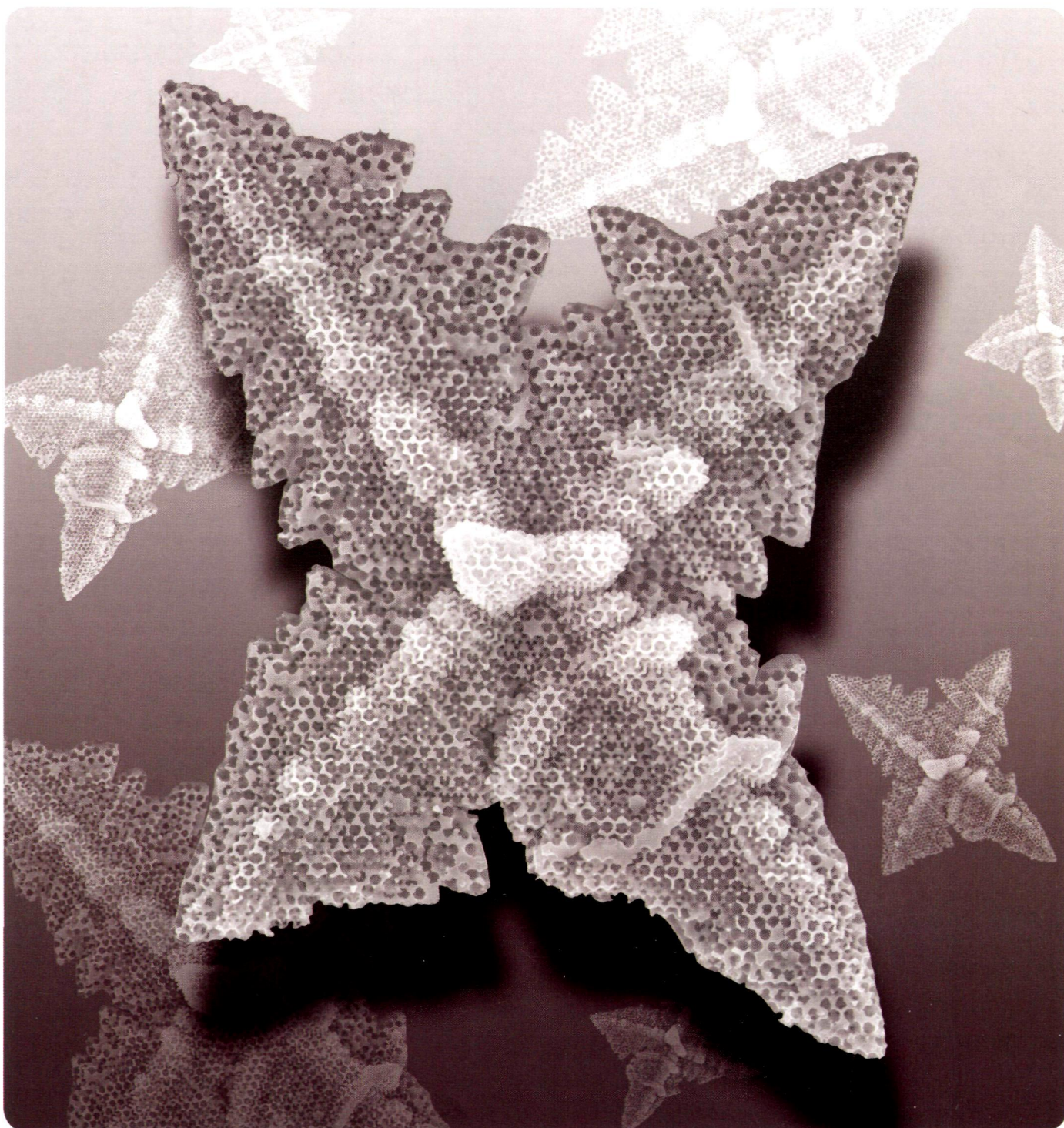


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ON THE COVER: Porous Cu_2O particles in cubic and octahedral shapes with different degrees of branching can be produced during colloidal crystal template-assisted electrodeposition. For more information, see "Colloidal Crystal Templates Direct the Morphologies of Fabricated Porous Cuprous Oxide Particles" by Ming Fu,* Ailun Zhao, Dawei He, and Yongsheng Wang (*Chem. Mater.* **2014**, *26*, 3084–3088).

