

JOURNAL OF THE CHEMICAL SOCIETY

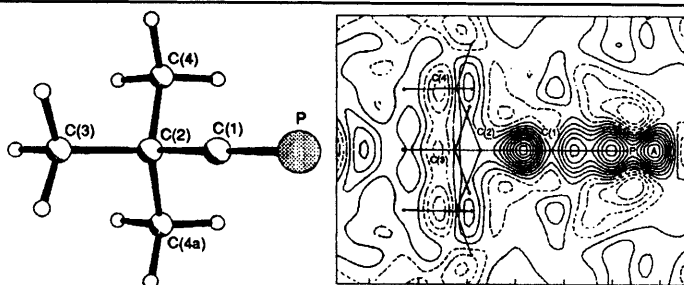
# Chemical Communications

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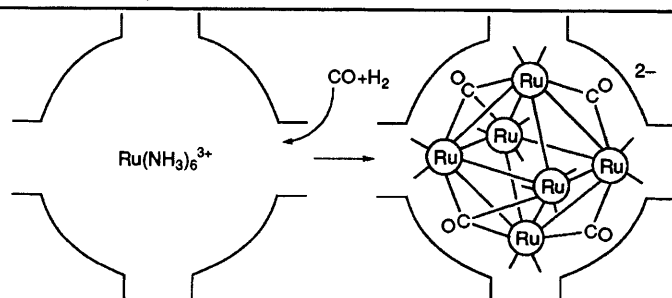
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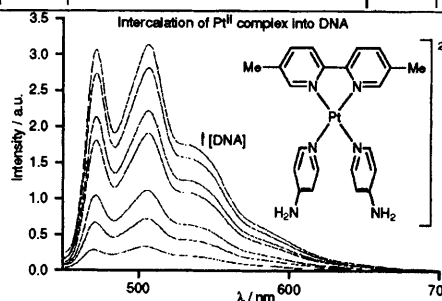
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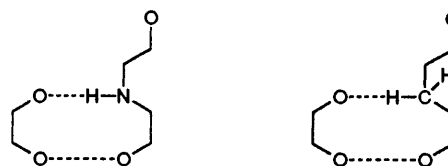


