

JOURNAL OF THE CHEMICAL SOCIETY

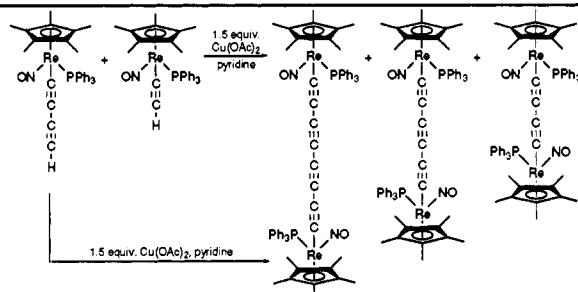
## Chemical Communications

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1994

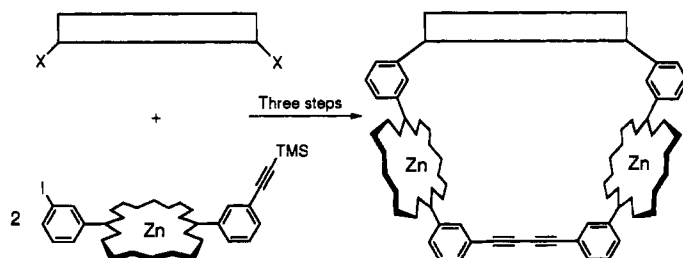
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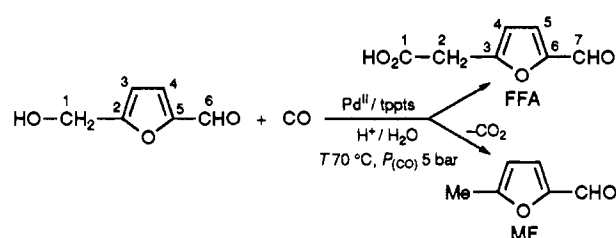
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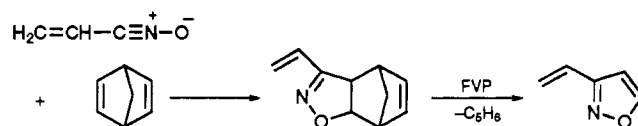
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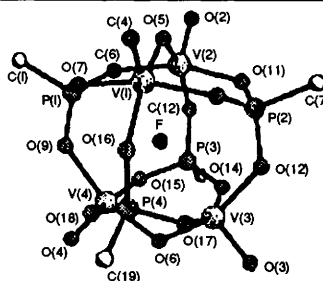
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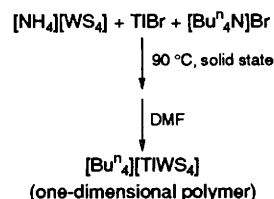
Qin Chen, Jon Zubieta



Appropriate anionic templates can direct the linkage of inorganic fragments in the construction of cluster host shells, as demonstrated by [V<sub>4</sub>O<sub>6</sub>F(O<sub>3</sub>PPh)<sub>4</sub>]<sup>-</sup> and its one-electron reduced analogue.

