



Stanford



Craig Criddle

Professor of Civil and Environmental Engineering and Senior Fellow, by courtesy, at the Woods Institute for the Environment

 Curriculum Vitae available Online

 Resume available Online

CONTACT INFORMATION

- **Administrator**

Jack Chiueh - Administrative Associate

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Bio

BIO

Criddle's research focuses on biotechnology and microbial ecology for clean water, clean energy, and healthy ecosystems.

ACADEMIC APPOINTMENTS

- Professor, Civil and Environmental Engineering
- Senior Fellow (By courtesy), Stanford Woods Institute for the Environment
- Member, Bio-X
- Affiliate, Precourt Institute for Energy
- Senior Fellow, Stanford Woods Institute for the Environment

ADMINISTRATIVE APPOINTMENTS

- Director, William and Cloy Codiga Resource Recovery Center, (2014- present)

PROFESSIONAL EDUCATION

- PhD, Stanford University , Civil and Environmental Engineering (1990)
- MS, Utah State University , Civil and Environmental Engineering (1984)
- BS, Utah State University , Civil and Environmental Engineering (1982)
- BA, Utah State University , Spanish (1982)

LINKS

- <http://www.stanford.edu/group/evpilot>: <http://www.stanford.edu/group/evpilot>

Teaching

COURSES

2018-19

- Aquatic Chemistry and Biology: CEE 177 (Aut)

- Environmental Biotechnology: CEE 271B (Win)
- Helminthic Disease Monitoring and Control.: CEE 371L (Win)
- Process Design for Environmental Biotechnology: CEE 275B (Spr)

2017-18

- Aquatic Chemistry and Biology: CEE 177 (Aut)
- Environmental Biotechnology: CEE 271B (Win)
- Helminthic Disease Monitoring and Control.: CEE 371L (Win)
- Introduction to Physiology of Microbes in Biofilms: CEE 374B (Win)

2016-17

- Aquatic Chemistry and Biology: CEE 177 (Aut)
- Environmental Biotechnology: CEE 271B (Win)
- Helminthic Disease Monitoring and Control.: CEE 371L (Win)
- Introduction to Physiology of Microbes in Biofilms: CEE 374B (Win)

2015-16

- Aquatic Chemistry and Biology: CEE 177 (Aut)
- Environmental Biotechnology: CEE 271B (Win)
- Helminthic Disease Monitoring and Control.: CEE 371L (Win)
- Introduction to Physiology of Microbes in Biofilms: CEE 374B (Win)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Nils Aversch, Eun Jung Lee, Chungheon Shin, Sunggeun Woo

Doctoral Dissertation Advisor (AC)

Jorge Meraz, Yinuo Yao

Master's Program Advisor

Wenjia Cai, Andrew Kim, Junyu Zhang

Doctoral (Program)

Emir Aksuyek, Andrew Kim, Anita Shao

Publications

PUBLICATIONS

- **Engineering the Dark Food Chain** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
El Abbadi, S. H., Criddle, C. S.
2019; 53 (5): 2273–87
- **Niche Differentiation among Three Closely Related Competibacteraceae Clades at a Full-Scale Activated Sludge Wastewater Treatment Plant and Putative Linkages to Process Performance** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Brand, V. R., Crosby, L. D., Criddle, C. S.
2019; 85 (5)
- **Can biotechnology turn the tide on plastics?** *Current opinion in biotechnology*
Brandon, A. M., Criddle, C. S.

