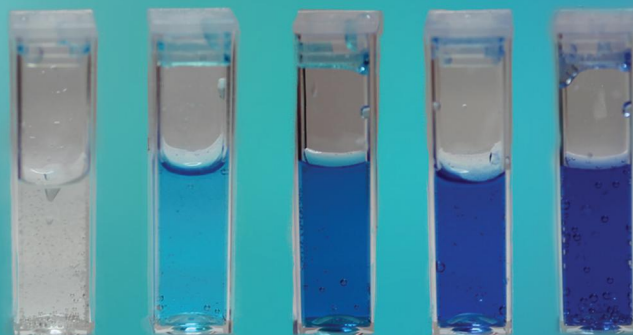


ENVIRONMENTAL Science & Technology

March 17, 2015
Volume 49
Number 6
pubs.acs.org/est

Detecting
Nanoparticles in
Complex Samples



ACS Publications
Most Trusted. Most Cited. Most Read.

www.acs.org

Content

1. Ethane as a Cleaner Transportation Fuel

Chi-Jen Yang, Lindsay Leveen, and Kimberly King

Environmental Science & Technology **2015** 49 (6), 3263-3264

DOI: 10.1021/acs.est.5b00575

2. Who Are Coauthors and What Should Be Their Responsibilities?

T. Prabhakar Clement

Environmental Science & Technology **2015** 49 (6), 3265-3266

DOI: 10.1021/acs.est.5b00415

3. Practical Energy Harvesting for Microbial Fuel Cells: A Review

Heming Wang, Jae-Do Park, and Zhiyong Jason Ren

Environmental Science & Technology **2015** 49 (6), 3267-3277

DOI: 10.1021/es5047765

4. Evaluation of the Current State of Distributed Watershed Nutrient Water Quality Modeling

Christopher Wellen, Ahmad-Reza Kamran-Disfani, and George B. Arhonditsis

Environmental Science & Technology **2015** 49 (6), 3278-3290

DOI: 10.1021/es5049557

5. Metrics for Biogeophysical Climate Forcings from Land Use and Land Cover Changes and Their Inclusion in Life Cycle Assessment: A Critical Review

Ryan M. Bright

Environmental Science & Technology **2015** 49 (6), 3291-3303

DOI: 10.1021/es505465t

6. Environmental and Health Benefits from Designating the Marmara Sea and the Turkish Straits as an Emission Control Area (ECA)

M. Viana, N. Fann, A. Tobías, X. Querol, D. Rojas-Rueda, A. Plaza, G. Aynos, J. A. Conde, L. Fernández, and C. Fernández

Environmental Science & Technology **2015** 49 (6), 3304-3313

DOI: 10.1021/es5049946

7. The Water Footprint of California's Energy System, 1990–2012

Julian Fulton and Heather Cooley

Environmental Science & Technology **2015** 49 (6), 3314-3321

DOI: 10.1021/es505034x

8. Ethylene Glycol Emissions from On-road Vehicles

Ezra C. Wood, W. Berk Knighton, Ed C. Fortner, Scott C. Herndon, Timothy B. Onasch, Jonathan P. Franklin, Douglas R. Worsnop, Timothy R. Dallmann, Drew R. Gentner, Allen H. Goldstein, and Robert A. Harley
Environmental Science & Technology **2015** 49 (6), 3322-3329
DOI: 10.1021/acs.est.5b00557

9. Local and Regional Components of Aerosol in a Heavily Trafficked Street Canyon in Central London Derived from PMF and Cluster Analysis of Single-Particle ATOFMS Spectra

Chiara Giorio, Andrea Tapparo, Manuel Dall'Osto, David C. S. Beddows, Johanna K. Esser-Gietl, Robert M. Healy, and Roy M. Harrison
Environmental Science & Technology **2015** 49 (6), 3330-3340
DOI: 10.1021/es506249z

10. Altitude-Dependent Distribution of Ambient Gamma Dose Rates in a Mountainous Area of Japan Caused by the Fukushima Nuclear Accident

