



Yeo-Myoung Cho

Sr Research Engineer

Civil and Environmental Engineering

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Sr Research Engineer, Civil and Environmental Engineering

Publications

PUBLICATIONS

- **High-throughput Raman platform for microplastics detection on filtration membranes.** *Journal of hazardous materials*
Yoon, H. J., Il Jang, J., Cho, Y. M., Park, S., Kim, H. M., Kim, H. M.
2025; 499: 140101
- **Hydrophilic Organic Compound Migration in Biochar-Amended Stormwater Filters with Dynamic Conditions and Varied Background Dissolved Organic Carbon Contents.** *Environmental science & technology*
Pritchard, J. C., Cho, Y. M., Spahr, S., Luthy, R. G.
2025
- **Feasibility evaluation of a blended cover with activated carbon for in-situ stabilization of DDT in sediment.** *Journal of contaminant hydrology*
Cho, Y., Pauken, B. J., Tovkach, A. E., Fringer, O. B., Monismith, S. G., Luthy, R. G.
2024; 267: 104445
- **Flow rate and kinetics of trace organic contaminants removal in black carbon-amended engineered media filters for improved stormwater runoff treatment.** *Water research*
Pritchard, J. C., Hawkins, K. M., Cho, Y. M., Spahr, S., Higgins, C. P., Luthy, R. G.
2024; 258: 121811
- **Controlling saturation to improve per- and polyfluoroalkyl substance (PFAS) removal in biochar-amended stormwater bioretention systems** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*
Hawkins, K., Pritchard, J., Struck, S., Cho, Y., Luthy, R. G., Higgins, C. P.
2024
- **Unveiling microplastics with hyperspectral Raman imaging: From macroscale observations to real-world applications.** *Journal of hazardous materials*
Sim, W., Song, S. W., Park, S., Jang, J. I., Kim, J. H., Cho, Y. M., Kim, H. M.
2023; 463: 132861
- **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
- **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

- **Fate of Hexabromocyclododecane (HBCD), A Common Flame Retardant, In Polystyrene-Degrading Mealworms: Elevated HBCD Levels in Egested Polymer but No Bioaccumulation.** *Environmental science & technology*
Brandon, A. M., El Abbadi, S. H., Ibekwe, U. A., Cho, Y., Wu, W., Criddle, C. S.
2019
- **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
- **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)
- **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
- **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
- **Benzotriazole removal mechanisms in biofilters planted with *Carex praegracilis***
Pritchard, C., Cho, Y., Ashoori, N.
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; 37 (7): 2013–21
- **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
- **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
- **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
- **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
- **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
- **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
- **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
- **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
- **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

● **Assessment of Advective Porewater Movement Affecting Mass Transfer of Hydrophobic Organic Contaminants in Marine Intertidal Sediment** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*

Cho, Y., Werner, D., Moffett, K. B., Luthy, R. G.
2010; 44 (15): 5842-5848

● **Field Application of Activated Carbon Amendment for In-Situ Stabilization of Polychlorinated Biphenyls in Marine Sediment** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*

Cho, Y., Ghosh, U., Kennedy, A. J., Grossman, A., Ray, G., Tomaszewski, J. E., Smithenry, D. W., Bridges, T. S., Luthy, R. G.
2009; 43 (10): 3815-3823

● **Field methods for amending marine sediment with activated carbon and assessing treatment effectiveness** *MARINE ENVIRONMENTAL RESEARCH*

Cho, Y., Smithenry, D. W., Ghosh, U., Kennedy, A. J., Millward, R. N., Bridges, T. S., Luthy, R. G.
2007; 64 (5): 541-555

● **Treatment and containment of contaminated sediments** *NATO Advanced Research Workshop on Assessment and Remediation of Contaminated Sediments*

Tomaszewski, J. E., Smithenry, D. W., Cho, Y., Luthy, R. G., Lowry, G. V., Reible, D., Macek, T., Sura, M., Chrastilova, Z., Demnerova, K., Mackova, M., Pavlikova, D., Szekeres, et al
SPRINGER.2006: 137-178