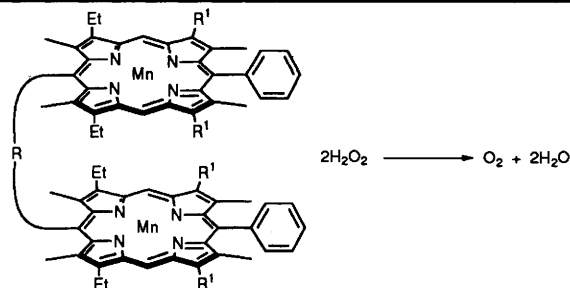
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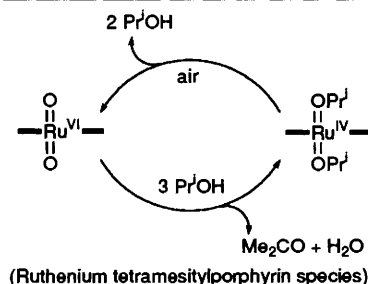
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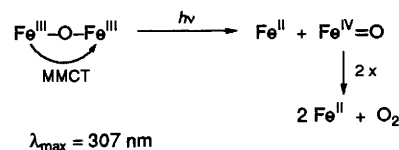
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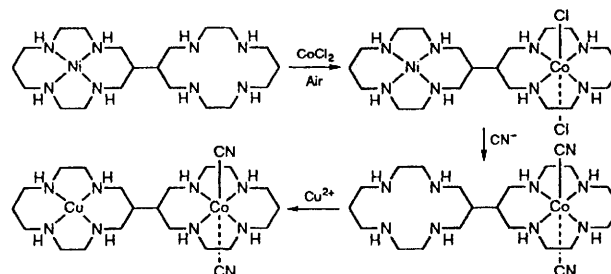
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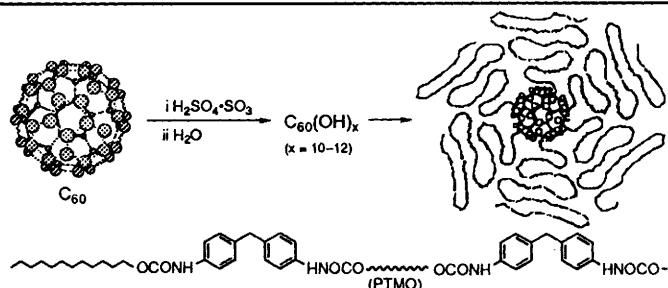
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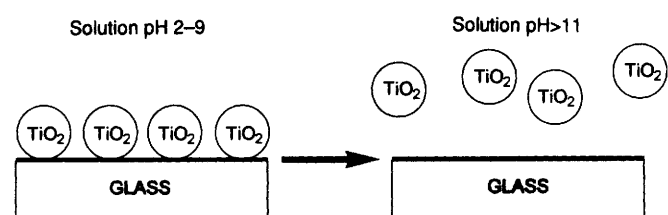


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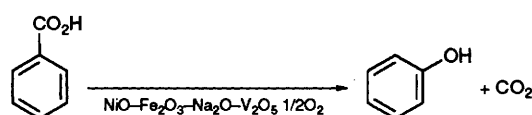
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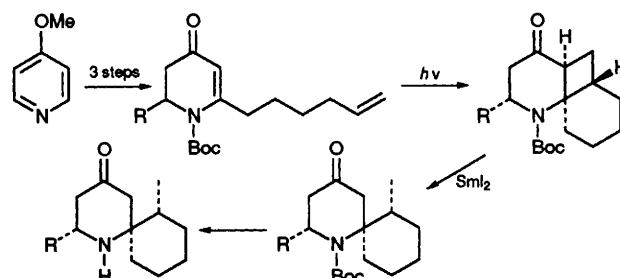
Jun Miki, Minoru Asanuma, Yakudo Tachibana, Tsutomu Shikada



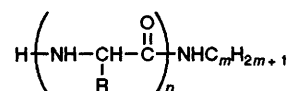
Addition of V<sub>2</sub>O<sub>5</sub> to NiO-Fe<sub>2</sub>O<sub>3</sub>-Na<sub>2</sub>O catalyst was found to be very effective in improving catalyst durability. No catalyst deactivation was observed after more than 100 h with 90% phenol selectivity and almost 100% benzoic acid conversion.

## 2681 A Novel Approach to the Perhydrohistrionicotoxin Ring System

Daniel L. Comins, Xiaoling Zheng

2683 Gelling Agents to Harden Organic Fluids: Oligomers of  $\alpha$ -Amino Acids

Kenji Hanabusa, Yoshinori Naka, Toshiki Koyama, Hirofusa Shirai



R = CHMe<sub>2</sub>, CHMeEt, CH<sub>2</sub>Ph, CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me,  
CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Et, CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>CH<sub>2</sub>Ph  
m = 12, 18  
n = 5, 10

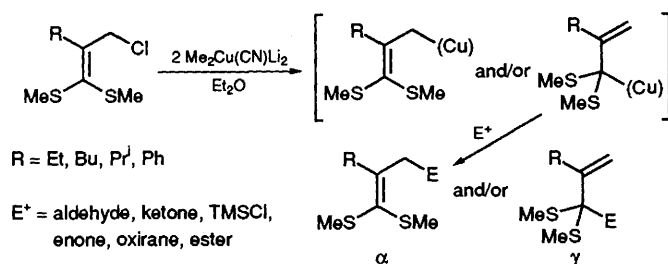
2685 Synthesis and Reactivity of New Chalcogen-rich Aqua Ions [Mo<sub>3</sub>S<sub>7</sub>(H<sub>2</sub>O)<sub>6</sub>]<sup>4+</sup> and [Mo<sub>3</sub>Se<sub>7</sub>(H<sub>2</sub>O)<sub>6</sub>]<sup>4+</sup>

