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2014-05-08

## 内容

- **Elsevier出版社及ScienceDirect简介**
- **ScienceDirect的使用**
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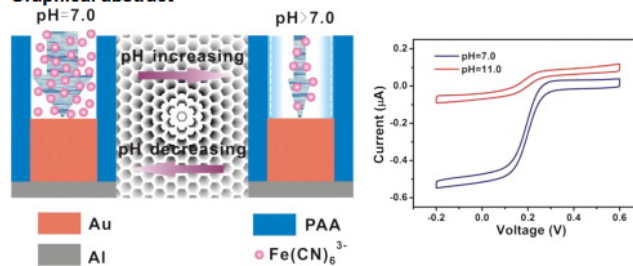
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Pages 1-10

Nengwang Chen, Jiezhong Wu, Zhuohong Chen, Ting Lu, Longjian Wang

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### Abstract

The spatio-temporal pattern of excess  $N_2$  production due to denitrification and gaseous nitrogen (N) removal via  $N_2$  emission were investigated for a large agricultural river (the Jiulong River) in southeast China. During 2010–2011, direct measurement of excess dissolved  $N_2$  ( $\Delta N_2$ , denitrification product) using the  $N_2$ :Ar

24 to 71  $\mu\text{mol } N_2 \text{ L}^{-1}$  i

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Fig. 1.

Map of the Jiulong River North River (N5–N15), and West River were defined

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### References

Arce et al., 2013 M.I. Arce, R. Gomez, M.L. Suarez, M.R. Vidal-Abarca

**Denitrification rates and controlling factors in two agriculturally influenced temporary Mediterranean saline streams**

Hydrobiologia, 700 (2013), pp. 169–185

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Baxter et al., 2013 A.M. Baxter, L. Johnson, T. Royer, L.G. Leff

**Spatial differences in denitrification and bacterial community structure of streams: relationships with environmental conditions**

Aquat. Sci., 75 (2013), pp. 275–284

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Beaulieu et al., 2011 J.J. Beaulieu, J.L. Tank, S.K. Hamilton, W.M. Wollheim, R.O. Hall, P.J. Mulholland, B.J. Peterson, L.R. Ashkenas, L.W. Cooper, C.N. Dahm, W.K. Dodds, N.B. Grimm, S.L. Johnson, W.H. McDowell, G.C. Poole, H.M. Valett, C.P. Arango, M.J. Bernot, A.J. Burgin, C.L. Crenshaw, A.M. Helton, L.T. Johnson, J.M. O'Brien, J.D. Potter, R.W. Sheibley, D.J. Sobota, S.M. Thomas

**Nitrous oxide emission from denitrification in stream and river networks**



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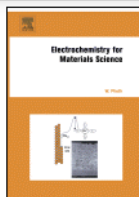
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This book provides a good introduction into electrochemistry for the graduate student. For the research student as well as for the advanced reader there is sufficient information on the basic problems in special chapters. The book is suitable for students and researchers in chemistry, physics, engineering, as well as materials science.

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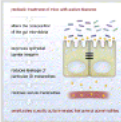
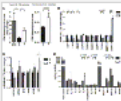
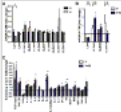
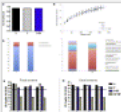
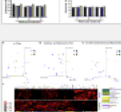
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Cell

Volume 155, Issue 7, 19 December 2013, Pages 1451–1463

Article

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Elaine Y. Hsiao<sup>1,2</sup>, Sara W. McBride<sup>1</sup>, Sophia Hsien<sup>1</sup>, Gil Sharon<sup>1</sup>, Embriette R. Hyde<sup>3</sup>, Tyler McCue<sup>3</sup>, Julian A. Codelli<sup>2</sup>, Janet Chow<sup>1</sup>, Sarah E. Reisman<sup>2</sup>, Joseph F. Petrosino<sup>3</sup>, Paul H. Patterson<sup>1,4</sup>, Sarkis K. Mazmanian<sup>1,4</sup>

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Received 20 August 2013, Revised 3 October 2013, Accepted 18 November 2013, Available online 5 December 2013

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electrochemical storage systems has been demonstrated for both wind and photovoltaic REPs [1]. The efficacy of batteries in REPs is directly related to their content in energy efficiency and lifetime. Indeed, in virtue of their high value of energy efficiency, lithium batteries are expected to provide an energy return factor higher than that assured by conventional batteries, e.g. lead-acid batteries [2].

