

[Journal Home](#) | [ASAP Articles](#) | [Search Journals](#)

Table of Contents

Environmental Science & Technology

[ASAP Articles](#)

Issue: [Previous](#) / [Next](#)



[Download Selected Cit](#)

Select Decade Select Volume Select Issue Number

Environmental Science & Technology reports on aspects of the environment and its protection by scientific, engineering, and political means.

 [Display printer-friendly version](#)

Environmental Science & Technology
Table of Contents
Vol. 40, No. 3: February 1, 2006

Citation Management

[Learn More](#)

COMMENT

Endangered Species Act revisited

Jerald L. Schnoor
p 631

[HTML](#) [PDF](#)

NEWS

3-D modeling substantiates perfluorinated theory

Rebecca Renner
pp 632 - 633

[HTML](#) [PDF](#)

Microbes turn waste into a nanocatalyst

Anke Schaefer
pp 633 - 634

[HTML](#) [PDF](#)

Climate changes insurance | Sustainable chemistry | Ecosystem degradation wears on human health | Europe grapples with unsustainable consumption | Hydrogen cars are the future
pp 633 - 637

[HTML](#) [PDF](#)

Arsenic-treated wood may have a toxic legacy

Kris Christen
pp 634 - 635

[HTML](#) [PDF](#)

Robot chemists push aside decades-old water quality analysis tool

Kris Christen
p 636

[HTML](#) [PDF](#)

Naturally occurring asbestos linked to cancer

Rebecca Renner
pp 636 - 637

[HTML](#) [PDF](#)

Early-warning system may help coral reefs recover from bleaching

Janet Pelley
p 638

[HTML](#) [PDF](#)

TECHNOLOGY SOLUTIONS

Desalination technology could clean up wastewater from coal-bed methane production

Kris Christen
p 639

[HTML](#) [PDF](#)

GOVERNMENT WATCH

EU floats a big idea to fight illegal logging

Maria Burke
p 640

[HTML](#) [PDF](#)

California leads the U.S. in curbing ship emissionsKris Christen
p 640[HTML](#) [PDF](#)

Select Citation

[Feedback](#) [Purchase](#)**Is Cumulative Fossil Energy Demand a Useful Indicator for the Environmental Performance of Products?**Mark A. J. Huijbregts, Linda J. A. Rombouts, Stefanie Hellweg, Rolf Frischknecht, A. Jan Hendriks, Dik van de Meent, Ad M. J. Ragas, Lucas Reijnders, and Jaap Struijs
pp 641 - 648; **(Policy Analysis)** DOI: [10.1021/es051689g](https://doi.org/10.1021/es051689g)[Abstract](#) Full: [HTML](#) / [PDF](#) (313K) [Supporting Info](#)

Select Citation

[Feedback](#) [Purchase](#)**Biosolids—A Fuel or a Waste? An Integrated Appraisal of Five Co-combustion Scenarios with Policy Analysis**Elise Cartmell, Peter Gostelow, Drusilla Riddell-Black, Nigel Simms, John Oakey, Joe Morris, Paul Jeffrey, Peter Howsam, and Simon J. Pollard
pp 649 - 658; **(Policy Analysis)** DOI: [10.1021/es052181g](https://doi.org/10.1021/es052181g)[Abstract](#) Full: [HTML](#) / [PDF](#) (693K) [Supporting Info](#)

Select Citation

[Feedback](#) [Purchase](#)**Murre Eggs (*Uria aalge* and *Uria lomvia*) as Indicators of Mercury Contamination in the Alaskan Marine Environment**Rusty D. Day, Stacy S. Vander Pol, Steven J. Christopher, W. Clay Davis, Rebecca S. Pugh, Kristin S. Simac, David G. Roseneau, and Paul R. Becker
pp 659 - 665; **(Article)** DOI: [10.1021/es051064i](https://doi.org/10.1021/es051064i)[Abstract](#) Full: [HTML](#) / [PDF](#) (405K)

