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JUNE 19, 2014

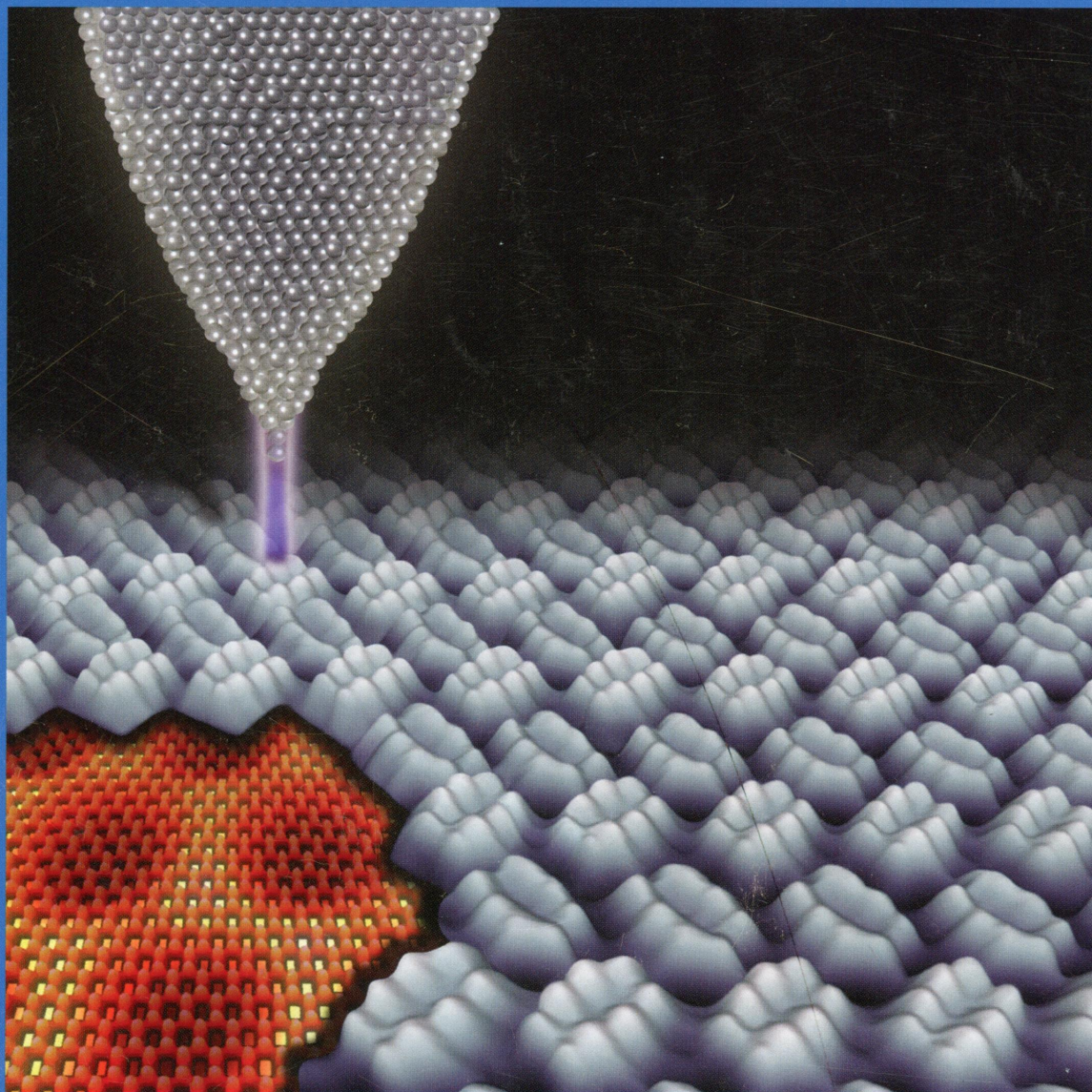
VOLUME 118

NUMBER 24

pubs.acs.org/JPCC

THE JOURNAL OF PHYSICAL CHEMISTRY

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Structural
and Electronic
Characterization
by STM and DFT of
PTCDA Monolayers on
Graphene/Pt(111)
(see page 12782)

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



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ON THE COVER: Structural and electronic characterization by STM and DFT of PTCDA monolayers on graphene/Pt(111). The growth and electronic structure of PTCDA retains all of the essential features of the molecular layer upon adsorption on epitaxial graphene on Pt(111). The image shows an STM tip scanning over PTCDA molecules adsorbed on graphene/Pt(111). The molecules exhibit intramolecular features related to the original highest occupied molecular orbital (HOMO) of PTCDA. See page 12782.