2019; 57: 160–66

- **Niche differentiation among three closely related Competibacteraceae clades at a full-scale activated sludge wastewater treatment plant and putative linkages to process performance.** *Applied and environmental microbiology*
Brand, V. R., Crosby, L. D., Criddle, C. S.
2018
- **Ubiquity of polystyrene digestion and biodegradation within yellow mealworms, larvae of *Tenebrio molitor* Linnaeus (Coleoptera: Tenebrionidae).** *Chemosphere*
Yang, S., Wu, W., Brandon, A. M., Fan, H., Receveur, J. P., Li, Y., Wang, Z., Fan, R., McClellan, R. L., Gao, S., Ning, D., Phillips, D. H., Peng, et al
2018; 212: 262–71
- **Biodegradation of Polyethylene and Plastic Mixtures in Mealworms (Larvae of *Tenebrio molitor*) and Effects on the Gut Microbiome.** *Environmental science & technology*
Brandon, A. M., Gao, S., Tian, R., Ning, D., Yang, S., Zhou, J., Wu, W., Criddle, C. S.
2018; 52 (11): 6526–33
- **Decision support toolkit for integrated analysis and design of reclaimed water infrastructure** *WATER RESEARCH*
Lee, E., Criddle, C. S., Geza, M., Cath, T. Y., Freyberg, D. L.
2018; 134: 234–52
- **Biocomposite Fiber-Matrix Treatments that Enhance In-Service Performance Can Also Accelerate End-of-Life Fragmentation and Anaerobic Biodegradation to Methane** *JOURNAL OF POLYMERS AND THE ENVIRONMENT*
Ryan, C. A., Billington, S. L., Criddle, C. S.
2018; 26 (4): 1715–26
- **Biodegradation of polystyrene wastes in yellow mealworms (larvae of *Tenebrio molitor* Linnaeus): Factors affecting biodegradation rates and the ability of polystyrene-fed larvae to complete their life cycle** *CHEMOSPHERE*
Yang, S., Brandon, A., Flanagan, J., Yang, J., Ning, D., Cai, S., Fan, H., Wang, Z., Ren, J., Benbow, E., Ren, N., Waymouth, R. M., Zhou, et al
2018; 191: 979–89
- **Expanding the range of polyhydroxyalkanoates synthesized by methanotrophic bacteria through the utilization of omega-hydroxyalkanoate co-substrates.** *AMB Express*
Myung, J., Flanagan, J. C., Waymouth, R. M., Criddle, C. S.
2017; 7 (1): 118-?
- **Addressing the Issue of Microplastics in the Wake of the Microbead-Free Waters Act-A New Standard Can Facilitate Improved Policy** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
McDevitt, J. P., Criddle, C. S., Morse, M., Hale, R. C., Bott, C. B., Rochman, C. M.
2017; 51 (12): 6611–17
- **Microplastics pollution and reduction strategies** *FRONTIERS OF ENVIRONMENTAL SCIENCE & ENGINEERING*
Wu, W., Yang, J., Criddle, C. S.
2017; 11 (1)
- **An integrated planning tool for design of recycled water distribution networks** *ENVIRONMENTAL MODELLING & SOFTWARE*
Lee, E. J., Freyberg, D. L., Criddle, C. S.
2016; 84: 311-325
- **Poly(hydroxyalkanoate)s from Waste Biomass: A Combined Chemical-Biological Approach** *CHEMISTRYSELECT*
Flanagan, J. C., Myung, J., Criddle, C. S., Waymouth, R. M.
2016; 1 (10): 2327-2331
- **Low energy emulsion-based fermentation enabling accelerated methane mass transfer and growth of poly(3-hydroxybutyrate)-accumulating methanotrophs.** *Bioresource technology*
Myung, J., Kim, M., Pan, M., Criddle, C. S., Tang, S. K.
2016; 207: 302-307
- **Methane or methanol-oxidation dependent synthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by obligate type II methanotrophs** *PROCESS BIOCHEMISTRY*
Myung, J., Flanagan, J. C., Waymouth, R. M., Criddle, C. S.

