





Richard Luthy

Silas H. Palmer Professor of Civil Engineering

Civil and Environmental Engineering

 Curriculum Vitae available Online

 Resume available Online

CONTACT INFORMATION

- **Administrator**

Michelle Otis Pelchat - Administrative Director ReNUWIt

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Bio

BIO

Richard G. Luthy is the Silas H. Palmer Professor of Civil and Environmental Engineering. He is the Director of the NSF Engineering Research Center for Re-inventing the Nation's Urban Water Infrastructure (ReNUWIt), a four-university consortium that seeks more sustainable solutions to urban water challenges in the arid west.

His area of teaching and research is environmental engineering and water quality with applications to water reuse, stormwater use, and systems-level analysis of our urban water challenges. His research addresses management of persistent organic contaminants and contaminants of emerging concern in natural systems that are engineered to improve water quality and protect the environment and human health.

Professor Luthy is a past chair of the National Research Council's Water Science and Technology Board and a former President of the Association of Environmental Engineering and Science Professors. He chaired the NRC's Committee on the Beneficial Use of Stormwater and Graywater. He is a registered professional engineer, a board certified environmental engineer, and a member of the National Academy of Engineering.

ACADEMIC APPOINTMENTS

- Professor, Civil and Environmental Engineering
- Member, Bio-X

HONORS AND AWARDS

- Gordon Maskew Fair Award, American Academy of Environmental Engineer & Scientists (2015)
- Chair, National Research Council Committee on Beneficial Use of Stormwater and Graywater (2013-2015)
- Fellow, Water Environment Federation (2013)
- Civil & Environmental Engineering Academy of Distinguished Alumni, University of California, Berkeley (2012)
- Distinguished Lecturer, AEESP (2011-2012)
- Einstein Chair Professor, Chinese Academy of Sciences (2005)
- Chair Professor, Dept. of Environ. Sci. and Eng., Tsinghua University, Beijing, China (2004-2007)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, National Academy of Engineering (1999 - present)

PROFESSIONAL EDUCATION

- Hon. Sci. D., Clarkson University, Potsdam, NY , Environmental Engineering (2005)
- Ph.D., University of California, Berkeley, CA , Civil Engineering (Environmental Engineering) (1976)
- M.S., University of California, Berkeley, CA , Civil Engineering (Environmental Engineering) (1974)
- M.S., University of Hawaii, Honolulu, HI , Ocean Engineering (1969)
- B.S., University of California, Berkeley, CA , Chemical Engineering (1967)

LINKS

- Luthy Group: <https://luthygroup.stanford.edu>
- ReNUWIt - Urban Water: <http://www.renuwit.org>

Teaching

COURSES

2019-20

- Movement and Fate of Organic Contaminants in Waters: CEE 270 (Aut)
- Physical and Chemical Treatment Processes: CEE 271A (Win)

2018-19

- Movement and Fate of Organic Contaminants in Waters: CEE 270 (Aut)
- Physical and Chemical Treatment Processes: CEE 271A (Win)

2017-18

- Advanced Topics in Watershed Systems Modeling: CEE 374M (Win, Spr)
- Movement and Fate of Organic Contaminants in Waters: CEE 270 (Aut)
- Physical and Chemical Treatment Processes: CEE 271A (Win)

2016-17

- Advanced Topics in Watershed Systems Modeling: CEE 374M (Win, Spr)
- Movement and Fate of Organic Contaminants in Waters: CEE 270 (Aut)
- Physical and Chemical Treatment Processes: CEE 271A (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Anja Malawi Brandon, Sahar El Abbadi, Kirin Furst, Katy Graham, Alex Szczuka

Doctoral Dissertation Advisor (AC)

Stephen Galdi

Master's Program Advisor

Jiacheng Fan, Hannah Hampson, Jorge Meraz, Meghan Perez, Jie Ren, Heather Strathearn, Ziyang Yuan

Doctoral (Program)

