

Tetrahedron Letters Vol. 54, Issue 19, 2013

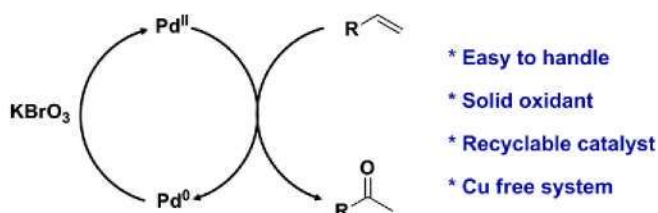
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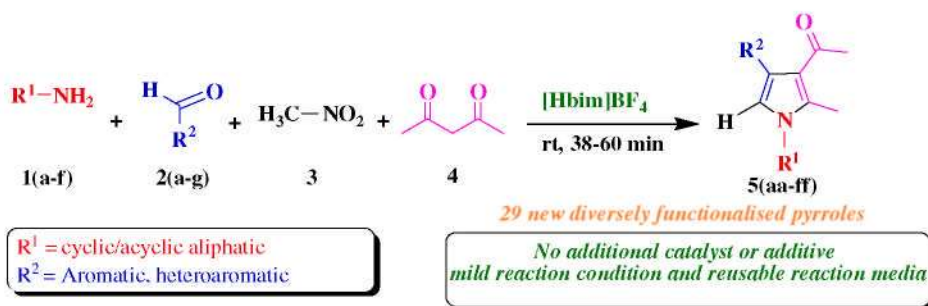
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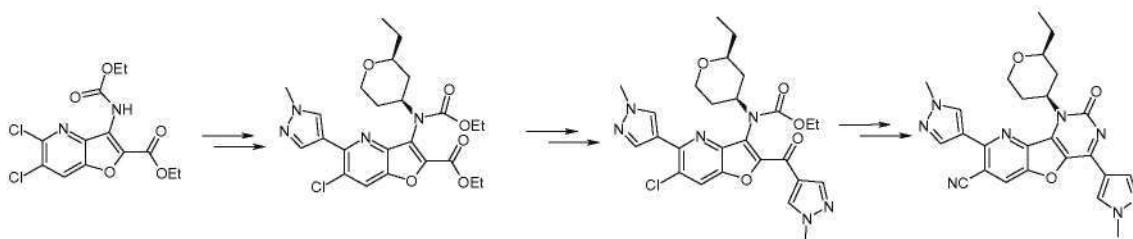
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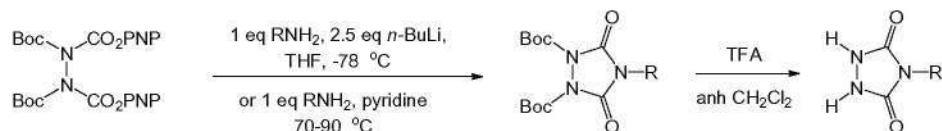
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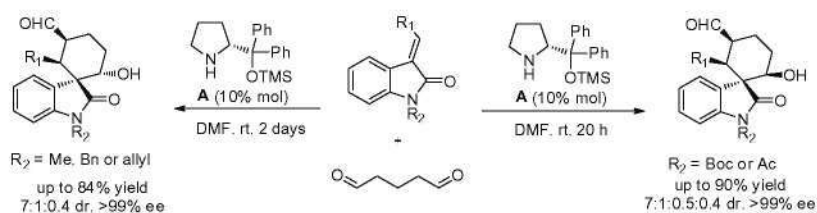
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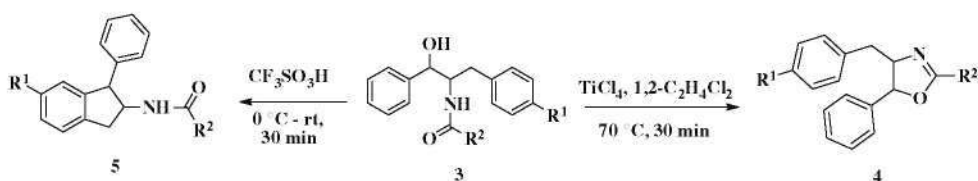
