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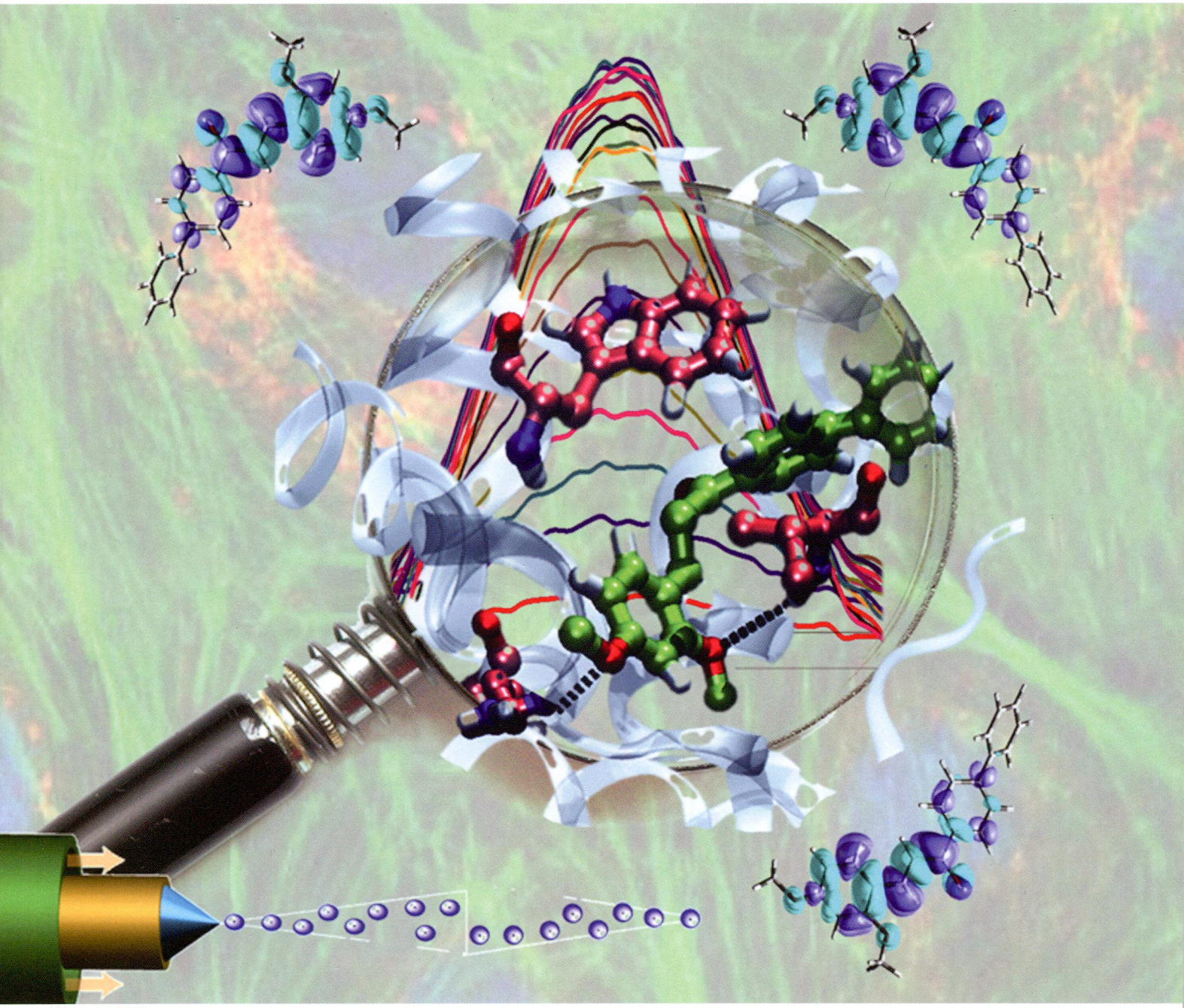

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PAPER

Wender A. Silva, Brenno A. D. Neto *et al.*

Probing deep into the interaction of a fluorescent chalcone derivative and bovine serum albumin (BSA): an experimental and computational study

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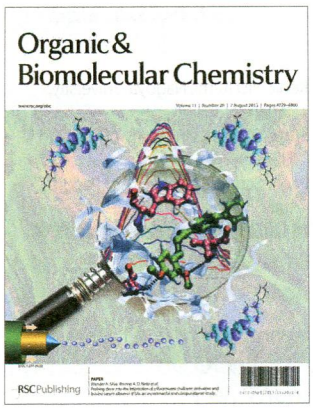

Cover
See Wender A. Silva, Brenno A. D. Neto *et al.*, pp. 4764–4777.