Chandler Brown, Bridget Gile, Yiran Li, James Pritchard

Publications

PUBLICATIONS

- **Global diversity and biogeography of bacterial communities in wastewater treatment plants** *NATURE MICROBIOLOGY*
Wu, L., Ning, D., Zhang, B., Li, Y., Zhang, P., Shan, X., Zhang, Q., Brown, M., Li, Z., Van Nostrand, J. D., Ling, F., Xiao, N., Zhang, et al
2019; 4 (7): 1183–95
- **Urban Stormwater to Enhance Water Supply** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Luthy, R. G., Sharvelle, S., Dillon, P.
2019; 53 (10): 5534–42
- **Global diversity and biogeography of bacterial communities in wastewater treatment plants.** *Nature microbiology*
Wu, L., Ning, D., Zhang, B., Li, Y., Zhang, P., Shan, X., Zhang, Q., Brown, M., Li, Z., Van Nostrand, J. D., Ling, F., Xiao, N., Zhang, et al
2019
- **Evaluation of pilot-scale biochar-amended woodchip bioreactors to remove nitrate, metals, and trace organic contaminants from urban stormwater runoff** *WATER RESEARCH*
Ashoori, N., Teixido, M., Spahr, S., LeFevre, G. H., Sedlak, D. L., Luthy, R. G.
2019; 154: 1–11
- **Occurrence of Urban-Use Pesticides and Management with Enhanced Stormwater Control Measures at the Watershed Scale** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Wolfand, J. M., Seller, C., Bell, C. D., Cho, Y., Oetjen, K., Hogue, T. S., Luthy, R. G.
2019; 53 (7): 3634–44
- **Quantifying the temperature dependence of nitrate reduction in woodchip bioreactors: experimental and modeled results with applied case-study** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*
Halaburka, B. J., LeFevre, G. H., Luthy, R. G.
2019; 5 (4): 782–97
- **Modeling Cost, Energy, and Total Organic Carbon Trade-Offs for Stormwater Spreading Basin Systems Receiving Recycled Water Produced Using Membrane-Based, Ozone-Based, and Hybrid Advanced Treatment Trains** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Bradshaw, J. L., Ashoori, N., Osorio, M., Luthy, R. G.
2019; 53 (6): 3128–39
- **Modeling Cost, Energy, and Total Organic Carbon Trade-Offs for Stormwater Spreading Basin Systems Receiving Recycled Water Produced Using Membrane-Based, Ozone-Based, and Hybrid Advanced Treatment Trains.** *Environmental science & technology*
Bradshaw, J. L., Ashoori, N., Osorio, M., Luthy, R. G.
2019; 53 (6): 3128–39
- **Urban Stormwater to Enhance Water Supply.** *Environmental science & technology*
Luthy, R. G., Sharvelle, S., Dillon, P.
2019
- **System Modeling, Optimization, and Analysis of Recycled Water and Dynamic Storm Water Deliveries to Spreading Basins for Urban Groundwater Recharge** *WATER RESOURCES RESEARCH*
Bradshaw, J. L., Osorio, M., Schmitt, T. G., Luthy, R. G.
2019; 55 (3): 2446–63
- **Evaluation of pilot-scale biochar-amended woodchip bioreactors to remove nitrate, metals, and trace organic contaminants from urban stormwater runoff.** *Water research*
Ashoori, N., Teixido, M., Spahr, S., LeFevre, G. H., Sedlak, D. L., Luthy, R. G.
2019; 154: 1–11
- **Benzotriazole Uptake and Removal in Vegetated Biofilter Mesocosms Planted with *Carex praegracilis*** *WATER*
Pritchard, J., Cho, Y., Ashoori, N., Wolfand, J. M., Sutton, J. D., Carolan, M. E., Gamez, E., Doan, K., Wiley, J. S., Luthy, R. G.
2018; 10 (11)
- **Activated carbon amendment for treatment of sediment contaminated with DDT and other hydrophobic organic pollutants concentrated 10-100x more than prior studies**

