

A Journal of the Gesellschaft Deutscher Chemiker

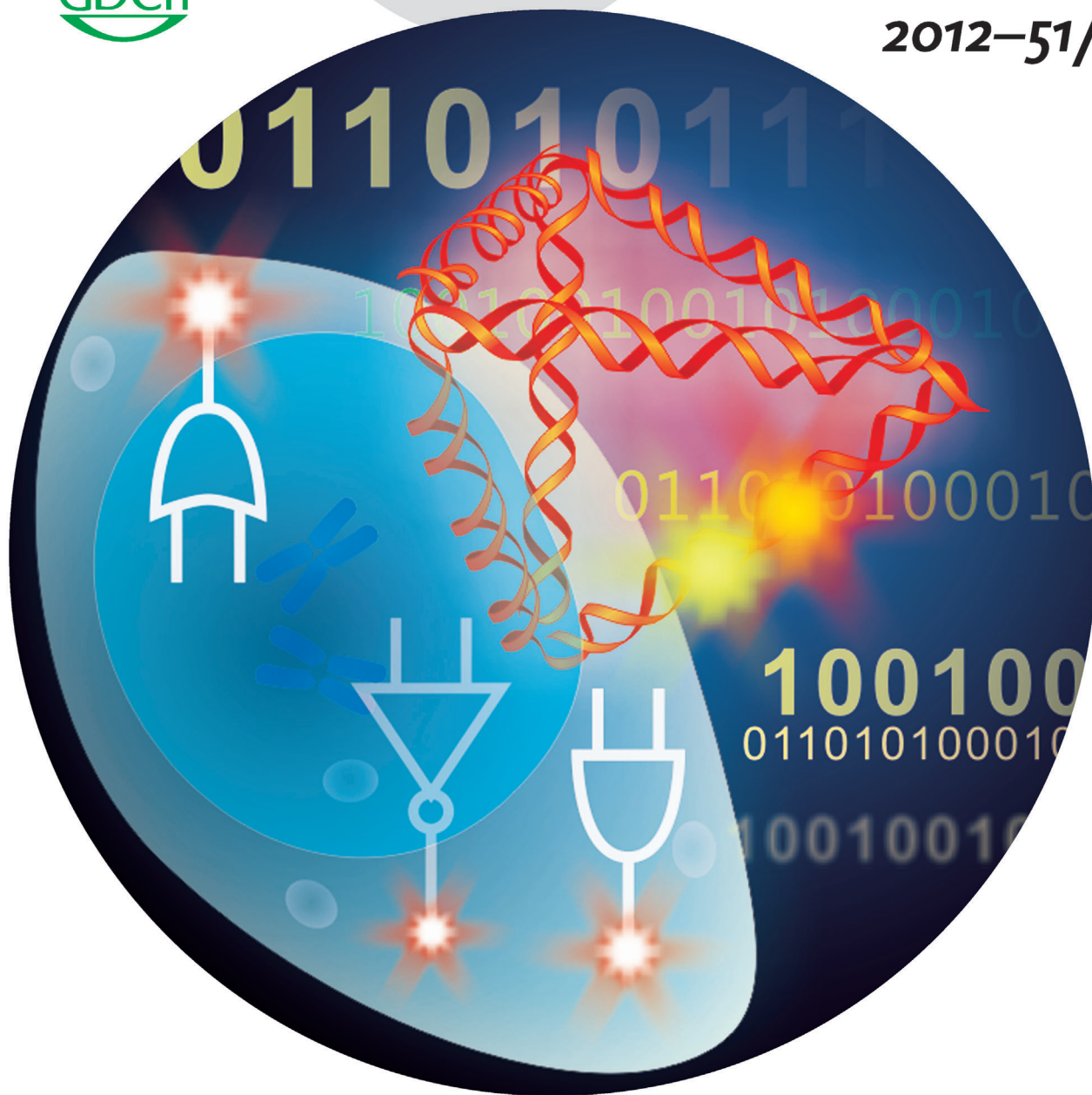
Angewandte Chemie

International Edition



www.angewandte.org

2012–51/36



Intracellular logic gates ...

... are constructed using a series of reconfigurable DNA tetrahedral nanostructures that are responsive to ions, small molecules, and complementary DNA strands. In their Communication on page 9020 ff., C. Fan et al. demonstrate the construction of AND, OR, XOR, and INH logic gates, as well as a complex half-adder operation. They also apply these DNA logic gates in living cells for the intracellular detection of ATP.

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