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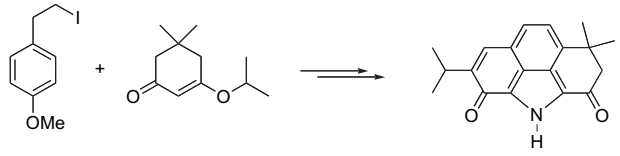
Matthew M. Cummings, Ronald W. Clawson, Jr., Sriganesh B. Sharma, Rachel A. Byerly, Novruz G. Akhmedov, Björn C.G. Söderberg*



Salviadione

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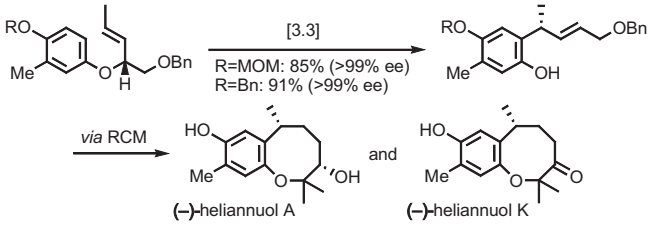

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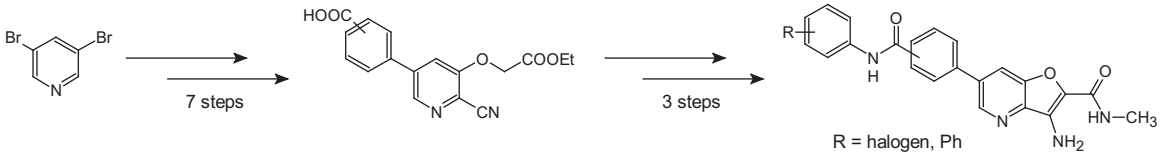

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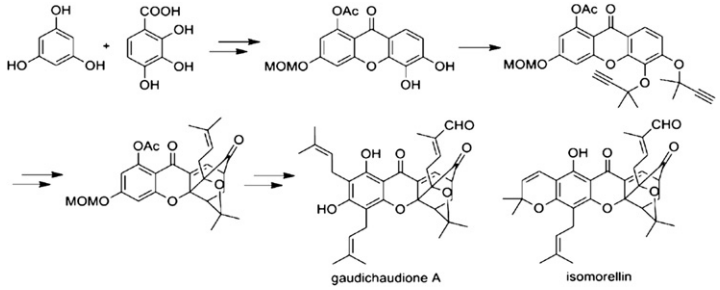
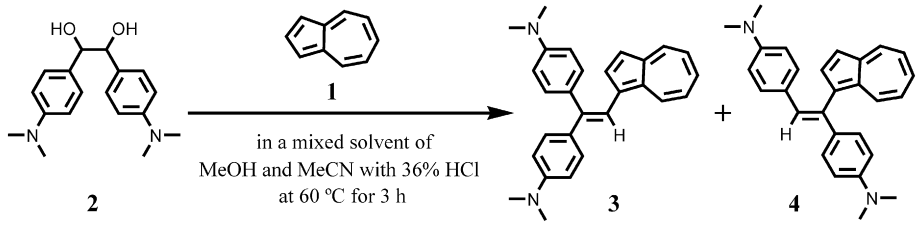


Reaction of azulene with 1,2-bis[4-(dimethylamino)phenyl]-1,2-ethanediol in a mixed solvent of methanol and acetonitrile in the presence of hydrochloric acid: a facile one-pot synthesis and properties of new triarylethylenes possessing an azulen-1-yl group **pp 4780–4792**
Shin-ichi Takekuma*, Masamichi Kaibara, Toshie Minematsu, Hideko Takekuma



The title reaction gives the two new triarylethylenes **3** and **4**, possessing an azulen-1-yl group, which upon addition reactions with **1** under the same reaction conditions as for the resulting products **3** and **4** afford the corresponding four new tetraarylethanes possessing the two azulen-1-yl groups. Along with the above reactions, another facile preparation of **3** and the related compounds, possessing interesting conjugated π-electron systems, is described.

