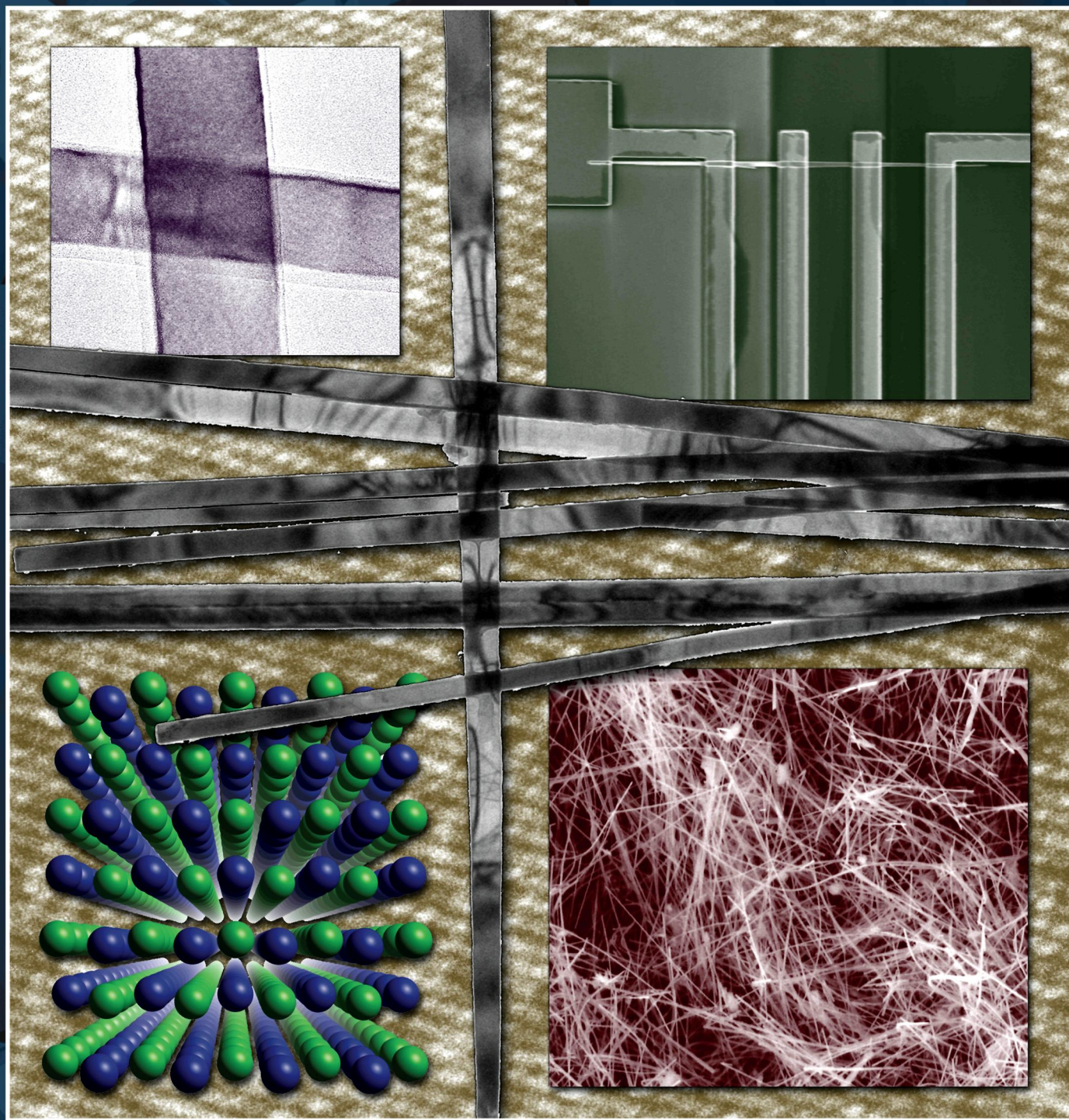


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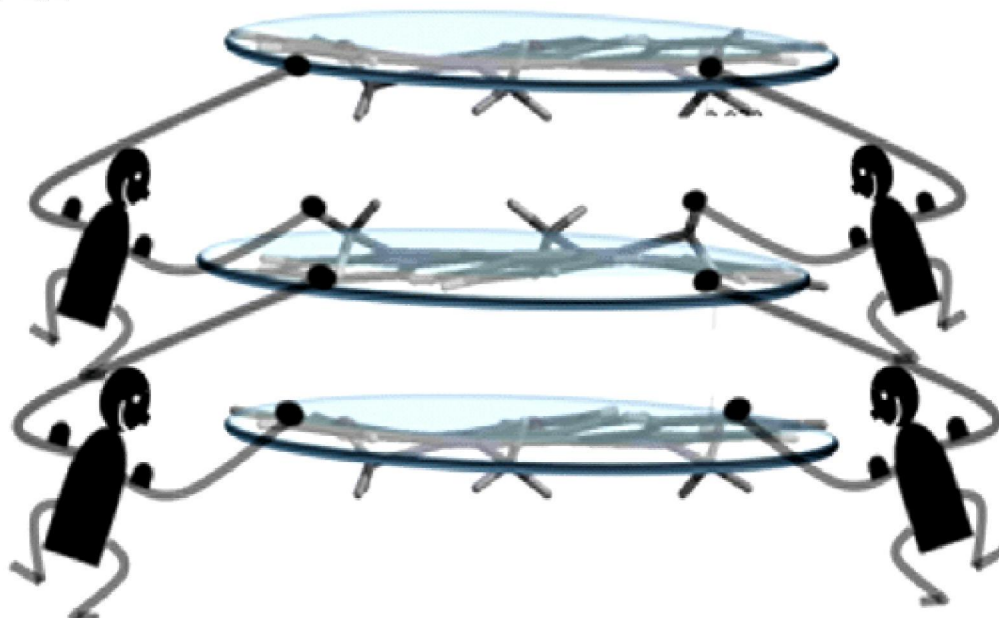


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**A Sensitized Nb<sub>2</sub>O<sub>5</sub> Photoanode for Hydrogen Production in a Dye-Sensitized Photoelectrosynthesis Cell**