Editorial

3027

Our New "Up-and-Coming Series" of Perspectives

Jillian M. Buriak

dx.doi.org/10.1021/cm5016096

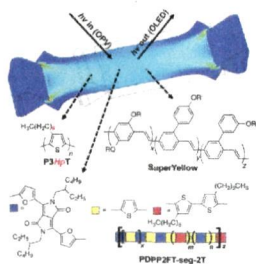
Perspectives

3028

Molecularly Stretchable Electronics

Suchol Savagatrup, Adam D. Printz, Timothy F. O'Connor, Aliaksandr V. Zaretski, and Darren J. Lipomi*

dx.doi.org/10.1021/cm501021v

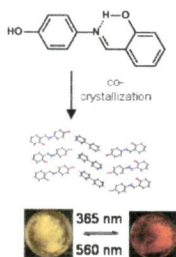


3042 **S**

dx.doi.org/10.1021/cm500823t

Co-Crystals of a Salicylideneaniline: Photochromism Involving Planar Dihedral Angles

Kristin M. Hutchins, Saikat Dutta, Bradley P. Loren, and Leonard R. MacGillivray*

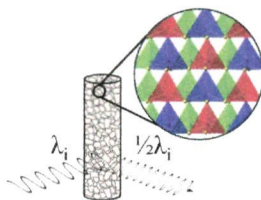


3045 **S**

dx.doi.org/10.1021/cm501029s

Li₂CdGeS₄: A Diamond-Like Semiconductor with Strong Second-Order Optical Nonlinearity in the Infrared and Exceptional Laser Damage Threshold

Jacilynn A. Brant, Daniel J. Clark, Yong Soo Kim, Joon I. Jang, Jian-Han Zhang, and Jennifer A. Aitken*



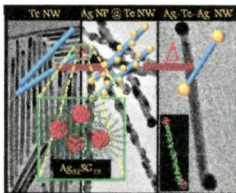
Articles

3049 **S**

dx.doi.org/10.1021/cm403288w

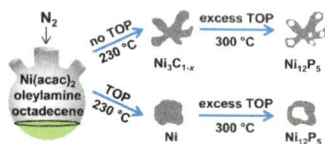
Manifestation of the Difference in Reactivity of Silver Clusters in Contrast to Its Ions and Nanoparticles: The Growth of Metal Tipped Te Nanowires

Anirban Som, A. K. Samal, T. Udayabhaskarao, M. S. Bootharaju, and T. Pradeep*

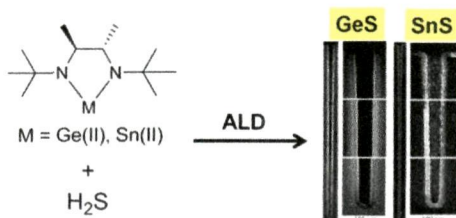


Control of Branching in $\text{Ni}_3\text{C}_{1-x}$ Nanoparticles and Their Conversion into Ni_{12}P_5 Nanoparticles

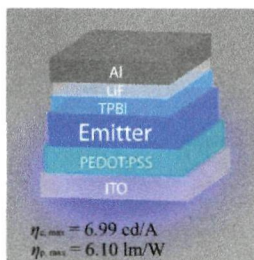
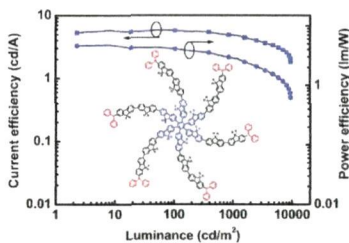
Mehmet F. Sarac, Wei-Chen Wu, and Joseph B. Tracy*

**Synthesis of N-Heterocyclic Stannylene ($\text{Sn}(\text{II})$) and Germylene ($\text{Ge}(\text{II})$) and a $\text{Sn}(\text{II})$ Amidinate and Their Application as Precursors for Atomic Layer Deposition**