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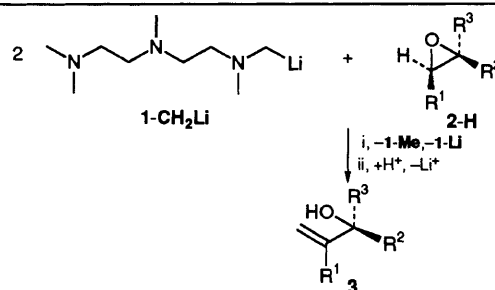
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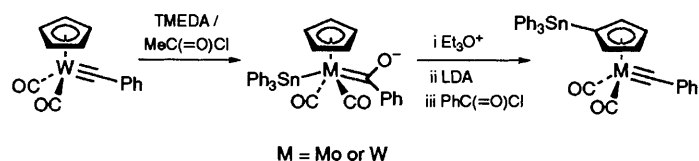
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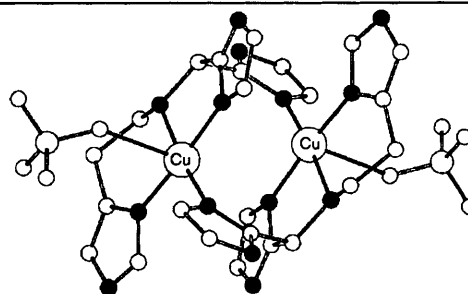
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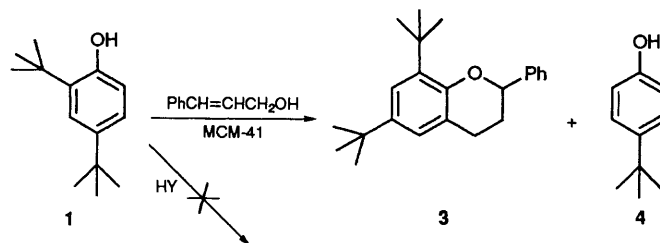
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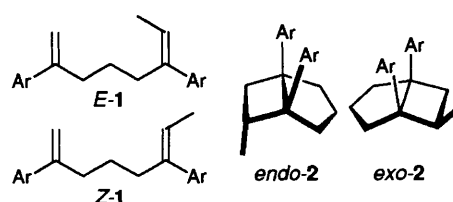
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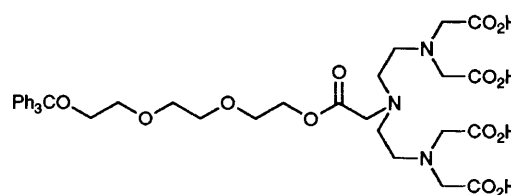
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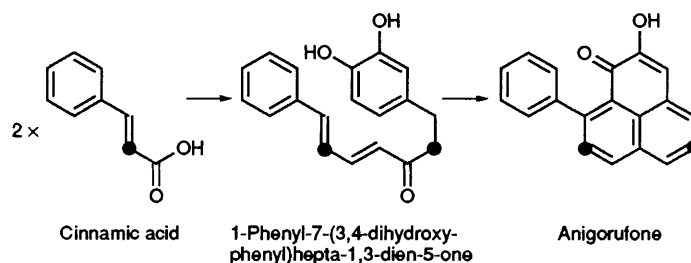
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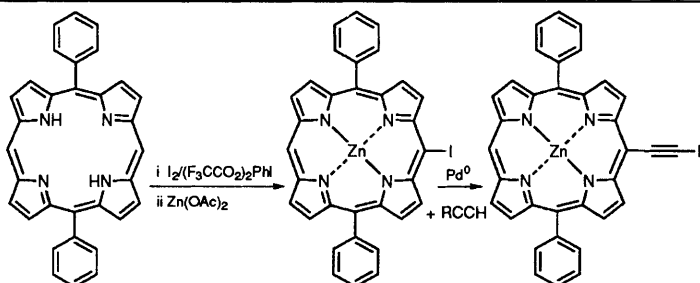
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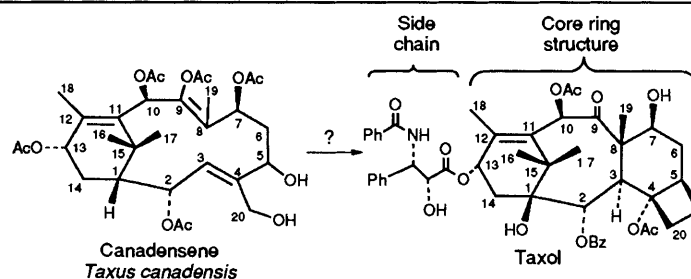
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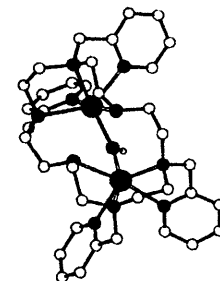
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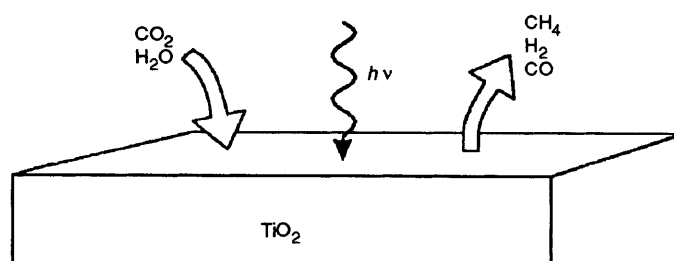
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A binuclear  $\mu$ -hydroxo manganese(II/III) core complexed by a macrocyclic ligand catalyses the *tert*-butyl hydroperoxide mediated hydroxylation of cyclohexane into cyclohexanol and cyclohexanone.