Articles

Energy Conversion and Storage; Energy and Charge Transport

12577

[dx.doi.org/10.1021/jp412473j](https://doi.org/10.1021/jp412473j)

Molecular Dynamics Simulation Study of a Polysulfone-Based Anion Exchange Membrane in Comparison with the Proton Exchange Membrane

Kyung Won Han, Kwan Ho Ko, Khaldoon Abu-Hakme, Chulsung Bae, Young Jun Sohn, and Seung Soon Jang*

12588



[dx.doi.org/10.1021/jp412661e](https://doi.org/10.1021/jp412661e)

Synthesis of Rhombic Dodecahedral Fe₃O₄ Nanocrystals with Exposed High-Energy {110} Facets and Their Peroxidase-like Activity and Lithium Storage Properties

Xun-Liang Cheng, Ji-Sen Jiang,* Dong-Mei Jiang, and Zhen-Jie Zhao

12599

[dx.doi.org/10.1021/jp500605t](https://doi.org/10.1021/jp500605t)

Etch-Resistant Zn_{1-x}Mg_xO Alloys: An Alternative to ZnO for Carboxylic Acid Surface Modification

Thomas M. Brenner, Thomas A. Flores, Paul F. Ndione, Erich P. Meinig, Gang Chen, Dana C. Olson, Thomas E. Furtak,* and Reuben T. Collins*

12608



[dx.doi.org/10.1021/jp501618n](https://doi.org/10.1021/jp501618n)

Reversible Li⁺ Storage in a LiMnTiO₄ Spinel and Its Structural Transition Mechanisms

Ruiyong Chen, Michael Knapp, Murat Yavuz, Ralf Heinzmann, Di Wang, Shuhua Ren, Vanessa Trouillet, Sergei Lebedkin, Stephen Doyle, Horst Hahn, Helmut Ehrenberg, and Sylvio Indris*








12617



[dx.doi.org/10.1021/jp5017399](https://doi.org/10.1021/jp5017399)

Environmental In Situ X-ray Absorption Spectroscopy Evaluation of Electrode Materials for Rechargeable Lithium–Oxygen Batteries

Gregory S. Hutchings, Jonathan Rosen, Danielle Smiley, Gillian R. Goward, Peter G. Bruce, and Feng Jiao*

- 12625  [dx.doi.org/10.1021/jp501797e](https://doi.org/10.1021/jp501797e)
Synthesis of Highly Effective Vanadium Nitride (VN) Peas as a Counter Electrode Catalyst in Dye-Sensitized Solar Cells
Mingxing Wu,* Hongyue Guo, Ya-nan Lin, Kezhong Wu,* Tingli Ma, and Anders Hagfeldt
- 12632  [dx.doi.org/10.1021/jp502092h](https://doi.org/10.1021/jp502092h)
Influence of the Oxygen Substoichiometry and of the Hydrogen Incorporation on the Electronic Band Structure of Amorphous Tungsten Oxide Films
Maria Vasilopoulou, Ioannis Kostis, Nikolaos Vourdas, Giorgos Papadimitropoulos, Antonios Douvas, Nikolaos Boukos, Stella Kennou, and Dimitris Davazoglou*
- 12642  [dx.doi.org/10.1021/jp502672k](https://doi.org/10.1021/jp502672k)
Comparative Study of Tavorite and Triplite LiFeSO_4F as Cathode Materials for Lithium Ion Batteries: Structure, Defect Chemistry, and Lithium Conduction Properties from Atomistic Simulation
Sanghun Lee* and Sung Soo Park*
- 12649 [dx.doi.org/10.1021/jp502732j](https://doi.org/10.1021/jp502732j)
Aging of Electrode/Electrolyte Interfaces in LiFePO_4 /Graphite Cells Cycled with and without PMS Additive
Katarzyna Ciosek Högström, Maria Hahlin, Sara Malmgren, Mihaela Gorgoi, Håkan Rensmo, and Kristina Edström*
- 12661  [dx.doi.org/10.1021/jp502912u](https://doi.org/10.1021/jp502912u)
Transfer of Photoinduced Electrons in Anatase–Rutile TiO_2 Determined by Time-Resolved Mid-Infrared Spectroscopy
Shuai Shen, Xiuli Wang, Tao Chen, Zhaochi Feng, and Can Li*
- 12669 [dx.doi.org/10.1021/jp5033417](https://doi.org/10.1021/jp5033417)
Controllable Modification of the Electronic Structure of Carbon-Supported Core–Shell Cu@Pd Catalysts for Formic Acid Oxidation
Mingjun Ren, Yi Zhou, Feifei Tao, Zhiqing Zou, Daniel L. Akins, and Hui Yang*
- 12676  [dx.doi.org/10.1021/jp5033965](https://doi.org/10.1021/jp5033965)
Enhanced Photocatalytic Water Splitting by Plasmonic TiO_2 – Fe_2O_3 Cocatalyst under Visible Light Irradiation
Wei-Hsuan Hung,* Tzu-Ming Chien, and Chuan-Ming Tseng
- 12682  [dx.doi.org/10.1021/jp5034849](https://doi.org/10.1021/jp5034849)
Investigation of Perovskite Structures as Oxygen-Exchange Redox Materials for Hydrogen Production from Thermochemical Two-Step Water-Splitting Cycles
Antoine Demont, Stéphane Abanades,* and Eric Beche
- 12693  [dx.doi.org/10.1021/jp504887s](https://doi.org/10.1021/jp504887s)
Quantitative Assessment of the Connection between Steric Hindrance and Electronic Coupling in 2,5-Bis(alkoxy)benzene-Based Mixed-Valence Dimers
Angela M. Bischof, Shaopeng Zhang, Tara Y. Meyer, and Benjamin J. Lear*