Sang Bok Kim, Prasert Sinsermsuksakul, Adam S. Hock, Robert D. Pike, and Roy G. Gordon*

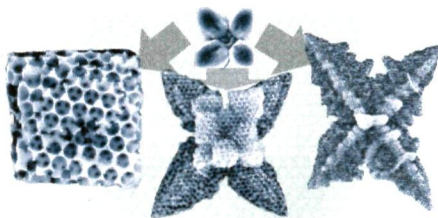
**Low Turn-on Voltage, High-Power-Efficiency, Solution-Processed Deep-Blue Organic Light-Emitting Diodes Based on Starburst Oligofluorenes with Diphenylamine End-Capper to Enhance the HOMO Level**

Cui Liu, Qiang Fu, Yang Zou, Chuluo Yang,* Dongge Ma,* and Jingui Qin



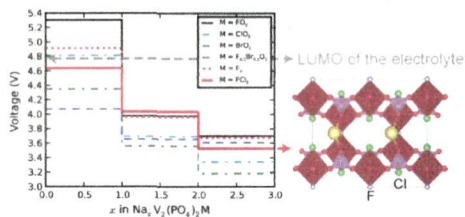
Colloidal Crystal Templates Direct the Morphologies of Fabricated Porous Cuprous Oxide Particles

Ming Fu,* Ailun Zhao, Dawei He, and Yongsheng Wang



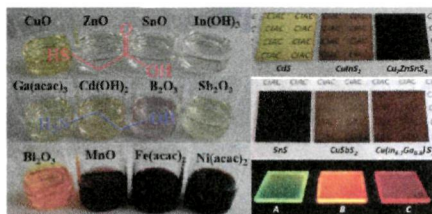
Theoretical and Experimental Study of Vanadium-Based Fluorophosphate Cathodes for Rechargeable Batteries

Maowen Xu, Penghao Xiao, Shannon Stauffer, Jie Song, Graeme Henkelman,* and John B. Goodenough*



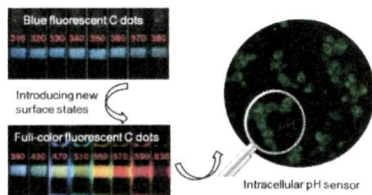
Versatile and Low-Toxic Solution Approach to Binary, Ternary, and Quaternary Metal Sulfide Thin Films and Its Application in $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ Solar Cells

Qingwen Tian, Gang Wang, Wangen Zhao, Yanyan Chen, Yanchun Yang, Lijian Huang, and Daocheng Pan*

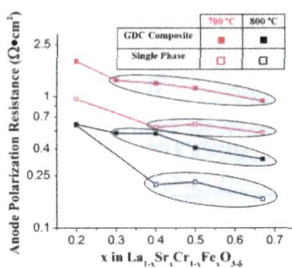


Carbon Dots with Continuously Tunable Full-Color Emission and Their Application in Ratiometric pH Sensing

Hui Nie, Minjie Li,* Quanshun Li, Shaojun Liang, Yingying Tan, Lan Sheng, Wei Shi, and Sean Xiao-An Zhang*

Stable, Low Polarization Resistance Solid Oxide Fuel Cell Anodes: $\text{La}_{1-x}\text{Sr}_x\text{Cr}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$ ($x = 0.2-0.67$)

Daniel E. Fowler, Jacob M. Haag, Claire Boland, David M. Bierschenk, Scott A. Barnett, and Kenneth R. Poeppelmeier*

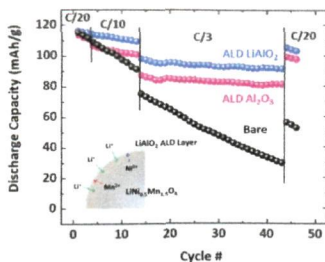
Segmented $\text{CdSe}@\text{CdS}/\text{ZnS}$ Nanorods Synthesized via a Partial Ion Exchange Sequence