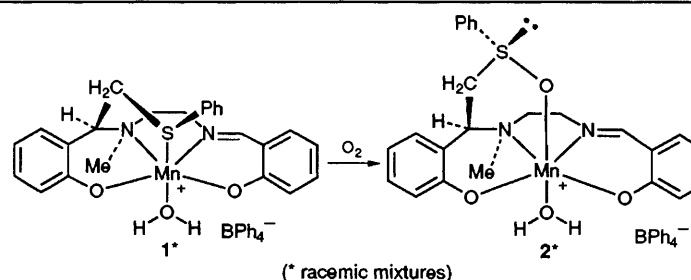
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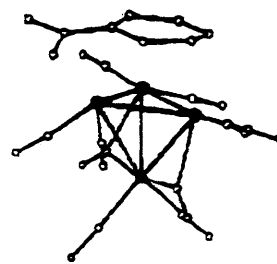
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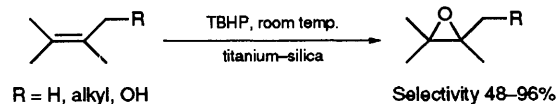


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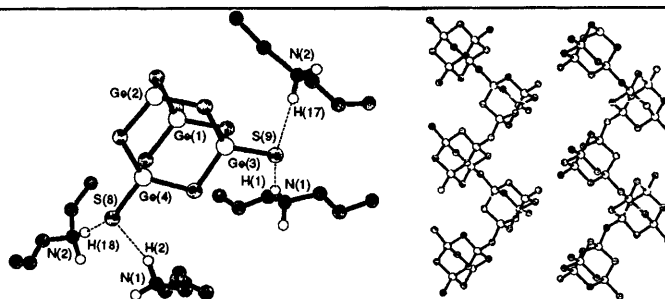


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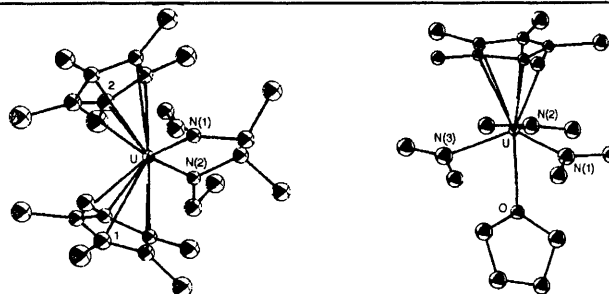
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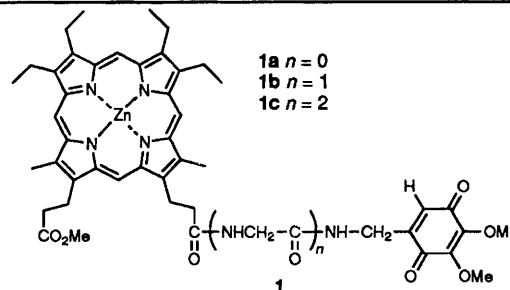
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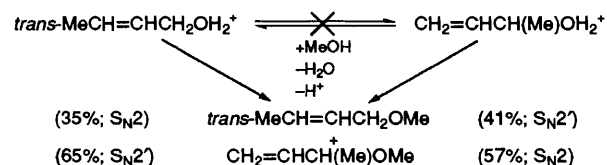
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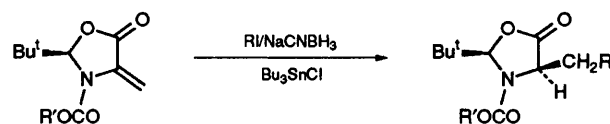
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Emanuela Dezi, Antonietta Lombardozi, Adriano Pizzabiocca, Gabriele Renzi, Maurizio Speranza



Gas phase nucleophilic attack of MeOH on O-protonated but-2-en-3-ol and *trans*-but-2-en-1-ol proceeds via the concerted  $S_N2'$  mechanism in competition with the classical  $S_N2$  one.