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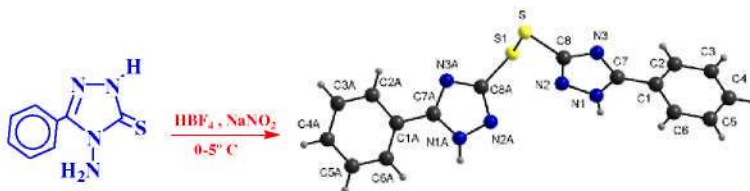
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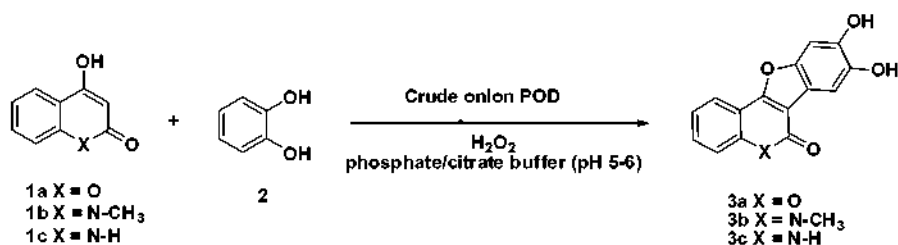
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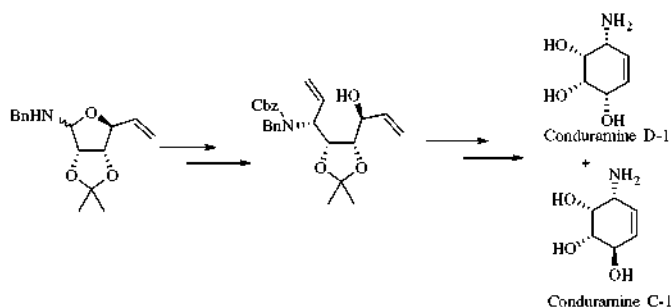
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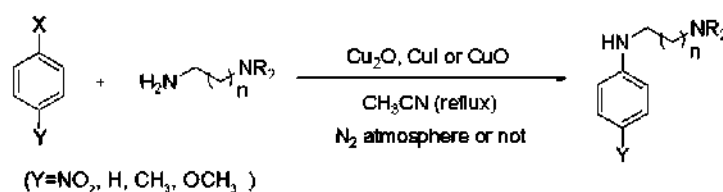
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**Copper-catalyzed C–N cross-coupling reactions for the preparation of aryl diamines applying mild conditions**