2016; 51 (5): 561-567

- **Long-term cultivation of a stable Methylocystis-dominated methanotrophic enrichment enabling tailored production of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)** *BIORESOURCE TECHNOLOGY*
Myung, J., Galega, W. M., Van Nostrand, J. D., Yuan, T., Zhou, J., Criddle, C. S.
2015; 198: 811-818
- **Production of Nitrous Oxide from Nitrite in Stable Type II Methanotrophic Enrichments.** *Environmental science & technology*
Myung, J., Wang, Z., Yuan, T., Zhang, P., Van Nostrand, J. D., Zhou, J., Criddle, C. S.
2015; 49 (18): 10969-10975
- **Optimization of Methanotrophic Growth and Production of Poly(3-Hydroxybutyrate) in a High-Throughput Microbioreactor System** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Sundstrom, E. R., Criddle, C. S.
2015; 81 (14): 4767-4773
- **Use of low cost and easily regenerated Prussian Blue cathodes for efficient electrical energy recovery in a microbial battery** *ENERGY & ENVIRONMENTAL SCIENCE*
Xie, X., Ye, M., Liu, C., Hsu, P., Criddle, C. S., Cui, Y.
2015; 8 (2): 546-551
- **Long-term cultivation of a stable Methylocystis-dominated methanotrophic enrichment enabling tailored production of poly(3-hydroxybutyrate-co-3-hydroxyvalerate).** *Bioresource technology*
Myung, J., Galega, W. M., Van Nostrand, J. D., Yuan, T., Zhou, J., Criddle, C. S.
2015; 198: 811-18
- **Design and fabrication of bioelectrodes for microbial bioelectrochemical systems** *ENERGY & ENVIRONMENTAL SCIENCE*
Xie, X., Criddle, C., Cui, Y.
2015; 8 (12): 3418-3441
- **Enhancing the nanomaterial bio-interface by addition of mesoscale secondary features: crinkling of carbon nanotube films to create subcellular ridges.** *ACS nano*
Xie, X., Zhao, W., Lee, H. R., Liu, C., Ye, M., Xie, W., Cui, B., Criddle, C. S., Cui, Y.
2014; 8 (12): 11958-11965
- **Disassembly and reassembly of polyhydroxyalkanoates: Recycling through abiotic depolymerization and biotic repolymerization** *BIORESOURCE TECHNOLOGY*
Myung, J., Strong, N. I., Galega, W. M., Sundstrom, E. R., Flanagan, J. C., Woo, S., Waymouth, R. M., Criddle, C. S.
2014; 170: 167-174
- **Disassembly and reassembly of polyhydroxyalkanoates: recycling through abiotic depolymerization and biotic repolymerization.** *Bioresource technology*
Myung, J., Strong, N. I., Galega, W. M., Sundstrom, E. R., Flanagan, J. C., Woo, S., Waymouth, R. M., Criddle, C. S.
2014; 170: 167-174
- **Recovery of freshwater from wastewater: upgrading process configurations to maximize energy recovery and minimize residuals.** *Environmental science & technology*
Scherson, Y. D., Criddle, C. S.
2014; 48 (15): 8420-8432
- **Performance of a mixing entropy battery alternately flushed with wastewater effluent and seawater for recovery of salinity-gradient energy** *ENERGY & ENVIRONMENTAL SCIENCE*
Ye, M., Pasta, M., Xie, X., Cui, Y., Criddle, C. S.
2014; 7 (7): 2295-2300
- **Production of Nitrous Oxide From Anaerobic Digester Centrate and Its Use as a Co-oxidant of Biogas to Enhance Energy Recovery.** *Environmental science & technology*
Scherson, Y. D., Woo, S., Criddle, C. S.
2014; 48 (10): 5612-5619
- **Microbial biogeography across a full-scale wastewater treatment plant transect: evidence for immigration between coupled processes** *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*
Wells, G. F., Wu, C. H., Piceno, Y. M., Eggleston, B., Brodie, E. L., DeSantis, T. Z., Andersen, G. L., Hazen, T. C., Francis, C. A., Criddle, C. S.