Select Citation

[Feedback](#) [Purchase](#)**Characterization of Water-Soluble Organic Carbon in Urban Atmospheric Aerosols Using Solid-State ¹³C NMR Spectroscopy**Poulomi Sannigrahi, Amy P. Sullivan, Rodney J. Weber, and Ellery D. Ingall
pp 666 - 672; **(Article)** DOI: [10.1021/es051150i](https://doi.org/10.1021/es051150i)[Abstract](#) Full: [HTML](#) / [PDF](#) (160K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Spatial and Temporal Variability of Arsenic Solid-State Speciation in Historically Lead Arsenate Contaminated Soils**Yuji Arai, A. Lanzirrotti, S. R. Sutton, Matthew Newville, J. Dyer, and D. L. Sparks
pp 673 - 679; **(Article)** DOI: [10.1021/es051266e](https://doi.org/10.1021/es051266e)[Abstract](#) Full: [HTML](#) / [PDF](#) (353K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Response of Sulfate Concentration and Isotope Composition in Icelandic Rivers to the Decline in Global Atmospheric SO₂ Emissions into the North Atlantic Region**Sigurdur Reynir Gislason and Peter Torssander
pp 680 - 686; **(Article)** DOI: [10.1021/es051325o](https://doi.org/10.1021/es051325o)[Abstract](#) Full: [HTML](#) / [PDF](#) (359K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Seasonal Variations in Concentrations of Pharmaceuticals and Personal Care Products in Drinking Water and Reclaimed Wastewater in Southern California**Gregory A. Loraine and Mark E. Pettigrove
pp 687 - 695; **(Article)** DOI: [10.1021/es051380x](https://doi.org/10.1021/es051380x)[Abstract](#) Full: [HTML](#) / [PDF](#) (200K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Annual Variation of Polycyclic Aromatic Hydrocarbon Concentrations in Precipitation Collected near the Great Lakes**Ping Sun, Sean Backus, Pierrette Blanchard, and Ronald A. Hites
pp 696 - 701; **(Article)** DOI: [10.1021/es0514949](https://doi.org/10.1021/es0514949)[Abstract](#) Full: [HTML](#) / [PDF](#) (230K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Emission of Polycyclic Aromatic Hydrocarbons in China**Shanshan Xu, Wenxin Liu, and Shu Tao
pp 702 - 708; **(Article)** DOI: [10.1021/es0517062](https://doi.org/10.1021/es0517062)[Abstract](#) Full: [HTML](#) / [PDF](#) (324K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Distribution and Mass Inventories of Polycyclic Aromatic Hydrocarbons and Organochlorine Pesticides in Sediments of the Pearl River Estuary and the Northern South China Sea**She-Jun Chen, Xiao-Jun Luo, Bi-Xian Mai, Guo-Ying Sheng, Jia-Mo Fu, and Eddy Y. Zeng
pp 709 - 714; **(Article)** DOI: [10.1021/es052060g](https://doi.org/10.1021/es052060g)[Abstract](#) Full: [HTML](#) / [PDF](#) (259K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Perfluorooctanesulfonate and Related Fluorochemicals in Human Blood Samples from China**Leo W. Y. Yeung, M. K. So, Guibin Jiang, S. Taniyasu, N. Yamashita, Maoyong Song, Yongning Wu, Jingguang Li, J. P. Giesy, K. S. Guruge, and Paul K. S. Lam
pp 715 - 720; **(Article)** DOI: [10.1021/es052067y](https://doi.org/10.1021/es052067y)[Abstract](#) Full: [HTML](#) / [PDF](#) (413K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Stereoselective Degradation Kinetics of Theta-Cypermethrin in Rats**Qiuxia Wang, Jing Qiu, Wentao Zhu, Guifang Jia, Junling Li, Chenglu Bi, and Zhiqiang Zhou
pp 721 - 726; **(Article)** DOI: [10.1021/es052025+](https://doi.org/10.1021/es052025+)[Abstract](#) Full: [HTML](#) / [PDF](#) (144K)

Select Citation

 [Feedback](#) | [Purchase](#)**Organic Phosphorus Sequestration in Subtropical Treatment Wetlands**Benjamin L. Turner, Susan Newman, and Jana M. Newman
pp 727 - 733; **(Article)** DOI: [10.1021/es0516256](https://doi.org/10.1021/es0516256)[Abstract](#) Full: [HTML](#) / [PDF](#) (273K)