A DDQ-promoted metal-free cross-coupling of 1,3-diarylpropynes with hydroxyl via Sp^3 C–H bond activation to form C–O bond **pp 4793–4799**
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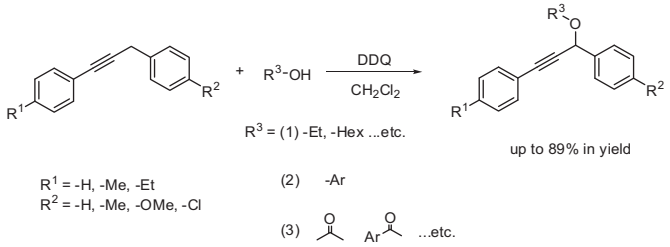

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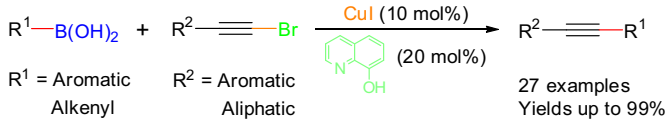

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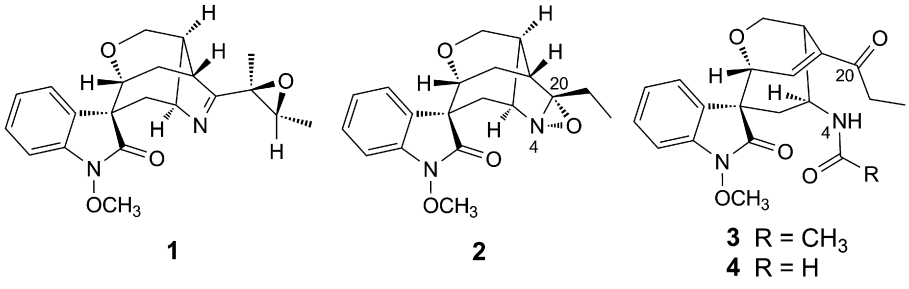

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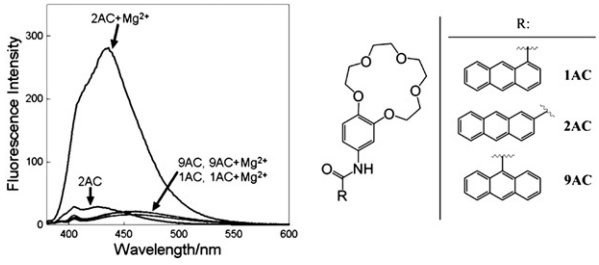

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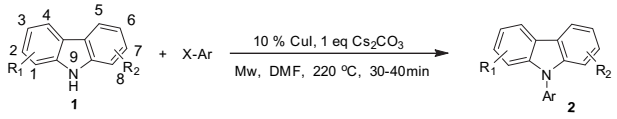
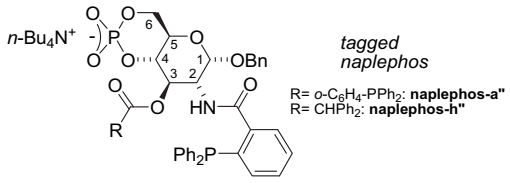
Jae Kwan Kwon, Joong Hyun Cho, Young-Sil Ryu, Se Hwan Oh, Eul Kgun Yum*



R_1, R_2 = H, Ph, Br
Ar = pyridine, thiophene, thiazole, etc..