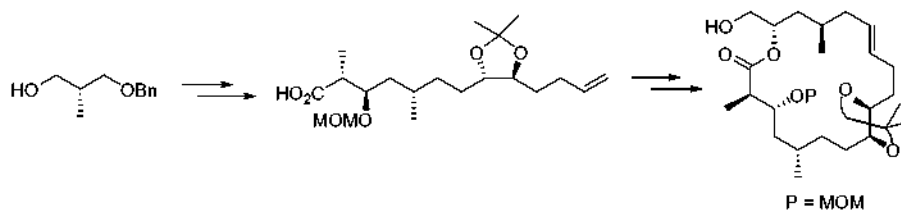
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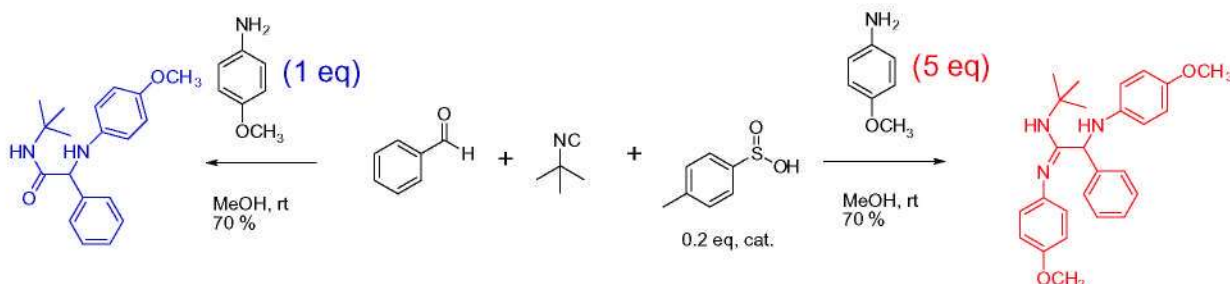
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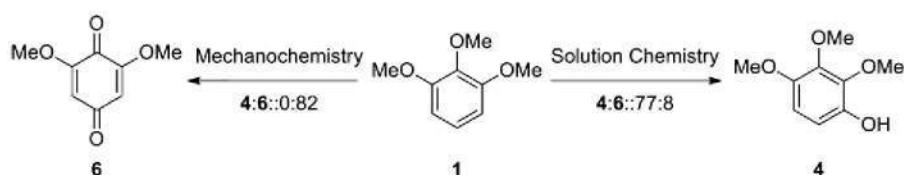
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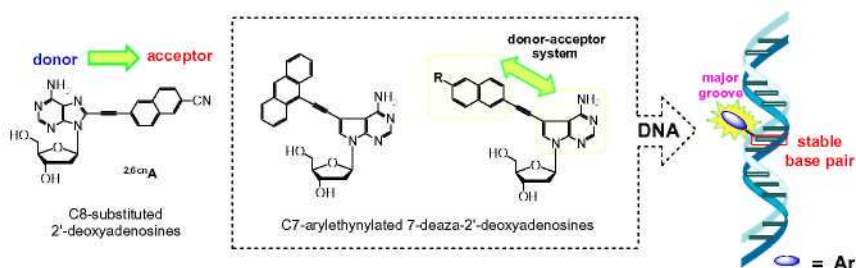
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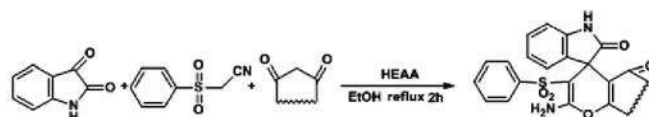
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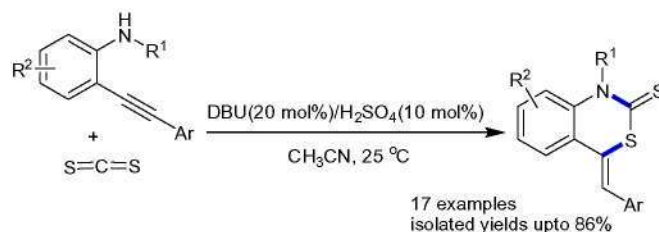
Shuai-Shuai Jin, Hong Wang, Hong-Yun Guo*