Patrick Adel, Andreas Wolf, Torben Kodanek, and Dirk Dorfs*



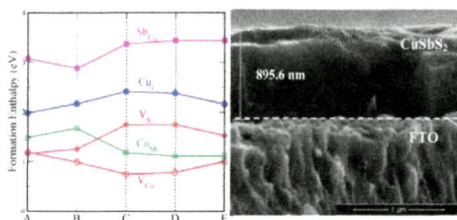
Ultrathin Lithium-Ion Conducting Coatings for Increased Interfacial Stability in High Voltage Lithium-Ion Batteries

Joong Sun Park, Xiangbo Meng, Jeffrey W. Elam, Shiqiang Hao, Christopher Wolverton, Chunjoong Kim,* and Jordi Cabana*



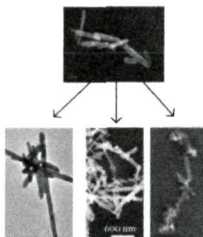
CuSbS₂ as a Promising Earth-Abundant Photovoltaic Absorber Material: A Combined Theoretical and Experimental Study

Bo Yang, Liang Wang, Jun Han, Ying Zhou, Huaibing Song, Shiyoun Chen,* Jie Zhong, Lu Lv, Dongmei Niu, and Jiang Tang*



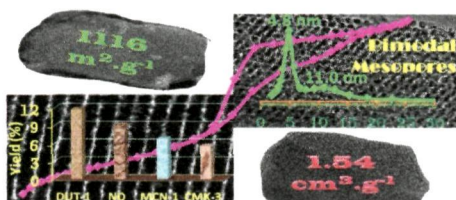
Europium Chalcogenide Nanowires by Vapor Phase Conversions

William L. Boncher, Nicholas Rosa, Srotoswini Kar, and Sarah L. Stoll*



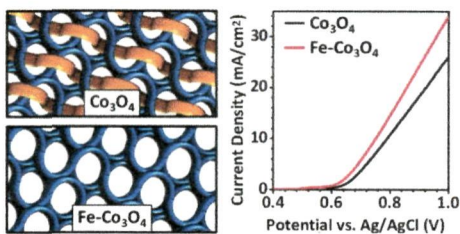
Highly-Ordered Mesoporous Carbon Nitride with Ultrahigh Surface Area and Pore Volume as a Superior Dehydrogenation Catalyst

Zhongkui Zhao,* Yitao Dai, Jinhan Lin, and Guiru Wang



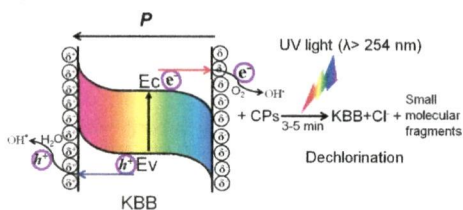
Influence of Fe Doping on Structure and Water Oxidation Activity of Nanocast Co_3O_4

Tobias Grewe, Xiaohui Deng, and Harun Tüysüz*



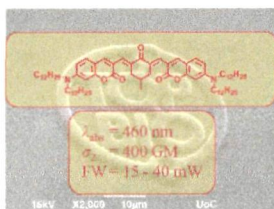
A Bulk Boron-Based Photocatalyst for Efficient Dechlorination: $\text{K}_3\text{B}_6\text{O}_{10}\text{Br}$

Xiaoyun Fan,* Ling Zang, Min Zhang, Hengshan Qiu, Zhen Wang, Jiao Yin, Hanzhong Jia, Shilie Pan, and Chuanyi Wang*

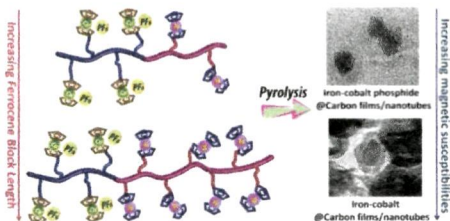


π -Expanded Ketocoumarins as Efficient, Biocompatible Initiators for Two-Photon-Induced Polymerization