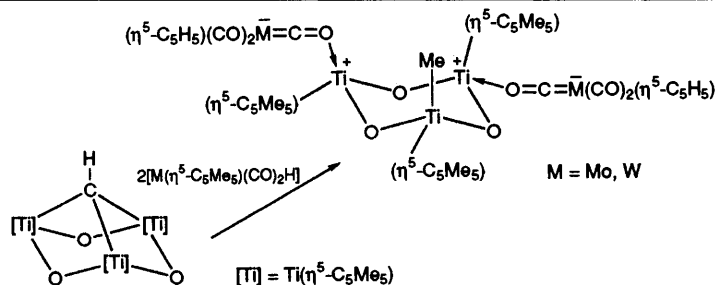
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- 551 **Organotitanium Oxides as Lewis Acidic Supports of Metal Carbonyl Species: [ $\text{Ti}_3(\eta^5\text{-C}_5\text{Me}_5)_3(\mu\text{-O})_3\text{Me}$ ]  $\{(\mu\text{-OC})\text{M}(\text{CO})_2(\eta^5\text{-C}_5\text{H}_5)_2\}$  ( $\text{M} = \text{Mo}, \text{W}$ )**



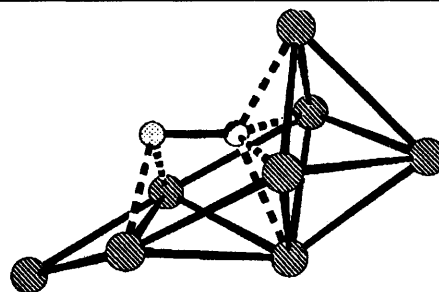
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- 553 **Aryloxy Ligand Dependent Reactivity of Tantalum Dihydride Compounds with Alkenes**

The tantalum dihydride compounds  $[\text{Ta}(\text{OAr})_2(\text{L})_n(\text{Cl})(\text{H})_2]$  ( $n = 2$ ,  $\text{OAr} = 2,6$ -diphenyl- and 2,6-diisopropylphenoxide;  $n = 1$ ,  $\text{OAr} = 2,6$ -di-*tert*-butylphenoxide) react with styrene to produce different organometallic products depending upon the nature of the aryloxy ligand. The 2,6-diphenylphenoxide compound forms an  $\eta^2$ -styrene complex while the 2,6-diisopropylphenoxide and 2,6-di-*tert*-butylphenoxide derivatives undergo ligand dehydrogenation and cyclometallation, respectively.

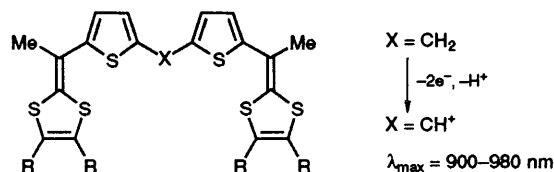
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- 555 **Measurement of an Exceedingly Long Metal Carbonyl C–O Bond by Single Crystal X-Ray Diffraction in  $\text{Ru}_8(\mu\text{-H})_2(\mu_6\text{-}\eta^2\text{-CO})(\text{CO})_{19}(\eta^6\text{-C}_{16}\text{H}_{16})$**



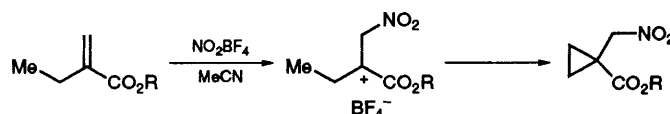
Caroline M. Martin, Alexander J. Blake, Paul J. Dyson, Scott L. Ingham, Brian F. G. Johnson

- 557 **Preparation and Properties of Bis[5-(6-methyl-1,4-dithiafulven-6-yl)-2-thienyl]methanes affording Near-infrared Absorbing Cations by Oxidation**