Select Citation

 [Feedback](#) | [Purchase](#)**Sources, Vertical Fluxes, and Equivalent Toxicity of Aromatic Hydrocarbons in Coastal Sediments of the Río de la Plata Estuary, Argentina**J. C. Colombo, N. Cappelletti, J. Laschi, M. C. Migoya, E. Speranza, and C. N. Skorupka
pp 734 - 740; **(Article)** DOI: [10.1021/es051672y](https://doi.org/10.1021/es051672y)[Abstract](#) Full: [HTML](#) / [PDF](#) (406K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Historical Perspective of Industrial Lead Emissions to the Atmosphere from a Canadian Smelter**

Céline Gallon, André Tessier, Charles Gobeil, and Richard Carignan
pp 741 - 747; **(Article)** DOI: [10.1021/es051326g](https://doi.org/10.1021/es051326g)

[Abstract](#) Full: [HTML](#) / [PDF](#) (391K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Is Fish a Major Source of Fluorinated Surfactants and Repellents in Humans Living on the Baltic Coast?**

Jerzy Falandysz, Sachi Taniyasu, Anna Gulkowska, Nobuyoshi Yamashita, and Ulrike Schulte-Oehlmann
pp 748 - 751; **(Article)** DOI: [10.1021/es051799n](https://doi.org/10.1021/es051799n)

[Abstract](#) Full: [HTML](#) / [PDF](#) (94K)

Select Citation

 [Feedback](#) | [Purchase](#)**Element Flows Associated with Marine Shore Mine Tailings Deposits**

Bernhard Dold
pp 752 - 758; **(Article)** DOI: [10.1021/es051475z](https://doi.org/10.1021/es051475z)

[Abstract](#) Full: [HTML](#) / [PDF](#) (256K)

Select Citation

 [Feedback](#) | [Purchase](#)**Evolution of the Concentrations of Polycyclic Aromatic Hydrocarbons in Burnt Woodland Soils**

M. S. García-Falcón, B. Soto-González, and J. Simal-Gándara
pp 759 - 763; **(Article)** DOI: [10.1021/es051803v](https://doi.org/10.1021/es051803v)

[Abstract](#) Full: [HTML](#) / [PDF](#) (113K)

Select Citation

 [Feedback](#) | [Purchase](#)**Chronicing a Century of Lead Pollution in Mexico: Stable Lead Isotopic Composition Analyses of Dated Sediment Cores**

Martin F. Soto-Jimenez, Sharon A. Hibdon, Charley W. Rankin, Jugdeep Aggarawl, A. Carolina Ruiz-Fernandez, Federico Paez-Osuna, and A. Russell Flegal
pp 764 - 770; **(Article)** DOI: [10.1021/es048478g](https://doi.org/10.1021/es048478g)

[Abstract](#) Full: [HTML](#) / [PDF](#) (479K)