2014; 98 (10): 4723-4736

- **Recovery of Freshwater from Wastewater: Upgrading Process Configurations to Maximize Energy Recovery and Minimize Residuals** *Environmental Science and Technology*
Yaniv, S. D., Craig, C. S.
2014
- **Surge block method for controlling well clogging and sampling sediment during bioremediation.** *Water research*
Wu, W., Watson, D. B., Luo, J., Carley, J., Mehlhorn, T., Kitanidis, P. K., Jardine, P. M., Criddle, C. S.
2013; 47 (17): 6566-6573
- **Microbial battery for efficient energy recovery** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Xie, X., Ye, M., Hsu, P., Liu, N., Criddle, C. S., Cui, Y.
2013; 110 (40): 15925-15930
- **Assessing the scale of resource recovery for centralized and satellite wastewater treatment.** *Environmental science & technology*
Lee, E. J., Criddle, C. S., Bobel, P., Freyberg, D. L.
2013; 47 (19): 10762-10770
- **Use of on-site bioreactors to estimate the biotransformation rate of N-ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE) during activated sludge treatment.** *Chemosphere*
Rhoads, K. R., Rostkowski, K. H., Kitanidis, P. K., Criddle, C. S.
2013; 92 (6): 702-707
- **In Situ Bioremediation of Uranium with Emulsified Vegetable Oil as the Electron Donor** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Watson, D. B., Wu, W., Mehlhorn, T., Tang, G., Earles, J., Lowe, K., Gihring, T. M., Zhang, G., Phillips, J., Boyanov, M. I., Spalding, B. P., Schadt, C., Kemner, et al
2013; 47 (12): 6440-6448
- **Stoichiometry and kinetics of the PHB-producing Type II methanotrophs Methylosinus trichosporium OB3b and Methylocystis parvus OBBP** *BIORESOURCE TECHNOLOGY*
Rostkowski, K. H., Pfluger, A. R., Criddle, C. S.
2013; 132: 71-77
- **Nitrogen removal with energy recovery through N₂O decomposition** *ENERGY & ENVIRONMENTAL SCIENCE*
Scherson, Y. D., Wells, G. F., Woo, S., Lee, J., Park, J., Cantwell, B. J., Criddle, C. S.
2013; 6 (1): 241-248
- **Bioaugmentation with Pseudomonas stutzeri KC for Remediation of Carbon Tetrachloride.** *Bioaugmentation for Remediation.*
Criddle, C., S., Dybas, M., J., Tataru, G., M., Warnick, L., B., Vidal-Gavilan, G., Robertson, A., P.
edited by Stroo, H., F., Leeson, A., Ward, C., H.
Springer Science + Business Media, New York.2013: 257-285
- **Chemical and biological processes: the need for mixing.** *Delivery and Mixing in the Subsurface: Process and Design Principles for In Situ Remediation.*
McCarty, P., L., Criddle, C., S.
edited by Kitanidis, P., K., McCarty, P., L., Ward, C., Herb
Springer Science + Business Media, New York.2013: 7-52
- **A microbial battery for efficient energy recovery** *Proc. National Acad. Science*
Xie, X., Ye, M., Hsu, P., Liu, N., Criddle, C. S., Cui, Y.
2013
- **Magnetically ultrasensitive nanoscavengers for next-generation water purification systems.** *Nature communications*
Zhang, M., Xie, X., Tang, M., Criddle, C. S., Cui, Y., Wang, S. X.
2013; 4: 1866-?
- **Adaptation of nitrifying microbial biomass to nickel in batch incubations** *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*
Yeung, C., Francis, C. A., Criddle, C. S.
2013; 97 (2): 847-857
- **Cradle-to-Gate Life Cycle Assessment for a Cradle-to-Cradle Cycle: Biogas-to-Bioplastic (and Back)** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*