Akira Ohta, Yoshiro Yamashita

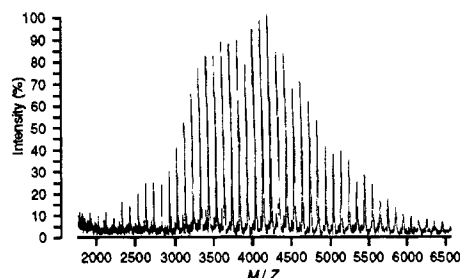
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Stuart A. Hewlins, John A. Murphy, Jian Lin

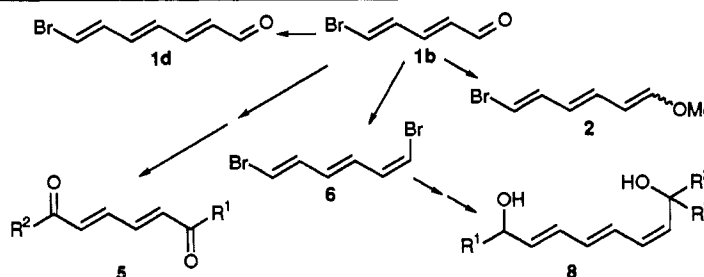
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Darren R. Maloney, Kirsty H. Hunt, Paul M. Lloyd, Andrew V. G. Muir, Stuart N. Richards, Peter J. Derrick, David M. Haddleton



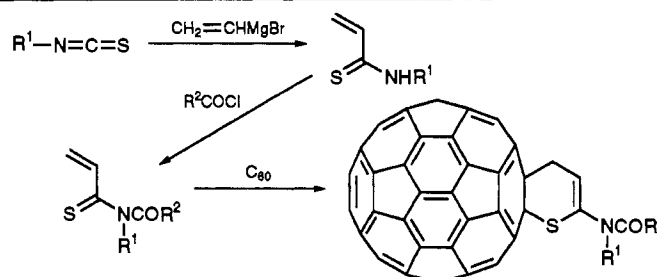
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David Soulez, Gérard Plé, Lucette Duhamel, Pierre Duhamel



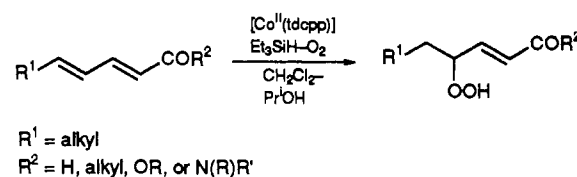
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Masatomi Ohno, Satoshi Kojima, Shoji Eguchi



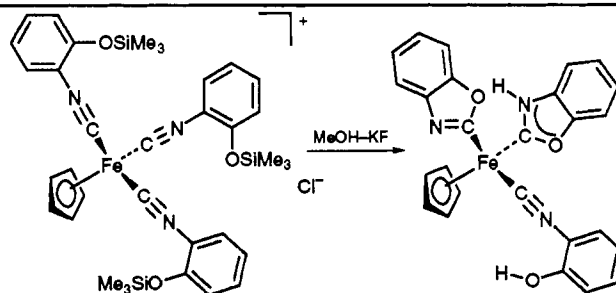
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Yoh-ichi Matsushita, Kazuhiro Sugamoto, Teyoshi Nakama, Takanao Matsui



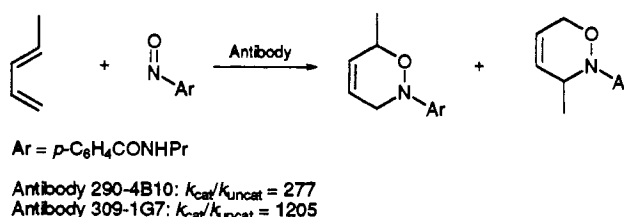
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F. Ekkehardt Hahn, Matthias Tamm