New tagged *naplephos* ligands for asymmetric allylic substitutions under traditional and unconventional conditions **pp 4826–4831**
Vincenzo Benessere, Matteo Lega, Alba Silipo, Francesco Ruffo*



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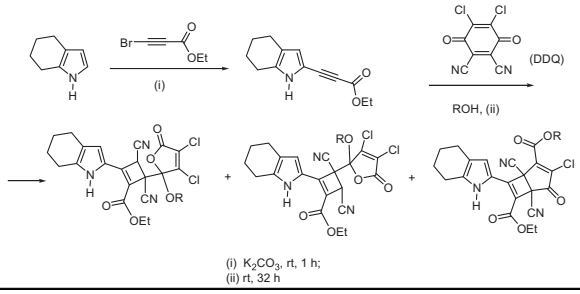

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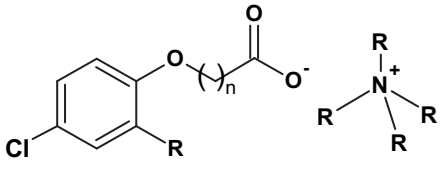

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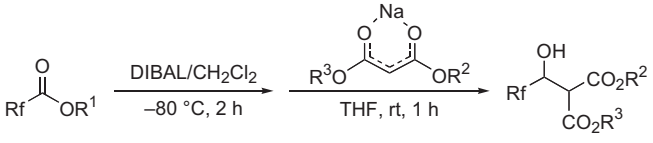
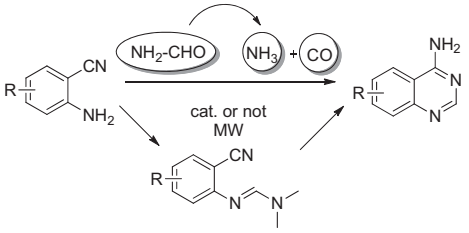
Sumika Aoki, Tomoko Kawasaki-Takasuka, Takashi Yamazaki*

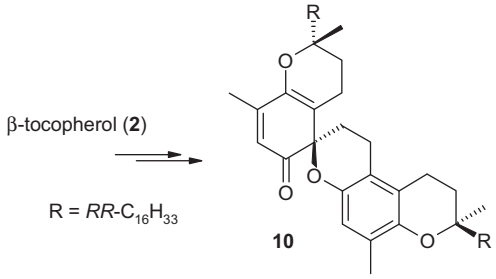


Microwave-assisted thermal decomposition of formamide: a tool for coupling a pyrimidine ring with an aromatic partner pp 4852–4857
Yvonnick Loidreau, Thierry Besson*



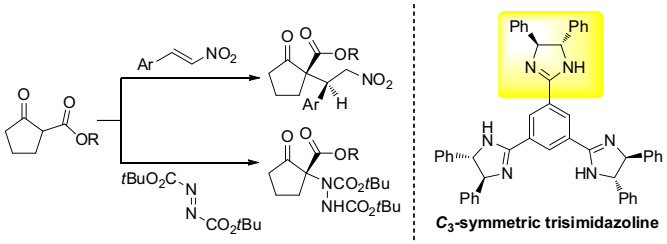
Rapid and efficient generation of CO and NH_3 in the reaction mixture via microwave-assisted thermal decomposition of formamide is investigated for coupling a pyrimidine ring with an aromatic partner.

On the dimers of β-tocopherol pp 4858–4861
Stefan Böhmdorfer, Anjan Patel, Thomas Netscher, Lars Gille, Thomas Rosenau*

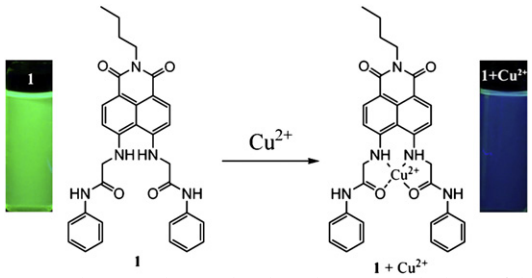


Upon oxidation, β-tocopherol forms a spiro-dimer as the main product, which can be reduced to the corresponding ethano-dimer. In contrast to the α-tocopherol case, the interconversion between the two dimers is not quantitative, but accompanied by coupling reactions at C-7. The bond fluctuation of the β-tocopherol spiro-dimer is slightly slower than that of the α-counterpart.

