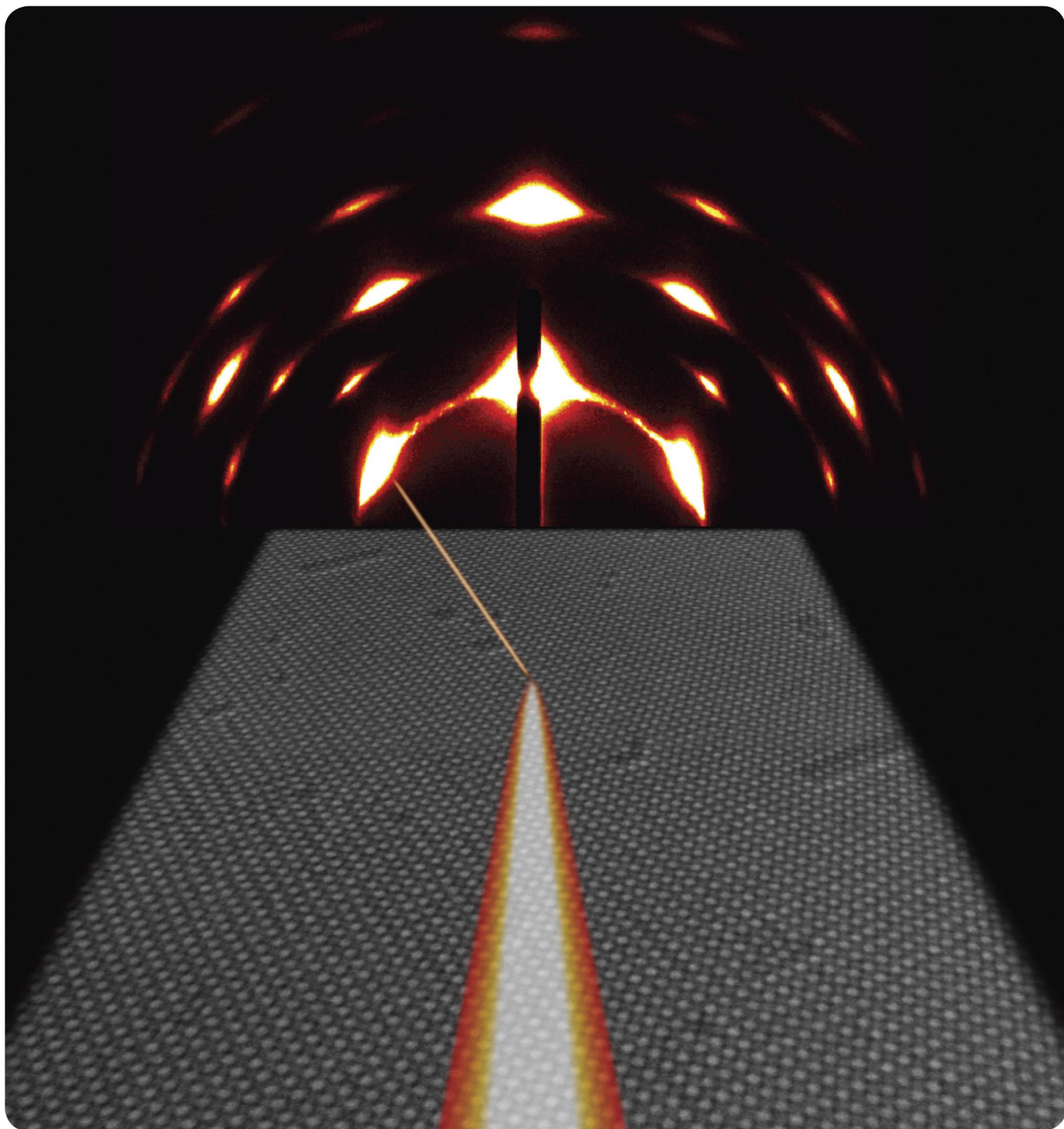




Content

1. Chemistry of Materials' 1k Club: Understanding the Complexity of Nanocomposites

Carlos Toro and Jillian M. Buriak
Chemistry of Materials **2015** 27 (2), 401-403

2. Minimal Long-Term Intrinsic Degradation Observed in a Polymer Solar Cell Illuminated in an Oxygen-Free Environment

William R. Mateker, I. T. Sachs-Quintana, George F. Burkhard, Rongrong Cheacharoen, and Michael D. McGehee
Chemistry of Materials **2015** 27 (2), 404-407

3. Increasing the Thermoelectric Figure of Merit of Tetrahedrites by Co-Doping with Nickel and Zinc

Xu Lu, Donald T. Morelli, Yi Xia, and Vidvuds Ozolins
Chemistry of Materials **2015** 27 (2), 408-413

4. Supracrystals of N-Heterocyclic Carbene-Coated Au Nanocrystals

Xiang Ling, Sylvain Roland, and Marie-Paule Pileni
Chemistry of Materials **2015** 27 (2), 414-423