Vladimir P. Fedin, Gert J. Lamprecht, A. Geoffrey Sykes

The aqua ions [Mo<sub>3</sub>Y<sub>7</sub>(H<sub>2</sub>O)<sub>6</sub>]<sup>4+</sup> (Y = S, Se) containing  $\mu_3$ -Y and  $\mu_2$ -Y<sub>2</sub> core ligands have been prepared for the first-time, enabling chalcogen-transfer reactions with an H<sub>2</sub>O-soluble phosphine to generate the well-characterised [Mo<sub>3</sub>Y<sub>4</sub>(H<sub>2</sub>O)<sub>9</sub>]<sup>4+</sup>, reactions with Cl<sup>-</sup> to give substitution of H<sub>2</sub>O ligands (which are of two different types), and heterometallic Sn<sup>II</sup> addition reactions to be studied.

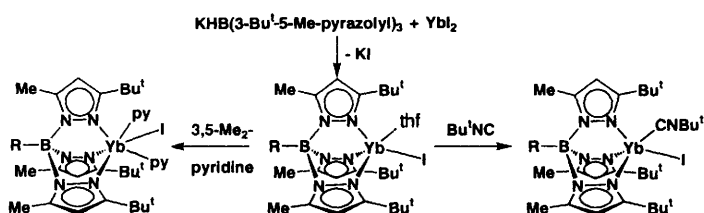
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Makoto Hojo, Hajime Harada, Chikara Murakami, Akira Hosomi



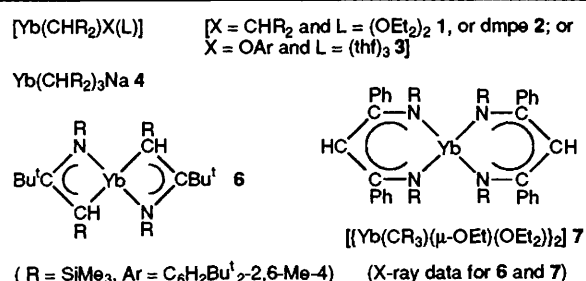
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Graham H. Maunder, Andrea Sella, Derek A. Tocher



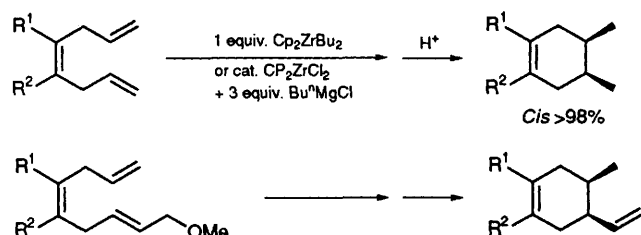
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Peter B. Hitchcock, Stephen A. Holmes, Michael F. Lappert, Shun Tian



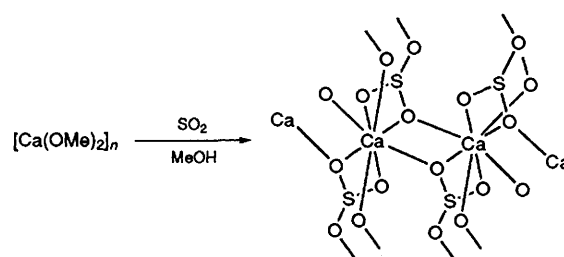
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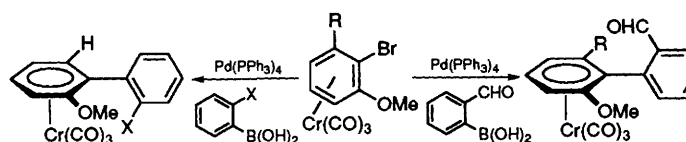
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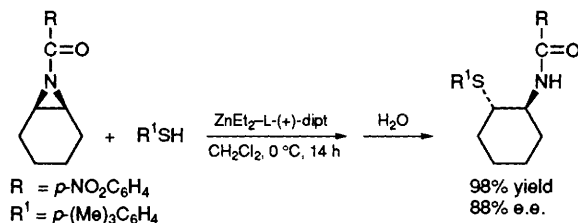
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Motokazu Uemura, Ken Kamikawa