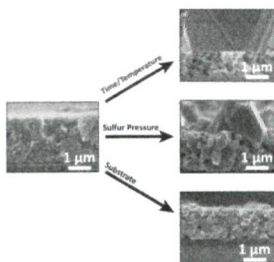
Rashid Nazir, Paulius Danilevicius, Adina I. Ciuciu, Maria Chatziniolaïdou, David Gray, Lucia Flamigni,* Maria Farsari,* and Daniel T. Gryko*

**Nanostructured Metal/Carbon Composites from Heterobimetallic Block Copolymers with Controlled Magnetic Properties**

Jiuyang Zhang, Yi Yan, Jihua Chen, W. Michael Chance, Jeffery Hayat, Zheng Gai,* and Chuanbing Tang*

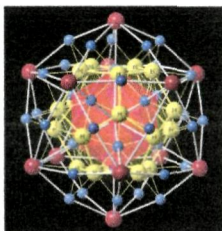
**Microstructure Evolution and Crystal Growth in $\text{Cu}_2\text{ZnSnS}_4$ Thin Films Formed By Annealing Colloidal Nanocrystal Coatings**

Boris D. Chernomordik, Amélie E. Béland, Donna D. Deng, Lorraine F. Francis, and Eray S. Aydil*

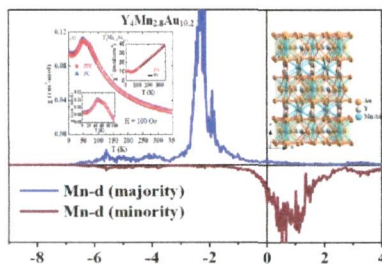


$\text{Ca}_{54}\text{In}_{13}\text{B}_{4-x}\text{H}_{23+4x}$: A Complex Metal Subhydride Featuring Ionic and Metallic Regions

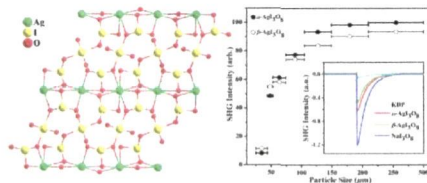
Trevor V. Blankenship, Banghao Chen, and Susan E. Lattimer*

**Taking Advantage of Gold's Electronegativity in $R_x\text{Mn}_{3-x}\text{Au}_{10+x}$ ($R = \text{Gd}$ or Y ; $0.2 \leq x \leq 1$)**

Saroj L. Samal, Abhishek Pandey, David C. Johnston, John D. Corbett, and Gordon J. Miller*

 **$\alpha\text{-AgI}_3\text{O}_8$ and $\beta\text{-AgI}_3\text{O}_8$ with Large SHG Responses: Polymerization of IO_3 Groups into the I_3O_8 Polyiodate Anion**

Xiang Xu, Chun-Li Hu, Bing-Xuan Li, Bing-Ping Yang, and Jiang-Gao Mao*



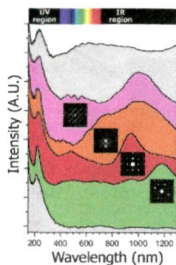
Photoluminescence Quantum Yield and Matrix-Induced Luminescence Enhancement of Colloidal Quantum Dots Embedded in Ionic Crystals

Marcus Müller, Martin Kaiser, Gordon M. Stachowski, Ute Resch-Genger,* Nikolai Gaponik,* and Alexander Eychmüller



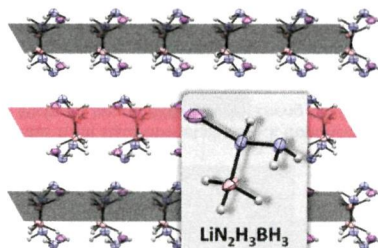
Influence of the Structure on the Properties of $\text{Na}_x\text{Eu}_y(\text{MoO}_4)_z$, Red Phosphors

Vladimir A. Morozov, Bogdan I. Lazoryak, Semen Z. Shmurak, Aleksander P. Kiselev, Oleg I. Lebedev, Nicolas Gauquelin, Johan Verbeeck, Joke Hadermann,* and Gustaaf Van Tendeloo