Select Citation

 [Feedback](#) | [Purchase](#)**Determination of Uranyl Incorporation into Biogenic Manganese Oxides Using X-ray Absorption Spectroscopy and Scattering**S. M. Webb, C. C. Fuller, B. M. Tebo, and J. R. Bargar
pp 771 - 777; **(Article)** DOI: [10.1021/es051679f](https://doi.org/10.1021/es051679f)[Abstract](#) Full: [HTML](#) / [PDF](#) (210K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Degradation of Naled and Dichlorvos Promoted by Reduced Sulfur Species in Well-Defined Anoxic Aqueous Solutions**Qiu Gan, Raphael M. Singh, and Urs Jans
pp 778 - 783; **(Article)** DOI: [10.1021/es051482n](https://doi.org/10.1021/es051482n)[Abstract](#) Full: [HTML](#) / [PDF](#) (165K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Nucleophilic Substitution Reactions of Chlorpyrifos-methyl with Sulfur Species**Tong Wu and Urs Jans
pp 784 - 790; **(Article)** DOI: [10.1021/es051468a](https://doi.org/10.1021/es051468a)[Abstract](#) Full: [HTML](#) / [PDF](#) (149K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**NMR Investigation of the Behavior of an Organothiophosphate Pesticide, Chlorpyrifos, Sorbed on Soil Components**Mark R. Seger and Gary E. Maciel
pp 791 - 796; **(Article)** DOI: [10.1021/es051703p](https://doi.org/10.1021/es051703p)[Abstract](#) Full: [HTML](#) / [PDF](#) (128K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**NMR Investigation of the Behavior of an Organothiophosphate Pesticide, Chlorpyrifos, Sorbed on Montmorillonite Clays**Mark R. Seger and Gary E. Maciel
pp 797 - 802; **(Article)** DOI: [10.1021/es051704h](https://doi.org/10.1021/es051704h)[Abstract](#) Full: [HTML](#) / [PDF](#) (127K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [\\$ Purchase](#)**Particle Number Emissions and Source Signatures of an Industrial Facility**L. Morawska, G. R. Johnson, C. He, G. A. Ayoko, M. C. H. Lim, C. Swanson, Z. D. Ristovski, and M. Moore
pp 803 - 814; **(Article)** DOI: [10.1021/es048337e](https://doi.org/10.1021/es048337e)[Abstract](#) Full: [HTML](#) / [PDF](#) (1193K)

Select Citation

 [Feedback](#) | [\\$ Purchase](#)**Determination of NAPL-Water Interfacial Areas in Well-Characterized Porous Media**Richard Dobson, Martin H. Schroth, Mart Oostrom, and Josef Zeyer
pp 815 - 822; **(Article)** DOI: [10.1021/es050037p](https://doi.org/10.1021/es050037p)[Abstract](#) Full: [HTML](#) / [PDF](#) (191K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [\\$ Purchase](#)**Dichlorodifluoromethane Decomposition to CO₂ with Simultaneous Halogen Fixation by Calcium Oxide Based Materials**Tsukasa Tamai, Koji Inazu, and Ken-ichi Aika
pp 823 - 829; **(Article)** DOI: [10.1021/es050139f](https://doi.org/10.1021/es050139f)[Abstract](#) Full: [HTML](#) / [PDF](#) (175K)

Select Citation

 [Feedback](#) | [\\$ Purchase](#)**Labile Cd Complexes Increase Cd Availability to Plants**Fien Degryse, Erik Smolders, and Roel Merckx
pp 830 - 836; **(Article)** DOI: [10.1021/es050894t](https://doi.org/10.1021/es050894t)[Abstract](#) Full: [HTML](#) / [PDF](#) (151K)

Select Citation

 [Feedback](#) | [\\$ Purchase](#)**Gross Photoreduction Kinetics of Mercury in Temperate Freshwater Lakes and Rivers: Application to a General Model of DGM Dynamics**N. J. O'Driscoll, S. D. Siciliano, D. R. S. Lean, and M. Amyot
pp 837 - 843; **(Article)** DOI: [10.1021/es051062y](https://doi.org/10.1021/es051062y)[Abstract](#) Full: [HTML](#) / [PDF](#) (134K) [Supporting Info](#)

Select Citation

[Feedback](#) | [Purchase](#)**Binding Constants of Divalent Mercury (Hg²⁺) in Soil Humic Acids and Soil Organic Matter**Abdul R. Khwaja, Paul R. Bloom, and Patrick L. Brezonik
pp 844 - 849; **(Article)** DOI: [10.1021/es051085c](https://doi.org/10.1021/es051085c)[Abstract](#) Full: [HTML](#) / [PDF](#) (114K)

Select Citation

[Feedback](#) | [Purchase](#)**Atmospheric Fate of Dichlorvos: Photolysis and OH-Initiated Oxidation Studies**V. Feigenbrugel, A. Le Person, S. Le Calvé, A. Mellouki, A. Muñoz, and K. Wirtz
pp 850 - 857; **(Article)** DOI: [10.1021/es051178u](https://doi.org/10.1021/es051178u)[Abstract](#) Full: [HTML](#) / [PDF](#) (181K)