In addition to REPs, lithium ion batteries are also seen as the power sources of choice for sustainable transport because they are considered the best options which can effectively guarantee the progressive diffusion of HEVs, PHEVs, and BEVs at high levels [3]. In HEVs the synergic combination of ICE with an

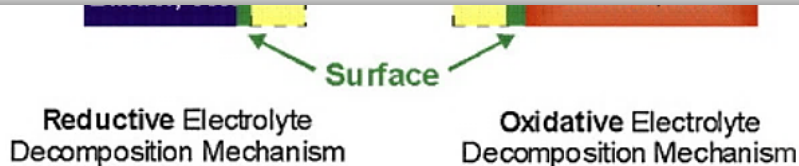


Fig. 5.

Operational principle of SEI formation in a C/LiCoO<sub>2</sub> lithium ion battery. Taken from "Report of the Basic Energy Science Workshop on Electric Energy Storage", Department of Energy, USA, [http://www.sc.doe.gov/bes/reports/files/EES\\_rpt.pdf](http://www.sc.doe.gov/bes/reports/files/EES_rpt.pdf).

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C.J. Rydh, B.A. Sandén

Energ. Convers. Manage., 46 (2005), p. 1957 1980

Abstract

The technical performance and energy requirements for production and transportation of a stand alone photovoltaic (PV)-battery system at different operating conditions are presented. Eight battery technologies are evaluated: lithium-ion (Li-ion), sodium-sulphur (NaS), nickel-cadmium (NiCd), nickel-metal hydride (NiMH), lead-acid (PbA), vanadium-redox (VRB), zinc-bromine (ZnBr) and polysulfide-bromide (PSB). In the reference case, the energy requirements for production and transport of PV-battery systems that use the different battery technologies differ by up to a factor of three. Production and transport of batteries contribute 24–70% to the energy requirements, and the PV array contributes 26–68%. The contribution from other system components is less than 10%. The contribution of transport to energy requirements is 1–9% for transportation by truck, but may be up to 73% for air transportation. The energy requirement for battery production and transport is dominant for systems based on NiCd, NiMH and PbA batteries. The energy

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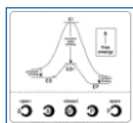
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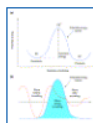
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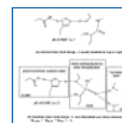
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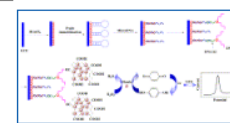


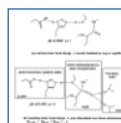
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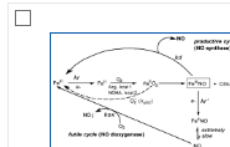


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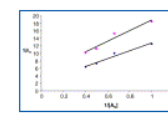


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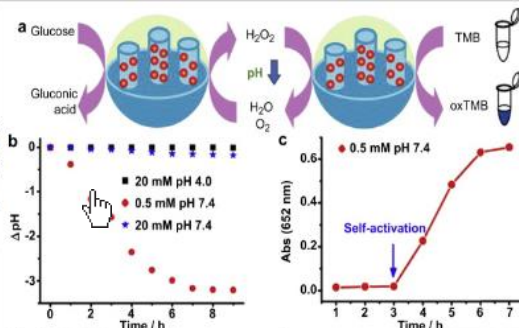
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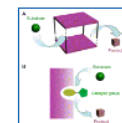
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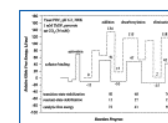
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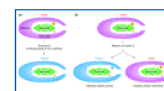
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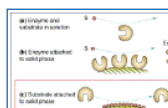


