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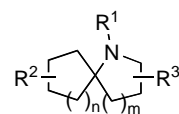
REPORT

Recent approaches to the construction of 1-azaspiro[4.5]decanes and related 1-azaspirocycles

pp 3467–3492

Gregory Dake

A variety of recently disclosed synthetic methods used to construct 1-azaspirocycles are presented.

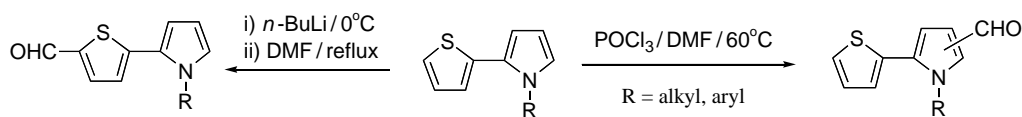


ARTICLES

Synthesis of formyl-thienylpyrroles: versatile building blocks for NLO materials

pp 3493–3501

M. Manuela M. Raposo,* Ana M. R. C. Sousa, A. Maurício C. Fonseca and G. Kirsch

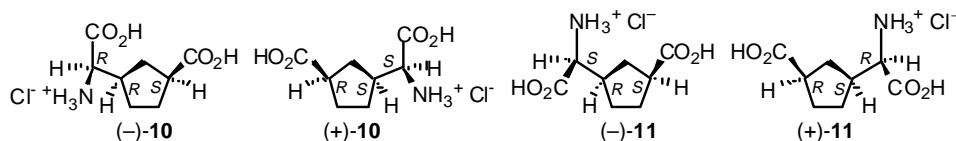


Chemoenzymatic resolution of epimeric *cis* 3-carboxycyclopentylglycine derivatives

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Chiara Cabrele, Francesca Clerici, Raffaella Gandolfi, Maria Luisa Gelmi,*

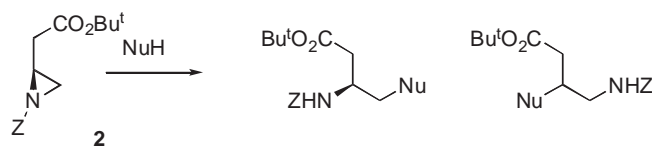
Francesco Molinari and Sara Pellegrino



Aziridines derived from amino acids as synthons in pseudopeptide synthesis

pp 3509–3516

Laidong Song, Vincent Servajean and Josiane Thierry*

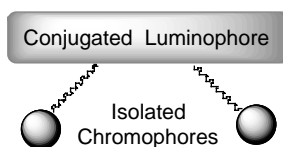


Nu: PhCH₂NH, CH₂=CHCH₂NH, PhCH₂ONH, PhCH₂OCONHNH, *p*-MeO-PhCH₂NH, Gly-OBu^t, Lys(Boc)-OMe, PhCH₂O, AcO, CH₃CH(CO₂CH₃)O, PhCH₂S

Star-like fluorene based polyamines: non-conjugated building blocks for light-harvesting materials

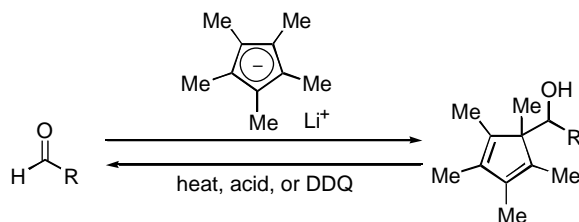
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K. R. Justin Thomas, Jiann T. Lin,* Chien-Min Tsai and Hong-Cheu Lin*

**Pentamethylcyclopentadienide in organic synthesis: nucleophilic addition of lithium pentamethylcyclopentadienide to carbonyl compounds and carbon–carbon bond cleavage of the adducts yielding the parent carbonyl compounds**

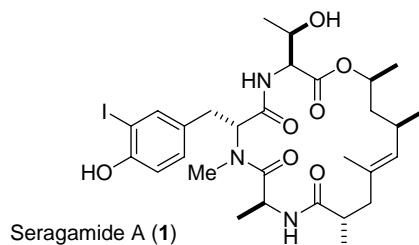
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Minoru Uemura, Kazunari Yagi, Masayuki Iwasaki, Kenichi Nomura, Hideki Yorimitsu* and Koichiro Oshima*