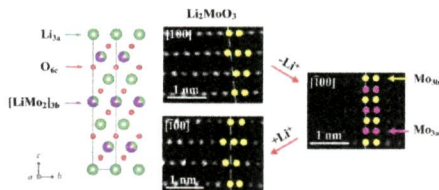
Lithium Hydrazinidoborane: A Polymorphic Material with Potential for Chemical Hydrogen Storage

Romain Moury, Umit B. Demirci,* Voraksmay Ban, Yaroslav Filinchuk, Takayuki Ichikawa, Liang Zeng, Kiyotaka Goshome, and Philippe Miele



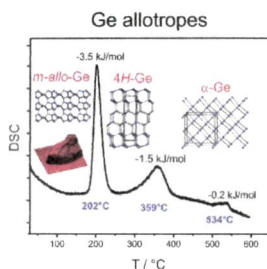
Feasibility of Using Li_2MoO_3 in Constructing Li-Rich High Energy Density Cathode Materials

Jun Ma, Yong-Ning Zhou, Yurui Gao, Xiqian Yu, Qingyu Kong,* Lin Gu, Zhaoxiang Wang,* Xiao-Qing Yang,* and Liqian Chen



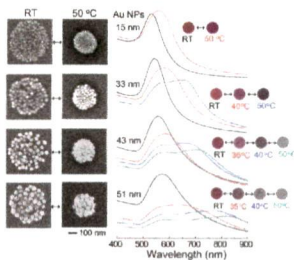
Thermochemistry, Morphology, and Optical Characterization of Germanium Allotropes

Julia V. Zaikina, Elayaraja Muthuswamy, Kristina I. Lilova, Zachary M. Gibbs, Michael Zeilinger, G. Jeffrey Snyder, Thomas F. Fassler, Alexandra Navrotsky,* and Susan M. Kauzlarich*



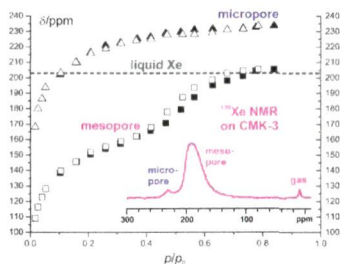
Gold Nanospheres Assembled on Hydrogel Colloids Display a Wide Range of Thermoreversible Changes in Optical Bandwidth for Various Plasmonic-Based Color Switches

Sora Lim, Ji Eun Song, Ju A. La, and Eun Chul Cho*



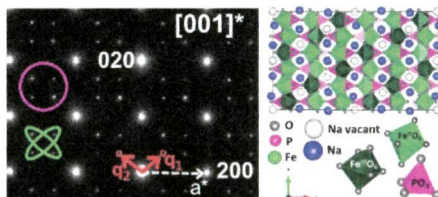
Structural Characterization of Micro- and Mesoporous Carbon Materials Using In Situ High Pressure ^{129}Xe NMR Spectroscopy

Martin Oschatz, Herbert C. Hoffmann, Julia Pallmann, Jana Schaber, Lars Borchardt, Winfried Nickel, Irena Senkovska, Soledad Rico-Francés, Joaquín Silvestre-Albero, Stefan Kaskel,* and Eike Brunner*



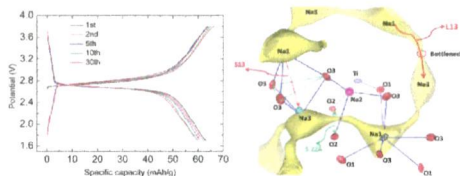
Na-Vacancy and Charge Ordering in $\text{Na}_{0.23}\text{FePO}_4$

M. Galceran, V. Roddatis, F. J. Zúñiga, J. M. Pérez-Mato, B. Acebedo, R. Arenal, I. Peral, T. Rojo, and M. Casas-Cabanas*



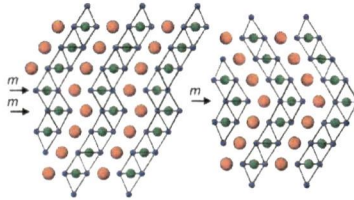
Ionic Conduction in Cubic $\text{Na}_3\text{TlP}_3\text{O}_9\text{N}$, a Secondary Na-Ion Battery Cathode with Extremely Low Volume Change