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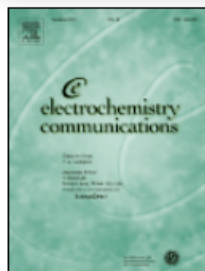
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Alert name	Alert view	Alert frequency	Topic feed
<input type="checkbox"/> Analytical Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input checked="" type="checkbox"/> Electrochemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Inorganic Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Nanoscience and Technology - Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Organic Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Spectroscopy	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Theoretical Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	



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# 管理个人提醒(My alerts)

## 检索提醒

### Search alerts

[Add search alert](#)

Alert name	Alert view	Alert frequency	Alert actions	Search feed
TITLE-ABSTR-KEY(buffer layer) and TITLE-ABSTR-KEY(solar)	<a href="#">Latest results</a>   <a href="#">Archive</a>	Weekly	<a href="#">Modify</a>   <a href="#">Delete</a>	
ZnO in solar cells	<a href="#">Latest results</a>   <a href="#">Archive</a>	Weekly	<a href="#">Modify</a>   <a href="#">Delete</a>	
Douglas-cancer cell-transgenic mice	<a href="#">Latest results</a>   <a href="#">Archive</a>	Weekly	<a href="#">Modify</a>   <a href="#">Delete</a>	
Douglas-cancer cell-transgenic mice	<a href="#">Latest results</a>   <a href="#">Archive</a>	Weekly	<a href="#">Modify</a>   <a href="#">Delete</a>	

\* Search Alerts will be set to inactive if they are not used for an extended period of time. Click on Modify link to activate an Inactive Search Alert.

If you are unsure of how to create a Search Alert, please try one of our pre-made [Topic Alerts](#).

## 主题提醒

### Topic alerts

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[Add/Delete topic alerts](#)

Alert name	Alert view	Alert frequency	Alert actions	Topic feed
Electrochemistry	<a href="#">Latest results</a>   <a href="#">Archive/Details</a>	Weekly	<a href="#">Delete</a>	

## 期刊/丛书提醒

### Journal and book-series alerts

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Alert name	Publication type	Alert view	Alert frequency	Alert actions	Article feed
<a href="#">Applied Surface Science</a>	Journal	<a href="#">Articles in Press</a>   <a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Cell</a>	Journal	<a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Electrochemistry Communications</a>	Journal	<a href="#">Articles in Press</a>   <a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Interface Science and Technology</a>	Book Series	<a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Progress in Surface Science</a>	Journal	<a href="#">Articles in Press</a>   <a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Studies in Surface Science and Catalysis</a>	Book Series	<a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Surface Science</a>	Journal	<a href="#">Articles in Press</a>   <a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Thin Solid Films</a>	Journal	<a href="#">Articles in Press</a>   <a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	

