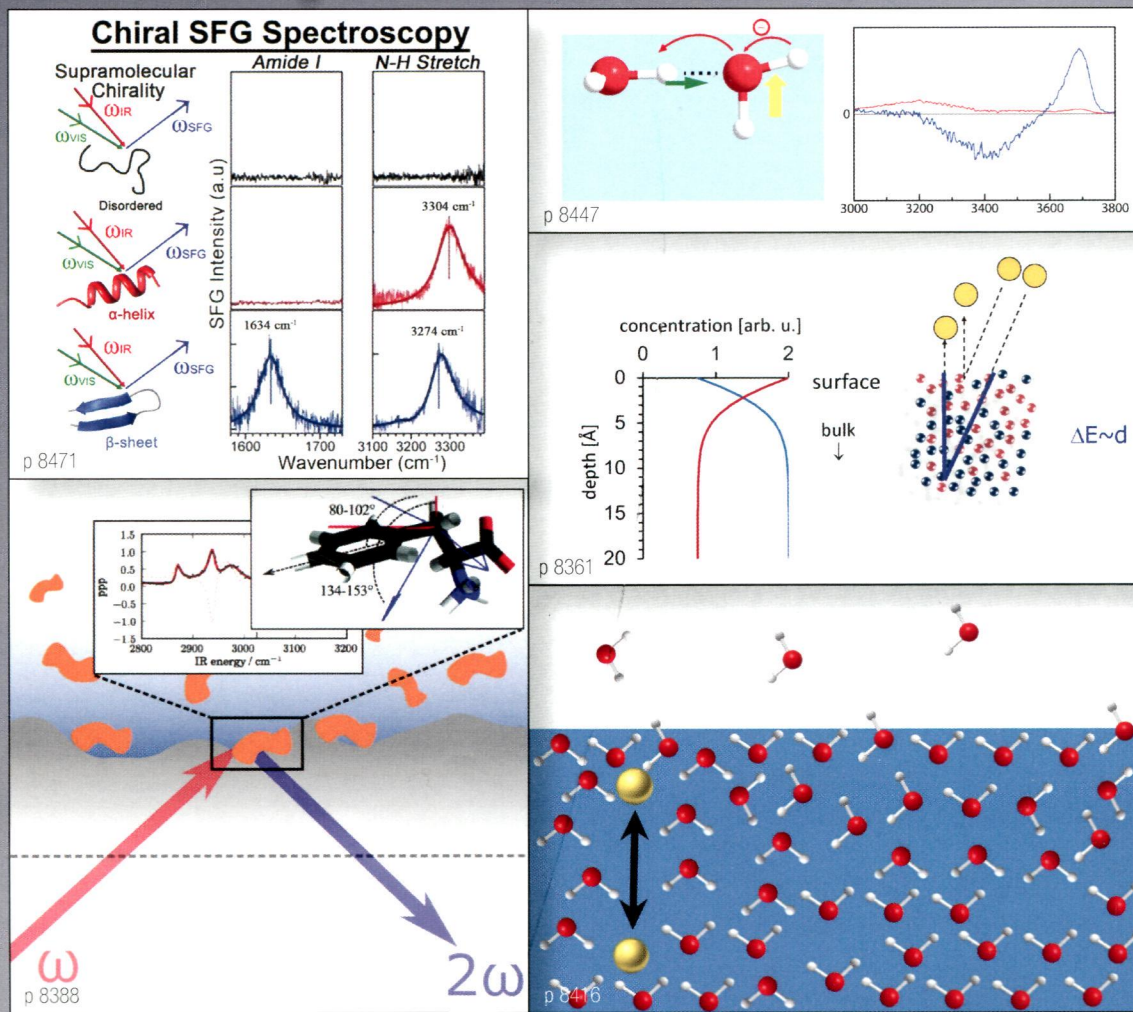


# CHEMICAL REVIEWS

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## Aqueous Interfaces



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## SPECIAL SECTION: AQUEOUS INTERFACES

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8361 [dx.doi.org/10.1021/cr400417f](https://doi.org/10.1021/cr400417f)

### Ion Scattering Studies of Molecular Structure at Liquid Surfaces with Applications in Industrial and Biological Systems

Gunther Andersson\* and Christiaan Ridings

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8388 [dx.doi.org/10.1021/cr400418b](https://doi.org/10.1021/cr400418b)

### Biomolecular Structure at Solid–Liquid Interfaces As Revealed by Nonlinear Optical Spectroscopy

Sandra Roy, Paul A. Covert, William R. FitzGerald, and Dennis K. Hore\*

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8416 [dx.doi.org/10.1021/cr4004902](https://doi.org/10.1021/cr4004902)

### Vibrational Sum Frequency Spectroscopy Studies of the Influence of Solutes and Phospholipids at Vapor/Water Interfaces Relevant to Biological and Environmental Systems

C. Magnus Johnson\* and Steven Baldelli\*

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8447 [dx.doi.org/10.1021/cr4004133](https://doi.org/10.1021/cr4004133)

### Theoretical Studies of Structures and Vibrational Sum Frequency Generation Spectra at Aqueous Interfaces

Tatsuya Ishiyama, Takako Imamura, and Akihiro Morita\*

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8471 [dx.doi.org/10.1021/cr4006044](https://doi.org/10.1021/cr4006044)

### Biological Macromolecules at Interfaces Probed by Chiral Vibrational Sum Frequency Generation Spectroscopy

Elsa C. Y. Yan,\* Li Fu, Zhuguang Wang, and Wei Liu

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## Reviews

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8499 [dx.doi.org/10.1021/cr4007297](https://doi.org/10.1021/cr4007297)

### Elemental and Chemically Specific X-ray Fluorescence Imaging of Biological Systems

M. Jake Pushie, Ingrid J. Pickering, Malgorzata Korbas, Mark J. Hackett, and Graham N. George\*

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8542 [dx.doi.org/10.1021/cr400673y](https://doi.org/10.1021/cr400673y)

### Multiporphyrinic Cages: Architectures and Functions

Stéphanie Durot, Julien Taesch, and Valérie Heitz\*

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[dx.doi.org/10.1021/cr400541j](https://doi.org/10.1021/cr400541j)

***Euphorbia* Diterpenes: Isolation, Structure, Biological Activity, and Synthesis (2008–2012)**

Andrea Vasas and Judit Hohmann\*

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[dx.doi.org/10.1021/cr400628s](https://doi.org/10.1021/cr400628s)

**Recent Advances in Transition-Metal-Catalyzed Functionalization of Unstrained Carbon–Carbon Bonds**

Feng Chen, Teng Wang, and Ning Jiao\*

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[dx.doi.org/10.1021/cr300459q](https://doi.org/10.1021/cr300459q)

**Enabling Silicon for Solar-Fuel Production**

Ke Sun, Shaohua Shen,\* Yongqi Liang, Paul E. Burrows, Samuel S. Mao,\* and Deli Wang\*

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[dx.doi.org/10.1021/cr500077e](https://doi.org/10.1021/cr500077e)

**Electrochemically Assisted Remediation of Pesticides in Soils and Water: A Review**

M. A. Rodrigo,\* N. Oturan, and M. A. Oturan\*

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