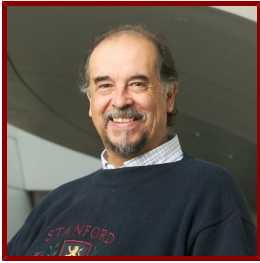


Stanford



James Leckie

C.L. Peck, Class of 1906 Professor in the School of Engineering, Emeritus
Civil and Environmental Engineering

CONTACT INFORMATION

- **Administrator**

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Bio

BIO

Leckie investigates chemical pollutant behavior in natural aquatic systems and engineered processes, specifically the environmental aspects of surface and colloid chemistry and the geochemistry of trace elements. New research efforts are focused on the development of techniques and models for assessment of exposure of humans to toxic chemicals. Specific attention has been paid to the evaluation of exposure of young children to toxic chemicals. Other interests include technology transfer and the development of environmental science programs in developing nations.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Civil and Environmental Engineering

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Elected Member, National Academy of Engineering (2013 - present)
- Appointed Chair Professor in the Department of Environmental Science and Engineering, Tsinghua University, Beijing, China (2013 - present)

PROFESSIONAL EDUCATION

- PhD, Harvard University (1970)

LINKS

- <https://web.stanford.edu/~jleckie>: <https://web.stanford.edu/~jleckie>

Teaching

COURSES

2019-20

- Aquatic Chemistry: CEE 273 (Aut)
- Urban Development and Governance: CEE 136, CEE 236, PUBLPOL 130, PUBLPOL 230, URBANST 130 (Win)

Publications

PUBLICATIONS

- **Quantification and Analysis of Micro-Level Activities Data from Children Aged 1-12 Years Old for Use in the Assessments of Exposure to Recycled Tire on Turf and Playgrounds.** *International journal of environmental research and public health*
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2015; 156: 952-960
- **A Self-Assembled Superhydrophobic Electrospun Carbon-Silica Nanofiber Sponge for Selective Removal and Recovery of Oils and Organic Solvents** *CHEMISTRY-A EUROPEAN JOURNAL*
Tai, M. H., Tan, B. Y., Juay, J., Sun, D. D., Leckie, J. O.
2015; 21 (14): 5395-5402
- **Effect of humic acid on the sorption of perfluorooctane sulfonate (PFOS) and perfluorobutane sulfonate (PFBS) on boehmite** *CHEMOSPHERE*
Wang, F., Shih, K., Leckie, J. O.
2015; 118: 213-218
- **Highly Efficient and Flexible Electrospun Carbon-Silica Nanofibrous Membrane for Ultrafast Gravity-Driven Oil-Water Separation** *ACS APPLIED MATERIALS & INTERFACES*
Tai, M. H., Gao, P., Tan, B. Y., Sun, D. D., Leckie, J. O.
2014; 6 (12): 9393-9401
- **Effects of inorganic anions on cadmium sorption behaviours on titanate nanotube surfaces** *ENVIRONMENTAL TECHNOLOGY*
Zhang, L., Du, A. J., Sun, D. D., Leckie, J. O.
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- **Enterococcus spp on fomites and hands indicate increased risk of respiratory illness in child care centers** *AMERICAN JOURNAL OF INFECTION CONTROL*
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 - **An Ontology-based Service Model For Smart Infrastructure Design** *International Conference on Cloud Computing and Service Computing (CSC)*
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 - **Effect of bromide on the chlorination of a polyamide membrane** *DESALINATION*
Kwon, Y., Joksimovic, R., Kim, I., Leckie, J. O.
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Beamer, P. I., Canales, R. A., Bradman, A., Leckie, J. O.
2009; 35 (8): 1202-1209
 - **Influence of a prolonged solid retention time environment on nitrification/denitrification and sludge production in a submerged membrane bioreactor** *DESALINATION*
Teck, H. C., Loong, K. S., Sun, D. D., Leckie, J. O.
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 - **Effect of membrane chemistry and coating layer on physiochemical properties of thin film composite polyamide RO and NF membranes II. Membrane physiochemical properties and their dependence on polyamide and coating layers** *DESALINATION*
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2009; 242 (1-3): 168-182
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- **Fabrication and photocatalytic activity of porous TiO₂ nanowire microspheres by surfactant-mediated spray drying process** *MATERIALS RESEARCH BULLETIN*
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