Mutsuo Hososhima and Naoki Kaneyasu
Environmental Science & Technology **2015** 49 (6), 3341-3348
DOI: 10.1021/es504838w

11. Environmental Legacy of Copper Metallurgy and Mongol Silver Smelting Recorded in Yunnan Lake Sediments

Aubrey L. Hillman, Mark B. Abbott, JunQing Yu, Daniel J. Bain, and TzeHuey Chiou-Peng
Environmental Science & Technology **2015** 49 (6), 3349-3357
DOI: 10.1021/es504934r

12. Evaluation of a High Efficiency Cabin Air (HECA) Filtration System for Reducing Particulate Pollutants Inside School Buses

Eon S. Lee, Cha-Chen D. Fung, and Yifang Zhu
Environmental Science & Technology **2015** 49 (6), 3358-3365
DOI: 10.1021/es505419m

13. Dissolved Organic Matter Composition Drives the Marine Production of Brominated Very Short-Lived Substances

Yina Liu, Daniel C. O. Thornton, Thomas S. Bianchi, William A. Arnold, Michael R. Shields, Jie Chen, and Shari A. Yvon-Lewis
Environmental Science & Technology **2015** 49 (6), 3366-3374
DOI: 10.1021/es505464k

14. Importance of a Nanoscience Approach in the Understanding of Major Aqueous Contamination Scenarios: Case Study from a Recent Coal Ash Spill

Yi Yang, Benjamin P. Colman, Emily S. Bernhardt, and Michael F. Hochella
Environmental Science & Technology **2015** 49 (6), 3375-3382
DOI: 10.1021/es505662q

15. Potential Role of Stabilized Criegee Radicals in Sulfuric Acid Production in a High Biogenic VOC Environment

Saewung Kim, Alex Guenther, Barry Lefer, James Flynn, Robert Griffin, Andrew P. Rutter, Longwen Gong, and Basak Karakurt Cevik
Environmental Science & Technology **2015** 49 (6), 3383-3391
DOI: 10.1021/es505793t

16. Long-Term and Seasonal Trend Decomposition of Maumee River Nutrient Inputs to Western Lake Erie

Craig A. Stow, YoonKyung Cha, Laura T. Johnson, Remegio Confesor, and R. Peter Richards

Environmental Science & Technology **2015** 49 (6), 3392-3400

DOI: 10.1021/es5062648

17. Long-Term Alkalinity Decrease and Acidification of Estuaries in Northwestern Gulf of Mexico

Xinping Hu, Jennifer Beseres Pollack, Melissa R. McCutcheon, Paul A. Montagna, and Zhangxian Ouyang

Environmental Science & Technology **2015** 49 (6), 3401-3409

DOI: 10.1021/es505945p

18. Ambient Water and Visible-Light Irradiation Drive Changes in Graphene Morphology, Structure, Surface Chemistry, Aggregation, and Toxicity

Xiangang Hu, Ming Zhou, and Qixing Zhou

Environmental Science & Technology **2015** 49 (6), 3410-3418

DOI: 10.1021/es503003y

19. Reduction of Nitroaromatics Sorbed to Black Carbon by Direct Reaction with Sorbed Sulfides

Wenqing Xu, Joseph J. Pignatello, and William A. Mitch

Environmental Science & Technology **2015** 49 (6), 3419-3426

DOI: 10.1021/es5045198

20. Natural Colloidal P and Its Contribution to Plant P Uptake

Daniela Montalvo, Fien Degryse, and Mike J. McLaughlin

Environmental Science & Technology **2015** 49 (6), 3427-3434

DOI: 10.1021/es504643f

21. Photochemical Transformation of Graphene Oxide in Sunlight

Wen-Che Hou, Indranil Chowdhury, David G. Goodwin, Jr., W. Matthew Henderson, D. Howard Fairbrother, Dermont Bouchard, and Richard G. Zepp