Pritchard, C., Cho, Y., Luthy, R.
AMER CHEMICAL SOC.2018

- **Additive remediation effectiveness of activated carbon amendment on fungal degradation of fluorene and its heteroatomic analogs: Dibenzofuran, dibenzothiophene, and carbazole**
Zhang, Z., Cho, Y., Wolfand, J., Choi, Y., Luthy, R.
AMER CHEMICAL SOC.2018
- **HOC mass transfer modeling with consideration of bioturbation and on-going sediment influx**
Cho, Y., Werner, D., Choi, Y., Luthy, R.
AMER CHEMICAL SOC.2018
- **Harnessing woodchips to remove pharmaceuticals and anticorrosive substances**
Tseng, Y., Lai, W., Tung, H., Luthy, R., Lin, A.
AMER CHEMICAL SOC.2018
- **Multiple Pathways to Bacterial Load Reduction by Stormwater Best Management Practices: Trade-Offs in Performance, Volume, and Treated Area** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Wolfand, J. M., Bell, C. D., Boehm, A. B., Hogue, T. S., Luthy, R. G.
2018; 52 (11): 6370–79
- **Enhanced removal of nutrients and trace organic contaminants from urban runoff using biochar and manganese oxide-coated sand geomedia in capture, treatment, and recharge systems**
Teixido, M., Charbonnet, J., Ashoori, N., Luthy, R., Sedlak, D.
AMER CHEMICAL SOC.2018
- **Harvesting urban stormwater runoff for water supply**
Luthy, R., Spahr, S., Ashoori, N., Planes, M., Sedlak, D.
AMER CHEMICAL SOC.2018
- **Connecting recycled water to spreading basins for combined operation and greater water supply resiliency**
Bradshaw, J., Ashoori, N., Gonzalez, M., Schmitt, T., Luthy, R.
AMER CHEMICAL SOC.2018
- **Bioturbation facilitates DDT sequestration by activated carbon against recontamination by sediment deposition.** *Environmental toxicology and chemistry*
Lin, D., Cho, Y., Tommerdahl, J. P., Werner, D., Luthy, R. G.
2018
- **Assessment of hydrophobic organic contaminant availability in sediments after sorbent amendment and its complete removal** *ENVIRONMENTAL POLLUTION*
Wu, Y., Cho, Y., Luthy, R. G., Kim, K., Jung, J., Gala, W. R., Choi, Y.
2017; 231: 1380–87
- **Modeling and Optimization of Recycled Water Systems to Augment Urban Groundwater Recharge through Underutilized Stormwater Spreading Basins** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Bradshaw, J. L., Luthy, R. G.
2017; 51 (20): 11809–19
- **Toolset for assessment of natural recovery from legacy contaminated sediment: Case study of Pallanza Bay, Lake Maggiore, Italy.** *Water research*
Lin, D., Cho, Y., Oen, A., Eek, E., Tommerdahl, J. P., Luthy, R. G.
2017; 121: 109-119
- **Evaluation of Mechanistic Models for Nitrate Removal in Woodchip Bioreactors** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Halaburka, B. J., Lefevre, G. H., Luthy, R. G.
2017; 51 (9): 5156-5164
- **Optimization of urban groundwater recharge systems that infiltrate combined stormwater and recycled water through surface spreading basins**
Bradshaw, J., Luthy, R.
AMER CHEMICAL SOC.2017
- **Benzotriazole (BT) and BT plant metabolites in crops irrigated with recycled water** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*

Lefevre, G. H., Lipsky, A., Hyland, K. C., Blaine, A. C., Higgins, C. P., Luthy, R. G.
2017; 3 (2): 213-223