Select Citation

[Feedback](#) | [Purchase](#)**Wavelength-Dependent Photoreactivity of Mirex in Lake Ontario**Kelly L. Lambrych and John P. Hassett
pp 858 - 863; **(Article)** DOI: [10.1021/es0511927](https://doi.org/10.1021/es0511927)[Abstract](#) Full: [HTML](#) / [PDF](#) (150K)

Select Citation

[Feedback](#) | [Purchase](#)**Atmospheric Chemistry of Perfluoroalkanesulfonamides: Kinetic and Product Studies of the OH Radical and Cl Atom Initiated Oxidation of *N*-Ethyl Perfluorobutanesulfonamide**J. W. Martin, D. A. Ellis, S. A. Mabury, M. D. Hurley, and T. J. Wallington
pp 864 - 872; **(Article)** DOI: [10.1021/es051362f](https://doi.org/10.1021/es051362f)[Abstract](#) Full: [HTML](#) / [PDF](#) (194K) [Supporting Info](#)

Select Citation

[Feedback](#) | [Purchase](#)**A Field Experiment To Determine the Relative Importance of Prey and Water as Sources of As, Cd, Co, Cu, Pb, and Zn for the Aquatic Invertebrate *Sialis velata***Louis Croisetière, Landis Hare, and André Tessier
pp 873 - 879; **(Article)** DOI: [10.1021/es0516209](https://doi.org/10.1021/es0516209)[Abstract](#) Full: [HTML](#) / [PDF](#) (148K)

Select Citation

[Feedback](#) | [Purchase](#)**Superoxide-Mediated Dissolution of Amorphous Ferric Oxyhydroxide in Seawater**Manabu Fujii, Andrew L. Rose, T. David Waite, and Tatsuo Omura
pp 880 - 887; **(Article)** DOI: [10.1021/es051622t](https://doi.org/10.1021/es051622t)[Abstract](#) Full: [HTML](#) / [PDF](#) (145K) [Supporting Info](#)

Select Citation

[Feedback](#) | [Purchase](#)**Reduced Inorganic Sulfur Speciation in Drain Sediments from Acid Sulfate Soil Landscapes**Edward D. Burton, Richard T. Bush, and Leigh A. Sullivan
pp 888 - 893; **(Article)** DOI: [10.1021/es0516763](https://doi.org/10.1021/es0516763)[Abstract](#) Full: [HTML](#) / [PDF](#) (178K) [Supporting Info](#)

Select Citation

[Feedback](#) | [Purchase](#)**Enhanced Sorption of Trichloroethene by Smectite Clay Exchanged with Cs⁺**Vaneet Aggarwal, Hui Li, Stephen A. Boyd, and Brian J. Teppen
pp 894 - 899; **(Article)** DOI: [10.1021/es0500411](https://doi.org/10.1021/es0500411)[Abstract](#) Full: [HTML](#) / [PDF](#) (144K)

Select Citation

[Feedback](#) | [Purchase](#)**Kinetics and Mechanism of the Degradation of Methyl Parathion in Aqueous Hydrogen Sulfide Solution: Investigation of Natural Organic Matter Effects**Xiaofen Guo and Urs Jans
pp 900 - 906; **(Article)** DOI: [10.1021/es051453c](https://doi.org/10.1021/es051453c)[Abstract](#) Full: [HTML](#) / [PDF](#) (157K) [Supporting Info](#)

Select Citation

[Feedback](#) | [Purchase](#)**Visualizing the Air-To-Leaf Transfer and Within-Leaf Movement and Distribution of Phenanthrene: Further Studies Utilizing Two-Photon Excitation Microscopy**Edward Wild, John Dent, Gareth O. Thomas, and Kevin C. Jones
pp 907 - 916; **(Article)** DOI: [10.1021/es0515046](https://doi.org/10.1021/es0515046)[Abstract](#) Full: [HTML](#) / [PDF](#) (1085K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Molecular and Quantitative Analysis of Metal Ion Binding to Humic Acids from Sewage Sludge and Sludge-Amended Soils by Fluorescence Spectroscopy**César Plaza, Gennaro Brunetti, Nicola Senesi, and Alfredo Polo
pp 917 - 923; **(Article)** DOI: [10.1021/es051687w](https://doi.org/10.1021/es051687w)[Abstract](#) Full: [HTML](#) / [PDF](#) (474K)