12700  [dx.doi.org/10.1021/jp505082a](https://doi.org/10.1021/jp505082a)

Model Hamiltonian Analysis of Singlet Fission from First Principles
Shane M. Parker,* Tamar Seideman, Mark A. Ratner, and Toru Shiozaki*

Surfaces, Interfaces, Porous Materials, and Catalysis

12706  [dx.doi.org/10.1021/jp411375w](https://doi.org/10.1021/jp411375w)

Shape, Morphology, and Phase Transitions during Co Oxide Growth on Au(111)
M. Li* and E. I. Altman

12717  [dx.doi.org/10.1021/jp4127804](https://doi.org/10.1021/jp4127804)

Growth Mechanism and Electronic Structure of Zn_3P_2 on the Ga-Rich GaAs(001) Surface
Seokmin Jeon, Jeffrey P. Bosco, Samantha S. Wilson, Steve J. Rozeveld, Hyungjun Kim, and Harry A. Atwater*

12727  [dx.doi.org/10.1021/jp500252g](https://doi.org/10.1021/jp500252g)


The Design of TiO_2 Nanostructures (Nanoparticle, Nanotube, and Nanosheet) and Their Photocatalytic Activity
Yanlong Yu, Peng Zhang, Limei Guo, Zhandong Chen, Qiang Wu, Yihong Ding, Wenjun Zheng, and Yaan Cao*

12734  [dx.doi.org/10.1021/jp500293s](https://doi.org/10.1021/jp500293s)


Gas Diffusion in a Porous Organic Cage: Analysis of Dynamic Pore Connectivity Using Molecular Dynamics Simulations
Daniel Holden, Kim E. Jelfs, Abbie Trewin, David J. Willock, Maciej Haranczyk,* and Andrew I. Cooper*

12744  [dx.doi.org/10.1021/jp500469x](https://doi.org/10.1021/jp500469x)

Identification of Surface Basic Sites and Acid–Base Pairs of Hydroxyapatite
Sarah Diallo-Garcia, Manel Ben Osman, Jean-Marc Krafft, Sandra Casale, Cyril Thomas, Jun Kubo, and Guylène Costentin*

12758  [dx.doi.org/10.1021/jp500538z](https://doi.org/10.1021/jp500538z)







Structural Arrangements of Isomorphous Substitutions in Smectites: Molecular Simulation of the Swelling Properties, Interlayer Structure, and Dynamics of Hydrated Cs–Montmorillonite Revisited with New Clay Models
Brice F. Ngouana W. and Andrey G. Kalinichev*

12774  [dx.doi.org/10.1021/jp500564c](https://doi.org/10.1021/jp500564c)

Photoelectrochemical Processes at n-GaAs(100)/Aqueous HCl Electrolyte Interface: A Synchrotron Photoemission Spectroscopy Study of Emerged Electrodes
Mikhail V. Lebedev,* Wolfram Calvet, Thomas Mayer, and Wolfram Jaegermann