Environmental Science & Technology **2015** 49 (6), 3435-3443

DOI: 10.1021/es5047155

22. Stable Isotopes and Iron Oxide Mineral Products as Markers of Chemodenitrification.

L. Camille Jones, Brian Peters, Juan S. Lezama Pacheco, Karen L. Casciotti, and Scott Fendorf

Environmental Science & Technology **2015** 49 (6), 3444-3452

DOI: 10.1021/es504862x

23. Triplet Photochemistry of Effluent and Natural Organic Matter in Whole Water and Isolates from Effluent-Receiving Rivers

Laleen C. Bodhipaksha, Charles M. Sharpless, Yu-Ping Chin, Michael Sander, William K. Langston, and Allison A. MacKay

Environmental Science & Technology **2015** 49 (6), 3453-3463

DOI: 10.1021/es505081w

24. LC-HRMS Suspect Screening for Detection-Based Prioritization of Iodinated Contrast Media Photodegradates in Surface Waters

Bozo Zonja, Antonio Delgado, Sandra Pérez, and Damià Barceló
Environmental Science & Technology **2015** 49 (6), 3464-3472

DOI: 10.1021/es505250q

25. Birnessite (δ -MnO₂) Mediated Degradation of Organoarsenic Feed Additive p-Arsanilic Acid

Lingling Wang and Hefa Cheng

Environmental Science & Technology **2015** 49 (6), 3473-3481

DOI: 10.1021/es505358c

26. Production and Retention of Methylmercury in Inundated Boreal Forest Soils

Kristofer R. Rolffhus, James P. Hurley, Richard A. (Drew) Bodaly, and Gregory Perrine

Environmental Science & Technology **2015** 49 (6), 3482-3489

DOI: 10.1021/es505398z

27. Characteristic Isotope Fractionation Patterns in s-Triazine Degradation Have Their Origin in Multiple Protonation Options in the s-Triazine Hydrolase TrzN

Heide K. V. Schürner, Jennifer L. Seffernick, Anna Grzybkowska, Agnieszka Dybala-Defratyka, Lawrence P. Wackett, and Martin Elsner

Environmental Science & Technology **2015** 49 (6), 3490-3498

DOI: 10.1021/es5055385

28. Mechanisms of Sb(III) Oxidation by Pyrite-Induced Hydroxyl Radicals and Hydrogen Peroxide

Linghao Kong, Xingyun Hu, and Mengchang He

Environmental Science & Technology **2015** 49 (6), 3499-3505

DOI: 10.1021/es505584r

29. Heterogeneous Catalytic Oxidation of As(III) on Nonferrous Metal Oxides in the Presence of H₂O₂

Dong-hyo Kim, Alok D. Bokare, Min suk Koo, and Wonyong Choi

Environmental Science & Technology **2015** 49 (6), 3506-3513

DOI: 10.1021/es5056897

30. Photochemical Production of Singlet Oxygen from Particulate Organic Matter

Elena Appiani and Kristopher McNeill

Environmental Science & Technology **2015** 49 (6), 3514-3522

DOI: 10.1021/es505712e

31. Influence of Oxygenation on Chromium Redox Reactions with Manganese Sulfide (MnS(s))

Amar R. Wadhawan, Kenneth J. Livi, Alan T. Stone, and Edward J. Bouwer

Environmental Science & Technology **2015** 49 (6), 3523-3531

DOI: 10.1021/es5057165

32. New Insight into Atmospheric Mercury Emissions from Zinc Smelters Using Mass Flow Analysis

Qingru Wu, Shuxiao Wang, Mulin Hui, Fengyang Wang, Lei Zhang, Lei Duan, and Yao Luo

