

Hrvoje Juretić, Ph.D.



University of Zagreb
Faculty of Mechanical Engineering and Naval Architecture

Department of Energy, Power Engineering and Environment
Chair of Water and Environmental Engineering

Ivana Lučića 5, HR-10000 Zagreb, Croatia

Tel: +385 1 6168 483

Fax: +385 1 6118 714

E-mail: hrvoje.juretic@fsb.hr



Education

- Ph.D. University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, *Advanced Oxidation Processes in Ships' Ballast Water Treatment*, 2007
- M.S. University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, *The application of oxidation processes in groundwater treatment of the eastern Slavonian region*, 2004
- B.S. University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, *Design of drinking water treatment plant with a flow rate of 120 L/s*, 1999

Academic Experience

- 2010 – present Assistant Professor
- 1999 – 2010 Research Assistant

Research Interests

Ozone/sonochemistry/advanced oxidation
Disinfection and disinfection by-products
Wastewater reuse

Recent Publications (Peer-Reviewed)

1. Dobrovic, S., Juretic, H., Ruzinski, N., 2007. *Photodegradation of natural organic matter in water with UV irradiation at 185 and 254 nm: Importance of hydrodynamic conditions on the decomposition rate*. Separation Science and Technology, **42**(7): 1421-1432.
2. Curkovic, L., Ljubas, D., Juretic, H., 2010. *Photocatalytic decolorization kinetics of diazo dye Congo Red aqueous solution by UV/TiO₂ nanoparticles*. Reaction Kinetics Mechanisms and Catalysis, **99**(1): 201-208.
3. Juretic, H., Dobrovic, S., Ruzinski, N., Lovric, J., Pecarevic, M., Mikus, J., Crncevic, M., Marcelja, E.J., Rajcic, M.M., Sirac, S., Cooper, W.J., Grewell, D., van Leeuwen, J., 2011. *Pilot Studies of Ozonation for Inactivation of Artemia salina Nauplii in Ballast Water*. Ozone-Science & Engineering, **33**(1): 3-13.
4. Dobrovic, S., Juretic, H., Ljubas, D., Vinkovic Vrcek, I., Zebic Avdicevic, M., Milic, M., Kopjar, N., Nemet, I., 2012. *Genotoxicity and Effects of Nanosilver Contamination in Drinking Water Disinfection*. Water Science and Technology: Water Supply, **12**(6): 829-836.
5. Simunek, M., Rezek Jambrak, A., Petrovic, M., Juretic, H., Major, N., Herceg, Z., Hruskar, M., Vukusic, T., 2013. *Aroma Profile and Sensory Properties of Ultrasound Treated Apple Juice and Nectar*. Food technology and biotechnology, (accepted for publication).

Recent Research and consulting expertise on a contract basis

1. Dobrović, S., Ljubas, D., Juretić, H., Smoljanić, G., *Report on Life –Cycle Assessment of Patente Fuel Hydrogen-Industrial*, Investor: Cor Brevis d.o.o., Zagreb, Croatia, FMENA, 2011
2. Dobrović, S., Švaić, S., Ljubas, D., Juretić, H., Rodić, A., *Report on Applicability of patented fuel Hydrogen-Industrial*, Investor: Cor Brevis d.o.o., Zagreb, Croatia, FMENA, 2010
3. Dobrović, S., Ljubas, D., Juretić, H., *Expert report – Technical evaluation of reverse osmosis desalination plant Stara Baška*, Investor: Ponikve, Krk, Croatia, FMENA, 2010
4. Dobrović, S., Ljubas, D., Juretić, H., *Expert report – Technical evaluation of filtration materials for Ponikve and Jezero water treatment plants*, Investor: Ponikve, Krk, Croatia, FMENA, 2010
5. Dobrović, S., Juretić, H., Ljubas, D., *Study – Ecologically based municipal waste management system for the Liburnia and the hinterland*, Investor: Komunalac, Opatija, Croatia, FMENA, 2009