**Seragamides A–F, new actin-targeting depsipeptides from the sponge *Suberites japonicus* Thiele**

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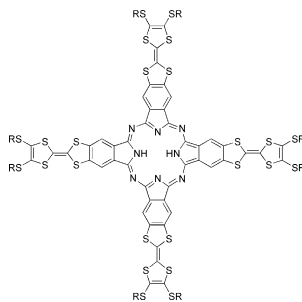
Chiaki Tanaka, Junichi Tanaka,* Robert F. Bolland, Gerard Marriott and Tatsuo Higa



Synthesis of tetrathiafulvalene-annulated phthalocyanines

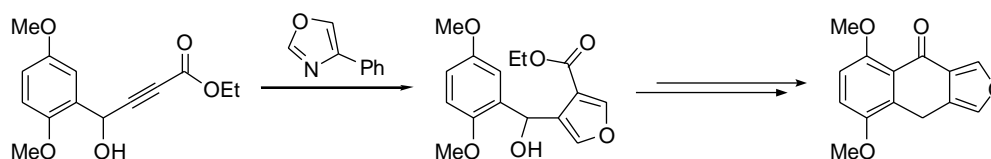
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Chantal A. Donders, Shi-Xia Liu,* Claudia Loosli, Lionel Sanguinet, Antonia Neels and Silvio Decurtins

**Synthesis of 5,8-dimethoxynaphtho[2,3-*c*]furan-4(9*H*)-one**

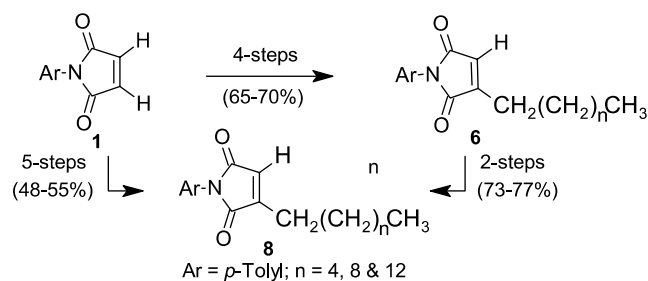
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Matthew J. Piggott* and Dieter Wege

**Haval–Argade contrathermodynamic rearrangement of alkylidenesuccinimides to alkylmaleimides via the corresponding isoimides: a general approach to alkyl and dialkyl substituted maleimides**

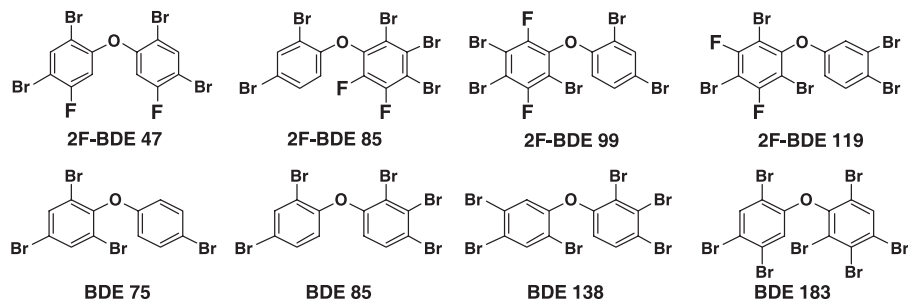
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Kishan P. Haval and Narshinha P. Argade*

**Polybrominated diphenyl ethers (BDEs); preparation of reference standards and fluorinated internal analytical standards**

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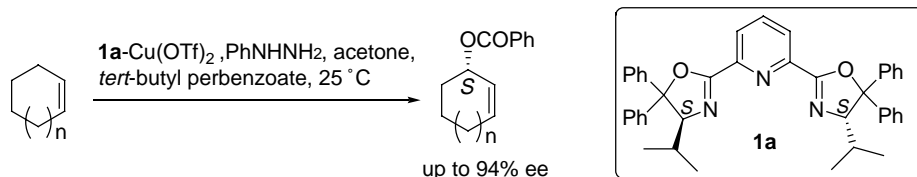
Huiling Liu, Monica Bernhardsen and Anne Fiksdahl*