Protonated DBU as catalyst for cascade addition–cyclization of 2-alkynylaniline and carbon disulfide

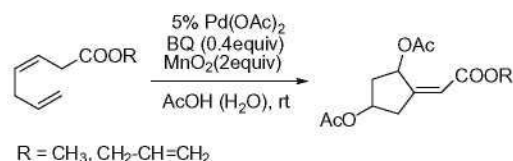
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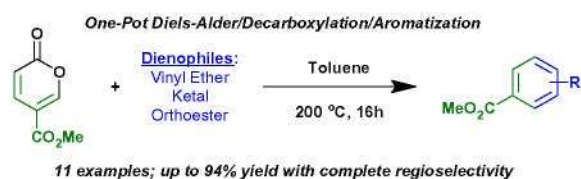
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**Divergent Diels–Alder methodology from methyl coumalate toward functionalized aromatics**

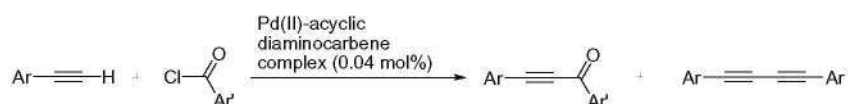
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Jennifer J. Lee, George A. Kraus*

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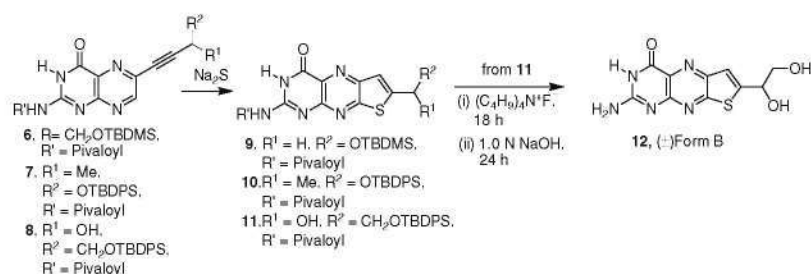
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A new route for total synthesis of (±) dephospho Form B of molybdenum cofactor by direct one step thiophene annulation from suitable pterin alkynes

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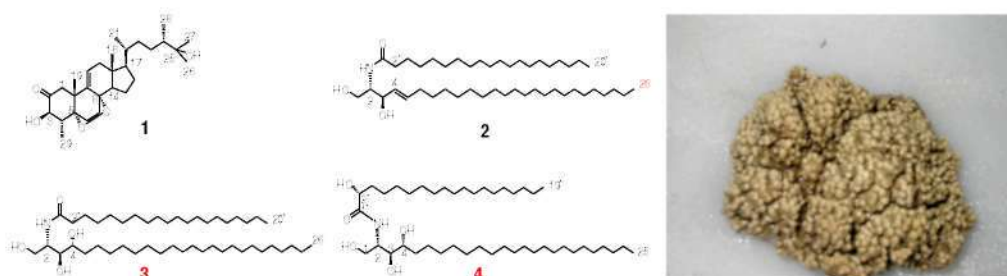
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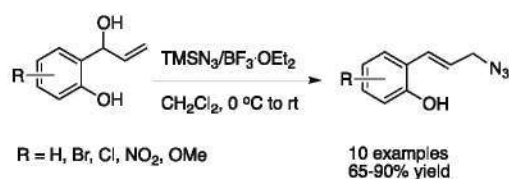
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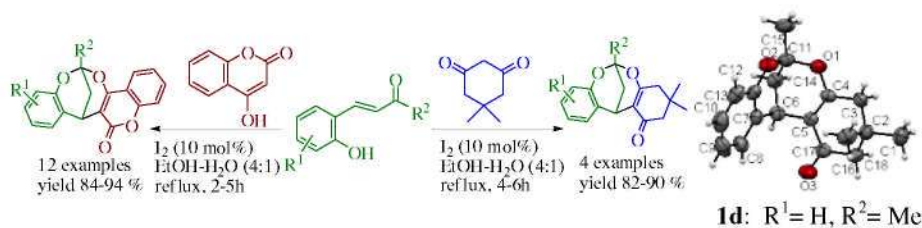
G. Srinu, P. Srihari*



A mild efficient iodine-catalyzed synthesis of novel anticoagulants with 2,8-dioxabicyclo[3.3.1]nonane core

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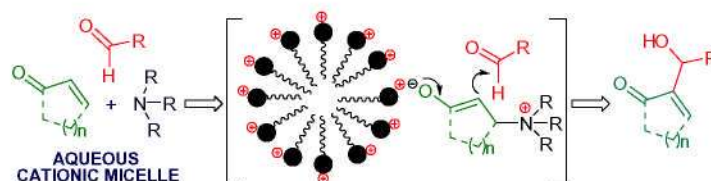
Nemai C. Ganguly*, Pallab Mondal, Sushmita Roy



Micellar promiscuity: an expeditious approach to Morita–Baylis–Hillman reaction

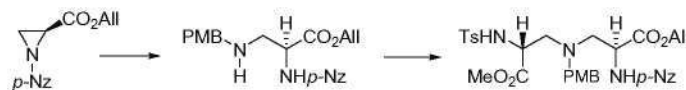
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Bashir Ahmad Shairgojray, Aijaz Ahmad Dar, Bilal Ahmad Bhat*