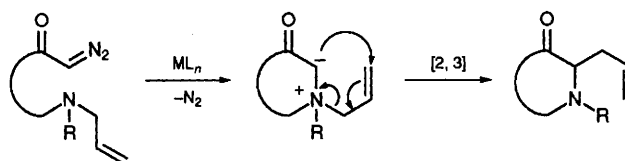
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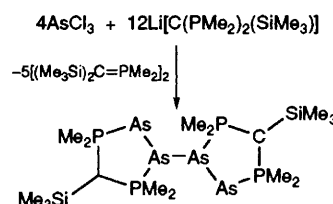
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J. Stephen Clark, Paul B. Hodgson



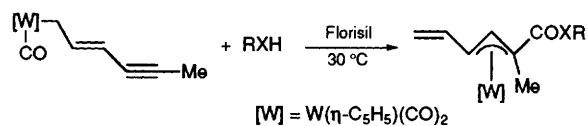
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Hans H. Karsch, Annette Schier



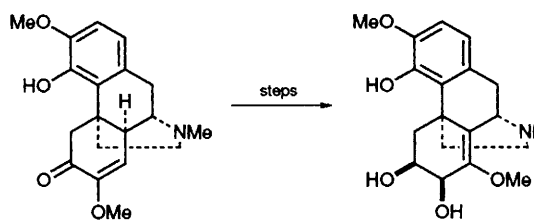
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Liang Kwei-Wen, Gene-Hsian Lee, Shie-Ming Peng, Rai-Shung Liu



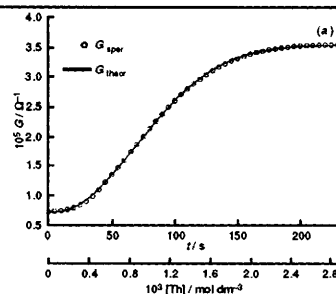
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Yukio Hitotsuyanagi, Hiroshi Ikuta, Kunihiko Nishimura, Koichi Takeya, Hideji Itokawa



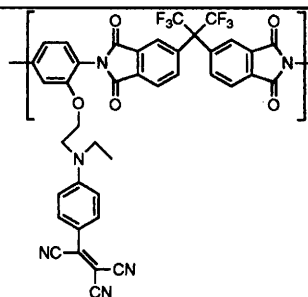
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Giuseppe Alibrandi



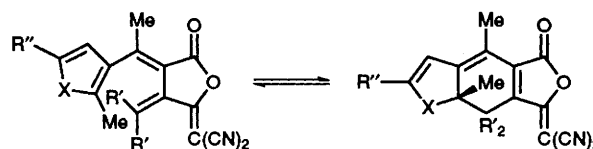
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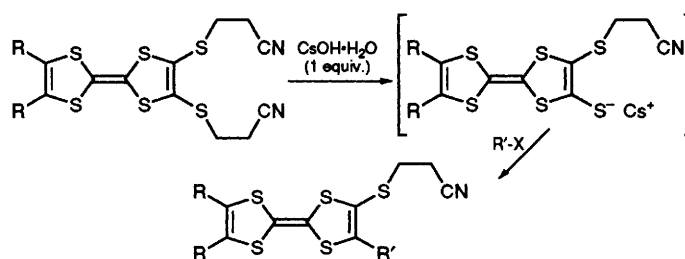
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Harry G. Heller, David S. Hughes, Michael B. Hursthouse, Kevin V. S. Koh



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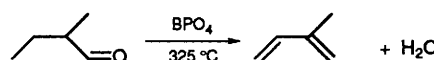
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- 2717 **Reactivation of Boron Phosphate Catalysts for the Synthesis of Isoprene from 2-Methylbutanal Dehydration**

Graham J. Hutchings, Ian D. Hudson, Donald G. Timms

Air reactivation at 800 °C completely restores catalytic activity of BPO<sub>4</sub>.



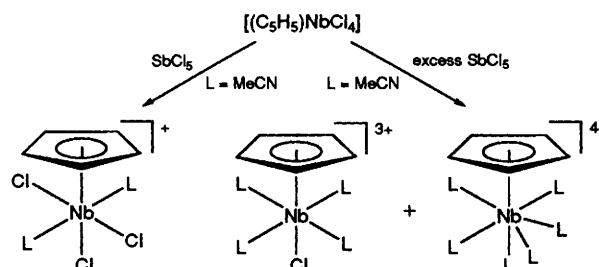
- 2719 **Sol-Gel Glass with Enantioselective Catalytic Activity**

Youval Shvo, Yigal Becker, Meir Gal

Hydrocyanation of benzaldehyde to (*R*)-mandelonitrile with an enantiomeric excess > 94% has been carried out using cyclo[-(*S*)-phenylalanyl-(*S*)-histidyl] as a catalyst entrapped in a silicon based sol-gel matrix.