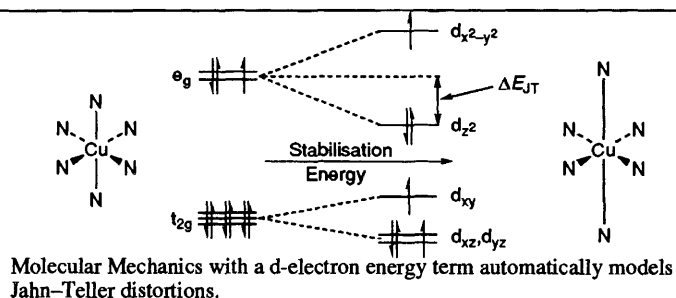
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Arthur A. P. Meekel, Marina Resmini, Upendra K. Pandit



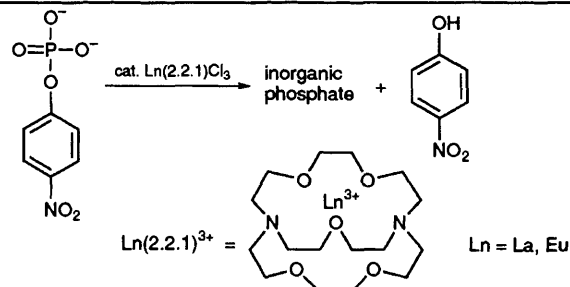
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Veronica J. Burton, Robert J. Deeth

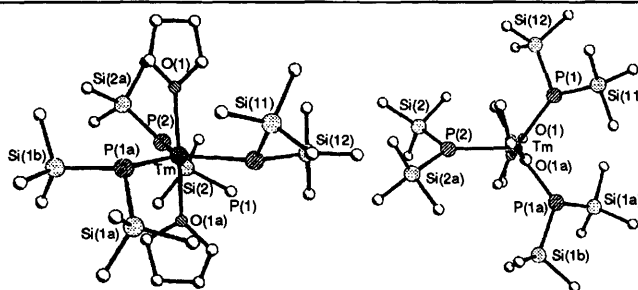


## 575 Catalytic Hydrolysis of Phosphate Monoesters by Lanthanide(III) Cryptate (2.2.1) Complexes

Soon Jin Oh, Kyong Hwa Song, Joon Won Park

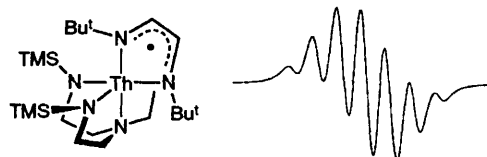
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Gerd W. Rabe, Jürgen Riede, Annette Schier



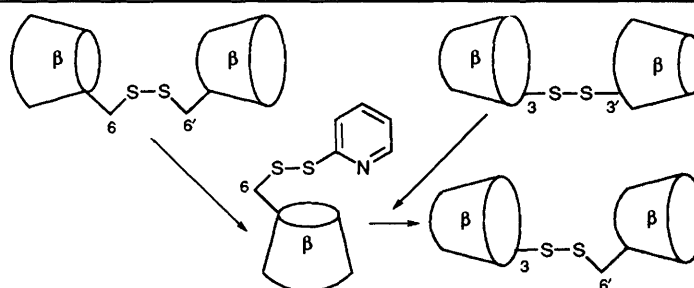
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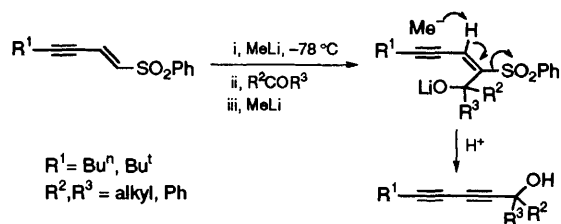
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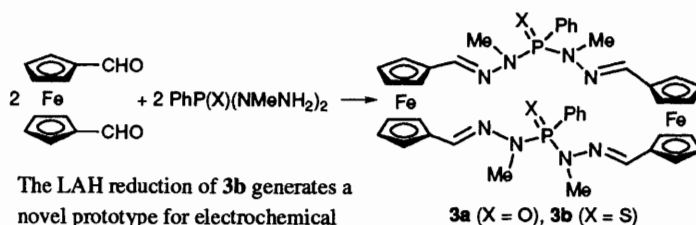


