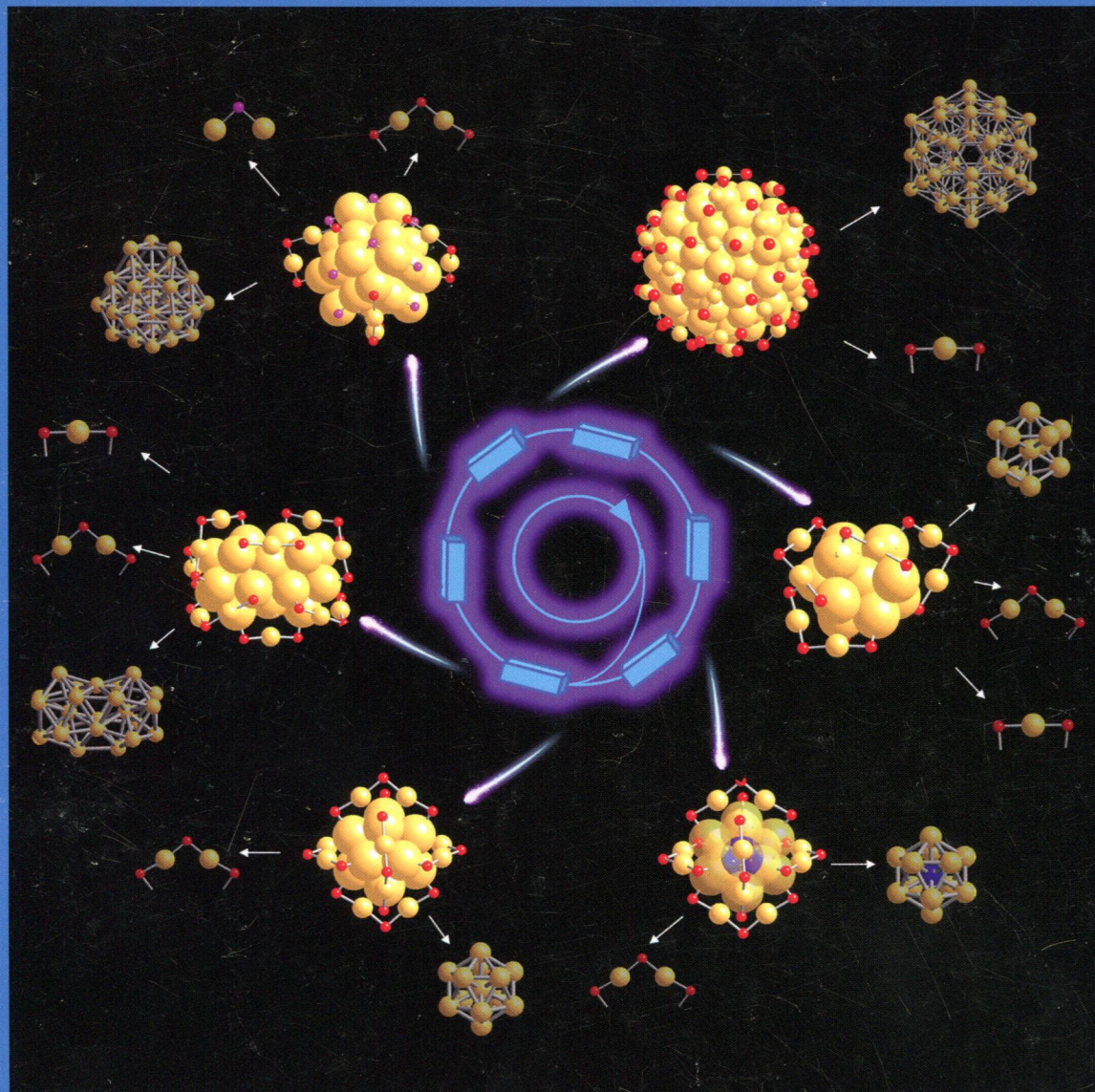


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Schematic Illustration of Synchrotron X-ray Spectroscopy Studies of Gold-Thiolate Nanoclusters (see page 25291)

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

ON THE COVER: Schematic illustration of synchrotron X-ray spectroscopy studies of gold–thiolate nanoclusters. Using the powerful synchrotron light source (center of the image), important information on the structural and bonding properties of composition-precise gold–thiolate nanoclusters can be obtained. The gold nanoclusters illustrated in the image are Au₁₄₄ (top right), Au₃₆ (top left), Au₃₈ (middle left), Au₂₅ (bottom left), Au₂₄Pt (bottom right), and Au₁₉ (middle right). The structural units in each nanocluster including the metal core and the surface gold–thiolate binding motif are also illustrated. See page 25291.

