

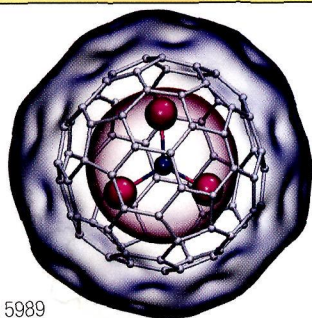
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# CHEMICAL REVIEWS

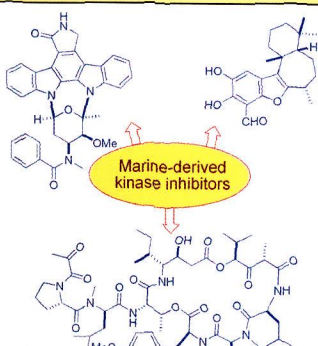
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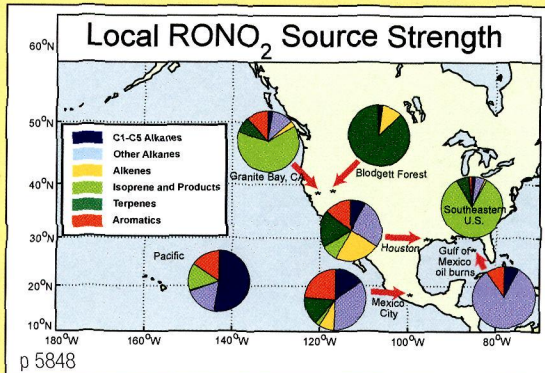
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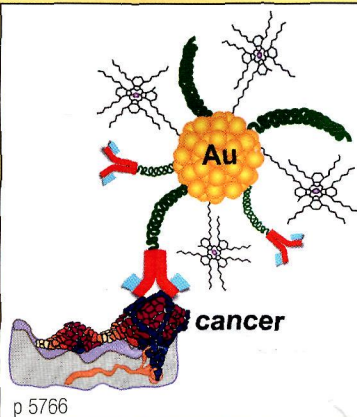
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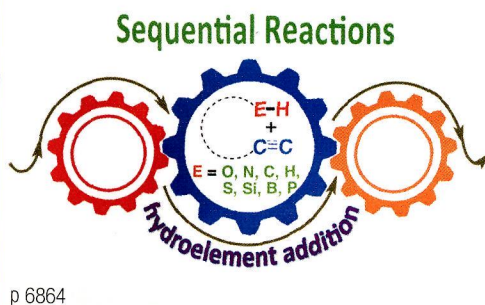
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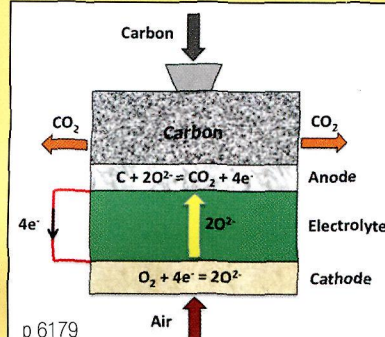
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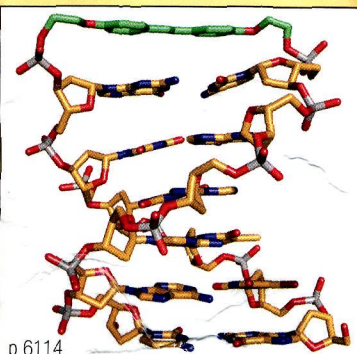
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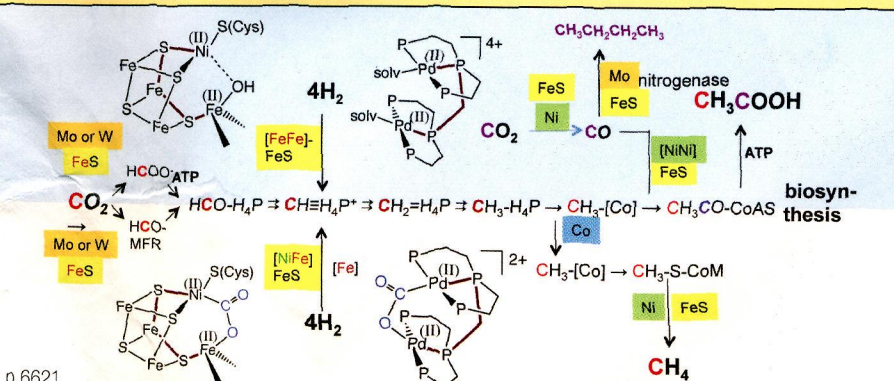
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## Reviews