5. Tuning Proton Conductivity in Alkali Metal Phosphonocarboxylates by Cation Size-Induced and Water-Facilitated Proton Transfer Pathways

Montse Bazaga-García, Maria Papadaki, Rosario M. P. Colodrero, Pascual Olivera-Pastor, Enrique R. Losilla, Belén Nieto-Ortega, Miguel Ángel G. Aranda, Duane Choquesillo-Lazarte, Aurelio Cabeza, and Konstantinos D. Demadis
Chemistry of Materials **2015** 27 (2), 424-435

6. Protonic and Electronic Transport in Hydrated Thin Films of the Pigment Eumelanin

Julia Wünsche, Yingxin Deng, Prajwal Kumar, Eduardo Di Mauro, Erik Josberger, Jonathan Sayago, Alessandro Pezzella, Francesca Soavi, Fabio Cicoira, Marco Rolandi, and Clara Santato
Chemistry of Materials **2015** 27 (2), 436-442

7. Effect of Pendant Functionality in Thieno[3,4-b]thiophene-alt-benzodithiophene Polymers for OPVs

Patrick Homyak, Yao Liu, Sunzida Ferdous, Feng Liu, Thomas P. Russell, and E. Bryan Coughlin
Chemistry of Materials **2015** 27 (2), 443-449

8. Pulsed-Flow Near-Critical and Supercritical Synthesis of Carbon-Supported Platinum Nanoparticles and In Situ X-ray Diffraction Study of Their Formation and Growth

Jian-Li Mi, Henrik F. Clausen, Martin Bremholm, Mette S. Schmøkel, Patricia Hernández-Fernández, Jacob Becker, and Bo B. Iversen
Chemistry of Materials **2015** 27 (2), 450-456

9. Spray-Assisted Deep-Frying Process for the In Situ Spherical Assembly of Graphene for Energy-Storage Devices

Sang-Hoon Park, Hyun-Kyung Kim, Seung-Beom Yoon, Chang-Wook Lee, Dongjoon Ahn, Sang-Ick Lee, Kwang Chul Roh, and Kwang-Bum Kim
Chemistry of Materials **2015** 27 (2), 457-465

10. Magneto-Optical Probe for Investigation of Multiphase Fe Oxide Nanosystems

Giulio Campo, Francesco Pineider, Valentina Bonanni, Martin Albino, Andrea Caneschi, César de Julián Fernández, Claudia Innocenti, and Claudio Sangregorio
Chemistry of Materials **2015** 27 (2), 466-473

11. Interparticle Spacing and Structural Ordering in Superlattice PbS Nanocrystal Solids Undergoing Ligand Exchange

Mark C. Weidman, Kevin G. Yager, and William A. Tisdale
Chemistry of Materials **2015** 27 (2), 474-482

12. Hollow Structured Y₂O₃:Yb/Er–Cu_xS Nanospheres with Controllable Size for Simultaneous Chemo/Photothermal Therapy and Bioimaging

Ruichan Lv, Piaoping Yang, Fei He, Shili Gai, Guixin Yang, and Jun Lin
Chemistry of Materials **2015** 27 (2), 483-496

13. On the Origin of Nanochessboard Superlattices in A-Site-Deficient Ca-Stabilized Nd₂/3TiO₃

Feridoon Azough, Demie Kepaptsoglou, Quentin M. Ramasse, Bernhard Schaffer, and Robert Freer
Chemistry of Materials **2015** 27 (2), 497-507

14. Transparency through Structural Disorder: A New Concept for Innovative Transparent Ceramics

Kholoud Al Saghir, Sébastien Chenu, Emmanuel Veron, Franck Fayon, Matthew Suchomel, Cécile Genevois, Florence Porcher, Guy Matzen, Dominique Massiot, and Mathieu Allix
Chemistry of Materials **2015** 27 (2), 508-514

15. Inducing Ferrimagnetism in Insulating Hollandite Ba_{1.2}Mn₈O₁₆

Amber M. Larson, Pouya Moetakef, Karen Gaskell, Craig M. Brown, Graham King, and Efrain E. Rodriguez
Chemistry of Materials **2015** 27 (2), 515-525

16. Activation Mechanism of $\text{LiNi}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$: Surface and Bulk Operando Electrochemical, Differential Electrochemical Mass Spectrometry, and X-ray Diffraction Analyses

Rosa Robert, Christa Bünzli, Erik J. Berg, and Petr Novák
Chemistry of Materials **2015** 27 (2), 526-536

17. Mechanistic Studies of Effect of Dispersity on the Photovoltaic Performance of PTB7 Polymer Solar Cells

Luyao Lu, Tianyue Zheng, Tao Xu, Donglin Zhao, and Luping Yu
Chemistry of Materials **2015** 27 (2), 537-543

18. Anchoring Cobalt Nanocrystals through the Plane of Graphene: Highly Integrated Electrocatalyst for Oxygen Reduction Reaction

