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Exploiting  
Sugar–Solvent–Active  
Site Interactions via  
Spectroscopy, Kinetics,  
Simulation, and  
Novel Materials  
(see page 22815)

ENERGY CONVERSION AND STORAGE, OPTICAL AND ELECTRONIC DEVICES,  
INTERFACES, NANOMATERIALS, AND HARD MATTER



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**ON THE COVER:** Sugar–solvent–active site interactions are explored via spectroscopy, kinetics, and multiscale simulation and are tuned by changing the local environment in which the chemistry happens through designing the active site, the solvent, and the hydrophobicity of the catalyst. This artwork was created by Dr. George Tsilomelekis using images from Presenter Media <http://www.presentermedia.com>. See page 22815

## Feature Article

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[dx.doi.org/10.1021/jp504358d](http://dx.doi.org/10.1021/jp504358d)

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[dx.doi.org/10.1021/jp5036663](http://dx.doi.org/10.1021/jp5036663)

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Luyao Lu, Tao Xu, In Hwan Jung, and Luping Yu\*

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[dx.doi.org/10.1021/jp504916p](http://dx.doi.org/10.1021/jp504916p)

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22904 dx.doi.org/10.1021/jp506554z

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