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*Tetrahedron*, Volume 61, Issue 52, Pages 12227-12237  
Yeom, C.E.; Kim, Y.J.; Lee, S.Y.; Shin, Y.J.; Kim, B.M.  
[Cited by Scopus \(10\)](#)
2. **Recent advances in graphene based polymer composites** • Review article  
*Progress in Polymer Science*, Volume 35, Issue 11, Pages 1350-1375  
Kuilia, T.; Bhadra, S.; Yao, D.; Kim, N.H.; Bose, S.; Lee, J.H.  
[Cited by Scopus \(364\)](#)
3. **Surface modification of inorganic nanoparticles for development of organic-inorganic nanocomposites-A review** • Review article  
*Progress in Polymer Science*  
Kango, S.; Kalia, S.; Celli, A.; Njuguna, J.; Habibi, Y.; Kumar, R.
4. **The surface science of titanium dioxide** • Review article  
*Surface Science Reports*, Volume 48, Issue 5-8, Pages 53-229  
Diebold, U.  
[Cited by Scopus \(2387\)](#)
5. **Surface plasmon resonance sensors: review** • Article  
*Sensors and Actuators B: Chemical*, Volume 54, Issue 1-2, Pages 3-15  
Homola, J.; Yee, S.S.; Gauglitz, G.
6. **Carbon nanotube-polymer composites: Chemistry, processing, mechanical and electrical properties** • Review article  
*Progress in Polymer Science*, Volume 35, Issue 3, Pages 357-401  
Spitalsky, Z.; Tasis, D.; Papagelis, K.; Galiotis, C.  
[Cited by Scopus \(516\)](#)
7. **Some organo-compounds of calcium, strontium and barium** • Article  
*Journal of Organometallic Chemistry*, Volume 32, Issue 3, Pages 279-284  
F.A.; M.A.  
[Cited by Scopus \(16\)](#)
8. **TiO<sub>2</sub> photocatalysis and related surface phenomena** • Review article  
*Surface Science Reports*, Volume 63, Issue 12, Pages 515-562  
Fujishima, A.; Zhang, X.; Tryk, D.A.  
[Cited by Scopus \(1438\)](#)
9. **TiO<sub>2</sub> photocatalysis: Design and applications** • Review article  
*Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, Volume 13, Issue 3, Pages 169-189  
Nakata, K.; Fujishima, A.  
[Cited by Scopus \(78\)](#)
10. **Organic-inorganic hybrid solar cells: A comparative review** • Review article  
*Solar Energy Materials and Solar Cells*, Volume 107, Pages 87-111  
Wright, M.; Uddin, A.
11. **A review of chitin and chitosan applications** • Review article  
*Reactive and Functional Polymers*, Volume 46, Issue 1, Pages 1-27  
Ravi Kumar, M.N.  
[Cited by Scopus \(1316\)](#)
12. **Polymer nanoparticles: Preparation techniques and size-control parameters** • Review article  
*Progress in Polymer Science*, Volume 35, Issue 11, Pages 1350-1375  
Kuilia, T.; Bhadra, S.; Yao, D.; Kim, N.H.; Bose, S.; Lee, J.H.  
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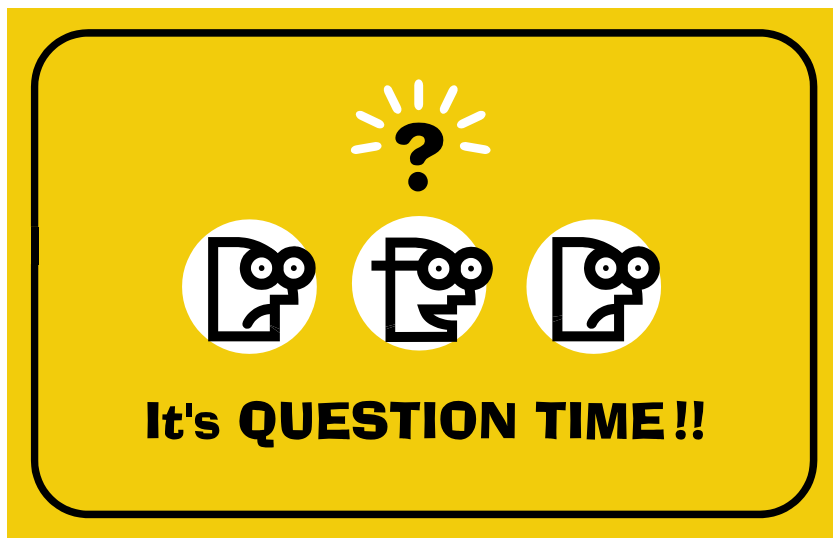
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