**Synthesis of orthogonally protected azalanthionines (lanazanines) by sequential ring-opening of N-substituted aziridine 2-carboxylates**

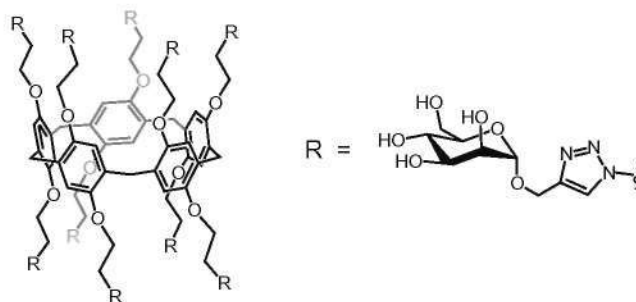
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Keith O'Brien, Keith ó Proinsias, Fintan Kelleher*

**A mannosylated pillar[5]arene derivative: chiral information transfer and antiadhesive properties against uropathogenic bacteria**

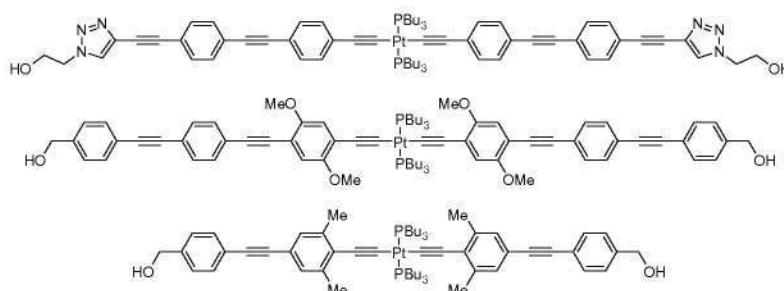
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Iwona Nierengarten, Kevin Buffet, Michel Holler, Stéphane P. Vincent*, Jean-François Nierengarten*

**Synthesis, optical power limiting, and DFT calculations of triplet–triplet absorption of three novel Pt(II)-diacetylide chromophores**

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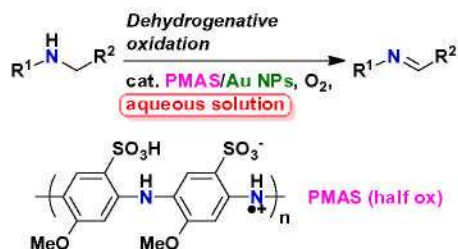
Tomas Kindahl*, Johan Öhgren, Cesar Lopes, Bertil Eliasson



Aerobic dehydrogenative imination in complete aqueous media catalyzed by poly(aniline sulfonic acid)/gold nanoparticles

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Toru Amaya, Tsubasa Ito, Toshikazu Hirao*

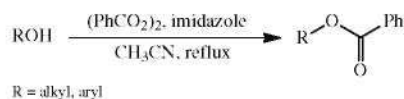


Dehydrogenative imination in aqueous media was achieved using poly(2-methoxyaniline-5-sulfonic acid) (PMAS)/gold nanoparticles, where PMAS worked as a redox mediator.

Benzoyl peroxide–imidazole: a novel and efficient reagent for the mild conversion of alcohols or phenols into benzoates

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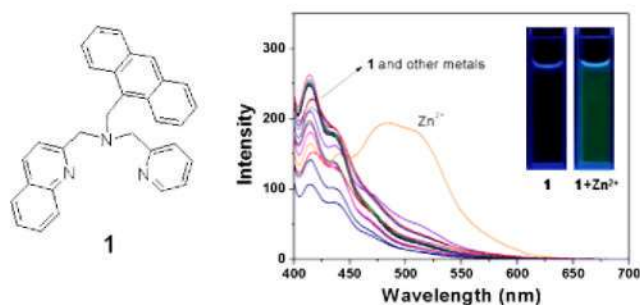
Najmeh Nowrouzi*, Seyedeh Zahra Alizadeh