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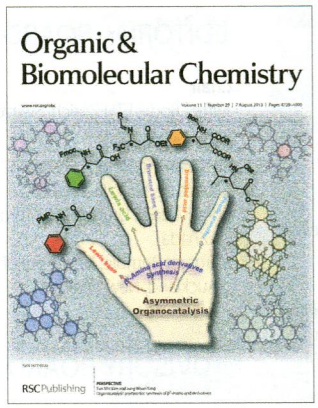

Inside cover
See Sun Min Kim and Jung Woon Yang *et al.*, pp. 4737–4749.

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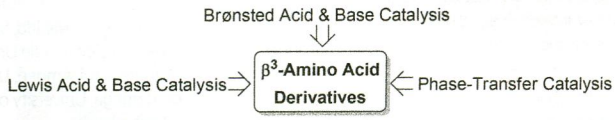
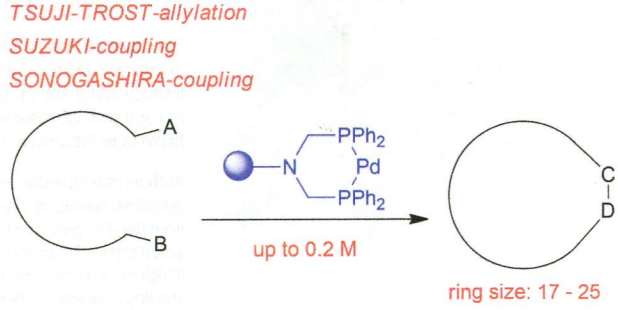
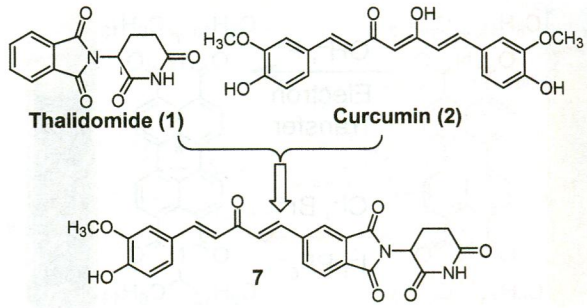
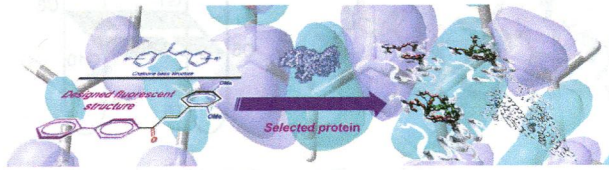
PERSPECTIVE

