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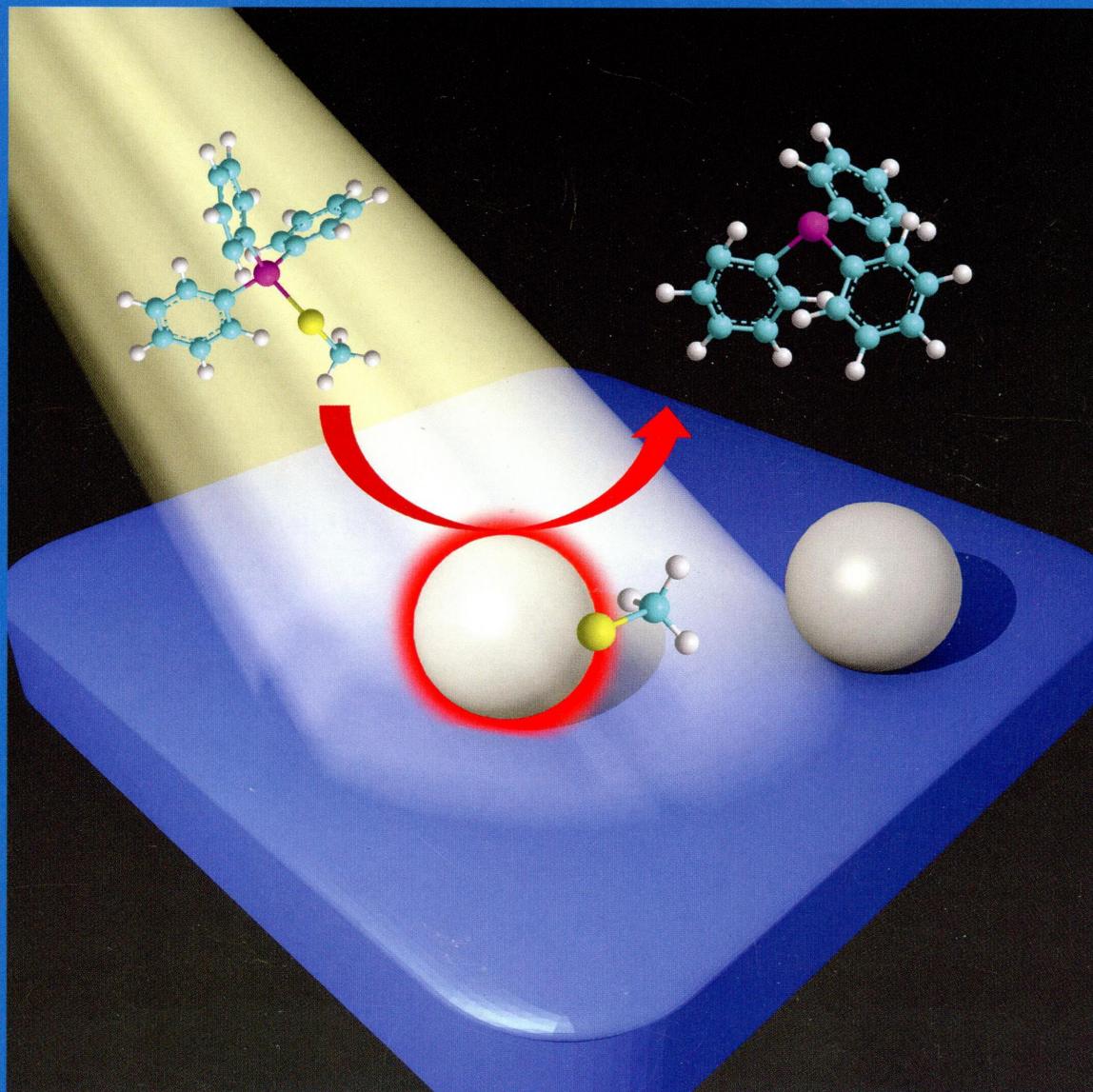
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# THE JOURNAL OF PHYSICAL CHEMISTRY

C



Surface-Plasmon-Mediated Photothermal Heating Induces Chemical Reaction on a Plasmonic Silver Nanoparticle (see page 20735)

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



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**ON THE COVER:** Surface-plasmon-mediated photothermal heating induces chemical reaction on a plasmonic silver nanoparticle. Surface plasmon resonance (SPR)-induced photothermal heating has garnered a substantial amount of research interest across various disciplines. Both theoretical and experimental studies demonstrate that the surface temperature generated via the SPR excitation can prompt various chemical reactions on the nanoscale. Photothermal heating can be further manipulated to facilitate the fabrication of nanomaterial, paving a new way for a wide range of applications based on SPR-mediated photothermal chemistry. See page 20735.