C_3-Symmetric chiral trisimidazoline: the role of a third imidazoline and its application to the nitro Michael reaction and the α-amination of β-ketoesters pp 4862–4868
Kenichi Murai, Shunsuke Fukushima, Akira Nakamura, Masato Shimura, Hiromichi Fujioka*

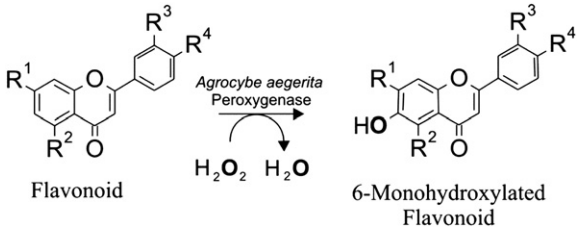


A ratiometric and exclusively selective Cu^{II} fluorescent probe based on internal charge transfer (ICT) pp 4869–4873
Xiufu Chen, Jingyun Wang, Jingnan Cui*, Zhaochao Xu, Xiaojun Peng*

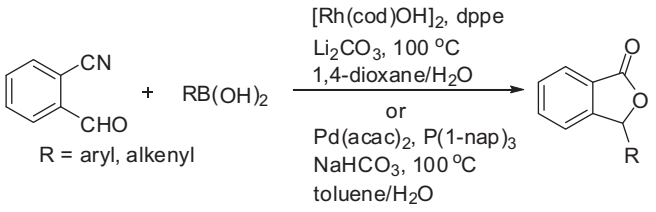


A new ratiometric and exclusively selective fluorescent probe **1** was designed and synthesized on the basis of the mechanism of internal charge transfer (ICT). The probe **1** showed the Cu^{II}-only sensing with selectivity in the presence of a variety of other metal ions. Fluorescent emission spectra of probe **1** in the presence of Cu^{II} showed a 50 nm blue shift, which is from 521 nm to 471 nm. Furthermore, probe **1** shows the same fluorescent change with the Cu^{II} in living cells.

Regioselective hydroxylation of diverse flavonoids by an aromatic peroxygenase **pp 4874–4878**
Kateřina Barková, Matthias Kinne*, René Ullrich, Lothar Hennig, Annett Fuchs, Martin Hofrichter



Rhodium or palladium-catalyzed cascade aryl addition/intramolecular lactonization of phthalaldehydonitrile to access 3-aryl and 3-alkenyl phthalides **pp 4879–4886**
Guanglei Lv, Genping Huang, Guangyou Zhang, Changduo Pan, Fan Chen*, Jiang Cheng*



A facile approach to polysubstituted pyrazoles from hydrazonyl chlorides and vinyl azides **pp 4887–4891**
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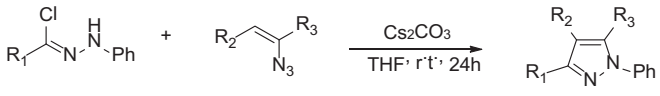

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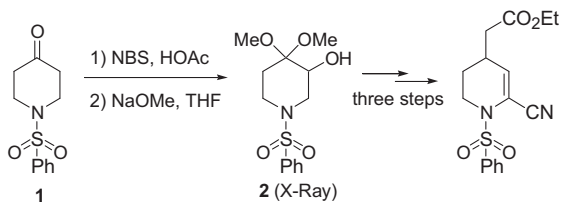
Meng-Yang Chang*, Tein-Wei Lee, Chung-Han Lin



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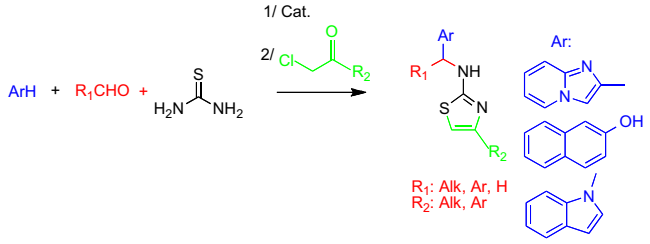
Guihlem Chaubet, Ludovic T. Maillard*, Jean Martinez, Nicolas Masurier