Select Citation

 [Feedback](#) | [Purchase](#)**Formation of C₇F₁₅COOH (PFOA) and Other Perfluorocarboxylic Acids during the Atmospheric Oxidation of 8:2 Fluorotelomer Alcohol**T. J. Wallington, M. D. Hurley, J. Xia, D. J. Wuebbles, S. Sillman, A. Ito, J. E. Penner, D. A. Ellis, J. Martin, S. A. Mabury, O. J. Nielsen, and M. P. Sulbaek Andersen
pp 924 - 930; **(Article)** DOI: [10.1021/es051858x](https://doi.org/10.1021/es051858x)[Abstract](#) Full: [HTML](#) / [PDF](#) (639K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Assessing Sites Contaminated with Unexploded Ordnance: Statistical Modeling of Ordnance Spatial Distribution**Jacqueline A. Macdonald and Mitchell J. Small
pp 931 - 938; **(Article)** DOI: [10.1021/es051168t](https://doi.org/10.1021/es051168t)[Abstract](#) Full: [HTML](#) / [PDF](#) (269K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)**Chemical-Thermal Quantitative Methodology for Carbon Speciation in Damage Layers on Building Surfaces**Nadia Ghedini, Cristina Sabbioni, Alessandra Bonazza, and Giancarlo Gobbi
pp 939 - 944; **(Article)** DOI: [10.1021/es050164l](https://doi.org/10.1021/es050164l)[Abstract](#) Full: [HTML](#) / [PDF](#) (129K)

Select Citation

 [Feedback](#) | [Purchase](#)

Effects of Sampling Artifacts and Operating Parameters on the Performance of a Semicontinuous Particulate Elemental Carbon/Organic Carbon Monitor

Mohammad Arhami, Thomas Kuhn, Philip M. Fine, Ralph J. Delfino, and Constantinos Sioutas

pp 945 - 954; **(Article)** DOI: [10.1021/es0510313](https://doi.org/10.1021/es0510313)

[Abstract](#) Full: [HTML](#) / [PDF](#) (215K)

Select Citation

 [Feedback](#) | [\\$ Purchase](#)

Measuring Free Metal Ion Concentrations in Situ in Natural Waters Using the Donnan Membrane Technique

Erwin J. J. Kalis, Liping Weng, Freerk Dousma, Erwin J. M. Temminghoff, and Willem H. Van Riemsdijk

pp 955 - 961; **(Article)** DOI: [10.1021/es051435v](https://doi.org/10.1021/es051435v)

[Abstract](#) Full: [HTML](#) / [PDF](#) (148K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [\\$ Purchase](#)

Versatile Gas/Particle Ion Chromatograph

S. M. Rahmat Ullah, Masaki Takeuchi, and Purnendu K. Dasgupta

pp 962 - 968; **(Article)** DOI: [10.1021/es051722z](https://doi.org/10.1021/es051722z)

[Abstract](#) Full: [HTML](#) / [PDF](#) (299K)

Select Citation

 [Feedback](#) | [\\$ Purchase](#)

Role of Soluble Microbial Products (SMP) in Membrane Fouling and Flux Decline

Chalor Jarusutthirak and Gary Amy

pp 969 - 974; **(Article)** DOI: [10.1021/es050987a](https://doi.org/10.1021/es050987a)

[Abstract](#) Full: [HTML](#) / [PDF](#) (370K)

Select Citation

 [Feedback](#) | [\\$ Purchase](#)

Microencapsulated BioBullets for the Control of Biofouling Zebra Mussels

David C. Aldridge, Paul Elliott, and Geoff D. Moggridge

pp 975 - 979; **(Article)** DOI: [10.1021/es050614+](https://doi.org/10.1021/es050614+)

[Abstract](#) Full: [HTML](#) / [PDF](#) (257K)

Select Citation

 [Feedback](#) | [\\$ Purchase](#)

Relating Organic Fouling of Reverse Osmosis Membranes to Intermolecular Adhesion Forces