Enantioselective oxidation of olefins catalyzed by chiral copper bis(oxazolanyl)pyridine complexes: a reassessment

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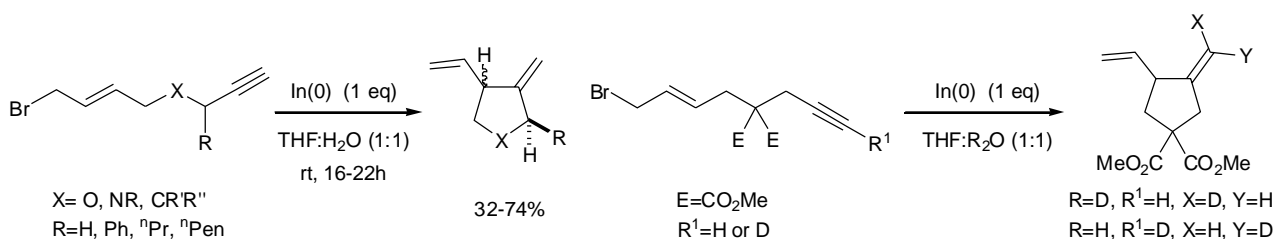
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New indium-mediated cyclisation reactions of tethered haloenynes in aqueous solvent systems

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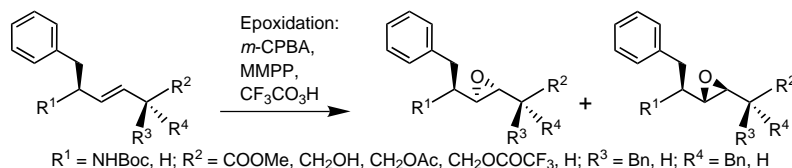
Andres Goeta, Matthew M. Salter* and Hummad Shah



Peracid dependent stereoselectivity and functional group contribution to the stereocontrol of epoxidation of (*E*)-alkene dipeptide isosteres

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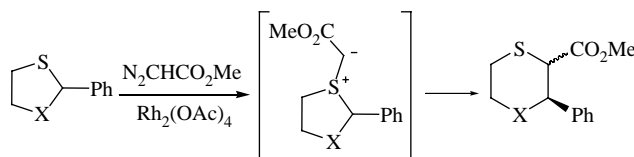
Daniel Wiktelius, Wei Berts, Annika Jenmalm Jensen, Joachim Gullbo, Stina Saitton, Ingeborg Csöregyh and Kristina Luthman*



The methoxycarbonylcarbene insertion into 1,3-dithiolane and 1,3-oxathiolane rings

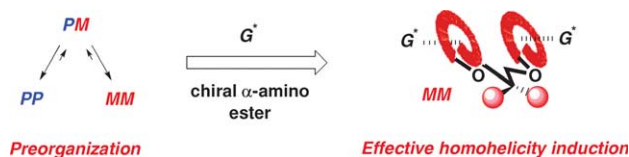
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Alexander V. Stepakov, Alexander P. Molchanov, Jörg Magull, Denis Vidović, Galina L. Starova, Jürgen Kopf and Rafael R. Kostikov*



Homohelicity induction of propylene-linked zinc bilinone dimers by complexation with chiral amine and α -amino esters. Preorganization of structurally coupled homohelical subunits

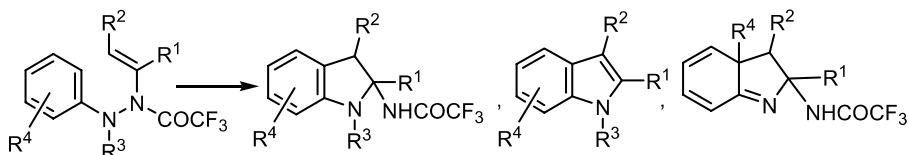
Katsushi Hamakubo, Shigeyuki Yagi,* Hiroyuki Nakazumi, Tadashi Mizutani and Susumu Kitagawa