-
- Rostkowski, K. H., Criddle, C. S., Lepech, M. D.
2012; 46 (18): 9822-9829
- **Graphene-sponges as high-performance low-cost anodes for microbial fuel cells** *ENERGY & ENVIRONMENTAL SCIENCE*
Xie, X., Yu, G., Liu, N., Bao, Z., Criddle, C. S., Cui, Y.
2012; 5 (5): 6862-6866
 - **Cyclic, alternating methane and nitrogen limitation increases PHB production in a methanotrophic community** *BIORESOURTE TECHNOLOGY*
Pieja, A. J., Sundstrom, E. R., Criddle, C. S.
2012; 107: 385-392
 - **Carbon nanotube-coated macroporous sponge for microbial fuel cell electrodes** *ENERGY & ENVIRONMENTAL SCIENCE*
Xie, X., Ye, M., Hu, L., Liu, N., McDonough, J. R., Chen, W., Alshareef, H. N., Criddle, C. S., Cui, Y.
2012; 5 (1): 5265-5270
 - **Carbon nanotube-coated sponge electrodes for microbial fuel cell applications.** *Energy and Environment*
Xing, X., Ye, M., Hu, L., McDonough, J., R., Criddle, C., S., Cui.
2012; 5: 5265-5270
 - **Carbon graphene-sponges as high-performance low-cost anodes for microbial fuel cells.** *Energy and Environment*
Xing, X., Yu, G., Liu, N., Bao, Z., Criddle, C., S., Cui, Y.
2012; 5: 6862-6866
 - **Selection of Type I and Type II methanotrophic proteobacteria in a fluidized bed reactor under non-sterile conditions** *BIORESOURTE TECHNOLOGY*
Pfluger, A. R., Wu, W., Pieja, A. J., Wan, J., Rostkowski, K. H., Criddle, C. S.
2011; 102 (21): 9919-9926
 - **Fine-scale bacterial community dynamics and the taxa-time relationship within a full-scale activated sludge bioreactor** *WATER RESEARCH*
Wells, G. F., Park, H., Eggleston, B., Francis, C. A., Criddle, C. S.
2011; 45 (17): 5476-5488
 - **Distribution and Selection of Poly-3-Hydroxybutyrate Production Capacity in Methanotrophic Proteobacteria** *MICROBIAL ECOLOGY*
Pieja, A. J., Rostkowski, K. H., Criddle, C. S.
2011; 62 (3): 564-573
 - **A Limited Microbial Consortium Is Responsible for Extended Bioreduction of Uranium in a Contaminated Aquifer** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Gihring, T. M., Zhang, G., Brandt, C. C., Brooks, S. C., Campbell, J. H., Carroll, S., Criddle, C. S., Green, S. J., Jardine, P., Kostka, J. E., Lowe, K., Mehlhorn, T. L., Overholt, et al
2011; 77 (17): 5955-5965
 - **Poly-3-Hydroxybutyrate Metabolism in the Type II Methanotroph Methylocystis parvus OBBP** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Pieja, A. J., Sundstrom, E. R., Criddle, C. S.
2011; 77 (17): 6012-6019
 - **Dynamics of Microbial Community Composition and Function during In Situ Bioremediation of a Uranium-Contaminated Aquifer (vol 77, pg 3860, 2011)** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Van Nostrand, J. D., Wu, L., Wu, W., Huang, Z., Gentry, T. J., Deng, Y., Carley, J., Carroll, S., He, Z., Gu, B., Luo, J., Criddle, C. S., Watson, et al
2011; 77 (14): 5063-5063
 - **Reduction of Uranium(VI) by Soluble Iron(II) Conforms with Thermodynamic Predictions** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Du, X., Boonchayaanant, B., Wu, W., Fendorf, S., Bargar, J., Criddle, C. S.
2011; 45 (11): 4718-4725
 - **Dynamics of Microbial Community Composition and Function during In Situ Bioremediation of a Uranium-Contaminated Aquifer** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Van Nostrand, J. D., Wu, L., Wu, W., Huang, Z., Gentry, T. J., Deng, Y., Carley, J., Carroll, S., He, Z., Gu, B., Luo, J., Criddle, C. S., Watson, et al
2011; 77 (11): 3860-3869
 - **Nano-structured textiles as high-performance aqueous cathodes for microbial fuel cells** *ENERGY & ENVIRONMENTAL SCIENCE*
Xie, X., Pasta, M., Hu, L., Yang, Y., McDonough, J., Cha, J., Criddle, C. S., Cui, Y.