Hanlin Luo, Wenjing Song, Paul G. Hoertz, Kenneth Hanson, Rudresh Ghosh, Sylvie Rangan, M. Kyle Brennaman, Javier J. Concepcion, Robert A. Binstead, Robert Allen Bartynski, Rene Lopez, and Thomas J. Meyer

pp 122-131

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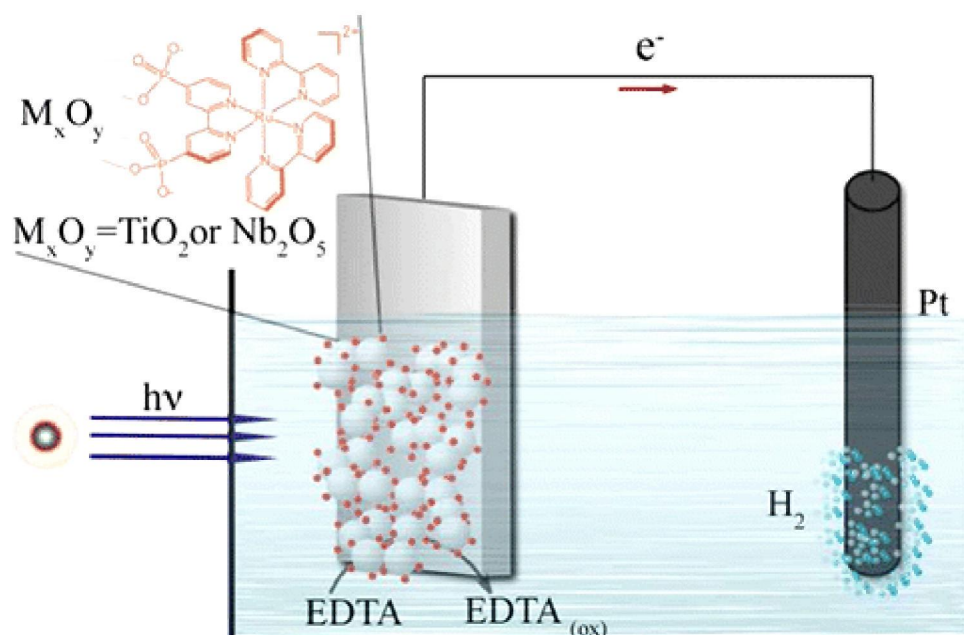


