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Publications:

A Multi-scale, Multi-disciplinary Approach for Assessing the Technological, Economic, and Environmental Performance of Bio-based Chemicals

Herrgard, M., Sukumara, S., Campodonico Alt, M. A. & Zhuang, K. 2015 In : *Biochemical Society Transactions*. 43, 6, p. 1151-1156 6 p.

Publication: Research - peer-review › Journal article – Annual report year: 2015

A Multi-Scale, Multi-Disciplinary Approach for Assessing the Technological, Economic, and Environmental Performance of Bio-Based Chemicals

Campodonico, M., Herrgard, M., Sukumara, S. & Zhuang, K. 2015 *Book of Abstracts. DTU's Sustain Conference 2015*. Technical University of Denmark, 1 p. A-16

Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Editorial: Current Challenges in Modeling Cellular Metabolism

Machado, D., Zhuang, K., Sonnenschein, N. & Herrgard, M. 2015 In : *Frontiers in Bioengineering and Biotechnology*. 3, 2 p., 193

Publication: Research - peer-review › Editorial – Annual report year: 2015

Multi-scale exploration of the technical, economic, and environmental dimensions of bio-based chemical production

Zhuang, K. & Herrgard, M. 2015 In : *Metabolic Engineering*. 31, p. 1-12 12 p.

Publication: Research - peer-review › Journal article – Annual report year: 2015

Multi-Scale Technoeconomic Framework for Assessing Viability of Emerging Bio-based Processes

Zhuang, K., Sukumara, S., Campodonico Alt, M. & Herrgard, M. 2015 *Book of Abstracts. DTU's Sustain Conference 2015*. Lyngby: Technical University of Denmark, 1 p. R-5

Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Multi-scale Exploration of the Technical, Economic, and Environmental Dimensions of Bio-based Chemical Production

Zhuang, K. & Herrgard, M. 2014 *Abstract Book - DTU Sustain Conference 2014*. Kgs. Lyngby: Technical University of Denmark, 1 p.

Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Multi-scale modeling for sustainable chemical production

Zhuang, K., Bakshi, B. R. & Herrgard, M. 2013 In : *Biotechnology Journal*. 8, 9, p. 973-984

Publication: Research - peer-review › Journal article – Annual report year: 2013

Integrative analysis of *Geobacter* spp. and sulfate-reducing bacteria during uranium bioremediation

Barlett, M., Zhuang, K., Mahadevan, R. & Lovley, D. 2012 In : *Biogeosciences*. 9, 3, p. 1033-1040

Publication: Research - peer-review › Journal article – Annual report year: 2012

The design of long-term effective uranium bioremediation strategy using a community metabolic model

Zhuang, K., Ma, E., Lovley, D. R. & Mahadevan, R. 2012 In : *Biotechnology and Bioengineering (Print)*. 109, 10, p. 2475-2483

Publication: Research - peer-review › Journal article – Annual report year: 2013

Economics of membrane occupancy and respiro-fermentation

Zhuang, K., Vemuri, G. N. & Mahadevan, R. 2011 In : *Molecular Systems Biology*. 7, p. Article number 500 9 p.

Publication: Research - peer-review › Journal article – Annual report year: 2011

Genome-scale dynamic modeling of the competition between *Rhodoferax* and *Geobacter* in anoxic subsurface environments

Zhuang, K., Izallalen, M., Mouser, P., Richter, H., Risso, C., Mahadevan, R. & Lovley, D. R. 2011 In : I S M E Journal. 5, 2, p. 305-316

Publication: Research - peer-review › Journal article – Annual report year: 2011

Genome-scale metabolic modeling of a clostridial co-culture for consolidated bioprocessing

Salimi, F., Zhuang, K. & Mahadevan, R. 2010 In : Biotechnology Journal. 5, 7, p. 726-738

Publication: Research - peer-review › Journal article – Annual report year: 2010

Genome-scale comparison and constraint-based metabolic reconstruction of the facultative anaerobic *Fe(III)*-reducer *Rhodoferax ferrireducens*

Risso, C., Sun, J., Zhuang, K., Mahadevan, R., DeBoy, R., Ismail, W., Shrivastava, S., Huot, H., Kothari, S., Daugherty, S., Bui, O., Schilling, C. H., Lovley, D. R. & Methé, B. A. 2009 In : B M C Genomics. 10, 1, p. Article number 447 19 p.

Publication: Research - peer-review › Journal article – Annual report year: 2009