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***Education and Training:***

<b>Institution</b>	<b>Major</b>	<b>Degree</b>	<b>Year</b>
Univ. of Padua (Italy)	Chemical Engineering	<i>Laurea</i>	2002
UCLA	Civil Engineering	MS	2003
UCLA	Civil Engineering	PhD	2005

***Research and Professional Experience:***

- 2013-present **Associate Professor**, Civil & Environmental Engineering, UC, Irvine  
**Associate Professor**, Chemical Engineering and Material Science (joint appt.), UC Irvine
- 2013-present **Director**, Water-Energy Nexus Center, UC, Irvine  
 Full-time Faculty in the Henri Samueli School of Engineering, with research focusing on the energy and carbon footprint of water reclamation/reuse and wastewater treatment processes. Principal Investigator of the Environmental Process Laboratory. Teaching courses on water reclamation/reuse unit operations, process design, and carbon/energy footprint of water.
- 2008- 2013 **Assistant Professor**, Civil & Environmental Engineering, UC, Irvine

***Publications:***

1. Maalouf, S., **Rosso, D.**, Yeh, W.W.-G. (2013) Optimal planning and design of seawater RO brine outfalls under environmental uncertainty, *Desalination* 333 134-145.
2. Sobhani, R., McVicker, R., Spangenberg, C., **Rosso, D.** (2011) Process analysis and economics of drinking water production from coastal aquifers containing chromophoric dissolved organic matter and bromide using nanofiltration and ozonation, *J. Environ. Management* 93(1), 209-217.
3. Sobhani, R., Abahusayn, M., Gabelich, C.J., **Rosso, D.** (2012) Energy Footprint Analysis of Brackish Groundwater Desalination with Zero Liquid Discharge in Inland Areas of the Arabian Peninsula, *Desalination* 291, 106-116.
4. **Rosso, D.**, Stenstrom, M.K. (2008) “Carbon-sequestration potential of municipal wastewater treatment”, *Chemosphere*, 70: 1468- 1475.
5. Townsend-Small, A., Pataki, D.E., Tseng, L.Y., Tsai, C.-Y., **Rosso, D.** (2011) “Nitrous Oxide Emissions from Wastewater Treatment and Water Reclamation Plants in Southern California”, *J. Environ. Qual.*, 40: 1-9.
6. Gori, R., Jiang, L.-M., Sobhani, R., **Rosso, D.** (2011) “Effects of soluble and particulate substrate on the carbon and energy footprint of wastewater treatment processes”, *Wat. Res.*, 45: 5858-5872
7. **Rosso, D.**, Lothman, S.E., Jeung, M.K., Pitt, P., Gellner, W.J., Stone, A.L., Howard, D. (2011) “Oxygen transfer and uptake, nutrient removal, and energy footprint of parallel full-scale IFAS and activated sludge processes”, *Wat. Res.*, 45: 5987-5996.
8. Stenstrom, M.K., **Rosso, D.**, Melcer, H., Appleton, R., Langworthy, A., Wong, P. (2008) “Oxygen transfer in a full-depth biological aerated filter”, *Wat. Env. Res.*, 80: 663-671.

9. **Rosso, D.**, Huo, D.T., Stenstrom, M.K. (2006) Effects of interfacial surfactant contamination on bubble gas transfer, Chem. Eng. Sci. 61, 5500-5514.
10. Leu, S.-Y., **Rosso, D.**, Jiang, P., Larson, L.E., and Stenstrom, M.K. (2009) “Real-Time Aeration Efficiency Monitoring in the Activated Sludge Process and Methods to Reduce Energy Consumption and Operating Costs”, Wat. Environ. Res., 81: 2471-2481.

***Synergistic Activities:***

1. City of New York, Climate Initiative 2011-2013  
Reviewer of the Climate Initiative for the City of New York, responsible for feedback on management practices for tackling sea level rise, emergency downtime, immediate response to catastrophic events.
2. Chair of the WEF Municipal Wastewater Treatment Symposium 2011-present  
Since 2011, Prof. Rosso has been member and since 2014 Chair of this symposium that is responsible for reviews and selection of abstracts for the WEFTEC conference. This is the symposium with the largest number of submittals at WEFTEC and is responsible for the largest portion of the program.
3. Service with Engineers Without Borders 2004-present  
During the past 11+ years, Prof. Rosso has had the privilege of serving as President, Vice-President, Office, Mentor, and Academic adviser of three chapters of Engineers Without Borders. He has raised more than \$15,000 in donations for humanitarian projects in the United States, Thailand, Guatemala, and Mexico, and has received numerous awards and recognitions for his service. As part of these projects, he collaborated with students from several universities in the United States and abroad. He is member of the Founding Board of the EWB Orange County Professional Chapter.