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### Li-Carboxylate Anode Structure-Property Relationships from Molecular Modeling

Stephen E. Burkhardt, Joackim Bois, Jean-Marie Tarascon, Richard G. Hennig, and Héctor D. Abruña

pp 132-141

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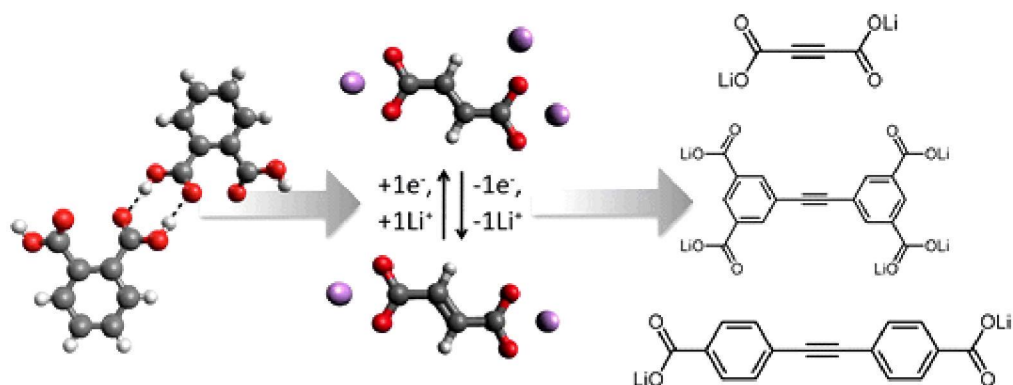


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### Toward Na-ion Batteries—Synthesis and Characterization of a Novel High Capacity Na Ion Intercalation Material

Daniel Buchholz, Arianna Moretti, Richard Kloepsch, Sascha Nowak, Vassilios Siozios, Martin Winter, and Stefano Passerini

pp 142-148

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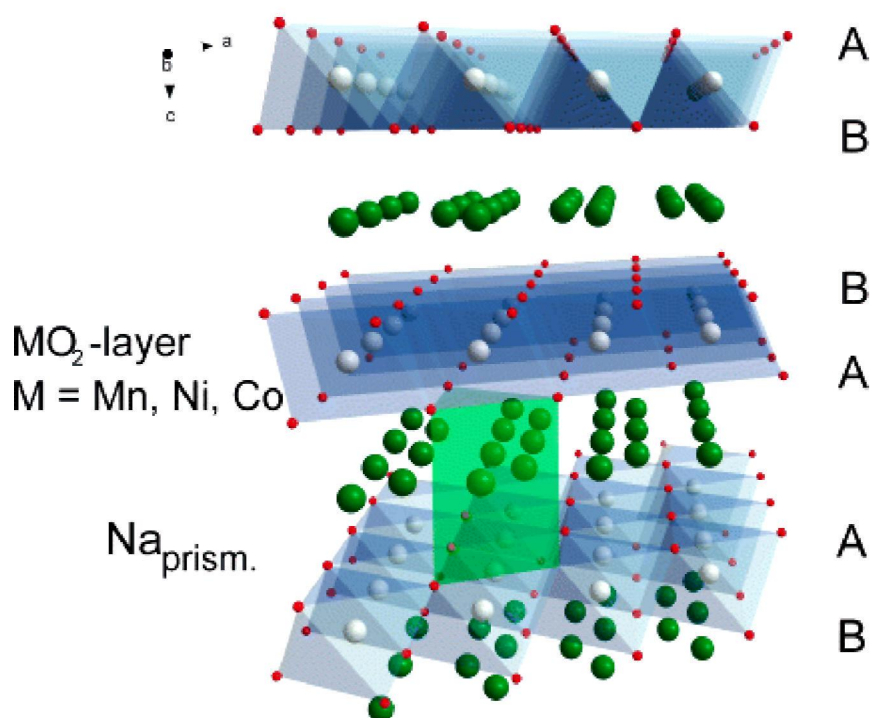


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## Thermoreversible Reactions on Inorganic Nanoparticle Surfaces: Diels–Alder Reactions on Sterically Crowded Surfaces

