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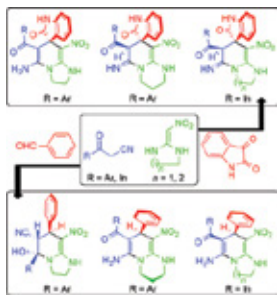
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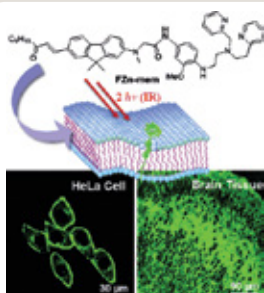


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DOI: 10.1002/ajoc.201402100

Domino Knoevenagel Condensation/Aza- Ene Addition/N- Cyclization Route to Functionalized Imidazo[1,2-a]pyridines and Pyrido[1,2-a]pyrimidines

Sathiyamoorthi Sivakumar, Raju Ranjith Kumar*

One-pot wonder! The syntheses of imidazo[1,2-a]pyridines and pyrido[1,2-a]pyrimidines were carried out by using a one-pot three-component protocol. The reaction proceeds in a single step through a domino Knoevenagel condensation/aza-ene addition/imine-enamine tautomerization/chemoselective *N*-cyclization sequence of reactions (In=indolyl).

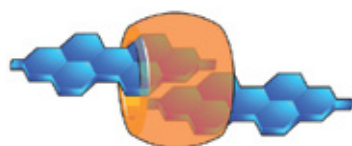


Asian Journal of
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DOI: 10.1002/ajoc.201402112

A Two-Photon Probe for Near-Membrane Zinc Ions

Kailash Rathore, Chang Su Lim, Young Lee, Hee Jung Park, Bong Rae Cho*

It takes two to probe: A two-photon probe for near-membrane zinc ions is reported. This probe is derived from a fluorene derivative that has a long-chain hydrocarbon tail and a zinc ion receptor. It predominantly stains the plasma membrane and emits strong two-photon excited fluorescence upon binding with zinc ions.

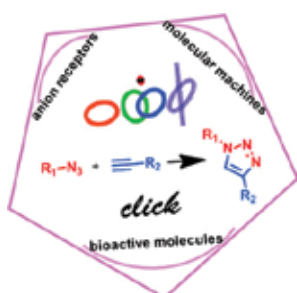


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Chameleonic Binding of the Dimethyldiazaperopyrenium Dication by Cucurbit[8]uril

Karel J. Hartlieb, Ashish N. Basuray, Chenfeng Ke, Amy A. Sarjeant, Henri-Pierre Jacquot de Rouville, Takashi Kikuchi, Ross S. Forgan, Josh W. Kurutz, J. Fraser Stoddart*

Two are better than one: The diazaperopyrenium dication acts as both a viologen-like electron-poor and an electron-rich guest, resulting in the formation of a 1:2 complex with cucurbit[8]uril. This chameleonic binding facilitates deaggregation of the dications from aqueous solutions, leading to an increase in the fluorescence quantum yield of the diazaperopyrenium dication.



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Application of “Click” Chemistry to the Construction of Supramolecular Functional Systems

Liang Xu, Yongjun Li*, Yuliang Li**

Click! The click reaction forms 1,4-disubstituted 1,2,3-triazoles regioselectively. By incorporating a CH hydrogen-bond donor these triazoles can be used as anion receptors, and with their atom arrangement and electronic properties similar to those of a peptide bond, they can be used in the synthesis of bioactive macrocycles. Because of the unique mode of cyclization and recognition sites, they can also be used in the construction of molecular machines.