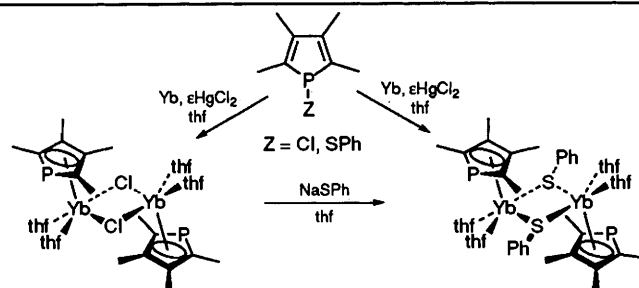
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Gerald R. Willey, Mark L. Butcher, Timothy J. Woodman, Michael G. B. Drew



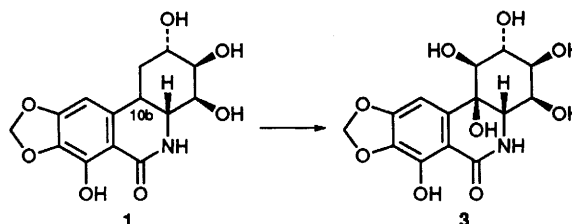
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François Nief, Louis Ricard



- 2725 **Synthesis of 10b-R-Hydroxy-pancratistatin via Narciclasine**

George R. Pettit, Noeleen Melody, Michael O'Sullivan, Michael A. Thompson, Delbert L. Herald, Brian Coates



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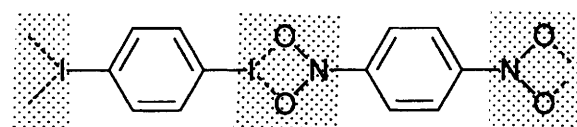
Yoshitaka Yamamoto, Yoshiki Sato, Akihiko Wakisaka



The hydrogen-bonded complex,  $\text{O} \cdots \text{N}$ , is the basic unit for the clustering.

- 2729 **Molecular Recognition via Iodo...Nitro and Iodo...Cyano Interactions: Crystal Structures of the 1 : 1 Complexes of 1,4-Diiodobenzene with 1,4-Dinitrobenzene and 7,7,8,8-Tetracyanoquinodimethane (TCNQ)**

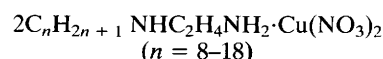
Frank H. Allen, B. Satish Goud, Vanessa J. Hoy, Judith A. K. Howard, Gautam R. Desiraju



Supramolecular synthons (shaded structure) can be used for solid state molecular recognition and crystal engineering.

- 2731 **Complexed Bilayer Membranes with Novel Structural Features formed by Amphiphiles of Monoalkyl Derivatives of Ethylenediamine**

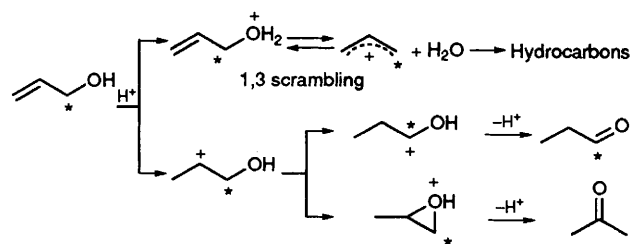
Xianchun Lu, Zhiqiang Zhang, Yingqiu Liang



The  $\text{CuN}_4$  headgroups and the aliphatic tails in  $\text{Cu}^{2+}$ -complexed bilayer membranes exhibit two different types of two-dimensional ordered orientations.

- 2733 **A Report of a Persistent Allyl Cation on H-ZSM-5 Zeolite was due to Propanal**

Teng Xu, Jinhua Zhang, Eric J. Munson, James F. Haw



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Jonathan L. Sessler, Steven J. Weghorn, Vincent Lynch, Kjell Fransson

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Philip Magnus, Robin A. Fairhurst

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Philip Magnus, David Parry, Theodore Iliadis, Shane A. Eisenbeis, Robin A. Fairhurst

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Manabu Abe, Akira Oku

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Varanosi Pushkara Rao, Y. M. Cai, Alex K.-Y. Jen

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Michael J. Begley, Rodney J. Fletcher, John A. Murphy, Michael S. Sherburn

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