Tom Engel and Guido Kickelbick

pp 149-157

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Industrial Organic Chemicals, Leather, Fats, and Waxes

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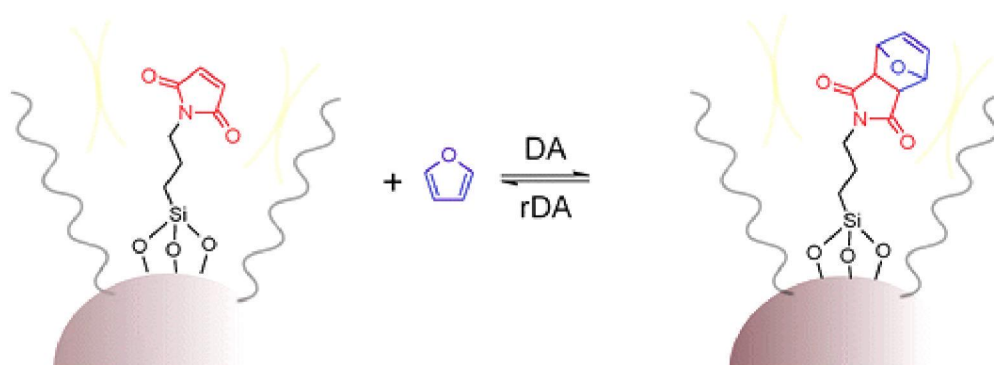


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## Polymers as Templates for Au and Au@Ag Bimetallic Nanorods: UV–Vis and Surface Enhanced Raman Spectroscopy

Rafael Contreras-Caceres, Claudine Dawson, Petr Formanek, Dieter Fischer, Frank Simon, Andreas Janke, Petra Uhlmann, and Manfred Stamm

pp 158-169

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Surface Chemistry and Colloids

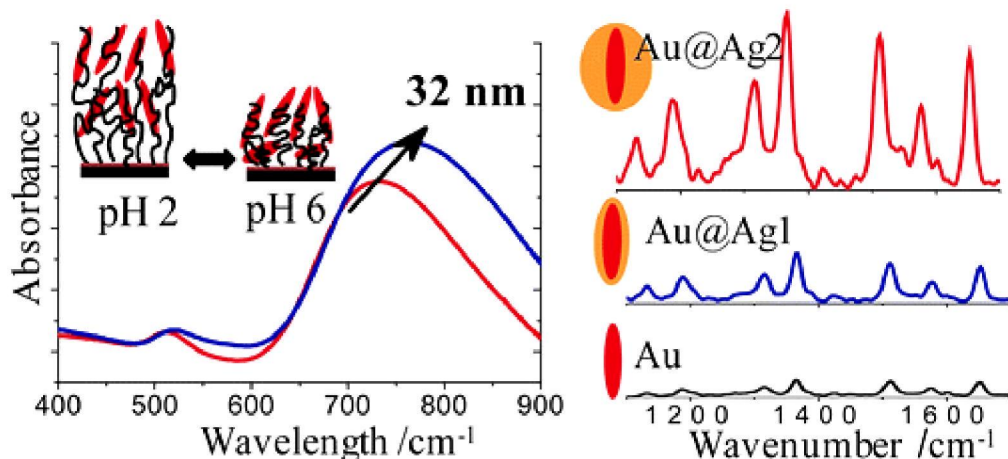


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### **Thermo- and Photo-stimulated Effects on the Optical Properties of Rutile Titania Ceramic Layers Formed on Titanium Substrates**

V. N. Kuznetsov, V. K. Ryabchuk, A. V. Emeline, R. V. Mikhaylov, A. V. Rudakova, and N. Serpone  
pp 170-177

**Publication Date (Web):** December 13, 2012 (Article)

**DOI:** 10.1021/cm3031736

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### **Valence Change of A'-Site Mn by A-Site Doping in La<sub>1-x</sub>Na<sub>x</sub>Mn<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub>**

Takenori Tohyama, Mark S. Senn, Takashi Saito, Wei-tin Chen, Chiu C. Tang, J. Paul Attfield, and Yuichi Shimakawa

pp 178-183

**Publication Date (Web):** December 19, 2012 (Article)

**DOI:** 10.1021/cm303182u

**CCS**Section:

[Magnetic Phenomena](#)

