



COST ACTION GREENERING – DATA COLLECTION

First name, Family Name: Dajana Kučić Grgić

Type (Academic or Industrial): Academic

Country: Croatia

Leadership position in the COST: Co-Leader for ITC Grants

Working Group in which you are involved: WG3

E-mail: dkucic@fkit.hr

Laboratory/Company: Department of Industrial Ecology, Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia

Laboratory/Company info:

Faculty of Chemical Engineering and Technology is a constituent of University of Zagreb. It is organized in several Departments and Chairs that perform teaching, scientific work, professional and consulting activities in Chemical Engineering, Chemistry and other fields. The core activities of the Faculty of Chemical Engineering and Technology are research, investigation and high-level education in the fields of Chemical Engineering and Chemistry

Link to the home page of the Laboratory/Company:

<https://www.fkit.unizg.hr/en>

Fields of expertise:

- Biological treatment of waste – composting process (agroindustrial waste, municipal solid waste, biowaste, activated sludge)
- Biological treatment of wastewater
- Biodegradation of microplastics
- Development of new biomaterials

5 Main publications or patents:

- Ocelić Bulatović, Vesna; Kučić Grgić, Dajana; Slouf, Miroslav; Ostafinska, Aleksandra; Dybal, Jiri; Jozinović, Antun, Biodegradability of blends based on aliphatic polyester and thermoplastic starch // *Chemical Papers*, 1 (2019), 5; 1121-1134 doi:10.1007/s11696-018-0663-8
- Kučić Grgić, Dajana; Vuković Domanovac, Marija; Domanovac, Tomislav; Šabić, Monika; Cvetnić, Matija; Ocelić Bulatović, Vesna, Influence of *Bacillus subtilis* and *Pseudomonas aeruginosa* BSW and Clinoptilolite addition on the biowaste composting process // *Arabian journal for science and engineering*, 44 (2019), 6; 5399-5409 doi:10.1007/s13369-018-03692-8
- Kučić Grgić, Dajana; Ocelić Bulatović, Vesna; Cvetnić, Matija; Dujmić Vučinić, Željka; Vuković Domanovac, Marija; Markić, Marinko; Bolanča, Tomislav, Biodegradation kinetics of diuron by *Pseudomonas aeruginosa* FN and optimization of biodegradation using response surface methodology // *Water and environment journal*, 1 (2019), 1-13
- Kučić, Dajana; Kopčić, Nina; Briški, Felicita, Biodegradation of agro-industrial waste // *Chemical and biochemical engineering quarterly*, 31 (2017), 4; 369-374



- Kučić, Dajana; Briški, Felicita, Emissions of Gases during Composting of Solid Waste // Kemija u industriji : časopis kemičara i tehnologa Hrvatske, 66 (2017), 9-10; 467-474 doi:10.15255/KUI.2016.050

Collaborations:

Innovation centre of the Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, University of Maribor, Faculty of Chemistry and Chemical Engineering, University of Split, PLIVA

Facilities:

- Different reactors for composting process
- Armfield – aerobic and anaerobic treatment of wastewater
- Determination of N
- Luminometer for determination of *V. fischeri*
- Membrane filtration