



December 27, 2013: Vol. 117, Iss. 51
Pages 26859-27168

Content

- 1. Near-Infrared Absorbing Thienoisindigo-Based Copolymers for Organic Photovoltaics**
Marina Ide, Yoshiko Koizumi, Akinori Saeki, Yuta Izumiya, Hideo Ohkita, Shinzaburo Ito, and Shu Seki
The Journal of Physical Chemistry C **2013** 117 (51), 26859-26870
- 2. Microwave-Specific Enhancement of the Carbon–Carbon Dioxide (Boudouard) Reaction**
Jacob Hunt, Anthony Ferrari, Adrian Lita, Mark Crosswhite, Bridgett Ashley, and A. E. Stiegman
The Journal of Physical Chemistry C **2013** 117 (51), 26871-26880
- 3. Effect of Electrolytic Properties of a Magnesium Organohaloaluminate Electrolyte on Magnesium Deposition**
Aadil Benmayza, Mayandi Ramanathan, Timothy S. Arthur, Masaki Matsui, Fuminori Mizuno, Jinghua Guo, Per-Anders Glans, and Jai Prakash
The Journal of Physical Chemistry C **2013** 117 (51), 26881-26888
- 4. Improving the Electrochemical Performance of Li₄Ti₅O₁₂ Anode through Confinement into Ordered Bimodal Porous Carbon Frameworks**
Shuai Hao, Xiaoling Xiao, Zhongbo Hu, Limei Sun, Songbai Han, Dongfeng Chen, and Xiangfeng Liu
The Journal of Physical Chemistry C **2013** 117 (51), 26889-26895

- 5. Optimal Sunlight Harvesting in Photovoltaics and Photosynthesis**
Marco Bernardi and Jeffrey C. Grossman
The Journal of Physical Chemistry C **2013** 117 (51), 26896-26904
- 6. Photochemical Charge Separation in Poly(3-hexylthiophene) (P3HT) Films Observed with Surface Photovoltage Spectroscopy**
Frank E. Osterloh, Michael A. Holmes, Lilian Chang, Adam J. Moulé, and Jing Zhao
The Journal of Physical Chemistry C **2013** 117 (51), 26905-26913
- 7. Hydrogen Storage in Martensite Ti–Zr–Ni Alloy: A Density Functional Theory Study**
Katarina Batalović, Vasil Koteski, and Dragica Stojić
The Journal of Physical Chemistry C **2013** 117 (51), 26914-26920
- 8. Managing the Properties of Lu₂O₃:Tb,Hf Storage Phosphor by Means of Fabrication Conditions**
Dagmara Kulesza and Eugeniusz Zych
The Journal of Physical Chemistry C **2013** 117 (51), 26921-26928
- 9. Monitoring the Electrochemical Processes in the Lithium–Air Battery by Solid State NMR Spectroscopy**
Michal Leskes, Amy J. Moore, Gillian R. Goward, and Clare P. Grey
The Journal of Physical Chemistry C **2013** 117 (51), 26929-26939
- 10. Improved Hydrogen Storage Performance of MgH₂–LiAlH₄ Composite by Addition of MnFe₂O₄**
Qi Wan, Ping Li, Ziliang Li, Fuqiang Zhai, Xuanhui Qu, and Alex A. Volinsky
The Journal of Physical Chemistry C **2013** 117 (51), 26940-26947
- 11. Influence of Cationic Precursors on CdS Quantum-Dot-Sensitized Solar Cell Prepared by Successive Ionic Layer Adsorption and Reaction**
Ru Zhou, Qifeng Zhang, Jianjun Tian, Daniel Myers, Min Yin, and Guozhong Cao
The Journal of Physical Chemistry C **2013** 117 (51), 26948-26956
- 12. Near-Infrared to Visible Light-Upconversion in Molecules: From Dream to Reality**
Yan Suffren, Davood Zare, Svetlana V. Eliseeva, Laure Guénée, Homayoun Nozary, Timothée Lathion, Lilit Aboshyan-Sorgho, Stéphane Petoud, Andreas Hauser, and Claude Piguet
The Journal of Physical Chemistry C **2013** 117 (51), 26957-26963
- 13. Acoustic Surface Plasmon on Cu(111) as an Excitation in the Mid-Infrared Range**
Jan Pischel, Emanuel Welsch, Olaf Skibbe, and Annemarie Pucci
The Journal of Physical Chemistry C **2013** 117 (51), 26964-26968
- 14. Solvation of 3-Methylpentane in Nanoconfined Water and Methanol at Cryogenic Temperatures**
Ryutaro Souda
The Journal of Physical Chemistry C **2013** 117 (51), 26969-26975

