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### Expertise

José L. Vivancos is assistant professor of engineering projects in the engineering projects department of Universitat Politècnica de València (UPV). He received his PhD. degree in Chemical Engineering from the UPV in 2005. He joined to the Centre of Molecular Recognition and Technological Development (IDM) of UPV in 2006 working in Electrochemical sensors “Electronic tongues and noses” and in Molecular Probes “Sensors and molecular probes for the electro-chemical or chromo-fluorogenic recognition of anions, cations and neutral species of interest”. He worked on “Surface acoustic wave based analytical system for the detection of liquid detergents” in collaboration with Prof. Julian W. Gardner in 2010. His main areas of interest are the chemical sensors, instrumentation systems and pattern recognition for electronic tongues and optoelectronic noses.

### Key papers related to the COST action

1. Campos, I., Gil, L., Martínez-Mañez, R., Soto, J., & **Vivancos, J.L.** (2010). Use of a voltammetric electronic tongue for detection and classification of nerve agent mimics. *Electroanalysis*, 22(14), 1643-1649.
2. **Vivancos, J.L.**, Rácz, Z., Cole, M., & Gardner, J. (2012). Surface acoustic wave based analytical system for the detection of liquid detergents. *Sensors and Actuators B: Chemical*, 171–172, 469-477.
3. Bataller, R., Campos, I., Alcañiz, M., Gil, L., Martínez-Mañez, R., Soto, J., & **Vivancos, J.L.** (2012). A novel humid electronic nose based on voltammetry. *Procedia Engineering*, 4, 941-944.
4. Campos, I., Alcañiz, M., Masot, R., Soto, J., Martínez-Mañez, R., **Vivancos, J.L.**, & Gil, L. (2012). A method of pulse array design for voltammetric electronic tongues. *Sensors and Actuators B: Chemical*, 161(1), 556-563.
5. Campos, I., Alcañiz, M., Aguado, D., Barat, R., Ferrer, J., Gil, L., Marrakchi, M., Martínez-Mañez, R., Soto, J., & **Vivancos, J.L.** (2012). A voltammetric electronic tongue as tool for water quality monitoring in wastewater treatment plants. *Water Research*, 46(8), 2605-2614.
6. Bataller, R., Campos, I., Alcañiz, M., Gil-Sánchez, L., García-Breijo, E., Martínez-Mañez, R., Pascual, L., Soto, J., & **Vivancos, J.L.** (2013). A humid electronic nose based on pulse voltammetry: A proof-of-concept design. *Sensors and Actuators B: Chemical*, 186, 666-673.