- **Performance of retrievable activated carbons to treat sediment contaminated with polycyclic aromatic hydrocarbons** *JOURNAL OF HAZARDOUS MATERIALS*
Choi, Y., Wu, Y., Sani, B., Luthy, R. G., Werner, D., Kim, E.
2016; 320: 359-367
- **Non-equilibrium passive sampling of hydrophobic organic contaminants in sediment pore-water: PCB exchange kinetics** *JOURNAL OF HAZARDOUS MATERIALS*
Choi, Y., Wu, Y., Luthy, R. G., Kang, S.
2016; 318: 579-586
- **Escherichia coli Reduction by Bivalves in an Impaired River Impacted by Agricultural Land Use.** *Environmental science & technology*
Ismail, N. S., Tommerdahl, J. P., Boehm, A. B., Luthy, R. G.
2016; 50 (20): 11025-11033
- **Metabolization and degradation kinetics of the urban-use pesticide fipronil by white rot fungus Trametes versicolor.** *Environmental science. Processes & impacts*
Wolfand, J. M., Lefevre, G. H., Luthy, R. G.
2016; 18 (10): 1256-1265
- **Metabolism of the xenobiotic compound benzotriazole in Arabidopsis plants**
LeFevre, G., Lipsky, A., Mueller, C., Sattely, E., Luthy, R.
AMER CHEMICAL SOC.2016
- **Engineered natural treatment systems at the food-energy-water nexus: The influence of vegetation on micropollutant fate**
LeFevre, G., Portmann, A., Luthy, R.
AMER CHEMICAL SOC.2016
- **Metabolization and degradation kinetics of the urban-use pesticide fipronil by white rot fungi Trametes versicolo**
Wolfand, J., LeFevre, G., Luthy, R.
AMER CHEMICAL SOC.2016
- **Plant Assimilation Kinetics and Metabolism of 2-Mercaptobenzothiazole Tire Rubber Vulcanizers by Arabidopsis** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Lefevre, G. H., Portmann, A. C., Muller, C. E., Sattely, E. S., Luthy, R. G.
2016; 50 (13): 6762-6771
- **Reductive dehalogenation of disinfection byproducts by an activated carbon-based electrode system** *WATER RESEARCH*
Li, Y., Kemper, J. M., Datuin, G., Akey, A., Mitch, W. A., Luthy, R. G.
2016; 98: 354-362
- **Measuring and Modeling Organochlorine Pesticide Response to Activated Carbon Amendment in Tidal Sediment Mesocosms** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Thompson, J. M., Hsieh, C., Hoelen, T. P., Weston, D. P., Luthy, R. G.
2016; 50 (9): 4769-4777
- **COMPETING MECHANISMS FOR PERFLUOROALKYL ACID ACCUMULATION IN PLANTS REVEALED USING AN ARABIDOPSIS MODEL SYSTEM** *ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY*
Mueller, C. E., Lefevre, G. H., Timofte, A. E., Hussain, F. A., Sattely, E. S., Luthy, R. G.
2016; 35 (5): 1138-1147
- **Competing mechanisms for perfluoroalkyl acid accumulation in plants revealed using an Arabidopsis model system.** *Environmental toxicology and chemistry*
Müller, C. E., Lefevre, G. H., Timofte, A. E., Hussain, F. A., Sattely, E. S., Luthy, R. G.
2016; 35 (5): 1138-1147
- **Decision-making framework for the application of in-situ activated carbon amendment to sediment.** *Journal of hazardous materials*
Choi, Y., Cho, Y., Gala, W. R., Hoelen, T. P., Werner, D., Luthy, R. G.
2016; 306: 184-192