### **Highly Efficient and Stable Cadmium Chalcogenide Quantum Dot/ZnO Nanowires for Photoelectrochemical Hydrogen Generation**

Minsu Seol, Ji-Wook Jang, Seungho Cho, Jae Sung Lee, and Kijung Yong

pp 184-189

**Publication Date (Web):** December 17, 2012 (Article)

**DOI:** 10.1021/cm303206s

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[Electrochemical, Radiational, and Thermal Energy Technology](#)

### **Chessboard/Diamond Nanostructures and the A-site Deficient, Li<sub>1/2-3x</sub>Nd<sub>1/2+x</sub>TiO<sub>3</sub> Defect Perovskite Solid Solution**

Ray L. Withers, Laure Bourgeois, Amanda Snashall, Yun Liu, Lasse Norén, Christian Dwyer, and Joanne Etheridge

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**Publication Date (Web):** December 18, 2012 (Article)

**DOI:** 10.1021/cm303239d

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Andreas Luz, Alicia Malek-Luz, and Claus Feldmann

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**Publication Date (Web):** December 20, 2012 (Article)

**DOI:** 10.1021/cm303264j

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### **Functional Ultrathin Films and Nanolaminates from Aqueous Solutions**

Kai Jiang, Stephen T. Meyers, Michael D. Anderson, David C. Johnson, and Douglas A. Keszler

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**Publication Date (Web):** December 18, 2012 (Article)

**DOI:** 10.1021/cm303268p

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### **Self-Seeded Growth of Germanium Nanowires: Coalescence and Ostwald Ripening**

Olan Lotty, Richard Hobbs, Colm O'Regan, Johann Hlina, Christoph Marschner, Colm O'Dwyer, Nikolay Petkov, and Justin D. Holmes

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**Publication Date (Web):** December 20, 2012 (Article)

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[Surface Chemistry and Colloids](#)

### **Electrodeposition of $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ Epitaxial Films and Superlattices**

Zhen He, Jakub A. Koza, Guojun Mu, Andrew S. Miller, Eric W. Bohannon, and Jay A. Switzer

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**Publication Date (Web):** December 21, 2012 (Article)

**DOI:** 10.1021/cm303289t

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### **Influence of the Host Lattice Electronic Structure on Dilute Magnetic Interactions in Polymorphic Cr(III)-Doped $\text{In}_2\text{O}_3$ Nanocrystals**

Shokouh S. Farvid, Manu Hegde, and Pavle V. Radovanovic

pp 233-244

**Publication Date (Web):** January 8, 2013 (Article)

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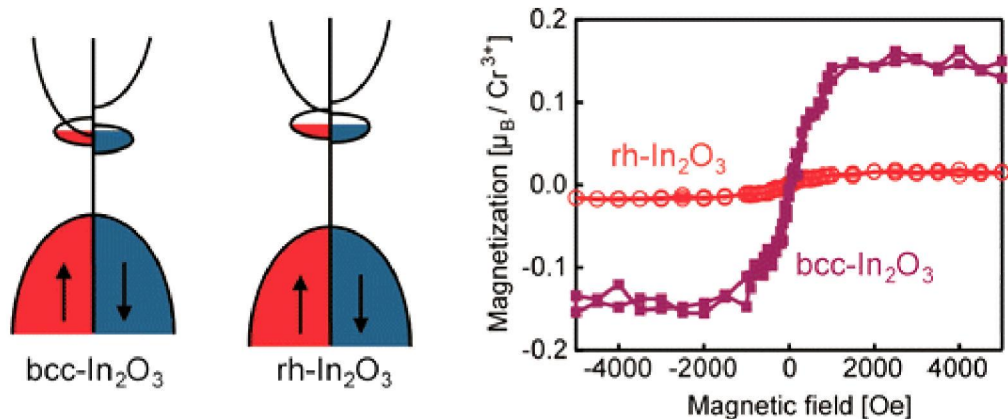


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## Intercalation of Sodium Ions into Hollow Iron Oxide Nanoparticles

Bonil Koo, Soma Chattopadhyay, Tomohiro Shibata, Vitali B. Prakapenka, Christopher S. Johnson, Tijana Rajh, and Elena V. Shevchenko

pp 245-252

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