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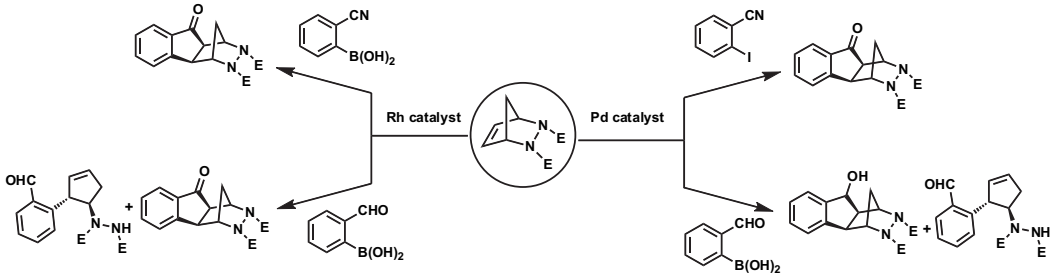
Nayana Joseph, Jubi John, Rani Rajan, Sreeja Thulasi, Anupa Mohan, E. Suresh, K.V. Radhakrishnan*



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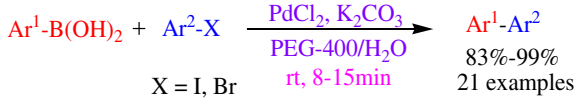
Zhengyin Du*, Wanwei Zhou, Fen Wang, Jin-Xian Wang



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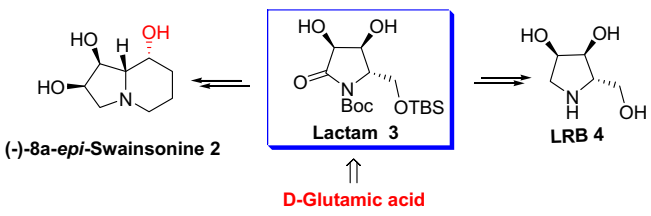

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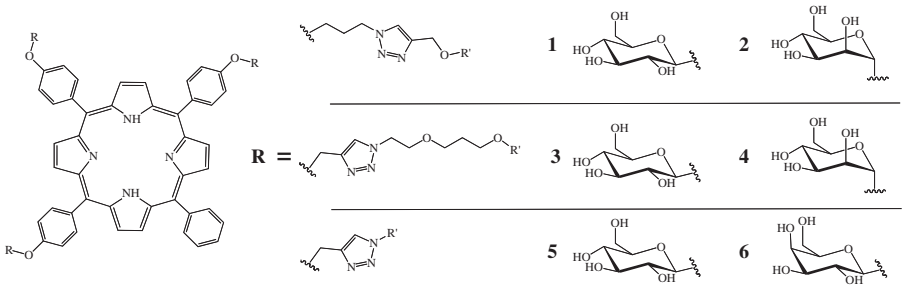

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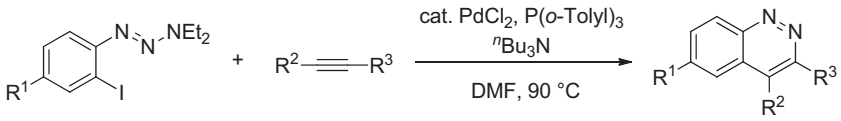

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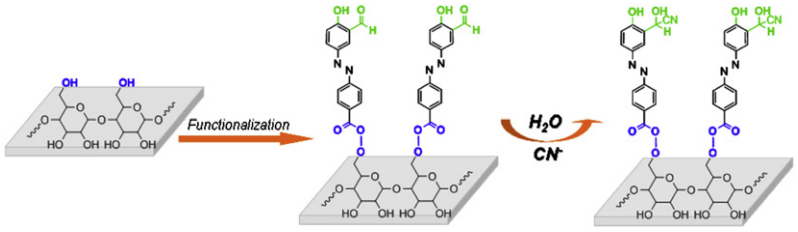
Jalal Isaad*, Ahmida El Achari



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