Environmental Science & Technology **2015** 49 (6), 3532-3539

DOI: 10.1021/es505723a

- 33. Effect of Atmospheric Mercury Deposition on Selenium Accumulation in Rice (*Oryza sativa* L.) at a Mercury Mining Region in Southwestern China**
Chao Zhang, Guangle Qiu, Christopher W. N. Anderson, Hua Zhang, Bo Meng, Liang Liang, and Xinbin Feng
Environmental Science & Technology **2015** 49 (6), 3540-3547
DOI: 10.1021/es505827d
- 34. Effects of CO₂ and Seawater Acidification on the Early Stages of *Saccharina japonica* Development**
Dong Xu, Dongsheng Wang, Bin Li, Xiao Fan, Xiao W. Zhang, Nai H. Ye, Yitao Wang, Shanli Mou, and Zhimeng Zhuang
Environmental Science & Technology **2015** 49 (6), 3548-3556
DOI: 10.1021/es5058924
- 35. Linear Free Energy Relationships for the Biotic and Abiotic Reduction of Nitroaromatic Compounds**
Fubo Luan, Christopher A. Gorski, and William D. Burgos
Environmental Science & Technology **2015** 49 (6), 3557-3565
DOI: 10.1021/es5060918
- 36. Atmospheric Mercury Footprints of Nations**
Sai Liang, Yafei Wang, Sergio Cinnirella, and Nicola Pirrone
Environmental Science & Technology **2015** 49 (6), 3566-3574
DOI: 10.1021/es503977y
- 37. Transport of Polymeric Nanoparticulate Drug Delivery Systems in the Proximity of Silica and Sand**
I-Cheng Chen, Ming Zhang, Blake Teipel, Isa Silveira de Araujo, Yagmur Yegin, and Mustafa Akbulut
Environmental Science & Technology **2015** 49 (6), 3575-3583
DOI: 10.1021/es504188a
- 38. Harmonizing the Assessment of Biodiversity Effects from Land and Water Use within LCA**
Francesca Veronesi, Mark A. J. Huijbregts, Abhishek Chaudhary, Laura de Baan, Thomas Koellner, and Stefanie Hellweg
Environmental Science & Technology **2015** 49 (6), 3584-3592
DOI: 10.1021/es504995r
- 39. Atmospheric Transport of Persistent Organic Pollutants to and from the Arctic under Present-Day and Future Climate**
Mega Octaviani, Irene Stemmler, Gerhard Lammel, and Hans F. Graf
Environmental Science & Technology **2015** 49 (6), 3593-3602
DOI: 10.1021/es505636g
- 40. Back-Extrapolating a Land Use Regression Model for Estimating Past Exposures to Traffic-Related Air Pollution**
Ilan Levy, Noam Levin, Yuval, Joel D. Schwartz, and Jeremy D. Kark
Environmental Science & Technology **2015** 49 (6), 3603-3610
DOI: 10.1021/es505707e
- 41. Colorimetric Detection of Catalytic Reactivity of Nanoparticles in Complex Matrices**

Charlie Corredor, Mark D. Borysiak, Jay Wolfer, Paul Westerhoff, and Jonathan D. Posner

Environmental Science & Technology **2015** 49 (6), 3611-3618

DOI: 10.1021/es504350j

42. Real-Time Redox Speciation of Iron in Estuarine and Coastal Surface Waters

Yongming Huang, Dongxing Yuan, Yong Zhu, and Sichao Feng

Environmental Science & Technology **2015** 49 (6), 3619-3627

DOI: 10.1021/es505138f

43. Robust Sensor for Extended Autonomous Measurements of Surface Ocean Dissolved Inorganic Carbon

Andrea J. Fassbender, Christopher L. Sabine, Noah Lawrence-Slavas, Eric H. De Carlo, Christian Meinig, and Stacy Maenner Jones

Environmental Science & Technology **2015** 49 (6), 3628-3635

DOI: 10.1021/es5047183

44. Integrated Control of Emission Reductions, Energy-Saving, and Cost-Benefit Using a Multi-Objective Optimization Technique in the Pulp and Paper Industry

Zongguo Wen, Chang Xu, and Xueying Zhang

Environmental Science & Technology **2015** 49 (6), 3636-3643

DOI: 10.1021/es504740h

45. Effects of Fresh Lubricant Oils on Particle Emissions Emittted by a Modern Gasoline Direct Injection Passenger Car

Liisa Pirjola, Panu Karjalainen, Juha Heikkilä, Sampo Saari, Theodoros Tzamkiozis, Leonidas Ntziachristos, Kari Kulmala, Jorma Keskinen, and Topi Rönkkö

