

# Xing Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2361089/publications.pdf>

Version: 2024-02-01

40  
papers

1,472  
citations

430874

18  
h-index

345221

36  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1980  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Overcoming the limitations of COVID-19 diagnostics with nanostructures, nucleic acid engineering, and additive manufacturing. <i>Current Opinion in Solid State and Materials Science</i> , 2022, 26, 100966.  | 11.5 | 9         |
| 2  | Designer DNA nanostructures for viral inhibition. <i>Nature Protocols</i> , 2022, 17, 282-326.   | 12.0 | 14        |
| 3  | Label-Free Digital Detection of Intact Virions by Enhanced Scattering Microscopy. <i>Journal of the American Chemical Society</i> , 2022, 144, 1498-1502.  | 13.7 | 26        |
| 4  | Aptamers for Viral Detection and Inhibition. <i>ACS Infectious Diseases</i> , 2022, 8, 667-692.  | 3.8  | 17        |
| 5  | Resolving the Sequence of RNA Strands by Tip-Enhanced Raman Spectroscopy. <i>ACS Photonics</i> , 2021, 8, 424-430.   | 6.6  | 15        |
| 6  | Gap Mode Tip-Enhanced Raman and AFM Imaging of RNA Strands. , 2021, , .  |      | 0         |
| 7  | Photonic metamaterial surfaces for digital resolution biosensor microscopies using enhanced absorption, scattering, and emission. , 2021, , .  |      | 2         |
| 8  | Photonic resonator interferometric scattering microscopy. <i>Nature Communications</i> , 2021, 12, 1744.   | 12.8 | 31        |
| 9  | Nanocages for virus inhibition. <i>Nature Materials</i> , 2021, 20, 1176-1177.   | 27.5 | 5         |
| 10 | Designer DNA architecture offers precise and multivalent spatial pattern-recognition for viral sensing and inhibition. <i>Nature Chemistry</i> , 2020, 12, 26-35.  | 13.6 | 193       |
| 11 | Biotechnological and Therapeutic Applications of Natural Nucleic Acid Structural Motifs. <i>Topics in Current Chemistry</i> , 2020, 378, 26.   | 5.8  | 3         |
| 12 | Paranemic Crossover DNA: There and Back Again. <i>Chemical Reviews</i> , 2019, 119, 6273-6289.   | 47.7 | 69        |
| 13 | Click and photo-release dual-functional nucleic acid nanostructures. <i>Chemical Communications</i> , 2019, 55, 9709-9712.   | 4.1  | 9         |
| 14 | DNA Nanostructures: A Molecular Hero Suit for In Vitro and In Vivo DNA Nanostructures (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22  | 10.0 | 0         |
| 15 | Exploiting Plasmon-Mediated Energy Transfer To Enhance End-to-End Efficiency in a DNA Origami Energy Transfer Array. <i>ACS Applied Nano Materials</i> , 2019, 2, 5563-5572.                                   | 5.0  | 12        |
| 16 | Hydroporator: a hydrodynamic cell membrane perforator for high-throughput vector-free nanomaterial intracellular delivery and DNA origami biostability evaluation. <i>Lab on A Chip</i> , 2019, 19, 1747-1754. | 6.0  | 50        |
| 17 | A Molecular Hero Suit for In Vitro and In Vivo DNA Nanostructures. <i>Small</i> , 2019, 15, e1805386.  | 10.0 | 19        |
| 18 | Complex between a Multicrossover DNA Nanostructure, PX-DNA, and T7 Endonuclease I. <i>Biochemistry</i> , 2019, 58, 1332-1342.  | 2.5  | 5         |