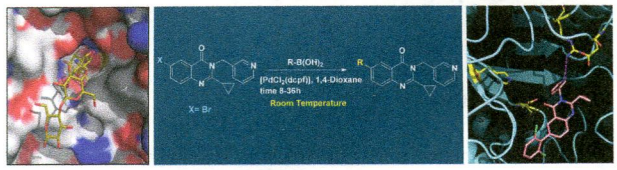


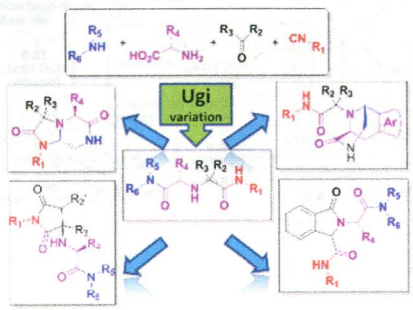
COMMUNICATIONS

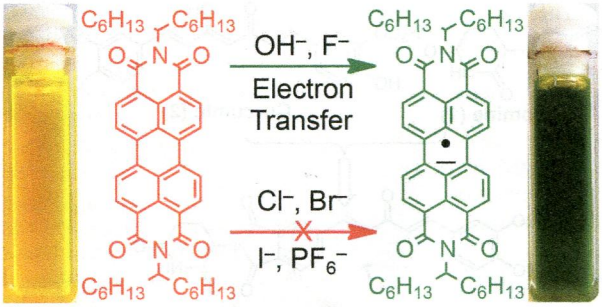








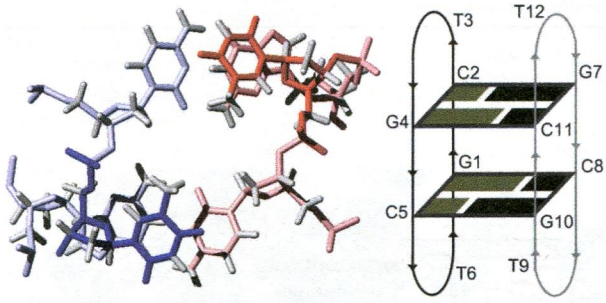




Tunable electronic interactions between anions and perylenediimide

Flynt S. Goodson, Dillip K. Panda, Shuvasree Ray, Atanu Mitra, Samit Guha and Sourav Saha*

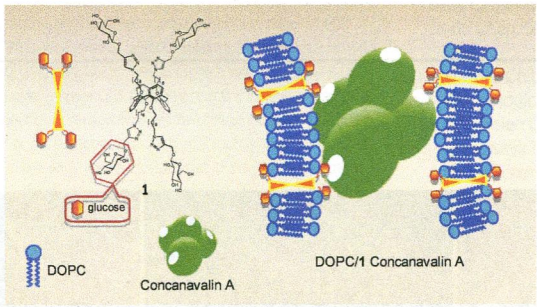
In aprotic solvents, electron deficient perylenediimide (**PDI-1**) is reduced to **PDI-1**$^{\bullet-}$ radical anions by strong Lewis basic hydroxide and fluoride anions, but remains silent to less basic chloride, bromide, iodide, and hexafluorophosphate ions.



The effect of loop residues in four-stranded dimeric structures stabilized by minor groove tetrads

Núria Escaja, Irene Gómez-Pinto, Júlia Viladoms, Enrique Pedroso* and Carlos González*

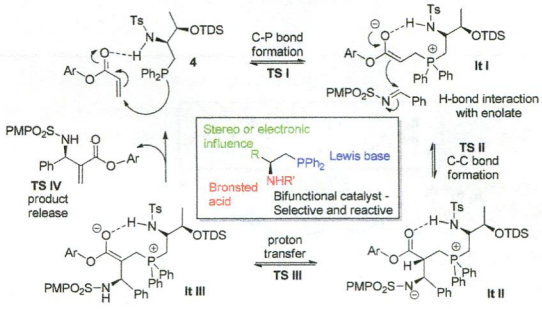
Two-residue loops are optimal for the formation of four-stranded dimeric structures stabilized by minor groove tetrads.



Incorporation of a calixarene-based glucose functionalised bolaamphiphile into lipid bilayers for multivalent lectin recognition

S. Aleandri, A. Casnati, L. Fantuzzi, G. Mancini,* G. Rispoli and F. Sansone*

The incorporation of a new glucosylated bolaamphiphile into DOPC liposomes rigidifies the lipophilic bilayer, thus reducing leakage from the internal aqueous phase, and allows a multivalent interaction with Concanavalin A.



The origin of enantioselectivity in the L-threonine-derived phosphine–sulfonamide catalyzed aza-Morita–Baylis–Hillman reaction: effects of the intramolecular hydrogen bonding

Richmond Lee, Fangrui Zhong, Bin Zheng, Yuezhong Meng, Yixin Lu* and Kuo-Wei Huang*

The intramolecular N–H···O H-bond was identified to be crucial in inducing a high degree of stereochemical control in both the enolate addition to imine and the subsequent proton transfer step.