Environmental Science & Technology **2015** 49 (6), 3644-3652

DOI: 10.1021/es505109u

46. Novel Precipitated Zirconia-Based DGT Technique for High-Resolution Imaging of Oxyanions in Waters and Sediments

Dong-Xing Guan, Paul N. Williams, Jun Luo, Jian-Lun Zheng, Hua-Cheng Xu, Chao Cai, and Lena Q. Ma

Environmental Science & Technology **2015** 49 (6), 3653-3661

DOI: 10.1021/es505424m

47. Mitigation of PAH and Nitro-PAH Emissions from Nonroad Diesel Engines

Z. Gerald Liu, John C. Wall, Nathan A. Ottinger, and Dana McGuffin

Environmental Science & Technology **2015** 49 (6), 3662-3671

DOI: 10.1021/es505434r

48. Analysis of Organic Sulfur Compounds in Atmospheric Aerosols at the HKUST Supersite in Hong Kong Using HR-ToF-AMS

Dan Dan Huang, Yong Jie Li, Berto P. Lee, and Chak K. Chan

Environmental Science & Technology **2015** 49 (6), 3672-3679

DOI: 10.1021/es5056269

49. Assessing Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans in Air across Latin American Countries Using Polyurethane Foam Disk Passive Air Samplers

Jasmin K. Schuster, Tom Harner, Gilberto Fillmann, Lutz Ahrens, Jorgelina C. Altamirano, Beatriz Aristizábal, Wanderley Bastos, Luisa Eugenia Castillo, Johana Cortés, Oscar Fentanes, Alexey Gusev, Maricruz Hernandez, Martín Villa Ibarra, Nerina B. Lana, Sum Chi Lee, Ana Patricia Martínez, Karina S. B. Miglioranza, Andrea Padilla Puerta, Federico Segovia, May Siu, and Maria Yumiko Tominaga

Environmental Science & Technology **2015** 49 (6), 3680-3686

DOI: 10.1021/es506071n

50. Hydroxyl Radical Formation during Ozonation of Multiwalled Carbon Nanotubes: Performance Optimization and Demonstration of a Reactive CNT Filter

Rebekah Oulton, Jason P. Haase, Sara Kaalberg, Connor T. Redmond, Michael J. Nalbandian, and David M. Cwiertny

Environmental Science & Technology **2015** 49 (6), 3687-3697

DOI: 10.1021/es505430v

51. Gene Expression of an Arthrobacter in Surfactant-Enhanced Biodegradation of a Hydrophobic Organic Compound

Feng Li, Lizhong Zhu, Lingwen Wang, and Yu Zhan

Environmental Science & Technology **2015** 49 (6), 3698-3704

DOI: 10.1021/es504673j

52. Assessment of the Direct Effects of Biogenic and Petrogenic Activated Carbon on Benthic Organisms

Adam Lillcrap, Morten Schaanning, and Ailbhe Macken

Environmental Science & Technology **2015** 49 (6), 3705-3710

DOI: 10.1021/es506113j

53. Promoted Decomposition of NO_x in Automotive Diesel-like Exhausts by Electro-Catalytic Honeycombs

Ta-Jen Huang, De-Yi Chiang, Chi Shih, Cheng-Chin Lee, Chih-Wei Mao, and Bo-Chung Wang

Environmental Science & Technology **2015** 49 (6), 3711-3717

DOI: 10.1021/acs.est.5b00226

54. Physicochemical Interactions between Rhamnolipids and Pseudomonas aeruginosa Biofilm Layers

Lan Hee Kim, Yongmoon Jung, Hye-Weon Yu, Kyu-Jung Chae, and In S. Kim

Environmental Science & Technology **2015** 49 (6), 3718-3726

DOI: 10.1021/es505803c

55. Monofluorophosphate Is a Selective Inhibitor of Respiratory Sulfate-Reducing Microorganisms

Hans K. Carlson, Magdalena K. Stoeva, Nicholas B. Justice, Andrew Sczesnak, Mark R. Mullan, Lorraine A. Mosqueda, Jennifer V. Kuehl, Adam M. Deutschbauer, Adam P. Arkin, and John D. Coates