Sangyoun Lee and Menachem Elimelech

pp 980 - 987; **(Article)** DOI: [10.1021/es051825h](https://doi.org/10.1021/es051825h)

[Abstract](#) Full: [HTML](#) / [PDF](#) (263K)

Select Citation

 [Feedback](#) | [Purchase](#)

Release of Arsenic to the Environment from CCA-Treated Wood. 1. Leaching and Speciation during Service

Bernine I. Khan, Helena M. Solo-Gabriele, Timothy G. Townsend, and Yong Cai

pp 988 - 993; **(Article)** DOI: [10.1021/es0514702](https://doi.org/10.1021/es0514702)

[Abstract](#) Full: [HTML](#) / [PDF](#) (148K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)

Release of Arsenic to the Environment from CCA-Treated Wood. 2. Leaching and Speciation during Disposal

Bernine I. Khan, Jenna Jambeck, Helena M. Solo-Gabriele, Timothy G. Townsend, and Yong Cai

pp 994 - 999; **(Article)** DOI: [10.1021/es051471u](https://doi.org/10.1021/es051471u)

[Abstract](#) Full: [HTML](#) / [PDF](#) (176K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)

Cobalt-Mediated Activation of Peroxymonosulfate and Sulfate Radical Attack on Phenolic Compounds. Implications of Chloride Ions

George P. Anipsitakis, Dionysios D. Dionysiou, and Michael A. Gonzalez

pp 1000 - 1007; **(Article)** DOI: [10.1021/es050634b](https://doi.org/10.1021/es050634b)

[Abstract](#) Full: [HTML](#) / [PDF](#) (188K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)

Effect of Strontium Contaminants upon the Size and Solubility of Calcite Crystals Precipitated by the Bacterial Hydrolysis of Urea

Andrew C. Mitchell and F. Grant Ferris

pp 1008 - 1014; **(Article)** DOI: [10.1021/es050929p](https://doi.org/10.1021/es050929p)

[Abstract](#) Full: [HTML](#) / [PDF](#) (307K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)

Biorecovered Precious Metals from Industrial Wastes: Single-Step Conversion of a Mixed Metal Liquid Waste to a Bioinorganic Catalyst with Environmental Application

Amanda N. Mabbett, Douglas Sanyahumbi, Ping Yong, and Lynne E. Macaskie

pp 1015 - 1021; **(Article)** DOI: [10.1021/es0509836](https://doi.org/10.1021/es0509836)

[Abstract](#) Full: [HTML](#) / [PDF](#) (194K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)

Cometabolic Degradation of TCE Vapors in a Foamed Emulsion Bioreactor

Eunsung Kan and Marc A. Deshusses

pp 1022 - 1028; **(Article)** DOI: [10.1021/es0510055](https://doi.org/10.1021/es0510055)

[Abstract](#) Full: [HTML](#) / [PDF](#) (197K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)

Changes in Landfill Gas Quality as a Result of Controlled Air Injection

Jon Powell, Pradeep Jain, Hwidong Kim, Timothy Townsend, and Debra Reinhart

pp 1029 - 1034; **(Article)** DOI: [10.1021/es051114j](https://doi.org/10.1021/es051114j)

[Abstract](#) Full: [HTML](#) / [PDF](#) (176K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)

Integrated System for the Treatment of Oxides of Nitrogen from Flue Gases

Sanjoy Barman and Ligy Philip

pp 1035 - 1041; **(Article)** DOI: [10.1021/es0515102](https://doi.org/10.1021/es0515102)

[Abstract](#) Full: [HTML](#) / [PDF](#) (312K)

Select Citation

 [Feedback](#) | [Purchase](#)

Behavior of Fluoroquinolones and Trimethoprim during Mechanical, Chemical, and Active Sludge Treatment of Sewage Water and Digestion of Sludge

Richard H. Lindberg, Ulrika Olofsson, Per Rendahl, Magnus I. Johansson, Mats Tysklind, and Barbro A. V. Andersson

pp 1042 - 1048; **(Article)** DOI: [10.1021/es0516211](https://doi.org/10.1021/es0516211)