- **Development of a novel non-equilibrium passive sampling method using polyethylene with multiple thicknesses**
Kim, K., Jung, J., Choi, Y., Luthy, R.
AMER CHEMICAL SOC.2016
- **Discovery of benzotriazole and novel plant metabolites in Arabidopsis and food crops**
LeFevre, G., Lipsky, A., Sattely, E., Higgins, C., Hyland, K., Luthy, R.
AMER CHEMICAL SOC.2016
- **Secondary environmental impacts of remedial alternatives for sediment contaminated with hydrophobic organic contaminants** *JOURNAL OF HAZARDOUS MATERIALS*
Choi, Y., Thompson, J. M., Lin, D., Cho, Y., Ismail, N. S., Hsieh, C., Luthy, R. G.
2016; 304: 352-359
- **Predicted effectiveness of in-situ activated carbon amendment for field sediment sites with variable site- and compound-specific characteristics** *JOURNAL OF HAZARDOUS MATERIALS*
Choi, Y., Cho, Y., Luthy, R. G., Werner, D.
2016; 301: 424-432
- **Secondary environmental impacts of remedial alternatives for sediment contaminated with hydrophobic organic contaminants.** *Journal of hazardous materials*
Choi, Y., Thompson, J. M., Lin, D., Cho, Y. M., Ismail, N. S., Hsieh, C. H., Luthy, R. G.
2016; 304: 352-59
- **Predicted effectiveness of in-situ activated carbon amendment for field sediment sites with variable site- and compound-specific characteristics.** *Journal of hazardous materials*
Choi, Y., Cho, Y. M., Luthy, R. G., Werner, D.
2016; 301: 424-32
- **Novel Probe for in Situ Measurement of Freely Dissolved Aqueous Concentration Profiles of Hydrophobic Organic Contaminants at the Sediment-Water Interface** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*
Lin, D., Eek, E., Oen, A., Cho, Y., Cornelissen, G., Tommerdahl, J., Luthy, R. G.
2015; 2 (11): 320-324
- **Wastewater-effluent-dominated streams as ecosystem-management tools in a drier climate** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*
Luthy, R. G., Sedlak, D. L., Plumlee, M. H., Austin, D., Resh, V. H.
2015; 13 (9): 477-485
- **Rapid Phytotransformation of Benzotriazole Generates Synthetic Tryptophan and Auxin Analogs in Arabidopsis.** *Environmental science & technology*
Lefevre, G. H., Müller, C. E., Li, R. J., Luthy, R. G., Sattely, E. S.
2015; 49 (18): 10959-10968
- **Urban Water-Supply Reinvention** *DAEDALUS*
Luthy, R. G., Sedlak, D. L.
2015; 144 (3): 72-82
- **In situ sediment treatment using activated carbon: A demonstrated sediment cleanup technology.** *Integrated environmental assessment and management*
Patmont, C. R., Ghosh, U., LaRosa, P., Menzie, C. A., Luthy, R. G., Greenberg, M. S., Cornelissen, G., Eek, E., Collins, J., Hull, J., Hjarland, T., Glaza, E., Bleiler, et al
2015; 11 (2): 195-207
- **Modeling uptake of hydrophobic organic contaminants into polyethylene passive samplers.** *Environmental science & technology*
Thompson, J. M., Hsieh, C., Luthy, R. G.
2015; 49 (4): 2270-2277
- **Improvement of Urban Lake Water Quality by Removal of Escherichia coli through the Action of the Bivalve Anodonta californiensis.** *Environmental science & technology*
Ismail, N. S., Dodd, H., Sassoubre, L. M., Horne, A. J., Boehm, A. B., Luthy, R. G.
2015; 49 (3): 1664-1672
- **Issues of Governance, Policy, and Law in Managing Urban-Rural and Groundwater-Surface Water Connections**
Nelson, R., Bischel, H. N., Luthy, R. G., Thompson, B. H., Grafton, Q., Daniell, K. A., Nauges, C., Rinaudo, J. D., Chan, N. W.