Efficient synthesis of indoles using [3,3]-sigmatropic rearrangement of *N*-trifluoroacetyl enehydrazines

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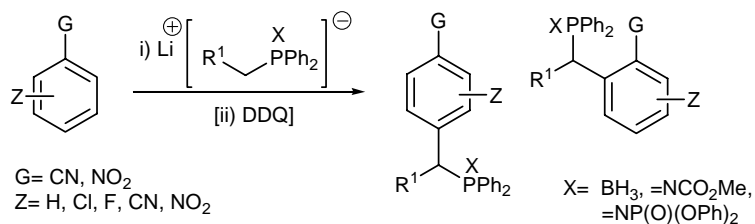
Okiko Miyata, Norihiko Takeda, Yasuo Kimura, Yoshiji Takemoto, Norimitsu Tohnai, Mikiji Miyata and Takeaki Naito*



Regioselective functionalisation of nitrobenzene and benzonitrile derivatives via nucleophilic aromatic substitution of hydrogen by phosphorus-stabilized carbanions

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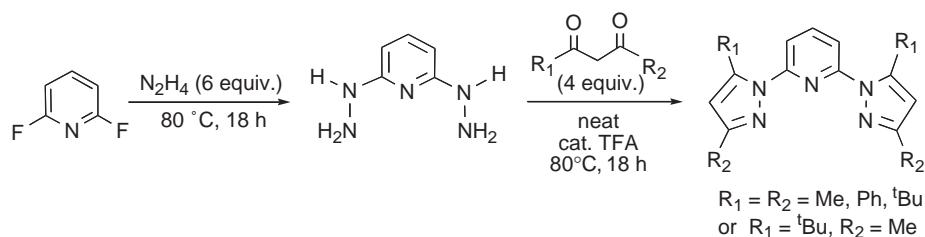
Carmen M. Andújar Sánchez, M^a José Iglesias, Jesús García Lopez, Isidro J. Pérez Álvarez and Fernando López Ortiz*



Synthesis and characterization of 2,6-bis-hydrazinopyridine, and its conversion to 2,6-bis-pyrazolylpyridines

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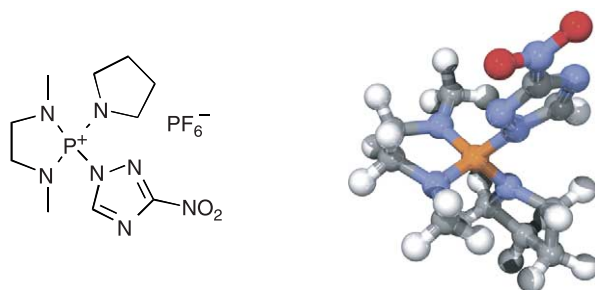
Kimberly A. Brien, Charles M. Garner* and Kevin G. Pinney



1,3-Dimethyl-2-(3-nitro-1,2,4-triazol-1-yl)-2-pyrrolidin-1-yl-1,3,2-diazaphospholidinium hexafluorophosphate (MNTP): a powerful condensing reagent for phosphate and phosphonate esters

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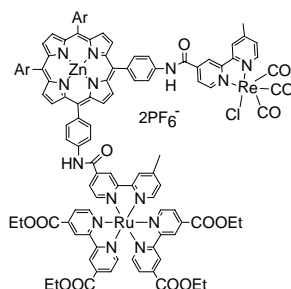
Natsuhisa Oka, Mamoru Shimizu, Kazuhiko Saigo and Takeshi Wada*



A novel ruthenium(II) tris(bipyridine)–zinc porphyrin–rhenium carbonyl triad: synthesis and optical properties

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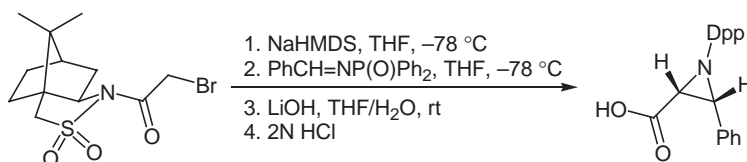
Xien Liu, Jianhui Liu,* Jingxi Pan, Ruikui Chen, Yong Na, Weiming Gao and Licheng Sun*