Environmental Science & Technology **2015** 49 (6), 3727-3736

DOI: 10.1021/es505843z

56. Inactivation of Foodborne Microorganisms Using Engineered Water Nanostructures (EWNS)

Georgios Pyrgiotakis, Archana Vasanthakumar, Ya Gao, Mary Eleftheriadou, Eduardo Toledo, Alice DeAraujo, James McDevitt, Taewon Han, Gediminas Mainelis, Ralph Mitchell, and Philip Demokritou
Environmental Science & Technology **2015** 49 (6), 3737-3745
DOI: 10.1021/es505868a

57. Low Contribution of PbO₂-Coated Lead Service Lines to Water Lead Contamination at the Tap

Simoni Triantafyllidou, Michael R. Schock, Michael K. DeSantis, and Colin White
Environmental Science & Technology **2015** 49 (6), 3746-3754
DOI: 10.1021/es505886h

58. Studies on Residue-Free Decontaminants for Chemical Warfare Agents

George W. Wagner
Environmental Science & Technology **2015** 49 (6), 3755-3760
DOI: 10.1021/es506045a

59. Layer-by-Layer Assembly of Aquaporin Z-Incorporated Biomimetic Membranes for Water Purification

Miaoqi Wang, Zhining Wang, Xida Wang, Shuzheng Wang, Wande Ding, and Congjie Gao
Environmental Science & Technology **2015** 49 (6), 3761-3768
DOI: 10.1021/es5056337

60. Evaluation of Biodegradation-Promoting Additives for Plastics

Susan Selke, Rafael Auras, Tuan Anh Nguyen, Edgar Castro Aguirre, Rijosh Cheruvathur, and Yan Liu
Environmental Science & Technology **2015** 49 (6), 3769-3777
DOI: 10.1021/es504258u

61. Predicting Reduction Rates of Energetic Nitroaromatic Compounds Using Calculated One-Electron Reduction Potentials

Alexandra J. Salter-Blanc, Eric J. Bylaska, Hayley J. Johnston, and Paul G. Tratnyek
Environmental Science & Technology **2015** 49 (6), 3778-3786
DOI: 10.1021/es505092s

62. Potency of Polycyclic Aromatic Hydrocarbons (PAHs) for Induction of Ethoxyresorufin-O-deethylase (EROD) Activity in Hepatocyte Cultures from Chicken, Pekin Duck, And Greater Scaup

Jessica A. Head, Richard W. Jeffery, Reza Farmahin, and Sean W. Kennedy
Environmental Science & Technology **2015** 49 (6), 3787-3794
DOI: 10.1021/acs.est.5b00125

63. In Silico Analysis of the Interaction of Avian Aryl Hydrocarbon Receptors and Dioxins to Decipher Isoform-, Ligand-, and Species-Specific Activations

Masashi Hirano, Ji-Hee Hwang, Hae-Jeong Park, Su-Min Bak, Hisato Iwata, and Eun-Young Kim
Environmental Science & Technology **2015** 49 (6), 3795-3804
DOI: 10.1021/es505733f