Feature Article

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X-ray Spectroscopy of Gold–Thiolate Nanoclusters

Peng Zhang*

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Energy Conversion and Storage; Energy and Charge Transport

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Molybdenum-Doped Titanium Dioxide and Its Superior Lithium Storage Performance

Jingjing Zhang, Tao Huang,* Lijuan Zhang, and Aishui Yu*

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Physical Factors Affecting Charge Transfer at the Pe-COOH–TiO₂ Anatase Interface

Olga A. Syzgantseva,* Martti Puska, and Kari Laasonen

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Improved Photoelectrochemical Water Splitting Performance of Cu₂O/SrTiO₃ Heterojunction Photoelectrode

Dipika Sharma, Sumant Upadhyay, Vibha R. Satsangi, Rohit Shrivastav, Umesh V. Waghmare, and Sahab Dass*

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Valence States in CeVO₄ and Ce_{0.5}Bi_{0.5}VO₄ Probed by Density Functional Theory Calculations and X-ray Photoemission Spectroscopy

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Sensitized Zinc–Cobalt–Oxide Spinel p-Type Photoelectrode

Candy C. Mercado,* Andriy Zakutayev, Kai Zhu, Cory J. Flynn, James F. Cahoon, and Arthur J. Nozik

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Predictions for p-Type $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskites

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Morphological Effect of Graphene Nanosheets on Ultrathin CoS Nanosheets and Their Applications for High-Performance Li-Ion Batteries and Photocatalysis

Shaofeng Kong, Zhitong Jin, Hong Liu,* and Yong Wang*

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Roberto Lanza, Marco Bersani,* Luca Conte, Alessandro Martucci, Paolo Canu, Massimo Guglielmi, Giovanni Mattei, Valentina Bello, Massimo Centazzo, and Renzo Rosei

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YCeZrO Ternary Oxide Solid Solution Supported Nonplatinic Lean-Burn NOx Trap Catalysts Using LaCoO_3 Perovskite as Active Phase


Rui You, Yuxia Zhang, Dongsheng Liu, Ming Meng,* Lirong Zheng, Jing Zhang, and Tiandou Hu

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Esther Martinez-Lombardia, Vincent Maurice, Linsey Lapeire, Iris De Graeve, Kim Verbeken, Leo Kestens, Philippe Marcus, and Herman Terryn*

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L. Z. Liu, X. L. Wu,* X. X. Liu, S. J. Xiong, and Paul K. Chu

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Carlos A. Ferreira-Rangel, Nigel A. Seaton, and Tina Düren*

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In Situ XAFS and HAXPES Analysis and Theoretical Study of Cobalt Polypyrrole Incorporated on Carbon (CoPPyC) Oxygen Reduction Reaction Catalysts for Anion-Exchange Membrane Fuel Cells

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Molecular Dynamics of the Electron-Induced Reaction of Diiodomethane on Cu(110)

Avisek Chatterjee, Fang Cheng, Lydie Leung, Miaomiao Luo, Zhanyu Ning, and John C. Polanyi*

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Andrew Kucher, Andreas Wucher, and Nicholas Winograd*

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Maria Vittoria Dozzi, Luca Artiglia, Gaetano Granozzi, Bunsho Ohtani, and Elena Selli*

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Continuous Tuning of Band Gap for π -Conjugated Ni Bis(dithiolene) Complex Bilayer
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Hole Trapping: The Critical Factor for Quantum Dot Sensitized Solar Cell Performance
Mohamed Abdellah, Rebecca Marschan, Karel Židek, Maria E. Messing, Abdallah Abdelwahab, Pavel Chábera, Kaibo Zheng,* and Tõnu Pullerits*

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Tip-Enhanced Raman Scattering of the Local Nanostructure of Epitaxial Graphene Grown on 4H-SiC (000 $\bar{1}$)
Sanpon Vantasin, Ichiro Tanabe, Yoshito Tanaka, Tamitake Itoh, Toshiaki Suzuki, Yasunori Kutsuma, Koji Ashida, Tadaaki Kaneko, and Yukihiro Ozaki*

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Cubic Zincblende ZnSe Nanowires with an Entangling Structure Grown via Oriented Attachment and Their Application in Organic-Inorganic Heterojunction Light-Emitting Diodes
Guang-Hong Chen, Shih-Jung Ho, and Hsueh-Shih Chen*

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Correction to "Structure and Properties of Mixed Strontium–Manganese Metaphosphate Glasses"
Ioannis Konidakis, Christos-Platon E. Varsamis,* Efstratios I. Kamitsos, Doris Möncke, and Doris Eht