

Folding the path to DNA origami

Paper 0: Yan (2003) <https://www.pnas.org/doi/full/10.1073/pnas.1032954100>

- Figure 5 proposes what is essentially origami

Paper 1: Rothemund (2006) <https://www.nature.com/articles/nature04586>

- The DNA origami paper

Paper 2: Douglas (2009) <https://www.nature.com/articles/nature08016>

- 3D DNA origami
- Also the introduction of Cadnano

Paper 3: Dietz (2009) <https://www.science.org/doi/full/10.1126/science.1174251>

- Twisted and curved 3D origami

Paper 4: Zhang (2015) <https://www.nature.com/articles/nnano.2015.162>

- Wireframe origami

Paper 5: Gerling (2015) <https://www.science.org/doi/full/10.1126/science.aaa5372>

- Shape-complimentary assembly

Paper 6: Wintersinger (2022) <https://www.nature.com/articles/s41565-022-01283-1>

- Criss-cross assembly

Further reading

Or: things that were on the list that I had to cut to get down to 7 papers

Shih (2004) <https://www.nature.com/articles/nature02307>

- A large, single-stranded polyhedron

Andersen (2008) <https://pubs.acs.org/doi/abs/10.1021/nn800215j>

- The first “dynamic” structure
- Also an early design software

Andersen (2011) <https://www.nature.com/articles/nature07971>

- Truly dynamic structure

Han (2011) <https://www.science.org/doi/full/10.1126/science.1202998>

- Arbitrary twisted surfaces

Han (2013) <https://www.science.org/doi/full/10.1126/science.1232252>

- DNA origami gridirons

- Might call these the first wireframe structures?

Tikhomirov (2017) <https://www.nature.com/articles/nature24655>

- Hierarchical assembly

Han (2017) <https://www.science.org/doi/10.1126/science.aao2648>

- Single-stranded origami

Yao (2021) <https://www.nature.com/articles/s41557-020-0539-8>

- DNA from origami from DNA

Ng (2023) <https://onlinelibrary.wiley.com/doi/full/10.1002/adma.202302497>

- Triplex origami