2011; 4 (4): 1293-1297

- **Anaerobic biodegradation of the microbial copolymer poly(3-hydroxybutyrate-co-3-hydroxyhexanoate): Effects of comonomer content, processing history, and semi-crystalline morphology** *POLYMER*
Morse, M., Liao, Q., Criddle, C. S., Frank, C. W.
2011; 52 (2): 547-556
- **Three-Dimensional Carbon Nanotube-Textile Anode for High-Performance Microbial Fuel Cells** *NANO LETTERS*
Xie, X., Hu, L., Pasta, M., Wells, G. F., Kong, D., Criddle, C. S., Cui, Y.
2011; 11 (1): 291-296
- **Taxa-time in a full-scale activated sludge bioreactor.** *Water Research*
Wells, G., F., Park, H. -D., Eggleston, B., Francis, C., A.
2011; 45: 5476-5488
- **Engineered biomaterials for construction: A cradle-to-cradle design methodology for green material development.** *The International J. of Environmental, Cultural, Economic and Social Sustainability*
Srubar III, W., V., Michel, A., T., Criddle, C., S., Frank, C., W., Billington, S., L.
2011; 5 (7): 157-166
- **Bioreduction and immobilization of uranium in situ: a case study at a USA Department of Energy radioactive waste site, Oak Ridge, Tennessee.** *Acta Scientiae Circumstantiae*
Wu, W., M., Carley, J., Watson, D., Gu, B., Brooks, S., Kelly, S., D., Criddle, C.
2011; 1 (31): 449-459
- **Membrane fouling in an anaerobic membrane bioreactor: Differences in relative abundance of bacterial species in the membrane foulant layer and in suspension** *JOURNAL OF MEMBRANE SCIENCE*
Gao, D., Zhang, T., Tang, C. Y., Wu, W., Wong, C., Lee, Y. H., Yeh, D. H., Criddle, C. S.
2010; 364 (1-2): 331-338
- **Kinetic analysis and modeling of oleate and ethanol stimulated uranium (VI) bio-reduction in contaminated sediments under sulfate reduction conditions** *JOURNAL OF HAZARDOUS MATERIALS*
Zhang, F., Wu, W., Parker, J. C., Mehlhorn, T., Kelly, S. D., Kemner, K. M., Zhang, G., Schadt, C., Brooks, S. C., Criddle, C. S., Watson, D. B., Jardine, P. M.
2010; 183 (1-3): 482-489
- **Significant Association between Sulfate-Reducing Bacteria and Uranium-Reducing Microbial Communities as Revealed by a Combined Massively Parallel Sequencing-Indicator Species Approach** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Cardenas, E., Wu, W., Leigh, M. B., Carley, J., Carroll, S., Gentry, T., Luo, J., Watson, D., Gu, B., Ginder-Vogel, M., Kitanidis, P. K., Jardine, P. M., Zhou, et al
2010; 76 (20): 6778-6786
- **Responses of microbial community functional structures to pilot-scale uranium in situ bioremediation** *ISME JOURNAL*
Xu, M., Wu, W., Wu, L., He, Z., Van Nostrand, J. D., Deng, Y., Luo, J., Carley, J., Ginder-Vogel, M., Gentry, T. J., Gu, B., Watson, D., Jardine, et al
2010; 4 (8): 1060-1070
- **Effects of Nitrate on the Stability of Uranium in a Bioreduced Region of the Subsurface** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Wu, W., Carley, J., Green, S. J., Luo, J., Kelly, S. D., Van Nostrand, J., Lowe, K., Mehlhorn, T., Carroll, S., Boonchayanant, B., Loeffler, F. E., Watson, D., Kemner, et al
2010; 44 (13): 5104-5111
- **Effect of solution chemistry on the adsorption of perfluorooctane sulfonate onto mineral surfaces.** *Water research*
Tang, C. Y., Shiang Fu, Q., Gao, D., Criddle, C. S., Leckie, J. O.
2010; 44 (8): 2654-2662
- **Can microbially-generated hydrogen sulfide account for the rates of U(VI) reduction by a sulfate-reducing bacterium?** *BIODEGRADATION*
Boonchayanant, B., Gu, B., Wang, W., Ortiz, M. E., Criddle, C. S.
2010; 21 (1): 81-95
- **Uranium Transformations in Static Microcosms** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Kelly, S. D., Wu, W., Yang, F., Criddle, C. S., Marsh, T. L., O'Loughlin, E. J., Ravel, B., Watson, D., Jardine, P. M., Kemner, K. M.
2010; 44 (1): 236-242