Asymmetric aziridine synthesis by aza-Darzens reaction of *N*-diphenylphosphinylimines with chiral enolates. Part 1: Formation of *cis*-aziridines

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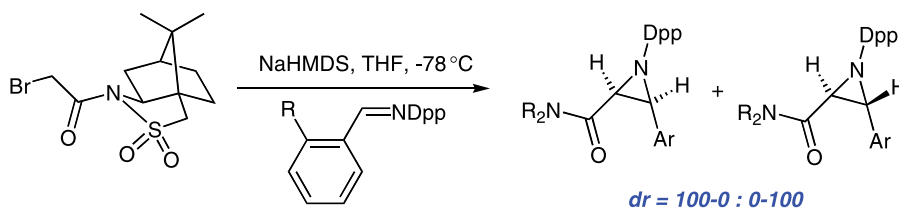
J. B. Sweeney,* Alex A. Cantrill, Andrew B. McLaren and Smita Thobhani



Asymmetric aziridine synthesis by aza-Darzens reaction of *N*-diphenylphosphinylimines with chiral enolates. Part 2: Inversion of diastereoselectivity

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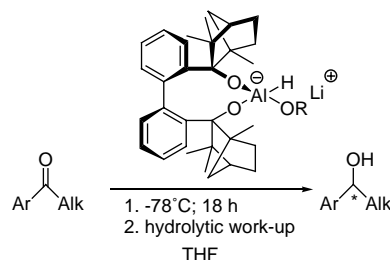
J. B. Sweeney,* Alex A. Cantrill, Michael G. B. Drew, Andrew B. McLaren and Smita Thobhani



New chiral lithium aluminum hydrides based on biphenyl-2,2'-bisfenchol (BIFOL): structural analyses and enantioselective reductions of aryl alkyl ketones

pp 3704–3709

D. A. Lange, J.-M. Neudörfel and B. Goldfuss*

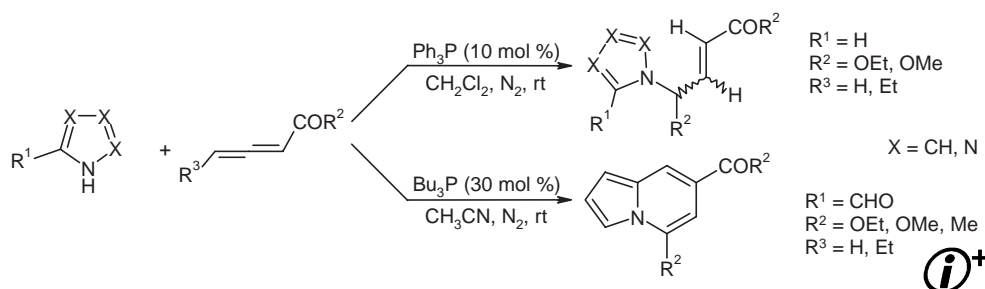


Phosphines catalyzed nucleophilic addition of azoles to allenes: synthesis of allylazoles and indolizines

pp 3710–3720

David Virieux,* Anne-Françoise Guillouzie and Henri-Jean Cristau

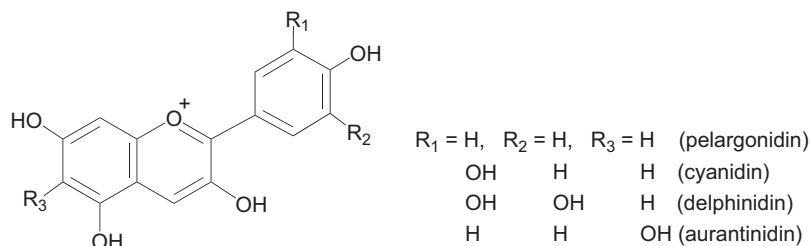
Efficient method for functional allylation of azoles has been developed using phosphine-catalyzed reactions with electron-deficient allenes. This metal free catalytic methodology has been extended to addition–cyclization reactions for the preparation of substituted indolizines.



