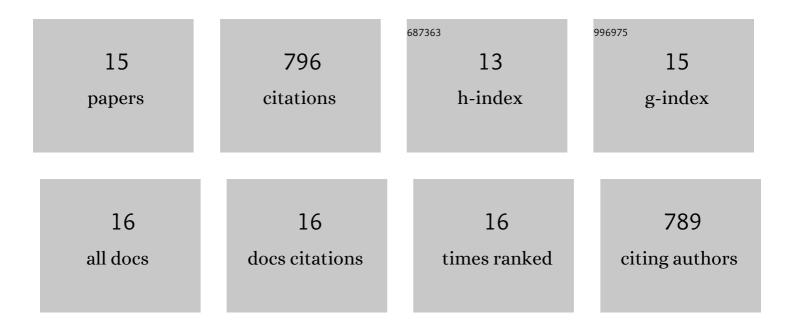
Jianfeng Xu

List of Publications by Year in descending order

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