SPRINGER-VERLAG BERLIN.2015: 463–88

- **Assessment of the crop coefficient for saltgrass under native riparian field conditions in the desert southwest** *HYDROLOGICAL PROCESSES*
Bawazir, A. S., Luthy, R., King, J. P., Tanzy, B. F., Solis, J.
2014; 28 (25): 6163-6171
- **Engagement at the Science-Policy Interface** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Hering, J. G., Dzombak, D. A., Green, S. A., Luthy, R. G., Swackhamer, D.
2014; 48 (19): 11031-11033
- **Engagement at the science-policy interface.** *Environmental science & technology*
Hering, J. G., Dzombak, D. A., Green, S. A., Luthy, R. G., Swackhamer, D.
2014; 48 (19): 11031-11033
- **Uptake of Contaminants of Emerging Concern by the Bivalves *Anodonta californiensis* and *Corbicula fluminea*.** *Environmental science & technology*
Ismail, N. S., Müller, C. E., Morgan, R. R., Luthy, R. G.
2014; 48 (16): 9211-9219
- **Use of bivalves in natural systems for removal of contaminants of emerging concern**
Ismail, N. S., Mueller, C. E., Morgan, R. R., Luthy, R. G.
AMER CHEMICAL SOC.2014
- **Thin-layer AC placement for sequestering DDT contaminated sediment facilitated by bioturbation**
Lin, D., Cho, Y., Werner, D., Tommerdahl, J., Luthy, R. G.
AMER CHEMICAL SOC.2014
- **Remedy performance monitoring at contaminated sediment sites using profiling solid phase microextraction (SPME) polydimethylsiloxane (PDMS) fibers (vol 16, pg 445, 2014)** *ENVIRONMENTAL SCIENCE-PROCESSES & IMPACTS*
Thomas, C., Lampert, D., Reible, D., Janssen, E., Luthy, R. G.
2014; 16 (8): 2049
- **In Situ Sequestration of Hydrophobic Organic Contaminants in Sediments under Stagnant Contact with Activated Carbon. 1. Column Studies.** *Environmental science & technology*
Choi, Y., Cho, Y., Luthy, R. G.
2014; 48 (3): 1835-1842
- **In Situ Sequestration of Hydrophobic Organic Contaminants in Sediments under Stagnant Contact with Activated Carbon. 2. Mass Transfer Modeling.** *Environmental science & technology*
Choi, Y., Cho, Y., Werner, D., Luthy, R. G.
2014; 48 (3): 1843-1850
- **Bioturbation Delays Attenuation of DDT by Clean Sediment Cap but Promotes Sequestration by Thin-Layered Activated Carbon** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Lin, D., Cho, Y., Werner, D., Luthy, R. G.
2014; 48 (2): 1175-1183
- **Recycled water for augmenting urban streams in mediterranean-climate regions: a potential approach for riparian ecosystem enhancement** *HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES*
Lawrence, J. E., Pavia, C. P., Kaing, S., Bischel, H. N., Luthy, R. G., Resh, V. H.
2014; 59 (3-4): 488-501
- **Economic and Ecological Costs and Benefits of Streamflow Augmentation Using Recycled Water in a California Coastal Stream** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Halaburka, B. J., Lawrence, J. E., Bischel, H. N., Hsiao, J., Plumlee, M. H., Resh, V. H., Luthy, R. G.
2013; 47 (19): 10735-10743
- **A Changing Framework for Urban Water Systems** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Hering, J. G., Waite, T. D., Luthy, R. G., Drewes, J. E., Sedlak, D. L.
2013; 47 (19): 10721-10726
- **Renewing Urban Streams with Recycled Water for Streamflow Augmentation: Hydrologic, Water Quality, and Ecosystem Services Management** *ENVIRONMENTAL ENGINEERING SCIENCE*

Bischel, H. N., Lawrence, J. E., Halaburka, B. J., Plumlee, M. H., Bawazir, A. S., King, J. P., McCray, J. E., Resh, V. H., Luthy, R. G.
2013; 30 (8): 455-479