Ab initio study of molecular structures and excited states in anthocyanidins

pp 3721–3731

Ken Sakata,* Norio Saito and Toshio Honda

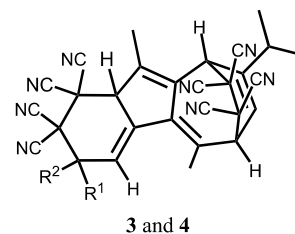


Reactions of (*E*)-1,2-di(3-guaiazulenyl)ethylene and 2-(3-guaiazulenyl)-1,1-bis(4-methoxyphenyl)ethylene with tetracyanoethylene (TCNE) in benzene: comparative studies on the products and their spectroscopic properties

pp 3732–3738

Shin-ichi Takekuma,* Masanori Hirosawa, Seiko Morishita, Masato Sasaki, Toshie Minematsu and Hideko Takekuma

Reactions of the title ethylene derivatives **1** and **2** with TCNE in benzene at 25°C for 24 h under argon give new cycloaddition compounds **3** (from **1**) and **4** (from **2**), respectively, in 66 and 87% isolated yields. Comparative studies on the above reactions as well as the spectroscopic properties of the unique products **3** and **4**, possessing interesting molecular structures, are reported.



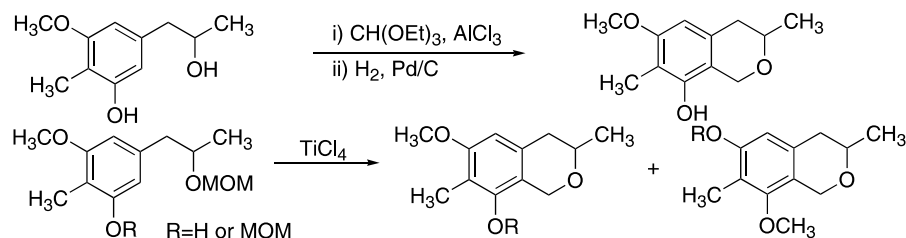
3 : $\text{R}^1 = 3\text{-guaiazulenyl}$, $\text{R}^2 = \text{H}$

4 : $\text{R}^1 = \text{R}^2 = p\text{-CH}_3\text{OC}_6\text{H}_4\text{-}$

Synthesis and structure of 8-hydroxy-6-methoxy-3,7-dimethylisochromane and its analogues

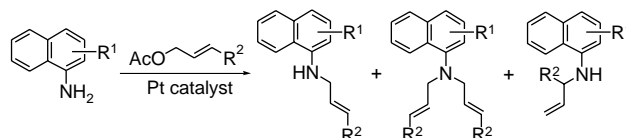
pp 3739–3751

Tsuneo Suzuki,* Kiyoshi Tanemura, Takaaki Horaguchi and Kimiyoshi Kaneko

**Platinum-catalyzed allylation of aminonaphthalenes with allylic acetates**

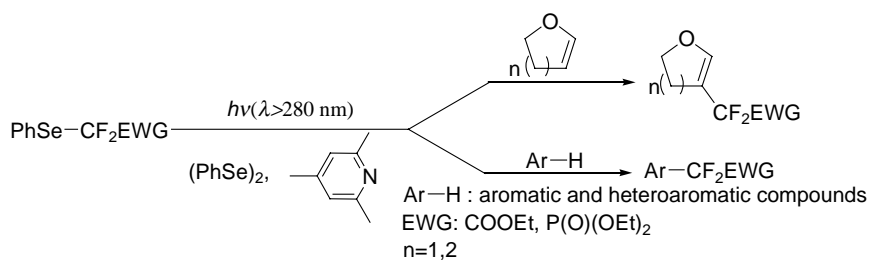
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Shyh-Chyun Yang,* Wei-Hao Feng and Kim-Hong Gan


**Photochemical substitution of olefins and aromatic compounds with difluoromethyl radicals bearing ester and phosphonate groups**

pp 3761–3769

Satoru Murakami, Hideki Ishii, Toshiki Tajima and Toshio Fuchigami*



*Corresponding author

 Supplementary data available via ScienceDirect



Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

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