12782  [dx.doi.org/10.1021/jp500768y](https://doi.org/10.1021/jp500768y)

Imaging Molecular Orbitals of PTCDA on Graphene on Pt(111): Electronic Structure by STM and First-Principles Calculations
Antonio J. Martínez-Galera,* Nicoleta Nicoara, José I. Martínez, Yannick J. Dappe, José Ortega, and José M. Gómez-Rodríguez

- 12789  [dx.doi.org/10.1021/jp501135r](https://doi.org/10.1021/jp501135r)
UV Photon-Induced Water Decomposition on Zirconia Nanoparticles
Michael J. Poston, Alexander B. Aleksandrov, Daniel E. Sabo, Z. John Zhang, and Thomas M. Orlando*
- 12796  [dx.doi.org/10.1021/jp5011764](https://doi.org/10.1021/jp5011764)
Bimetallic AgCu/SBA-15 System: The Effect of Metal Loading and Treatment of Catalyst on Surface Properties
Joanna Czaplinska, Izabela Sobczak,* and Maria Ziolk
- 12811  [dx.doi.org/10.1021/jp501257b](https://doi.org/10.1021/jp501257b)
Temperature Dependence of Volume Change of NaX and NaY Zeolites Using Molecular Dynamics Simulations
Hyein Guk, Daejin Kim, Heeju Lee, Yong Nam Choi, Sun Young Kang, Seung-Hoon Choi, and Dong Hyen Chung*
- 12817 [dx.doi.org/10.1021/jp501955v](https://doi.org/10.1021/jp501955v)
Atomic Scale Modeling of Two-Dimensional Molecular Self-Assembly on a Passivated Si Surface
G. Copie, Y. Makoudi, C. Krzeminski, F. Chérioux, F. Palmino, S. Lamare, B. Grandidier, and F. Cleri*
- 12826  [dx.doi.org/10.1021/jp501956z](https://doi.org/10.1021/jp501956z)
Interrelation between Chemical, Electronic, and Charge Transport Properties of Solution-Processed Indium–Zinc Oxide Semiconductor Thin Films
Marc Häming,* Alexander Issanin, Daniel Walker, Heinz von Seggern, Wolfram Jägermann, and Klaus Bonrad
- 12837  [dx.doi.org/10.1021/jp502000s](https://doi.org/10.1021/jp502000s)
Hole Carriers Doping Effect on the Metal–Insulator Transition of N-Incorporated Vanadium Dioxide Thin Films
Wenhua Zhang, Kai Wang, Lele Fan, Lingyun Liu, Panpan Guo, Chongwen Zou,* Jiaou Wang, Haijie Qian, Kurash Ibrahim, Wensheng Yan, Faqiang Xu,* and Ziyu Wu*
- 12845  [dx.doi.org/10.1021/jp502099v](https://doi.org/10.1021/jp502099v)
The Role of Ni-Based Cocatalyst in Inhomogeneous RVO₄ Photocatalyst Systems (R = Y, Gd)
Mitsutake Oshikiri,* Jinhua Ye, and Mauro Boero
- 12855 [dx.doi.org/10.1021/jp502330e](https://doi.org/10.1021/jp502330e)
Morphologies of Phenytin Crystals at Silica Model Surfaces: Vapor Annealing versus Drop Casting
Heike M. A. Ehmman, Ramona Baumgartner, Birgit Kunert, Andreas Zimmer, Eva Roblegg, and Oliver Werzer*
- 12862 [dx.doi.org/10.1021/jp502646s](https://doi.org/10.1021/jp502646s)
Universal Equation for Argon Cluster Size-Dependence of Secondary Ion Spectra in SIMS of Organic Materials
Martin P. Seah,* Rasmus Havelund, and Ian S. Gilmore

