

# Jianfeng Xu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6761453/publications.pdf>

Version: 2024-02-01

15  
papers

796  
citations

687363

13  
h-index

996975

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

789  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | 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        |
| 2  | Timescales for Prebiotic Photochemistry Under Realistic Surface Ultraviolet Conditions. <i>Astrobiology</i> , 2021, 21, 1099-1120.  | 3.0  | 17        |
| 3  | Prebiotic Photochemical Coproduction of Purine Ribo- and Deoxyribonucleosides. <i>Journal of the American Chemical Society</i> , 2021, 143, 14482-14486.  | 13.7 | 20        |
| 4  | Harnessing chemical energy for the activation and joining of prebiotic building blocks. <i>Nature Chemistry</i> , 2020, 12, 1023-1028.  | 13.6 | 53        |
| 5  | Selective prebiotic formation of RNA pyrimidine and DNA purine nucleosides. <i>Nature</i> , 2020, 582, 60-66.   | 27.8 | 106       |
| 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  | Photochemical reductive homologation of hydrogen cyanide using sulfite and ferrocyanide. <i>Chemical Communications</i> , 2018, 54, 5566-5569.  | 4.1  | 82        |
| 8  | The origin of RNA precursors on exoplanets. <i>Science Advances</i> , 2018, 4, eaar3302.  | 10.3 | 100       |
| 9  | A new and potentially prebiotic $\hat{\pm}$ -cytidine derivative. <i>Chemical Communications</i> , 2017, 53, 3327-3329.   | 4.1  | 3         |
| 10 | A prebiotically plausible synthesis of pyrimidine $\hat{\pm}$ -ribonucleosides and their phosphate derivatives involving photoanomerization. <i>Nature Chemistry</i> , 2017, 9, 303-309.  | 13.6 | 109       |
| 11 | Solid-Phase Synthesis and Hybridization Behavior of Partially 2'-Acetylated RNA Oligonucleotides. <i>Journal of Organic Chemistry</i> , 2014, 79, 3311-3326.  | 3.2  | 14        |
| 12 | Prebiotically plausible oligoribonucleotide ligation facilitated by chemoselective acetylation. <i>Nature Chemistry</i> , 2013, 5, 383-389.   | 13.6 | 90        |
| 13 | 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. <i>Journal of Organic Chemistry</i> , 2010, 75, 7112-7128.         | 3.2  | 24        |
| 14 | Synthesis of Conformationally Locked Carba-LNAs through Intramolecular Free-Radical Addition to C $\cdot$ 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        |
| 15 | 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        |