UNIVERSITY COLLEGE FREIBURG

Dr. Sabine Sané – Teaching and Publications

Teaching activities – Courses at UCF

Lectures, Seminars and practical work

- Introduction to Earth and Environmental Sciences
- Water Sustainability in a Changing World
- Resources and Sustainability
- Environmental Controversies
- Energytechnologies
- Research Design across Disciplines
- Beer and Wine as Crafts

Excursions

- Culture, History and Environment in Greece
- Geology and Environment in Brittany, France
- Vegetation Science in the Black Forest

Peer-reviewed journal papers (neé Stueckle)

- P. Gross, N. Buchanan, **S. Sané**: Blue Skies in the Making: Air Quality Action Plans and Urban Imaginaries in London, Hong Kong, and San Francisco. 2019, Energy Research & Social Science 48, 85-95

- E. Kipf, **S. Sané**, D. Morse, T. Mesinger, R. Zengerle, S. Kerzenmacher: An air-breathing enzymatic cathode with extended lifetime by continuous laccase supply. 2018, Bioresource Technology 264, 306-310

- **S. Sané**, PhD thesis, Using Microorganisms Culture Supernatants to Supply Enzymes to Biofuel Cells and Extend Cathode Lifetime, 2015, University Freiburg

- **S. Sané**, C. Heilemann, P. Salavei, S. Rubenwolf, C. Jolivalt, C. Madzak, R. Zengerle, P. J. Nielsen, S. Kerzenmacher: Enzymatic fuel cells solely supplied with unpurified cellobiose dehydrogenase and laccase in microorganism's culture supernatants. 2014 ChemElectroChem 1, 1886-1894

- **S. Sané**, K. Richter, S. Rubenwolf, N. J. Matschke, C. Jolivalt, C. Madzak, R. Zengerle, J.Gescher, S. Kerzenmacher: Using planktonic microorganisms to supply the unpurified multi-copper oxidases laccase and copper efflux oxidases at a biofuel cell cathode. 2014 Bioresource Technology 158, 231-238

- **S. Sané**, C. Jolivalt, G. Mittler, P. Nielsen, S. Rubenwolf, R. Zengerle S. Kerzenmacher: Overcoming bottlenecks of enzymatic biofuel cell cathodes: Crude fungal culture supernatant can help to extend lifetime and reduce cost. 2013 ChemSusChem 7, 1209-1215 Selected as Journal Cover

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- S. Rubenwolf, **S. Sané**, L. Hussein, J. Kestel, F. von Stetten, G. Urban, M. Krueger, R. Zengerle, S. Kerzenmacher: Prolongation of Electrode Lifetime in Biofuel Cells by Periodic Enzyme Renewal. 2012 Applied Microbiology Biotechnology 96, 841-849

- F. Nitsch, **S. Stueckle**, D. Stahl, D. Zinner: Copulation patterns in captive hamadryas baboons: a quantitative analysis 2011 Primates 52, 373-383

- **S. Stueckle**, D. Zinner: To follow or not to follow: decision making and leadership during the morning departure in chacma baboons. 2008 Animal Behaviour 75, 1995-2004

Oral conference contributions

- **S. Sané**, A. König, R. Gminski, S. Kerzenmacher: Laccase from Trametes versicolor can help to improve the performance of microbial fuel cells and to efficiently degrade micropollutants from wastewater. 2014 Proc. 2nd EU-ISMET meeting, Alcala, Spain, September 3-5, 60

- **S. Sané**, J. Eipper, K. Richter, N. J. Matschke, J. Gescher, S. Kerzenmacher: Using crude culture supernatant of Escherichia coli to supply copperefflux oxidase at a biofuel cell cathode. 2014 14th ISE topical meeting, Nanjing, China, March 29 to 1 April, 42

- **S. Sané**, C. Kräß, S. Rubenwolf, S. Kerzenmacher: A simple mediator-less enzymatic biofuel cell based on unpurified fungus culture supernatant. 2013 12th ISE topical meeting and 22th International Symposium on Bioelectrochemistry and Bioenergetics, Bochum, Germany, March 17-21, 190

- **S. Sané**, S. Rubenwolf, C. Jolivalt and S. Kerzenmacher: Using Microorganisms to extend the lifetime of an enzymatic biofuel cell cathode. 2012 Communications in Agricultural and Applied Biological Science, Proc. 1st EU-ISMET meeting, Ghent, Belgium, September 27-28, 77 (2) 20

- **S. Sané**, S. Rubenwolf, C. Jolivalt and S. Kerzenmacher: Using fungi to produce electricity-Towards a self-regenerating enzymatic biofuel cell. 2012 Program of the 63rd Annual Meeting of the International Society of Electrochemistry, Prague, Czech Republic, August 19-24, 40

- **S. Sané**, S. Rubenwolf, C. Jolivalt and S. Kerzenmacher: Using yeast and fungi to produce electricity – Towards a self-regenerating enzymatic biofuel cell cathode. 2012 Biospektrum Tagungsband zur VAAM Jahrestagung, Tübingen, Deutschland, March 18-21, 135

- **S. Sané**, S. Rubenwolf, R. Zengerle, C. Jolivalt, S. Kerzenmacher: Using microorganisms to harvest electricity-Towards a self-regenerating enzymatic cathode. 2011 Proc. 3rd MicrobialFuelCell Conference, Leeuwaarden, Netherlands, June 5-8, 81

Poster conference contributions

- E. Kipf, T. Messinger, **S. Sané**, S. Kerzenmacher: An air-breathing cathode based on buckypaper electrodes with reversibly adsorbed laccase. 2014 Proc. 2nd EU-ISMET meeting, Alcala, Spain, September 3-5, 166

- S. Kerzenmacher, J. Danzer, E. Kipf, A. Kloke, C. Köhler, **S. Sané**, R. Zengerle: Neue Materialien und Konzepte für Biobrennstoffzellen. 2013 Microsystemtechnik (MST) Kongress 2013, Aachen, 14.-16.10.2013, Seiten: 626-629

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