- 12873  [dx.doi.org/10.1021/jp5026834](https://doi.org/10.1021/jp5026834)
Rotational and Translational Motion of Benzene in ZIF-8 Studied by ^2H NMR: Estimation of Microscopic Self-Diffusivity and Its Comparison with Macroscopic Measurements
Daniil I. Kolokolov, Lisa Diestel, Juergen Caro, Dieter Freude, and Alexander G. Stepanov*
- 12880  [dx.doi.org/10.1021/jp5027256](https://doi.org/10.1021/jp5027256)
Introducing the Triangular Defect to Effectively Engineer the Wide Band Gap of Boron Nitride Nanoribbons with Zigzag and Even Armchair Edges
Guangtao Yu,* Dan Liu, Wei Chen,* Hui Zhang, and Xuri Huang
- 12890  [dx.doi.org/10.1021/jp502828c](https://doi.org/10.1021/jp502828c)
Experimental and Theoretical Studies of Ethanol Synthesis from Syngas over CuZnAl Catalysts without Other Promoters
Zhi-Jun Zuo,* Le Wang, Lin-Mei Yu, Pei-De Han, and Wei Huang*
- 12899  [dx.doi.org/10.1021/jp5028349](https://doi.org/10.1021/jp5028349)
Site-Dependent Lewis Acidity of $\gamma\text{-Al}_2\text{O}_3$ and Its Impact on Ethanol Dehydration and Etherification
Glen R. Jenness, Matthew A. Christiansen, Stavros Caratzoulas,* Dionisios G. Vlachos,* and Raymond J. Gorte
- 12908  [dx.doi.org/10.1021/jp502901z](https://doi.org/10.1021/jp502901z)
Five-Vertex Lanthanide Coordination on Surfaces: A Route to Sophisticated Nanoarchitectures and Tessellations
José I. Urgel, David Ecija,* Willi Auwärter,* Anthoula C. Papageorgiou,* Ari P. Seitsonen, Saranyan Vijayaraghavan, Sushobhan Joshi, Sybille Fischer, Joachim Reichert, and Johannes V. Barth*
- 12916  [dx.doi.org/10.1021/jp5029118](https://doi.org/10.1021/jp5029118)
X-ray-Induced Reversible Switching of an Azobenzene Derivative Adsorbed on Bi(111)
A. Krüger,* M. Bernien, C. F. Hermanns, and W. Kuch*
- 12923  [dx.doi.org/10.1021/jp502917c](https://doi.org/10.1021/jp502917c)
Tuning Energy Level Alignment At Organic/Semiconductor Interfaces Using a Built-In Dipole in Chromophore–Bridge–Anchor Compounds
Sylvie Rangan,* Alberto Batarseh, Keyur P. Chitre, Andrew Kopecky, Elena Galoppini, and Robert Allen Bartynski
- 12929  [dx.doi.org/10.1021/jp5030558](https://doi.org/10.1021/jp5030558)
Aqueous Amino Acids and Proteins Near the Surface of Gold in Hydrophilic and Hydrophobic Force Fields
Grzegorz Nawrocki and Marek Cieplak*
- 12944  [dx.doi.org/10.1021/jp503083k](https://doi.org/10.1021/jp503083k)
Langmuir and Langmuir–Schaefer Films of Poly(3-hexylthiophene) with Gold Nanoparticles and Gold Nanoparticles Capped with 1-Octadecanethiol
Rafaela C. Sanfelice, Vanessa C. Gonçalves, and Débora T. Balogh*

12952

[dx.doi.org/10.1021/jp503208n](https://doi.org/10.1021/jp503208n)

Periodic DFT and Atomistic Thermodynamic Modeling of Reactivity of H₂, O₂, and H₂O Molecules on Bare and Oxygen Modified ZrC (100) Surface

Eric Osei-Agyemang, Jean Francois Paul, Romain Lucas, Sylvie Foucaud, and Sylvain Cristol*

12962



[dx.doi.org/10.1021/jp503280y](https://doi.org/10.1021/jp503280y)

Screening the Formation of Silver Nanoparticles Using a New Reaction Kinetics Multivariate Analysis and Assessing Their Catalytic Activity in the Reduction of Nitroaromatic Compounds

Welman C. Elias, Renato Eising, Tábara R. Silva, Bruno L. Albuquerque, Edmar Martendal, Lidiane Meier, and Josiel B. Domingos*

12972

[dx.doi.org/10.1021/jp5034273](https://doi.org/10.1021/jp5034273)

Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag₃PO₄/Graphene Nanocomposite

Liang Xu, Wei-Qing Huang,* Ling-Ling Wang, Gui-Fang Huang,* and Ping Peng

12980

[dx.doi.org/10.1021/jp505034h](https://doi.org/10.1021/jp505034h)

Palladium Chloride as Seeding and Surfactant Layer to Mediate the Formation of Top Metal Films on Self-Assembled Monolayers

Frederick Chesneau and Michael Zharnikov*

12989

[dx.doi.org/10.1021/jp503585t](https://doi.org/10.1021/jp503585t)

