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August 15, 2011

Volume 45, Issue 16

Pages 6709-7098

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About the Cover:

Satellite imagery juxtaposes the Exxon Valdez spill in 1989 and the BP Deepwater Horizon spill in 2010. Both spills benefited from oil degrading microorganisms lessening the potential environmental impact. In this issue's Feature, Atlas and Hazen summarize the differences between the two oil spills, address advances in technology and molecular biology between 1989 and 2010 of relevance to oil spills, and speak to bioremediation considerations as a potential guidepost for lessons for the future. Cover design by Jeff Ward. [View the article.](#)

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Features

Oil Biodegradation and Bioremediation: A Tale of the Two Worst Spills in U.S. History

Ronald M. Atlas , Terry C. Hazen

pp 6709-6715

Publication Date (Web): June 23, 2011 (Feature)

DOI: 10.1021/es2013227

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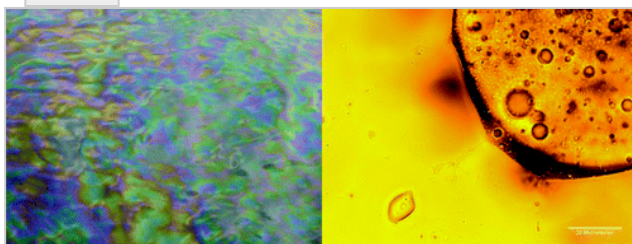



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Critical Reviews

Organic Contamination of Settled House Dust, A Review for Exposure Assessment Purposes [Abstract](#) | [Supporting Info](#)

Fabien Mercier, Philippe Glorennec, Olivier Thomas, and Barbara Le Bot

pp 6716-6727

Publication Date (Web): June 13, 2011 (Critical Review)

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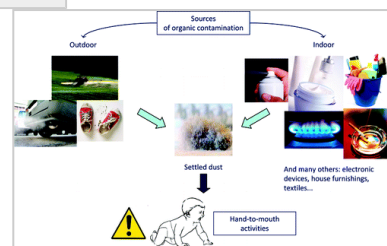


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Policy Analysis

Assessing Equitable Access to Urban Green Space: The Role of Engineered Water Infrastructure

Heather E. Wright Wendel, Joni A. Downs, and James R. Mihelcic

pp 6728-6734

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Contribution of Anaerobic Digesters to Emissions Mitigation and Electricity Generation Under U.S. Climate Policy

David P. M. Zaks, Niven Winchester, Christopher J. Kucharik, Carol C. Barford, Sergey Paltsev, and John M. Reilly

pp 6735-6742

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Influencing Attitudes toward Carbon Capture and Sequestration: A Social Marketing

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Gabrielle Wong-Parodi, Hadi Dowlatabadi, Tim McDaniels, and Isha Ray

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Occurrence and Mass Balance of Isoflavones on an Experimental Grassland Field

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Corinne C. Hoerger, Felix E. Wettstein, Hans Jörg Bachmann, Konrad Hungerbühler, and Thomas D. Bucheli

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Publication Date (Web): June 28, 2011 ([Article](#))

DOI: 10.1021/es200567b

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High Levels of Bisphenol A in Paper Currencies from Several Countries, and Implications for Dermal Exposure

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Chunyang Liao and Kurunthachalam Kannan

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Chemical Characterization and Redox Potential of Coarse and Fine Particulate Matter (PM) in Underground and Ground-Level Rail Systems of the Los Angeles Metro

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Winnie Kam, Zhi Ning, Martin M. Shafer, James J. Schauer, and Constantinos Sioutas

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Hypoxia Is Increasing in the Coastal Zone of the Baltic Sea

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Daniel J. Conley, Jacob Carstensen, Juris Aigars, Philip Axe, Erik Bonsdorff, Tatjana Eremina, Britt-Marie Haahti,

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Axel M ller, Zhiyong Xie, Minghong Cai, Guangcai Zhong, Peng Huang, Minggang Cai, Renate Sturm, Jianfeng He, and Ralf Ebinghaus

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Transformation of the Recalcitrant Pharmaceutical Compound Carbamazepine by *Pleurotus ostreatus*: Role of Cytochrome P450 Monooxygenase and Manganese Peroxidase

Naama Golan-Rozen, Benny Chefetz, Julius Ben-Ari, Joseph Geva, and Yitzhak Hadar

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Jennifer L. Nelson, Jennifer M. Fung, Hinsby Cadillo-Quiroz, Xu Cheng, and Stephen H. Zinder

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Teng Zeng, Kate L. Ziegelgruber, Yu-Ping Chin, and William A. Arnold

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Jia-Zhong Zhang and Xiao-Lan Huang





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Perry L. McCarty and Jaeho Bae





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Britta Planer-Friedrich and Andreas C. Scheinost

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Wentao Wang, Narumol Jariyasopit, Jill Schrlau, Yuling Jia, Shu Tao, Tian-Wei Yu, Roderick H. Dashwood, Wei

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William A. Adams, Ying Xu, John C. Little, Anthony F. Fristachi, Glenn E. Rice, and Christopher A. Impellitteri

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Tran B. Nguyen , Julia Laskin , Alexander Laskin , Sergey A. Nizkorodov

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Sasha Madronich, Mark Wagner, and Philip Groth

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Process-Based Reactive Transport Model To Quantify Arsenic Mobility during Aquifer Storage and Recovery of Potable Water

Ilka Wallis, Henning Prommer, Thomas Pichler, Vincent Post, Stuart B. Norton, Michael D. Annable, and Craig T. Simmons

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Mercury(II) Exchange by Highly Charged Swelling Micas, Sodium Engelhard Titanosilicate-4, and Sodium Titanosilicate





Young Dong Noh and Sridhar Komarneni

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Remediation of Fungicide Residues on Fresh Produce by Use of Gaseous Ozone





Spencer S. Walse and Hakan Karaca

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Plasma Surface Modified TiO₂ Nanoparticles: Improved Photocatalytic Oxidation of Gaseous

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Sulak Sumitsawan, Jai Cho, Melanie L. Sattler, and Richard B. Timmons

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Jee Yeon Kim, Changha Lee, David C. Love, David L. Sedlak, Jeyong Yoon, and Kara L. Nelson

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Use of Olive Biomass Fly Ash in the Preparation of Environmentally Friendly Mortars

Manuel Cruz-Yusta, Isabel Marmol, Julián Morales, and Luis Sánchez

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Travis S. Schmidt, William H. Clements, Robert E. Zuellig, Katharine A. Mitchell, Stanley E. Church, Richard B. Wanty, Carma A. San Juan, Monique Adams, and Paul J. Lamothe





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Jordana L. Van Geest, Donald Mackay, David G. Poirier, Paul K. Sibley, and Keith R. Solomon





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Dietary Exposure to Short-Chain Chlorinated Paraffins Has Increased in Beijing, China

Kouji H. Harada, Takumi Takasuga, Toshiaki Hitomi, Peiyu Wang, Hidenori Matsukami, and Akio Koizumi

pp 7019-7027

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Lara P. Clark, Dylan B. Millet, and Julian D. Marshall

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Giorgio Honsell, Marco De Bortoli, Sabrina Boscolo, Carmela Dell'Aversano, Cecilia Battocchi, Giampaolo

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Aurelia Tubaro

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Laura B. Brentner, Matthew J. Eckelman, and Julie B. Zimmerman





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