- 64. Semen Phthalate Metabolites, Spermatozoa Apoptosis, and DNA Damage: A Cross-Sectional Study in China**
Ling You, Yi-Xin Wang, Qiang Zeng, Min Li, Yue-Hui Huang, Yu Hu, Wen-Cheng Cao, Ai-Lin Liu, and Wen-Qing Lu
Environmental Science & Technology **2015** 49 (6), 3805-3812
DOI: 10.1021/acs.est.5b00588
- 65. Trojan-Horse Mechanism in the Cellular Uptake of Silver Nanoparticles Verified by Direct Intra- and Extracellular Silver Speciation Analysis**
I-Lun Hsiao, Yi-Kong Hsieh, Chu-Fang Wang, I-Chieh Chen, and Yuh-Jeen Huang
Environmental Science & Technology **2015** 49 (6), 3813-3821
DOI: 10.1021/es504705p
- 66. Reproduction Dynamics in Copepods Following Exposure to Chemically and Mechanically Dispersed Crude Oil**
Bjørn Henrik Hansen, Iurgi Salaberria, Anders J. Olsen, Kari Ella Read, Ida Beathe Øverjordet, Karen M. Hammer, Dag Altin, and Trond Nordtug
Environmental Science & Technology **2015** 49 (6), 3822-3829
DOI: 10.1021/es504903k
- 67. Differential Distributed Lag Patterns of Source-Specific Particulate Matter on Respiratory Emergency Hospitalizations**
Vivian C. Pun, Linwei Tian, Ignatius T.S. Yu, Marianthi-Anna Kioumourtzoglou, and Hong Qiu
Environmental Science & Technology **2015** 49 (6), 3830-3838
DOI: 10.1021/es505030u
- 68. Sublethal Pb Exposure Produces Season-Dependent Effects on Immune Response, Oxidative Balance and Investment in Carotenoid-based Coloration in Red-Legged Partridges**
Núria Vallverdú-Coll, Manuel E. Ortiz-Santaliestra, François Mougeot, Dolores Vidal, and Rafael Mateo
Environmental Science & Technology **2015** 49 (6), 3839-3850
DOI: 10.1021/es505148d
- 69. Levels and Congener Profiles of PBDEs in Edible Baltic, Freshwater, and Farmed Fish in Finland**
Riikka Airaksinen, Anja Hallikainen, Panu Rantakokko, Päivi Ruokojärvi, Pekka J. Vuorinen, Jaakko Mannio, and Hannu Kiviranta
Environmental Science & Technology **2015** 49 (6), 3851-3859
DOI: 10.1021/es505266p
- 70. Cell-Specific Biotransformation of Benzophenone-2 and Bisphenol-S in Zebrafish and Human in Vitro Models Used for Toxicity and Estrogenicity Screening**
Vincent Le Fol, Selim Aït-Aïssa, Nicolas Cabaton, Laurence Dolo, Marina Grimaldi, Patrick Balaguer, Elisabeth Perdu, Laurent Debrauwer, François Brion, and Daniel Zalko
Environmental Science & Technology **2015** 49 (6), 3860-3868
DOI: 10.1021/es505302c

71. Aryl Hydrocarbon Receptor Activation and Developmental Toxicity in Zebrafish in Response to Soil Extracts Containing Unsubstituted and Oxygenated PAHs

Emma Wincent, Maria E. Jönsson, Matteo Bottai, Staffan Lundstedt, and Kristian Dreij

Environmental Science & Technology **2015** 49 (6), 3869-3877

DOI: 10.1021/es505588s

72. Assimilation Efficiency of PBDE Congeners in Chinook Salmon

Joseph P. Dietrich, Stacy A. Strickland, Greg P. Hutchinson, Ahna L. Van Gaest, Alex B. Krupkin, Gina M. Ylitalo, and Mary R. Arkoosh

Environmental Science & Technology **2015** 49 (6), 3878-3886

DOI: 10.1021/es5057038

73. Spatiotemporal Prediction of Fine Particulate Matter During the 2008 Northern California Wildfires Using Machine Learning

Colleen E. Reid, Michael Jerrett, Maya L. Petersen, Gabriele G. Pfister, Philip E. Morefield, Ira B. Tager, Sean M. Raffuse, and John R. Balmes

Environmental Science & Technology **2015** 49 (6), 3887-3896

DOI: 10.1021/es505846r

74. In Vitro Human Metabolism of the Flame Retardant Resorcinol Bis(diphenylphosphate) (RDP)

Ana Ballesteros-Gómez, Nele Van den Eede, and Adrian Covaci

Environmental Science & Technology **2015** 49 (6), 3897-3904

DOI: 10.1021/es505857e

75. Bioaccessibility of PAHs in Fuel Soot Assessed by an in Vitro Digestive Model: Effect of Including an Absorptive Sink

