

# analytical commentary

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We use the model to develop analytical solutions for reaction kinetics and develop back-of-the-envelope criteria to validate and check for consistency in reported enzyme kinetic parameters.

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For some analytical applications, it is crucial to ensure simplicity, whereas, for others, the main focus should be on minimizing the use of reagents and generation of wastes. Therefore, the possibility to assign weights to criteria based on their importance in a given scenario is highly desirable.

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The results clearly indicate the need for a multifaceted analytical approach, to unequivocally establish the actual detection potential and performance of aptamers aimed at small organic molecules.

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Analytical Chemistry 2025, 97 (34) , 18460-18468. <https://doi.org/10.1021/acs.analchem.5c01135>  
Tohid Baradaran Kayyal, Taylor Thorsen, Michael Marciniak, Ayden Roberts, Marie-Christine Daniel.  
Dual Role of Dendronized Gold Nanoparticles as Both Catalyst and Cargo-Loading Core in the Formation of Gold Nanorattles.