Jue Liu, Donghee Chang, Pamela Whitfield, Yuri Janssen, Xiqian Yu, Jianming Bai, Jonathan Ko, Kyung-Wan Nam, Lijun Wu, Yimei Zhu, Mikhail Feygenson, Glenn Amatucci, Anton Van der Ven, Xiao-Qing Yang, and Peter Khalifah*



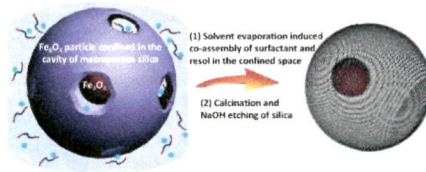
Multiple Twinning As a Structure Directing Mechanism in Layered Rock-Salt-Type Oxides: NaMnO₂ Polymorphism, Redox Potentials, and Magnetism

Artem M. Abakumov,* Alexander A. Tsirlin, Ioanna Bakaimi, Gustaaf Van Tendeloo, and Alexandros Lappas



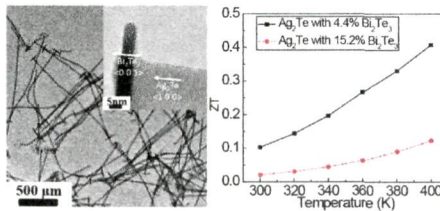
Templated Fabrication of Core–Shell Magnetic Mesoporous Carbon Microspheres in 3-Dimensional Ordered Macroporous Silicas

Minghong Wang, Xiqing Wang, Qin Yue, Yu Zhang, Chun Wang, Jin Chen, Huaqiang Cai, Hongliang Lu, Ahmed A. Elzatory, Dongyuan Zhao, and Yonghui Deng*



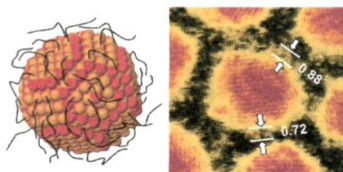
Thermoelectric Properties of Silver Telluride–Bismuth Telluride Nanowire Heterostructure Synthesized by Site-Selective Conversion

Haiyu Fang, Haoran Yang, and Yue Wu*

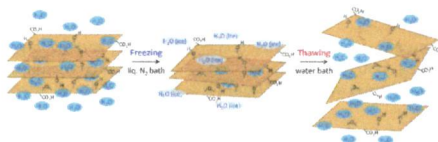


Plasmonic Interactions through Chemical Bonds of Surface Ligands on PbSe Nanocrystals

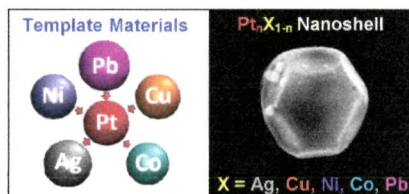
Aloysius A. Gunawan, Boris D. Chernomordik, Dayne S. Plemmons, Donna D. Deng, Eray S. Aydil, and K. Andre Mkhoyan*

**Exfoliation of Graphite Oxide in Water without Sonication: Bridging Length Scales from Nanosheets to Macroscopic Materials**

Isao Ogino,* Yuya Yokoyama, Shinichiro Iwamura, and Shin R. Mukai

**Sacrificial Templates for Galvanic Replacement Reactions: Design Criteria for the Synthesis of Pure Pt Nanoshells with a Smooth Surface Morphology**

Kyle D. Gilroy, Pouyan Farzinpour, Arathi Sundar, Robert A. Hughes, and Svetlana Neretina*

**Additions and Corrections****Correction to Organotin Dithiocarbamates: Single-Source Precursors for Tin Sulfide Thin Films by Aerosol-Assisted Chemical Vapor Deposition (AACVD)**

Karthik Ramasamy, Vladimir L. Kuznetsov, Kandasamy Gopal, Mohammad A. Malik, James Raftery, Peter P. Edwards, and Paul O'Brien*