## Feature Article

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[dx.doi.org/10.1021/jp5042553](https://doi.org/10.1021/jp5042553)

### Surface Plasmon-Mediated Photothermal Chemistry

Jingjing Qiu and Wei David Wei\*

## Articles

### Energy Conversion and Storage; Energy and Charge Transport

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[dx.doi.org/10.1021/jp5029273](https://doi.org/10.1021/jp5029273)

### Spectroscopic X-ray Diffraction for Microfocus Inspection of Li-Ion Batteries

Haruno Murayama,\* Koji Kitada, Katsutoshi Fukuda, Akio Mitsui, Koji Ohara, Hajime Arai, Yoshiharu Uchimoto, Zempachi Ogumi, and Eiichiro Matsubara

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[dx.doi.org/10.1021/jp503953n](https://doi.org/10.1021/jp503953n)

### Influences of Additives on the Formation of a Solid Electrolyte Interphase on MnO Electrode Studied by Atomic Force Microscopy and Force Spectroscopy

Jie Zhang, Xiaocheng Yang, Rui Wang, Weiling Dong, Wei Lu,\* Xiaodong Wu, Xiaoping Wang, Hong Li, and Liwei Chen\*

20763

[dx.doi.org/10.1021/jp5049953](https://doi.org/10.1021/jp5049953)

### Design of Efficient Metal-Free Organic Dyes Having an Azacyclazine Scaffold as the Donor Fragment for Dye-Sensitized Solar Cells


Abul Kalam Biswas, Sunimal Barik, Anik Sen, Amitava Das,\* and Bishwajit Ganguly\*

20772

[dx.doi.org/10.1021/jp5053453](https://doi.org/10.1021/jp5053453)

### Simple Method to Relate Experimental Pore Size Distribution and Discharge Capacity in Cathodes for Li/O<sub>2</sub> Batteries

Mara Olivares-Marín, Pablo Palomino, Eduardo Enciso, and Dino Tonti\*

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[dx.doi.org/10.1021/jp506066p](https://doi.org/10.1021/jp506066p)

**Major Difference in Visible-Light Photocatalytic Features between Perfect and Self-Defective Ta<sub>3</sub>N<sub>5</sub> Materials: A Screened Coulomb Hybrid DFT Investigation**

Moussab Harb,\* Luigi Cavallo, and Jean-Marie Basset

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[dx.doi.org/10.1021/jp506179z](https://doi.org/10.1021/jp506179z)

**Highly Efficient Molecular Cobalt Electrode for (Photo)electrochemical Hydrogen Evolution**


Xuejiao Chen, Huan Ren, Wei Peng, Huiming Zhang, Juntao Lu, and Lin Zhuang\*

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[dx.doi.org/10.1021/jp506269h](https://doi.org/10.1021/jp506269h)

**Directionality of Ultrafast Electron Transfer in a Hydrogen Evolving Ru–Pd-Based Photocatalyst**

Qing Pan, Francesco Mecozzi, Jeroen P. Korterik, Divya Sharma, Jennifer L. Herek, Johannes G. Vos, Wesley R. Browne, and Annemarie Huijser\*

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[dx.doi.org/10.1021/jp506481u](https://doi.org/10.1021/jp506481u)

**Quasi-Solid Semi-Interpenetrating Polymer Networks as Electrolytes: Part III. Probing the Mechanism of Ionic Charge Transport Employing Temperature-Step Electrochemical Impedance Spectroscopy**

Nimai Bar and Pratyay Basak\*

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[dx.doi.org/10.1021/jp5065787](https://doi.org/10.1021/jp5065787)

**Improvement of Magnetodielectric Coupling by Surface Functionalization of Nickel Nanoparticles in Ni and Polyvinylidene Fluoride Nanohybrids**

Balaji P Mandal,\* Katari Vasundhara, Ehab Abdelhamid, Gavin Lawes, Hemant G. Salunke, and Avesh K. Tyagi\*

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[dx.doi.org/10.1021/jp5066693](https://doi.org/10.1021/jp5066693)

**A Solar Thermoelectric Conversion Material Based on Bi<sub>2</sub>Te<sub>3</sub> and Carbon Nanotube Composites**

Dan Xia, Changhong Liu,\* and Shoushan Fan


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[dx.doi.org/10.1021/jp507568p](https://doi.org/10.1021/jp507568p)

**Pore Confined Synthesis of Magnesium Boron Hydride Nanoparticles**

Yuen S. Au, Yigang Yan, Krijn P. de Jong, Amdt Remhof, and Petra E. de Jongh\*

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[dx.doi.org/10.1021/jp412438f](https://doi.org/10.1021/jp412438f)

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Sung-Sik Lee, Bongsoo Kim,\* and Sungul Lee\*