- 15. Postcombustion CO₂ Capture in Functionalized Porous Coordination Networks**
Ravichandar Babarao, Yuqi Jiang, and Nikhil V. Medhekar
The Journal of Physical Chemistry C **2013** 117 (51), 26976-26987
- 16. Work Function, Band Bending, and Microwave Conductivity Studies on the Selective Alkane Oxidation Catalyst MoVTenb Oxide (Orthorhombic M1 Phase) under Operation Conditions**
Christian Heine, Michael Hävecker, Maricruz Sanchez-Sanchez, Annette Trunschke, Robert Schlögl, and Maik Eichelbaum
The Journal of Physical Chemistry C **2013** 117 (51), 26988-26997
- 17. Methanol Reaction on Pt–Au Clusters on TiO₂(110): Methoxy-Induced Diffusion of Pt**
Samuel A. Tenney, S. Islamuddin Shah, Hui Yan, Brett A. Cagg, Mara S. Levine, Talat S. Rahman, and Donna A. Chen
The Journal of Physical Chemistry C **2013** 117 (51), 26998-27006
- 18. Segregation and Selective Oxidation of Ni Atoms in Pt₃Ni(111) in a Low-Pressure Oxygen Environment**
A. Politano, M. Caputo, A. Goldoni, P. Torelli, and G. Chiarello
The Journal of Physical Chemistry C **2013** 117 (51), 27007-27011
- 19. Redox Properties of Mixed Methyl/Vinylferrocenyl Monolayers on Si(111) Surfaces**
Judith R. C. Lattimer, Bruce S. Brunschwig, Nathan S. Lewis, and Harry B. Gray
The Journal of Physical Chemistry C **2013** 117 (51), 27012-27022
- 20. Biogenic Synthesis, Photocatalytic, and Photoelectrochemical Performance of Ag–ZnO Nanocomposite**
Sajid Ali Ansari, Mohammad Mansoob Khan, Mohd Omaish Ansari, Jintae Lee, and Moo Hwan Cho
The Journal of Physical Chemistry C **2013** 117 (51), 27023-27030
- 21. Photoisomerization of an Azobenzene on the Bi(111) Surface**
Christopher Bronner, Beate Prievisch, Karola Rück-Braun, and Petra Tegeder
The Journal of Physical Chemistry C **2013** 117 (51), 27031-27038
- 22. Rapid Synthesis of Porous, Mixed Phase Titania Films with Tailored Orientation of Rutile for Enhanced Photocatalytic Performance**
Ren Su, Mogens Christensen, Yanbin Shen, Jakob Kibsgaard, Björn Elgh, Ronnie T. Vang, Ralf Bechstein, Stefan Wendt, Anders Palmqvist, Bo B. Iversen, and Flemming Besenbacher
The Journal of Physical Chemistry C **2013** 117 (51), 27039-27046
- 23. Modes of Interaction of Simazine with the Surface of Amorphous Silica in Water. Part II: Adsorption at Temperatures Higher than Ambient**
Serena Esposito, Filomena Sannino, Marco Armandi, Barbara Bonelli, and Edoardo Garrone
The Journal of Physical Chemistry C **2013** 117 (51), 27047-27051