End Effect on Si Nanowire Thermal Conductivity

Weifeng Chen, Wangbing Yu, Riyou Deng, and Gang Ouyang*

12996



[dx.doi.org/10.1021/jp503628m](https://doi.org/10.1021/jp503628m)

Carbon Molecular Sieves: Reconstruction of Atomistic Structural Models with Experimental Constraints

Piotr Kowalczyk,* Artur P. Terzyk, Piotr A. Gauden, Sylwester Furmaniak, Marek Wiśniewski, Andrzej Burian, Lukasz Hawelek, Katsumi Kaneko, and Alexander V. Neimark

13008



[dx.doi.org/10.1021/jp503703f](https://doi.org/10.1021/jp503703f)

The Adsorption Properties of Amorphous, Metal-Decorated Microporous Silsesquioxanes for Mixtures of Carbon Dioxide, Methane and Hydrogen

Nethika S. Suraweera, Craig E. Barnes, and David J. Keffer*

13018



[dx.doi.org/10.1021/jp5037475](https://doi.org/10.1021/jp5037475)

Covalent, Organometallic, and Halogen-Bonded Nanomeshes from Tetrabromo-Terphenyl by Surface-Assisted Synthesis on Cu(111)

Qitang Fan, Cici Wang, Liming Liu, Yong Han, Jin Zhao, Junfa Zhu,* Julian Kuttner, Gerhard Hilt, and J. Michael Gottfried*

13026



[dx.doi.org/10.1021/jp503756g](https://doi.org/10.1021/jp503756g)

Departures from the Adsorption Energy Scaling Relations for Metal Carbide Catalysts

Ronald Michalsky, Yin-Jia Zhang, Andrew J. Medford, and Andrew A. Peterson*


13035  [dx.doi.org/10.1021/jp5043969](https://doi.org/10.1021/jp5043969)
Proton Conduction in a MIL-53(Al) Metal–Organic Framework: Confinement versus Host/Guest Interaction
Emanuel Eisbein, Jan-Ole Joswig,* and Gotthard Seifert

Plasmonics, Optical Materials, and Hard Matter

13042  [dx.doi.org/10.1021/jp409435v](https://doi.org/10.1021/jp409435v)
Dye Aggregation and Complex Formation Effects in 7-(Diethylamino)-coumarin-3-carboxylic Acid
Xiaogang Liu, Jacqueline M. Cole,* Philip C. Y. Chow, Lei Zhang, Yizhou Tan, and Teng Zhao


13052 [dx.doi.org/10.1021/jp412349f](https://doi.org/10.1021/jp412349f)
Plasmon Resonances in Metal Nanoparticles with Sharp Edges and Vertices: A Material Independent Approach
Vasily Klimov,* Guang-Yu Guo,* and M. Pikhota

13059 [dx.doi.org/10.1021/jp5000107](https://doi.org/10.1021/jp5000107)
Shape-Dependent Electronic Excitations in Metallic Chains
Bin Gao,* Kenneth Ruud, and Yi Luo

13070  [dx.doi.org/10.1021/jp501168b](https://doi.org/10.1021/jp501168b)
(Photo)physical Properties of New Molecular Glasses End-Capped with Thiophene Rings Composed of Diimide and Imine Units
Marzena Grucela-Zajac, Katarzyna Bijak, Slawomir Kula, Michal Filapek, Malgorzata Wiacek, Henryk Janeczek, Lukasz Skorka, Jacek Gasiorowski, Kurt Hingerl, Niyazi Serdar Sariciftci, Natalia Nosidlak, Gabriela Lewinska, Jerzy Sanetra, and Ewa Schab-Balcerzak*

13087  [dx.doi.org/10.1021/jp5021033](https://doi.org/10.1021/jp5021033)
Comprehensive Rate Equation Analysis of Upconversion Luminescence Enhancement Due to BaCl₂ Nanocrystals in Neodymium-Doped Fluorozirconate-Based Glass Ceramics
U. Skrzypczak,* C. Pfau, G. Seifert, and S. Schweizer

13099  [dx.doi.org/10.1021/jp502171k](https://doi.org/10.1021/jp502171k)
Resonant Mirror Enhanced Raman Spectroscopy
De-Bo Hu, Chen Chen, and Zhi-Mei Qi*

13107  [dx.doi.org/10.1021/jp503218z](https://doi.org/10.1021/jp503218z)
Förster Resonance Energy Transfer and Laser Efficiency in Colloidal Suspensions of Dye-Doped Nanoparticles: Concentration Effects
Leire Gartzia-Rivero, Luis Cerdán,* Jorge Bañuelos, Eduardo Enciso, Íñigo López Arbeloa, Ángel Costela, and Inmaculada García-Moreno

