

Jianfeng Xu

List of Publications by Year in descending order

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papers

796
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687363

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789
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#	ARTICLE	IF	CITATIONS
1	A prebiotically plausible synthesis of pyrimidine $\hat{2}$ -ribonucleosides and their phosphate derivatives involving photoanomerization. <i>Nature Chemistry</i> , 2017, 9, 303-309.	13.6	109
2	Selective prebiotic formation of RNA pyrimidine and DNA purine nucleosides. <i>Nature</i> , 2020, 582, 60-66.	27.8	106
3	The origin of RNA precursors on exoplanets. <i>Science Advances</i> , 2018, 4, eaar3302.	10.3	100
4	Prebiotically plausible oligoribonucleotide ligation facilitated by chemoselective acetylation. <i>Nature Chemistry</i> , 2013, 5, 383-389.	13.6	90
5	Photochemical reductive homologation of hydrogen cyanide using sulfite and ferrocyanide. <i>Chemical Communications</i> , 2018, 54, 5566-5569.	4.1	82
6	Prebiotic phosphorylation of 2-thiouridine provides either nucleotides or DNA building blocks via photoreduction. <i>Nature Chemistry</i> , 2019, 11, 457-462.	13.6	61
7	Harnessing chemical energy for the activation and joining of prebiotic building blocks. <i>Nature Chemistry</i> , 2020, 12, 1023-1028.	13.6	53
8	Synthesis of Conformationally Locked Carba-LNAs through Intramolecular Free-Radical Addition to C $\hat{4}$ -N. Electrostatic and Steric Implication of the Carba-LNA Substituents in the Modified Oligos for Nuclease and Thermodynamic Stabilities. <i>Journal of Organic Chemistry</i> , 2009, 74, 6534-6554.	3.2	47
9	Synthesis and Agonist Activity of Cyclic ADP-Ribose Analogues with Substitution of the Northern Ribose by Ether or Alkane Chains. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 5501-5512.	6.4	35
10	Illuminating Life's Origins: UV Photochemistry in Abiotic Synthesis of Biomolecules. <i>Journal of the American Chemical Society</i> , 2021, 143, 7219-7236.	13.7	35
11	Synthesis of 2 $\hat{2}$,4 $\hat{2}$ -Propylene-Bridged (Carba-ENA) Thymidine and Its Analogues: The Engineering of Electrostatic and Steric Effects at the Bottom of the Minor Groove for Nuclease and Thermodynamic Stabilities and Elicitation of RNase H. <i>Journal of Organic Chemistry</i> , 2010, 75, 7112-7128.	3.2	24
12	Prebiotic Photochemical Coproduction of Purine Ribo- and Deoxyribonucleosides. <i>Journal of the American Chemical Society</i> , 2021, 143, 14482-14486.	13.7	20
13	Timescales for Prebiotic Photochemistry Under Realistic Surface Ultraviolet Conditions. <i>Astrobiology</i> , 2021, 21, 1099-1120.	3.0	17
14	Solid-Phase Synthesis and Hybridization Behavior of Partially 2 $\hat{2}$ /3 $\hat{2}$ -O-Acetylated RNA Oligonucleotides. <i>Journal of Organic Chemistry</i> , 2014, 79, 3311-3326.	3.2	14
15	A new and potentially prebiotic $\hat{1}$ -cytidine derivative. <i>Chemical Communications</i> , 2017, 53, 3327-3329.	4.1	3