Yanyan Zhang, Joseph J. Pignatello, Shu Tao, and Baoshan Xing

Environmental Science & Technology **2015** 49 (6), 3905-3912

DOI: 10.1021/es505898v

76. Unique Toxicological Behavior from Single-Wall Carbon Nanotubes Separated via Selective Adsorption on Hydrogels

Justin G. Clar, Sarah A. Gustitus, Sejin Youn, Carlos A. Silvera Batista, Kirk J. Ziegler, and Jean Claude J. Bonzongo

Environmental Science & Technology **2015** 49 (6), 3913-3921

DOI: 10.1021/es505925m

77. Daphnid Life Cycle Responses to the Insecticide Chlorantraniliprole and Its Transformation Products

Vesna Lavtižar, Rick Helmus, Stefan A. E. Kools, Darko Dolenc, Cornelis A. M. van Gestel, Polonca Trebše, Susanne L. Waaijers, and Michiel H. S. Kraak

Environmental Science & Technology **2015** 49 (6), 3922-3929

DOI: 10.1021/es506007q

78. Differential Effects of Particulate Matter Upwind and Downwind of an Urban Freeway in an Allergic Mouse Model

Marie A. McGee, Ali S. Kamal, John K. McGee, Charles E. Wood, Janice A. Dye, Q. Todd Krantz, Matthew S. Landis, M. Ian Gilmour, and Stephen H. Gavett

Environmental Science & Technology **2015** 49 (6), 3930-3939

DOI: 10.1021/es506048k

79. Increasing Sample Size in Prospective Birth Cohorts: Back-Extrapolating Prenatal Levels of Persistent Organic Pollutants in Newly Enrolled Children

Marc-André Verner, Fraser W. Gaspar, Jonathan Chevrier, Robert B. Gunier, Andreas Sjödin, Asa Bradman, and Brenda Eskenazi
Environmental Science & Technology **2015** 49 (6), 3940-3948

DOI: 10.1021/acs.est.5b00322

80. Life-Cycle Greenhouse Gas Assessment of Nigerian Liquefied Natural Gas Addressing Uncertainty

Amir Safaei, Fausto Freire, and Carlos Henggeler Antunes
Environmental Science & Technology **2015** 49 (6), 3949-3957

DOI: 10.1021/es505435j

81. Estimation of Organic and Elemental Carbon Emitted from Wood Burning in Traditional and Improved Cookstoves Using Controlled Cooking Test

Pooja Arora and Suresh Jain
Environmental Science & Technology **2015** 49 (6), 3958-3965

DOI: 10.1021/es504012v

82. Regional Ozone Impacts of Increased Natural Gas Use in the Texas Power Sector and Development in the Eagle Ford Shale

Adam P. Pacsi, Yosuke Kimura, Gary McGaughey, Elena C. McDonald-Buller, and David T. Allen
Environmental Science & Technology **2015** 49 (6), 3966-3973

DOI: 10.1021/es5055012

83. Effects of Regional Temperature on Electric Vehicle Efficiency, Range, and Emissions in the United States

Tugce Yuksel and Jeremy J. Michalek
Environmental Science & Technology **2015** 49 (6), 3974-3980

DOI: 10.1021/es505621s

84. Comment on “Methane Emissions from Process Equipment at Natural Gas Production Sites in the United States: Pneumatic Controllers”

Touché Howard
Environmental Science & Technology **2015** 49 (6), 3981-3982

DOI: 10.1021/acs.est.5b00507

85. Response to Comment on “Methane Emissions from Process Equipment at Natural Gas Production Sites in the United States: Pneumatic Controllers”

David T. Allen, David W. Sullivan, and Matt Harrison
Environmental Science & Technology **2015** 49 (6), 3983-3984

DOI: 10.1021/acs.est.5b00941

86. Correction to Critical Review of Low-Density Polyethylene’s Partitioning and Diffusion Coefficients for Trace Organic Contaminants and Implications for Its Use As a Passive Sampler

Rainer Lohmann
Environmental Science & Technology **2015** 49 (6), 3985-3985