- **Hyporheic Zone in Urban Streams: A Review and Opportunities for Enhancing Water Quality and Improving Aquatic Habitat by Active Management** *ENVIRONMENTAL ENGINEERING SCIENCE*
Lawrence, J. E., Skold, M. E., Hussain, F. A., Silverman, D. R., Resh, V. H., Sedlak, D. L., Luthy, R. G., McCray, J. E.
2013; 30 (8): 480-501
- **Unit Process Wetlands for Removal of Trace Organic Contaminants and Pathogens from Municipal Wastewater Effluents** *ENVIRONMENTAL ENGINEERING SCIENCE*
Jasper, J. T., Nguyen, M. T., Jones, Z. L., Ismail, N. S., Sedlak, D. L., Sharp, J. O., Luthy, R. G., Horne, A. J., Nelson, K. L.
2013; 30 (8): 421-436
- **Polyethylene-Water Partitioning Coefficients for Parent- and Alkylated-Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Choi, Y., Cho, Y., Luthy, R. G.
2013; 47 (13): 6943-6950
- **Measurement and Modeling of Activated Carbon Performance for the Sequestration of Parent- and Alkylated-Polycyclic Aromatic Hydrocarbons in Petroleum-Impacted Sediments** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Choi, Y., Cho, Y., Gala, W. R., Luthy, R. G.
2013; 47 (2): 1024-1032
- **A Changing Framework for Urban Water Systems** *Environmental Science & Technology, ASAP*
Hering, Janet, G., Waite, T., David, Luthy, Richard, G., Drewes, Jorg, E., Sedlak, David, L.
2013
- **Design options for a more sustainable urban water environment.** *Environmental science & technology*
Luthy, R. G.
2013; 47 (19): 10719-20
- **Assessment of the crop coefficient for saltgrass under native riparian field conditions in the desert southwest** *Hydrological Processes*
Bawazir, A. S., Luthy, R., King, J. P., Tanzy, B. F., Solis, J.
2013
- **Economic and Ecological Costs and Benefits of Streamflow Augmentation Using Recycled Water in a California Coastal Stream** *Environmental Science & Technology*
Halaburka, Brian, J., Lawrence, Justin, E., Bischel, Heather, N., Hsiao, J., Plumlee, Megan, H., Resh, Vincent, H., Luthy, Richard, G.
2013
- **Hyporheic zone in urban streams: A review and opportunities for enhancing water quality and improving aquatic habitat by active management** *Environmental Engineering Science*
Lawrence, J. E., Skold, M. E., Hussain, F. A., Silverman, D. R., Resh, V. H., Sedlak, D. L., Luthy, Richard, G.
2013; 8 (30): 480-501
- **Introduction: Reinventing Urban Water Infrastructure** *Environmental Engineering Science*
Sedlak, D. L., Drewes, J. E., Luthy, R. G.
2013; 30 (8): 393-394
- **Design Options for a More Sustainable Urban Water Environment** *Environmental Science & Technology*
Luthy, R. G.
2013; 47 (19): 10719-10720
- **Kinetics and pathways for the debromination of polybrominated diphenyl ethers by bimetallic and nanoscale zerovalent iron: Effects of particle properties and catalyst** *CHEMOSPHERE*
Zhuang, Y., Jin, L., Luthy, R. G.
2012; 89 (4): 426-432
- **Assessment of Nontoxic, Secondary Effects of Sorbent Amendment to Sediments on the Deposit-Feeding Organism *Neanthes arenaceodentata*** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Janssen, E. M., Choi, Y., Luthy, R. G.

2012; 46 (7): 4134-4141

- **Kinetics and pathways for the debromination of polybrominated diphenyl ethers by bimetallic and nanoscale zerovalent iron: Effects of material properties and catalyst**
Zhuang, Y., Jin, L., Luthy, R. G.
AMER CHEMICAL SOC.2012
- **Hunters Point seven-year narrative: In situ sequestration of HOCs in sediment by activated carbon sorbent amendment[p]**
Cho, Y., Choi, Y., Werner, D., Luthy, R. G.
AMER CHEMICAL SOC.2012
- **Long-term monitoring and modeling of the mass transfer of polychlorinated biphenyls in sediment following pilot-scale in-situ amendment with activated carbon.** *Journal of contaminant hydrology*
Cho, Y., Werner, D., Choi, Y., Luthy, R. G.
2012; 129-130: 25-37
- **Long-term monitoring and modeling of the mass transfer of polychlorinated biphenyls in sediment following pilot-scale in-situ amendment with activated carbon** *JOURNAL OF CONTAMINANT HYDROLOGY*
Cho, Y., Werner, D., Choi, Y., Luthy, R. G.
2012; 129: 25-37
- **Intra-particle migration of mercury in granular polysulfide-rubber-coated activated carbon (PSR-AC)** *CHEMOSPHERE*
Kim, E., Masue-Slowey, Y., Fendorf, S., Luthy, R. G.
2012; 86 (6): 648-654
- **Sorption of Organic Compounds to Fresh and Field-Aged Activated Carbons in Soils and Sediments** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
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