





Richard Luthy

Silas H. Palmer Professor of Civil Engineering and Professor, by courtesy, of Oceans Civil and Environmental Engineering

 Curriculum Vitae available Online

 Resume available Online

CONTACT INFORMATION

- **Administrator**

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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
- Professor (By courtesy), Oceans
- 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>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dick Luthy's 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 organic contaminants and contaminants of emerging concern in natural systems that are engineered to improve water quality and protect the environment and human health.

He chaired the recent National Research Council's study on the beneficial use of graywater and stormwater. He is a member of the National Academy of Engineering, the Academy of Distinguished Alumni—Department of Civil & Environmental Engineering, UC Berkeley, and a Fellow of the Water Environment Federation.

He was the Director of the former NSF Engineering Research Center for Re-inventing the Nation's Urban Water Infrastructure (ReNUWIt).

Teaching

COURSES

2023-24

- Case Studies in Water Supply and Management in California and the West: CEE 279X (Spr)
- Movement and Fate of Organic Contaminants in Waters: CEE 270 (Aut)
- Physical and Chemical Treatment Processes: CEE 271A (Win)

2022-23

- Environmental Engineering Seminar: CEE 269A (Aut)
- Movement and Fate of Organic Contaminants in Waters: CEE 270 (Aut)
- Physical and Chemical Treatment Processes: CEE 271A (Win)

2021-22

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

2020-21

- 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)

Jessica MacDonald

Doctoral Dissertation Advisor (AC)

Chandler Brown, Bridget Gile

Master's Program Advisor

Haocheng Fan, Weng Ian Jeong, Nimisha Singla, Yulitzi Vizcarra

Doctoral (Program)

Chandler Brown, Bridget Gile

Publications

PUBLICATIONS

- **Inducing Evapotranspiration Reduction in an Engineered Natural System to Manage Saltcedar in Riparian Areas of Arid Environments** *WATER*
Solis, J. C., Bawazir, A., Tanzy, B. F., Luthy, R. G., Jeon, S.
2024; 16 (1)
- **Predicting PFAS and Hydrophilic Trace Organic Contaminant Transport in Black Carbon-Amended Engineered Media Filters for Improved Stormwater Runoff Treatment.** *Environmental science & technology*
Pritchard, J. C., Cho, Y. M., Hawkins, K. M., Spahr, S., Higgins, C. P., Luthy, R. G.
2023
- **Urban stormwater capture for water supply: look out for persistent, mobile and toxic substances** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*
Mutzner, L., Zhang, K., Luthy, R. G., Arp, H. H., Spahr, S.
2023
- **Obituary Perry L. McCarty 1931-2023** *NATURE SUSTAINABILITY*
Criddle, C. S., Luthy, R. G., Rittmann, B. E., Shin, C.
2023
- **Black Carbon-Amended Engineered Media Filters for Improved Treatment of Stormwater Runoff.** *ACS environmental Au*
Pritchard, J. C., Hawkins, K. M., Cho, Y., Spahr, S., Struck, S. D., Higgins, C. P., Luthy, R. G.
2023; 3 (1): 34-46
- **Dissolved Methane Recovery and Trace Contaminant Fate Following Mainstream Anaerobic Treatment of Municipal Wastewater.** *ACS ES&T engineering*
Galdi, S. M., Szczuka, A., Shin, C., Mitch, W. A., Luthy, R. G.
2023; 3 (1): 121-130
- **Performance of biochars for the elimination of trace organic contaminants and metals from urban stormwater** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*
Spahr, S., Teixido, M., Gall, S. S., Pritchard, J. C., Hagemann, N., Helmreich, B., Luthy, R. G.
2022
- **Urban Water Revolution: Sustainable Water Futures for California Cities** *JOURNAL OF ENVIRONMENTAL ENGINEERING*
Luthy, R. G., Wolfand, J. M., Bradshaw, J. L.
2020; 146 (7)
- **Hydrophilic trace organic contaminants in urban stormwater: occurrence, toxicological relevance, and the need to enhance green stormwater infrastructure** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*

- Spahr, S., Teixido, M., Sedlak, D. L., Luthy, R. G.
2020; 6 (1): 15–44
- **Urban Stormwater to Enhance Water Supply** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Luthy, R. G., Sharvelle, S., Dillon, P.
2019; 53 (10): 5534–42
 - **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
 - **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
 - **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
- **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
- **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
- **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: 352-9
- **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
- **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
- **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
- **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
- **Design options for a more sustainable urban water environment.** *Environmental science & technology*
Luthy, R. G.
2013; 47 (19): 10719-20
- **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
- **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
- **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*
Oen, A. M., Beckingham, B., Ghosh, U., Krusa, M. E., Luthy, R. G., Hartnik, T., Henriksen, T., Cornelissen, G.
2012; 46 (2): 810-817
- **Management Experiences and Trends for Water Reuse Implementation in Northern California** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
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