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How Carbon-Friendly Is Nuclear Energy?



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ON THE COVER: How carbon neutral is nuclear power? This month's cover article estimates the carbon footprint of the different life-cycle phases of a Spanish nuclear facility. Using a hybrid multiregional input-output model, total emissions were estimated to be 21.30 gCO₂e/kWh. Most of these emissions were generated outside of Spain. Image Credit: 2014@Jaime Lopez Molina; <http://jaimelopezmolina.blogspot.com.es/>

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Life Cycle Greenhouse Gas Emissions of Sugar Cane Renewable Jet Fuel

Marcelo Moreira, Angelo C. Gurgel, and Joaquim E. A. Seabra*

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Emission Factors for Hydraulically Fractured Gas Wells Derived Using Well- and Battery-level Reported Data for Alberta, Canada

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Laura S. Ruhl,* Gary S. Dwyer, Heileen Hsu-Kim, James C. Hower, and Avner Vengosh

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Christian Reller, Matthias Pöge, Andreas Lißner, and Florian O. R. L. Mertens*

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Effect of Oxygenated Fuels on Physicochemical and Toxicological Characteristics of Diesel Particulate Emissions

Zhi-Hui Zhang and Rajasekhar Balasubramanian*

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Energy and Exergy Analyses of an Integrated Gasification Combined Cycle Power Plant with CO₂ Capture Using Hot Potassium Carbonate Solvent

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Regenerable Cobalt Oxide Loaded Magnetosphere Catalyst from Fly Ash for Mercury Removal in Coal Combustion Flue Gas
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Nitrogen Oxides, Sulfur Trioxide, and Mercury Emissions during Oxy-fuel Fluidized Bed Combustion of Victorian Brown Coal
Bithi Roy, Luguang Chen, and Sankar Bhattacharya*

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Comment on Microbial Community Composition Is Unaffected by Anode Potential
Audrey S. Commault,* Gavin Lear, and Richard J. Weld

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Response to Comment on Microbial Community Composition Is Unaffected by Anode Potential
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