An anthracene-based fluorescent chemosensor for Zn²⁺

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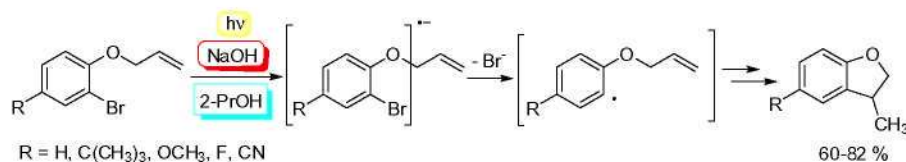
Jin Hoon Kim*, Jin Young Noh, In Hong Hwang, Juhye Kang, Jinheung Kim, Cheal Kim*



Electron transfer promoted photochemical reductive radical cyclization reactions of allyl 2-bromoaryl ethers

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Yasuharu Yoshimi*, Hirotomoto Kanai, Keisuke Nishikawa, Yasushi Ohta, Yoshiki Okita, Kousuke Maeda, Toshio Morita



Selective recognition of fluoride ions through fluorimetric and colorimetric response of a first mesitylene based dipodal sensor employing thiosemicarbazones

pp 2423–2427

Sanyog Sharma, Maninder Singh Hundal*, Geeta Hundal*



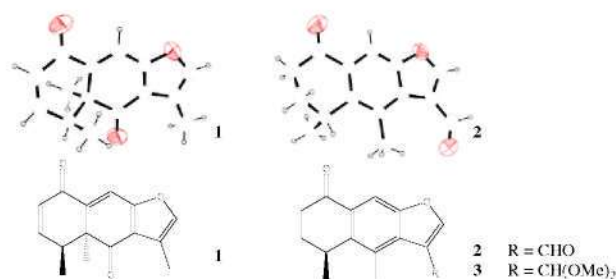
A new dipodal chromo-fluorogenic anion sensor (2*Z*,2'*Z*)-2,2'-((((2,4,6-trimethyl-1,3-phenylene)bis-(methyl-ene))bis-(oxy))bis(2,1-phenylene))bis(methanylylidene))-bis(*N*-methylhydrazinecarbothio-amide) has been synthesized and characterized for the detection of F⁻ ion in DMSO. The sensor has proven to be highly selective and sensitive on F⁻ ion, moreover it can act as naked eye chromogenic sensor. The mechanism involved in the detection of fluoride ion is the deprotonation of the –NH groups, which was confirmed by using TBAOH. The pre-organization of the dipodal receptor provides chelating H-bonds with the spherical F⁻ ion. These strong H-bonding interactions result in fast deprotonation of the sensor, producing an optical response. Employing only a weak fluorescence capability of the imine groups, sensor **1** behaves as a fluorogenic sensor by exhibiting fluorescence enhancement at λ_{ex} 438 nm upon addition of F⁻ ions.



Isolation and structure determination of furanoeremophilanes from *Vitex negundo*

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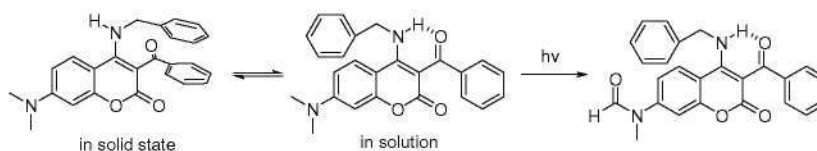
Neerja Tiwari, Akhilesh K. Yadav, Prema G. Vasudev, Madan M. Gupta*



Conformation and photochemical properties of 3-benzoyl-4-benzylamino-7-dimethylaminocoumarin

pp 2431–2434

Chi-Hui Lin, Rong-Ren Chuang, Pei-Yu Kuo, Ding-Yah Yang*



The conformation of the target compound in both solid state and solution has been determined. Upon UV irradiation, the 7-methylamino group can be oxidized by to the corresponding formamide in the absence of any external photosensitizers.



Synthesis and characterization of β-pyrrolic functionalized porphyrins as sensitizers for dye-sensitized solar cells

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Kanokkorn Sirithip, Somphob Morada, Supawadee Namuangruk, Tinnagon Keawin, Siriporn Jungsuttiwong, Taweesak Sudyoadsuk, Vinich Promarak*