- **A combined massively parallel sequencing – indicator species approach revealed significant association between sulfate-reducing bacteria and uranium-reducing microbial communities.** *Applied Environ. Microbio.*
Cardenas, E., Wu, W., M., Leigh, M., B., Carley, J., Carroll, S., Gentry, T., Criddle, C.
2010; 20 (76): 6778-6786
- **Impact of nitrate on the stability of uranium within a bioreduced region of the subsurface.** *Environ. Sci. Technol.*
Wu, W., M., Carley, J., Green, S., Luo, J., Zhang, G., Kelly, S., D., Criddle, C.
2010; 13 (44): 5104–5111
- **GeoChip-based analysis of functional microbial communities during the reoxidation of a bioreduced uranium-contaminated aquifer** *ENVIRONMENTAL MICROBIOLOGY*
Van Nostrand, J. D., Wu, W., Wu, L., Deng, Y., Carley, J., Carroll, S., He, Z., Gu, B., Luo, J., Criddle, C. S., Watson, D. B., Jardine, P. M., Marsh, et al
2009; 11 (10): 2611-2626
- **Uranium reduction and resistance to reoxidation under iron-reducing and sulfate-reducing conditions** *WATER RESEARCH*
Boonchayaanant, B., Nayak, D., Du, X., Criddle, C. S.
2009; 43 (18): 4652-4664
- **Occurrence of ammonia-oxidizing Archaea in activated sludges of a laboratory scale reactor and two wastewater treatment plants** *JOURNAL OF APPLIED MICROBIOLOGY*
Zhang, T., Jin, T., Yan, Q., Shao, M., Wells, G., Criddle, C., Fang, H. H.
2009; 107 (3): 970-977
- **Ammonia-oxidizing communities in a highly aerated full-scale activated sludge bioreactor: betaproteobacterial dynamics and low relative abundance of Crenarchaea** *ENVIRONMENTAL MICROBIOLOGY*
Wells, G. F., Park, H., Yeung, C., Eggleston, B., Francis, C. A., Criddle, C. S.
2009; 11 (9): 2310-2328
- **Simple menaquinones reduce carbon tetrachloride and iron (III)** *BIODEGRADATION*
Fu, Q. S., Boonchayaanant, B., Tang, W., Trost, B. M., Criddle, C. S.
2009; 20 (1): 109-116
- **Bacterial community succession during in situ uranium bioremediation: spatial similarities along controlled flow paths** *ISME JOURNAL*
Hwang, C., Wu, W., Gentry, T. J., Carley, J., Corbin, G. A., Carroll, S. L., Watson, D. B., Jardine, P. M., Zhou, J., Criddle, C. S., Fields, M. W.
2009; 3 (1): 47-64
- **GeoChip-based analysis of functional microbial communities in a bioreduced uranium-contaminated aquifer during reoxidation by oxygen.** *Environmental Microbiology*
Van Nostrand, J., D., Wu, W., M., Wu, L., Deng, Y., Carley, J., Carroll, S., Criddle, C.
2009; 10 (11): 2611-2626
- **Reassessing authorship of the Book of Mormon using delta and nearest shrunken centroid classification** *LITERARY AND LINGUISTIC COMPUTING*
Jockers, M. L., Witten, D. M., Criddle, C. S.
2008; 23 (4): 465-491
- **Microbial communities in contaminated sediments, associated with bioremediation of uranium to submicromolar levels** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Cardenas, E., Wu, W., Leigh, M. B., Carley, J., Carroll, S., Gentry, T., Luo, J., Watson, D., Gu, B., Ginder-Vogel, M., Kitanidis, P. K., Jardine, P. M., Zhou, et al
2008; 74 (12): 3718-3729
- **Aerobic biotransformation and fate of N-ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE) in activated sludge** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
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