[Abstract](#) Full: [HTML](#) / [PDF](#) (258K)

Select Citation

 [Feedback](#) | [Purchase](#)

Efficient Decomposition of Environmentally Persistent Perfluorooctanesulfonate and Related Fluorochemicals Using Zerovalent Iron in Subcritical Water

Hisao Hori, Yumiko Nagaoka, Ari Yamamoto, Taizo Sano, Nobuyoshi Yamashita, Sachi Taniyasu, Shuzo Kutsuna, Issey Osaka, and Ryuichi Arakawa
pp 1049 - 1054; **(Article)** DOI: [10.1021/es0517419](https://doi.org/10.1021/es0517419)

[Abstract](#) Full: [HTML](#) / [PDF](#) (138K)

Select Citation

 [Feedback](#) | [Purchase](#)

Kinetics of Contaminant Degradation by Permanganate

Rachel H. Waldemer and Paul G. Tratnyek
pp 1055 - 1061; **(Article)** DOI: [10.1021/es051330s](https://doi.org/10.1021/es051330s)

[Abstract](#) Full: [HTML](#) / [PDF](#) (1751K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)

Procedure for Determining Maximum Sustainable Power Generated by Microbial Fuel Cells

Joseph Menicucci, Haluk Beyenal, Enrico Marsili, RaajaRaajan Angathevar Veluchamy, Goksel Demir, and Zbigniew Lewandowski
pp 1062 - 1068; **(Article)** DOI: [10.1021/es051180l](https://doi.org/10.1021/es051180l)

[Abstract](#) Full: [HTML](#) / [PDF](#) (374K)

Select Citation

 [Feedback](#) | [Purchase](#)

Reversing the Conventional Leather Processing Sequence for Cleaner Leather Production

Subramani Saravanabhavan, Palanisamy Thanikaivelan, Jonnalagadda Raghava Rao, Balachandran Unni Nair, and Thirumalachari Ramasami
pp 1069 - 1075; **(Article)** DOI: [10.1021/es051385u](https://doi.org/10.1021/es051385u)

[Abstract](#) Full: [HTML](#) / [PDF](#) (384K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)

Gene Expression Profiling in Common Cormorant Liver with an Oligo Array: Assessing the Potential Toxic Effects of Environmental Contaminants

Kei Nakayama, Hisato Iwata, Eun-young Kim, Kosuke Tashiro, and Shinsuke Tanabe
pp 1076 - 1083; **(Article)** DOI: [10.1021/es051386m](https://doi.org/10.1021/es051386m)

[Abstract](#) Full: [HTML](#) / [PDF](#) (174K) [Supporting Info](#)

Select Citation

 [Feedback](#) | [Purchase](#)

Comment on "Lessons from Endocrine Disruption and Their Application to Other Issues Concerning Trace Organics in the Aquatic Environment"

Helmut Segner

pp 1084 - 1085; (Correspondence/Rebuttal) DOI: [10.1021/es051791d](https://doi.org/10.1021/es051791d)

Full: [HTML](#) / [PDF](#) (39K)

Select Citation

 [Feedback](#) |  [Purchase](#)

Response To Comment on "Lessons from Endocrine Disruption and Their Application to Other Issues Concerning Trace Organics in the Aquatic Environment"

John P. Sumpter and Andrew C. Johnson

pp 1086 - 1087; (Correspondence/Rebuttal) DOI: [10.1021/es0523082](https://doi.org/10.1021/es0523082)

Full: [HTML](#) / [PDF](#) (44K)

 **Download Selected Citations**

Citation Management

[Learn More](#)

[^ Return to Top](#)

ACS Publications

[Home](#) | [ACS Journals](#) | [Chemical & Engineering News](#) | [E-mail & RSS](#) | [Chemical Abstracts Service](#) | [ChemPort](#)

Customer Services

[Member & Subscriber Services](#) | [Librarian Resource Center](#) | [Customer Service](#) | [Technical Support](#) | [Sitemap](#)

American Chemical Society

chemistry.org | [Membership](#) | [Technical Divisions](#) | [Meetings](#) | [Career Services](#)

Copyright © 2007 American Chemical Society