13118 

[dx.doi.org/10.1021/jp503939z](https://doi.org/10.1021/jp503939z)

Modulating the Self-Assembly of Calix[4]azacrowns to Design Materials with Improved Emission and Stimuli-Responsive Behavior

Issam Oueslati,* José A. Paixão, Vitor H. Rodrigues, Aleksander Shkurenko, Barbara Leśniewska, Kinga Suwinska, M. Ermelinda S. Eusébio, Teresa M. R. Maria, and J. Sérgio Seixas de Melo

Physical Processes in Nanomaterials and Nanostructures

13126 

[dx.doi.org/10.1021/jp411697z](https://doi.org/10.1021/jp411697z)

Selective Separation of BTEX Mixtures Using Metal–Organic Frameworks

Francisco D. Lahoz-Martín, Ana Martín-Calvo, and Sofia Calero*

13137 

[dx.doi.org/10.1021/jp500429b](https://doi.org/10.1021/jp500429b)

Confinement-Induced Growth of Au Nanoparticles Entrapped in Mesoporous TiO₂ Thin Films Evidenced by in Situ Thermo-Ellipsometry

Eduardo D. Martínez, Cédric Boissière, David Grosso, Clément Sanchez, Horacio Troiani, and Galo J. A. A. Soler-Illia*

13152

[dx.doi.org/10.1021/jp501360d](https://doi.org/10.1021/jp501360d)

Effect of Excited-State Structural Relaxation on Midgap Excitations in Co²⁺-Doped ZnO Quantum Dots

Joseph W. May, Jiao Ma, Ekaterina Badaeva, and Xiaosong Li*

13157

[dx.doi.org/10.1021/jp501442h](https://doi.org/10.1021/jp501442h)

Mechanistic Insights Gained by Monitoring Carbon Nanotube/Prussian Blue Nanocomposite Formation With in Situ Electrochemically Based Techniques

Edson Nossol,* Arlene B. S. Nossol, Muhammad E. Abdelhamid, Lisandra L. Martin, Aldo J. G. Zarbin,* and Alan M. Bond*

13168 

[dx.doi.org/10.1021/jp501453m](https://doi.org/10.1021/jp501453m)

Physicochemical Studies of Complex Silver–Magnetite Nanoheterodimers with Controlled Morphology

Oscar Moscoso-Londoño, Diego Muraca,* Pablo Tancredi, Carlos Cosío-Castañeda, Kleber R. Pirota, and Leandro M. Socolovsky

13177

[dx.doi.org/10.1021/jp501570c](https://doi.org/10.1021/jp501570c)

Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure

V. Monteseuro, P. Rodríguez-Hernández, R. Vilaplana, F. J. Manjón, V. Venkatramu, D. Errandonea, V. Lavín, and A. Muñoz*

13186 

[dx.doi.org/10.1021/jp501758b](https://doi.org/10.1021/jp501758b)

Photostrictive/Piezomagnetic Core–Shell Particles Based on Prussian Blue Analogues: Evidence for Confinement Effects?

Morgane Presle, Isabelle Maurin,* Fouad Maroun, Robert Cortès, Lili Lu, Rodaina Sayed Hassan, Eric Larquet, Jean-Michel Guigner, Eric Rivière, Jonathan P. Wright, Jean-Pierre Boilot, and Thierry Gacoin

13196 

[dx.doi.org/10.1021/jp501811z](https://doi.org/10.1021/jp501811z)

Transparent Metal Films for Detection of Single-Molecule Optical Absorption by Scanning Tunneling Microscopy

Lea Nienhaus, Gregory E. Scott, Richard T. Haasch, Sarah Wiegand, Joseph W. Lyding, and Martin Gruebele*