Li-Bing Lv, Tian-Nan Ye, Ling-Hong Gong, Kai-Xue Wang, Juan Su, Xin-Hao Li, and Jie-Sheng Chen
Chemistry of Materials **2015** 27 (2), 544-549

19. Understanding the Chemical Stability of Polymers for Lithium–Air Batteries

Chibueze V. Amanchukwu, Jonathon R. Harding, Yang Shao-Horn, and Paula T. Hammond
Chemistry of Materials **2015** 27 (2), 550-561

20. Air-Exposure Induced Dopant Redistribution and Energy Level Shifts in Spin-Coated Spiro-MeOTAD Films

Zafer Hawash, Luis K. Ono, Sonia R. Raga, Michael V. Lee, and Yabing Qi
Chemistry of Materials **2015** 27 (2), 562-569

21. Photocatalytic Growth of Copper Nanowires from Cu_2O Seeds

Samuel Alvarez, Shengrong Ye, Patrick F. Flowers, and Benjamin J. Wiley
Chemistry of Materials **2015** 27 (2), 570-573

22. In Situ X-ray Absorption Spectroscopy Study of the Capacity Fading Mechanism in Hybrid $\text{Sn}_3\text{O}_2(\text{OH})_2$ /Graphite Battery Anode Nanomaterials

Christopher J. Pelliccione, Elena V. Timofeeva, and Carlo U. Segre
Chemistry of Materials **2015** 27 (2), 574-580

23. Mg Alloying in SnTe Facilitates Valence Band Convergence and Optimizes Thermoelectric Properties

Ananya Banik, U. Sandhya Shenoy, Shashwat Anand, Umesh V. Waghmare, and Kanishka Biswas
Chemistry of Materials **2015** 27 (2), 581-587

24. A Solution for Solution-Produced $\beta\text{-FeSe}$: Elucidating and Overcoming Factors that Prevent Superconductivity

Joshua T. Greenfield, Saeed Kamali, Kathleen Lee, and Kirill Kovnir
Chemistry of Materials **2015** 27 (2), 588-596

25. Phase Behavior and Electrochemical Characterization of Blends of Perfluoropolyether, Poly(ethylene glycol), and a Lithium Salt

Dominica H. C. Wong, Alessandra Vitale, Didier Devaux, Austria Taylor, Ashish A. Pandya, Daniel T. Hallinan, Jacob L. Thelen, Sue J. Mecham, Simon F. Lux, Alexander M. Lapides, Paul R. Resnick, Thomas J. Meyer, Robert M. Kostecki, Nitash P. Balsara, and Joseph M. DeSimone
Chemistry of Materials **2015** 27 (2), 597-603

26. Atomic Layer Deposition of AlF₃ Thin Films Using Halide Precursors

Miia Mäntymäki, Mikko J. Heikkilä, Esa Puukilainen, Kenichiro Mizohata, Benoît Marchand, Jyrki Räisänen, Mikko Ritala, and Markku Leskelä
Chemistry of Materials **2015** 27 (2), 604-611

27. Coupling of Crystal Structure and Magnetism in the Layered, Ferromagnetic Insulator CrI₃

Michael A. McGuire, Hemant Dixit, Valentino R. Cooper, and Brian C. Sales
Chemistry of Materials **2015** 27 (2), 612-620

28. Luminescent CuInS₂ Quantum Dots by Partial Cation Exchange in Cu₂-xS Nanocrystals

Ward van der Stam, Anne C. Berends, Freddy T. Rabouw, Tom Willhammar, Xiaoxing Ke, Johannes D. Meeldijk, Sara Bals, and Celso de Mello Donega
Chemistry of Materials **2015** 27 (2), 621-628

29. Dramatic Influence of A-Site Nonstoichiometry on the Electrical Conductivity and Conduction Mechanisms in the Perovskite Oxide Na_{0.5}Bi_{0.5}TiO₃

Ming Li, Huairuo Zhang, Stuart N. Cook, Linhao Li, John A. Kilner, Ian M. Reaney, and Derek C. Sinclair
Chemistry of Materials **2015** 27 (2), 629-634

30. A General Synthesis Strategy for Monodisperse Metallic and Metalloid Nanoparticles (In, Ga, Bi, Sb, Zn, Cu, Sn, and Their Alloys) via in Situ Formed Metal Long-Chain Amides

Meng He, Loredana Protesescu, Riccarda Caputo, Frank Krumeich, and Maksym V. Kovalenko
Chemistry of Materials **2015** 27 (2), 635-647

31. Correction to Air-Stable n-Type Organic Field-Effect Transistors Based on 4,9-Dihydro-s-indaceno[1,2-b:5,6-b']dithiazole-4,9-dione Unit

Yutaka Ie, Masashi Ueta, Masashi Nitani, Norimitsu Tohnai, Mikiji Miyata, Hirokazu Tada, and Yoshio Aso
Chemistry of Materials **2015** 27 (2), 648-648