- 24. Nonpolar Adsorption at the Silica/Methanol Interface: Surface Mediated Polarity and Solvent Density across a Strongly Associating Solid/Liquid Boundary**
Debjani Roy, Shule Liu, B. Lauren Woods, A. Renee Siler, John T. Fourkas, John D. Weeks, and Robert A. Walker
The Journal of Physical Chemistry C **2013** 117 (51), 27052-27061
- 25. Maskless Surface Patterning of AlGaInP Light-Emitting Diodes by Photochemical Laser Interference Etching**
Guanjun Lin, Zhiyuan Zuo, Duo Liu, Zhaobin Feng, Qian Zhang, Xiaoyu Lin, and Xiangang Xu
The Journal of Physical Chemistry C **2013** 117 (51), 27062-27066
- 26. Phase Diagram of trans–cis Isomers for Photoactive and Mesogenic 4-Hexyl-4'-propoxyazobenzene**
Joanna Jaworska, Stanislaw Bartkiewicz, and Zbigniew Galewski
The Journal of Physical Chemistry C **2013** 117 (51), 27067-27072
- 27. Size-Dependent Photothermal Conversion Efficiencies of Plasmonically Heated Gold Nanoparticles**
Ke Jiang, David A. Smith, and Anatoliy Pinchuk
The Journal of Physical Chemistry C **2013** 117 (51), 27073-27080
- 28. Excimer-Induced Low-Energy Emission in Spirobifluorene-Based Polymer: The Role of Meta-Linkage**
Yueqi Mo, Luyang Du, Linlin Liu, Jinchang Huang, Yuyu Pan, Bing Yang, Zengqi Xie, and Yuguang Ma
The Journal of Physical Chemistry C **2013** 117 (51), 27081-27087
- 29. Aggregation-Induced Enhancement Effect of Gold Nanoparticles on Triplet Excited State**
Wen Yang, Kunhui Liu, Di Song, Qian Du, Rennian Wang, and Hongmei Su
The Journal of Physical Chemistry C **2013** 117 (51), 27088-27095
- 30. Quantification of Resonance Raman Enhancement Factors for Rhodamine 6G (R6G) in Water and on Gold and Silver Nanoparticles: Implications for Single-Molecule R6G SERS**
Fathima S. Ameer, Charles U. Pittman, Jr., and Dongmao Zhang
The Journal of Physical Chemistry C **2013** 117 (51), 27096-27104
- 31. Spin Transport and Magnetic Correlation Parameters for Graphene-like Nanocarbon Sheets Doped with Nitrogen**
Ashwini P. Alegaonkar, Arvind Kumar, Sagar H. Patil, Kashinath R. Patil, Satish K. Pardeshi, and Prashant S. Alegaonkar
The Journal of Physical Chemistry C **2013** 117 (51), 27105-27113
- 32. Insights into Desorption Ionization on Silicon (DIOS)**
Jin Li and R. H. Lipson
The Journal of Physical Chemistry C **2013** 117 (51), 27114-27119
- 33. Doping Behavior of Zr⁴⁺ Ions in Zr⁴⁺-Doped TiO₂ Nanoparticles**
Jingsheng Wang, Yanlong Yu, Sha Li, Limei Guo, Enjun Wang, and Yaan Cao
The Journal of Physical Chemistry C **2013** 117 (51), 27120-27126

- 34. Structural and Optical Properties of Mg and Cd Doped ZnO Nanoclusters**
Samson B. Woodley, Alexey A. Sokol, C. Richard A. Catlow, Abdullah A. Al-Sunaidi, and Scott M. Woodley
The Journal of Physical Chemistry C **2013** 117 (51), 27127-27145
- 35. Mechanistic Study of Continuous Reactive Aromatic Organothiols Adsorption onto Silver Nanoparticles**
Siyam M. Ansar, Ganganath S. Perera, Patricia Gomez, George Salomon, Erick S. Vasquez, I-Wei Chu, Shengli Zou, Charles U. Pittman, Jr., Keisha B. Walters, and Dongmao Zhang
The Journal of Physical Chemistry C **2013** 117 (51), 27146-27154
- 36. Edge Effects on the pH Response of Graphene Nanoribbon Field Effect Transistors**
Xuebin Tan, Hsun-Jen Chuang, Ming-Wei Lin, Zhixian Zhou, and Mark Ming-Cheng Cheng
The Journal of Physical Chemistry C **2013** 117 (51), 27155-27160
- 37. Direct Evidence of Torsional Motion in an Aggregation-Induced Emissive Chromophore**
Tersilla Virgili, Alessandra Forni, Elena Cariati, Dario Pasini, and Chiara Botta
The Journal of Physical Chemistry C **2013** 117 (51), 27161-27166
- 38. Correction to “Ag Adsorption on Reduced CeO₂(111) Thin Films”**
Jason A. Farmer, Jack H. Baricuatro, and Charles T. Campbell
The Journal of Physical Chemistry C **2013** 117 (51), 27167-27167