Frontiers in Prebiotic Chemistry and Early Earth Environments. <i>Origins of Life and Evolution of Biospheres</i> , 0, , .	0.8	1