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|----|---|------|-----------|
| 19 | Tip-Enhanced Raman Imaging of Single-Stranded DNA with Single Base Resolution. <i>Journal of the American Chemical Society</i> , 2019, 141, 753-757.                                      | 13.7 | 102       |
| 20 | Synthesis and characterization of porphyrin-DNA constructs for the self-assembly of modular energy transfer arrays. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2452-2459.         | 5.5  | 19        |
| 21 | Intracellular Delivery of Nanomaterials via an Inertial Microfluidic Cell Hydroporator. <i>Nano Letters</i> , 2018, 18, 2705-2710.  | 9.1  | 65        |
| 22 | Small RNA-mediated regulation of DNA dosage in the ciliate <i>Oxytricha</i> . <i>Rna</i> , 2018, 24, 18-29.   | 3.5  | 20        |
| 23 | RNA Aptamers with Specificity for Heparosan and Chondroitin Glycosaminoglycans. <i>ACS Omega</i> , 2018, 3, 13667-13675.  | 3.5  | 8         |
| 24 | Fast design of arbitrary length loops in proteins using InteractiveRosetta. <i>BMC Bioinformatics</i> , 2018, 19, 337.  | 2.6  | 4         |
| 25 | Chromosome fusions triggered by noncoding RNA. <i>RNA Biology</i> , 2017, 14, 620-631.  | 3.1  | 9         |
| 26 | Shear Dependent LC Purification of an Engineered DNA Nanoswitch and Implications for DNA Origami. <i>Analytical Chemistry</i> , 2017, 89, 5673-5677.                                      | 6.5  | 20        |
| 27 | The Effect and Action Mechanisms of Oligochitosan on Control of Stem Dry Rot of <i>Zanthoxylum bungeanum</i> . <i>International Journal of Molecular Sciences</i> , 2016, 17, 1044.       | 4.1  | 8         |
| 28 | Beyond the Fold: Emerging Biological Applications of DNA Origami. <i>ChemBioChem</i> , 2016, 17, 1081-1089.   | 2.6  | 79        |
| 29 | Topological Linkage of DNA Tiles Bonded by Paranemic Cohesion. <i>ACS Nano</i> , 2015, 9, 10296-10303.  | 14.6 | 26        |
| 30 | Covalent Linkage of One-Dimensional DNA Arrays Bonded by Paranemic Cohesion. <i>ACS Nano</i> , 2015, 9, 10304-10312.  | 14.6 | 31        |
| 31 | Transcription-Independent Functions of an RNA Polymerase II Subunit, Rpb2, During Genome Rearrangement in the Ciliate, <i>Oxytricha trifallax</i> . <i>Genetics</i> , 2014, 197, 839-849. | 2.9  | 23        |
| 32 | Piwi-Interacting RNAs Protect DNA against Loss during <i>Oxytricha</i> Genome Rearrangement. <i>Cell</i> , 2012, 151, 1243-1255.  | 28.9 | 133       |
| 33 | Double-stranded DNA homology produces a physical signature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12547-12552.              | 7.1  | 38        |
| 34 | In vivo cloning of artificial DNA nanostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17626-17631.                        | 7.1  | 111       |
| 35 | PX DNA Triangle Oligomerized Using a Novel Three-Domain Motif. <i>Nano Letters</i> , 2008, 8, 317-322.  | 9.1  | 33        |
| 36 | Assembly and Characterization of 8-Arm and 12-Arm DNA Branched Junctions. <i>Journal of the American Chemical Society</i> , 2007, 129, 8169-8176.   | 13.7 | 134       |

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|----|--|------|-----------|
| 37 | Rolling Circle Enzymatic Replication of a Complex Multi-Crossover DNA Nanostructure. Journal of the American Chemical Society, 2007, 129, 14475-14481. | 13.7 | 66        |
| 38 | Double cohesion in structural DNA nanotechnology. Organic and Biomolecular Chemistry, 2006, 4, 3414.   | 2.8  | 40        |
| 39 | Deoligomerization: A New Route to Lactams from Unsaturated Amides via Radical Oligomerization.. ChemInform, 2003, 34, no.                              | 0.0  | 0         |
| 40 | Deoligomerization: A New Route to Lactams from Unsaturated Amides via Radical Oligomerization. Organic Letters, 2003, 5, 361-363.                      | 4.6  | 23        |