

Stanford



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

- **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.
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- **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*
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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]**
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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*
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- **Field methods for amending marine sediment with activated carbon and assessing treatment effectiveness** *MARINE ENVIRONMENTAL RESEARCH*
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- **Treatment and containment of contaminated sediments** *NATO Advanced Research Workshop on Assessment and Remediation of Contaminated Sediments*
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