- 13203  [dx.doi.org/10.1021/jp501933k](https://doi.org/10.1021/jp501933k)
Evidence of Ferromagnetic Signal Enhancement in Fe and Co Codoped ZnO Nanoparticles by Increasing Superficial Co³⁺ Content
J. J. Beltrán, C. A. Barrero, and A. Punnoose*
- 13218  [dx.doi.org/10.1021/jp502078t](https://doi.org/10.1021/jp502078t)
Evolution of Magnetic and Structural Properties during Iron Plating of Carbon Nanotubes
Narelle Brack*, Peter Kappen, Andy I. R. Herries, Antony Trueman, and Andrew N. Rider
- 13228  [dx.doi.org/10.1021/jp502327c](https://doi.org/10.1021/jp502327c)
Synthesis and Mechanism of Composition and Size Dependent Morphology Selection in Nanoparticles of Ag–Cu Alloys Processed by Laser Ablation Under Liquid Medium
Kirtiman Deo Malviya and Kamanio Chattopadhyay*
- 13238  [dx.doi.org/10.1021/jp502971j](https://doi.org/10.1021/jp502971j)
Real-Time-Monitoring of the Synthesis of β -NaYF₄:17% Yb,3% Er Nanocrystals Using NIR-to-Visible Upconversion Luminescence
John D. Suter II, Nicholas J. Pekas, Mary T. Berry, and P. Stanley May*
- 13248 [dx.doi.org/10.1021/jp503030b](https://doi.org/10.1021/jp503030b)
Electronic and Magnetic Properties of Vanadium Dichalcogenides Monolayers Tuned by Hydrogenation
Hui Pan*
- 13254 [dx.doi.org/10.1021/jp503034d](https://doi.org/10.1021/jp503034d)
Contrasting Magnetic Properties of Thermally and Chemically Reduced Graphene Oxide
Kousik Bagani, Mayukh K. Ray, Biswarup Satpati, Nihar R. Ray, Manas Sardar, and Sangam Banerjee*
- 13260  [dx.doi.org/10.1021/jp503036y](https://doi.org/10.1021/jp503036y)
Surface-Enhanced Raman Scattering of 4-Aminobenzenethiol on Au Nanorod Ordered Arrays
Alfonso Martin, Andrea Pescaglioni, Carola Schopf, Vittorio Scardaci, Richard Coull, Lorraine Byrne, and Daniela Iacopino*
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Ionic Control on the Morphology of Ytterbium Manganese Oxide Nanorods and Nanoplates in a Surfactant-Free Synthesis and Their Magnetic Properties
Raja Das and Pankaj Poddar*
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Electronic Structure Engineering in ZnSe/CdS Type-II Nanoparticles by Interface Alloying
Klaus Boldt*, Kyra N. Schwarz, Nicholas Kirkwood, Trevor A. Smith, and Paul Mulvaney*

13285 

[dx.doi.org/10.1021/jp5036772](https://doi.org/10.1021/jp5036772)

Unique Interphase and Cross-Linked Network Controlled by Different Miscible Blocks in Nanostructured Epoxy/Block Copolymer Blends Characterized by Solid-State NMR

Xin He, Yuan Liu, Rongchun Zhang, Qiang Wu, Tiehong Chen, Pingchuan Sun,* Xiaoliang Wang, and Gi Xue

13300

[dx.doi.org/10.1021/jp504547z](https://doi.org/10.1021/jp504547z)

Incoherent Quasielastic Neutron Scattering Study of the Relaxation Dynamics in Molybdenum-Oxide Keplerate-Type Nanocages


Antonio Faraone,* Emiliano Fratini, Somenath Garai, Achim Müller, Madhusudan Tyagi, Timothy Jenkins, Eugene Mamontov, Rick L. Paul, John R. D. Copley, and Piero Baglioni*

13313

[dx.doi.org/10.1021/jp504698w](https://doi.org/10.1021/jp504698w)

Liquid-Phase Parahydrogen-Induced Polarization (PHIP) with Ligand-Capped Platinum Nanoparticles

Muhammad Irfan, Nan Eshuis, Peter Spanning, Marco Tessari, Martin C. Feiters,* and Floris P. J. T. Rutjes

13320 

[dx.doi.org/10.1021/jp504813v](https://doi.org/10.1021/jp504813v)

Self-Assembly and Orbital Imaging of Metal Phthalocyanines on a Graphene Model Surface

Päivi Järvinen, Sampsa K. Hämäläinen, Mari Ijäs, Ari Harju, and Peter Liljeroth*

Additions and Corrections

13326

[dx.doi.org/10.1021/jp504928a](https://doi.org/10.1021/jp504928a)

Correction to "Localized Electronic States from Surface Hydroxyls and Polarons in $\text{TiO}_2(110)$ ", "Defining the Role of Excess Electrons in the Surface Chemistry of TiO_2 ", and "Distribution of Ti^{3+} Surface Sites in Reduced TiO_2 "

N. Aaron Deskins,* Roger Rousseau, and Michel Dupuis