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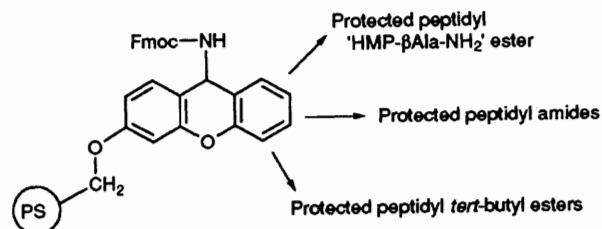
Mitsuhiro Yoshimatsu, Masataka Kawahigashi, Hiroshi Shimizu, Tadashi Kataoka



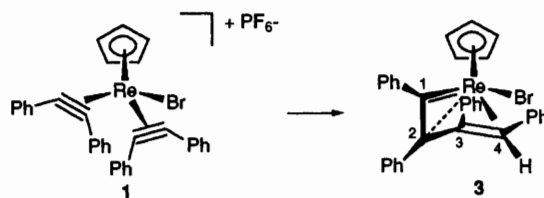
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Béatrice Delavaux-Nicot, Yannick Guari, Bénédicte Douziech, René Mathieu

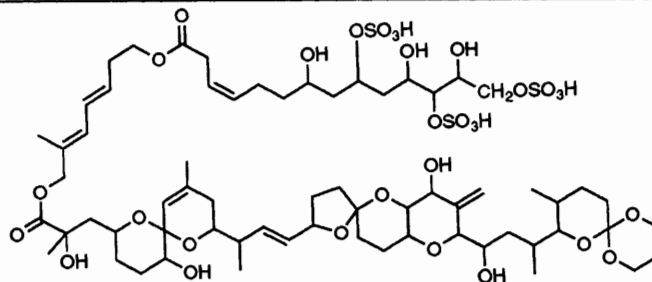
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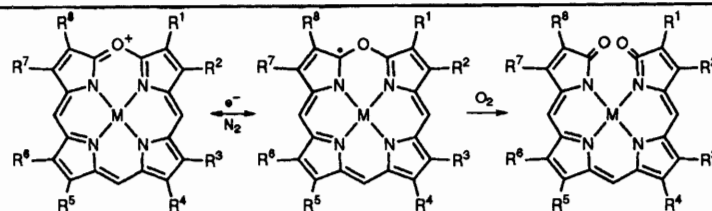
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Robert J. Deeth, Stephen J. Dossett, Michael Green, Mary F. Mahon, Simon J. Rumble

Reagents and conditions: i,  $\text{LiBHEt}_3$ , THF,  $-78^\circ\text{C}$

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Tingmo Hu, Jonathan M. Curtis, John A. Walter, Jeffrey L. C. Wright

601 Electrochemical-optical and -ESR Investigation of the Reaction between Oxygen and  $\pi$ -Neutral Radicals of Zn<sup>II</sup>- and Fe<sup>II</sup>-Protoverdohaem Dimethylester

Kunihiko Tajima, Kanako Shimizu, Hirotsugu Mano, Kazuo Mukai, Nagao Azuma

$M = \text{Fe}^{\text{II}}, \text{Zn}^{\text{II}}$   
**PV**,  $R^{1,3,6,7} = \text{Me}$ ,  $R^{2,8} = \text{Vinyl}$ ,  $R^{4,5} = \text{Me propionate}$   
**MV**,  $R^{1,3,6,7} = \text{Me}$ ,  $R^{2,8} = \text{Et}$ ,  $R^{4,5} = \text{Me propionate}$

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