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- 20858 [dx.doi.org/10.1021/jp503757l](https://doi.org/10.1021/jp503757l)  
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- 20899 [dx.doi.org/10.1021/jp504799p](https://doi.org/10.1021/jp504799p)  
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- 20908 [dx.doi.org/10.1021/jp505166a](https://doi.org/10.1021/jp505166a)  
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- 20916 [dx.doi.org/10.1021/jp505310y](https://doi.org/10.1021/jp505310y)  
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- 20927 [dx.doi.org/10.1021/jp505428a](https://doi.org/10.1021/jp505428a)  
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- 20940  [dx.doi.org/10.1021/jp506597h](https://doi.org/10.1021/jp506597h)  
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- 20970  [dx.doi.org/10.1021/jp505894p](https://doi.org/10.1021/jp505894p)  
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- 20982  [dx.doi.org/10.1021/jp505921s](https://doi.org/10.1021/jp505921s)  
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- 21006  [dx.doi.org/10.1021/jp506320z](https://doi.org/10.1021/jp506320z)  
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- 21014  [dx.doi.org/10.1021/jp506404z](https://doi.org/10.1021/jp506404z)  
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**Adsorption of Pyridine over Amino-Functionalized Metal-Organic Frameworks: Attraction via Hydrogen Bonding versus Base-Base Repulsion**  
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21057 [dx.doi.org/10.1021/jp5078888](https://doi.org/10.1021/jp5078888)  
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**Self-Assembly of Calcium Carbonate Nanoparticles in Water and Hydrophobic Solvents**  
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21104  [dx.doi.org/10.1021/jp506479e](https://doi.org/10.1021/jp506479e)

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21199 [dx.doi.org/10.1021/jp5059947](https://doi.org/10.1021/jp5059947)  
**Spin-Polarized Negative Differential Resistance in a Self-Assembled Molecular Chain**  
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21204  [dx.doi.org/10.1021/jp506035h](https://doi.org/10.1021/jp506035h)  
**Molecular Assembly and Ferroelectric Response of Benzenecarboxamides Bearing Multiple –CONHC<sub>14</sub>H<sub>29</sub> Chains**  
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21215  [dx.doi.org/10.1021/jp506192d](https://doi.org/10.1021/jp506192d)  
**Solvation of Inorganic Nitrate Salts in Protic Ionic Liquids**  
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21235 [dx.doi.org/10.1021/jp506238s](https://doi.org/10.1021/jp506238s)  
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21244  [dx.doi.org/10.1021/jp5063447](https://doi.org/10.1021/jp5063447)  
**Surface Modification of ITO Nanoparticles by Trimesic Acid: A Combined Experimental and DFT Study**  
Zhangxian Chen, Qingfan Zhang, Liang Huang, Ran Li, Wanchao Li, Guoqin Xu,\* and Hansong Cheng\*



21250  [dx.doi.org/10.1021/jp5063989](https://doi.org/10.1021/jp5063989)

**Mn<sup>2+</sup> Substitutional Doping of TiO<sub>2</sub> Nanoribbons: A Three-Step Approach**

Polona Umek,\* Carla Bittencourt, Peter Guttmann, Alexandre Gloter, Srečo D. Škapin, and Denis Arčon

21258  [dx.doi.org/10.1021/jp506964m](https://doi.org/10.1021/jp506964m)

**Photoluminescence Quenching in Single-Layer MoS<sub>2</sub> via Oxygen Plasma Treatment**

Narae Kang, Hari P. Paudel, Michael N. Leuenberger, Laurene Tetard,\* and Saiful I. Khondaker\*

21264  [dx.doi.org/10.1021/jp507093t](https://doi.org/10.1021/jp507093t)

**Versatile Electronic Properties of VSe<sub>2</sub> Bulk, Few-Layers, Monolayer, Nanoribbons, and Nanotubes: A Computational Exploration**

Fengyu Li, Kaixiong Tu, and Zhongfang Chen\*

21275 [dx.doi.org/10.1021/jp507156p](https://doi.org/10.1021/jp507156p)

**Effect of Gold Nanoparticles on Photoexcited Charge Carriers in Powdered TiO<sub>2</sub>—Long Range Quenching of Photoluminescence**

Ana Stevanovic, Shiliang Ma, and John T. Yates Jr.\*

21281 [dx.doi.org/10.1021/jp507264g](https://doi.org/10.1021/jp507264g)

**Adjusting Nitrogen Doping Level in Titanium Dioxide by Codoping with Tungsten: Properties and Band Structure of the Resulting Materials**

Jonathan Z. Bloh, Andrea Folli, and Donald E. Macphee\*

21293 [dx.doi.org/10.1021/jp507319r](https://doi.org/10.1021/jp507319r)

**Self-Organized Hexagonal Nanostructures on Nickel and Steel Formed by Anodization in 1-Butyl-3-methylimidazolium bis(triflate)imide Ionic Liquid**

Olga Lebedeva,\* Igor Kudryavtsev, Dmitry Kultin, Gilyana Dzhungurova, Konstantin Kalmykov, and Leonid Kustov

## Additions and Corrections

21299 [dx.doi.org/10.1021/jp5081912](https://doi.org/10.1021/jp5081912)

**Correction to "Effect of Nonelectrostatic Ion Interactions on Surface Forces Involving Ion Adsorption Equilibria"**

Vivianne Deniz and Drew F. Parsons\*