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5701 [dx.doi.org/10.1021/cr4000144](http://dx.doi.org/10.1021/cr4000144)

### Chemistry of Bridged Lactams and Related Heterocycles

Michal Szostak and Jeffrey Aubé\*

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5766 [dx.doi.org/10.1021/cr300147r](http://dx.doi.org/10.1021/cr300147r)

### Raman Imaging in Biochemical and Biomedical Applications. Diagnosis and Treatment of Breast Cancer

Halina Abramczyk\* and Beata Brozek-Pluska

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5782 [dx.doi.org/10.1021/cr300367d](http://dx.doi.org/10.1021/cr300367d)

### Nanocarbons for the Development of Advanced Catalysts

Dang Sheng Su,\* Siglinda Perathoner, and Gabriele Centi\*

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5817 [dx.doi.org/10.1021/cr3005185](http://dx.doi.org/10.1021/cr3005185)

### Infrared Probes for Studying the Structure and Dynamics of Biomolecules

Heejae Kim and Minhaeng Cho\*

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5848  [dx.doi.org/10.1021/cr300520x](http://dx.doi.org/10.1021/cr300520x)

### An Observational Perspective on the Atmospheric Impacts of Alkyl and Multifunctional Nitrates on Ozone and Secondary Organic Aerosol

A. E. Perring, S. E. Pusede, and R. C. Cohen\*

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5871 [dx.doi.org/10.1021/cr300384w](http://dx.doi.org/10.1021/cr300384w)

### Gates of Enzymes

Artur Gora, Jan Brezovsky, and Jiri Damborsky\*

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5924  [dx.doi.org/10.1021/cr4000732](http://dx.doi.org/10.1021/cr4000732)

### Substituted (*E*)-2-Oxo-3-butenates: Reagents for Every Enantioselectively-Catalyzed Reaction

Giovanni Desimoni,\* Giuseppe Faita, and Paolo Quadrelli

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- 5989 dx.doi.org/10.1021/cr300297r  
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- 6114 dx.doi.org/10.1021/cr300179f  
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- 6179 dx.doi.org/10.1021/cr400072b  
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- 6234 dx.doi.org/10.1021/cr300527g  
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- 6459 dx.doi.org/10.1021/cr3004696  
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- 6536 dx.doi.org/10.1021/cr3004423  
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- 6552 dx.doi.org/10.1021/cr3001862  
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- 6592 dx.doi.org/10.1021/cr300399c  
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- 6621 dx.doi.org/10.1021/cr300463y  
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6659 [dx.doi.org/10.1021/cr300192h](https://doi.org/10.1021/cr300192h)  
**Recent Advances in Organocatalytic Asymmetric Morita–Baylis–Hillman/aza-Morita–Baylis–Hillman Reactions**  
Yin Wei and Min Shi\*


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6691 [dx.doi.org/10.1021/cr400043s](https://doi.org/10.1021/cr400043s)  
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6734 [dx.doi.org/10.1021/cr300439k](https://doi.org/10.1021/cr300439k)  
**Porous Nanosized Particles: Preparation, Properties, and Applications**  
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6761  [dx.doi.org/10.1021/cr300410v](https://doi.org/10.1021/cr300410v)  
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6816 [dx.doi.org/10.1021/cr3001059](https://doi.org/10.1021/cr3001059)  
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6864 [dx.doi.org/10.1021/cr400082n](https://doi.org/10.1021/cr400082n)  
**Recent Advances in Catalytic Sequential Reactions Involving Hydroelement Addition to Carbon–Carbon Multiple Bonds**  
Xiaoming Zeng\*

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## Additions and Corrections

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6901 [dx.doi.org/10.1021/cr400332t](https://doi.org/10.1021/cr400332t)  
**Correction to Introduction: Surface Chemistry of Oxides**  
Charles T. Campbell\* and Joachim Sauer

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6902 [dx.doi.org/10.1021/cr4003853](https://doi.org/10.1021/cr4003853)  
**Correction to Enthalpies and Entropies of Adsorption on Well-Defined Oxide Surfaces: Experimental Results**  
Charles T. Campbell\* and Jason R. V. Sellers

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