

Part A. Personal Information

DATE	04/07/2023
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Surname(s)	Rafael
Forename	Andreu Fondacabe

(* At least one of these is mandatory)

A.1. Current position

Post/ Professional Category	Professor	
UNESCO Code	221005	
Key Words	Electrochemistry	
Name of the University/Institution	University of Sevilla	
	Department/Centre	Physical Chemistry/Chemistry
Start date	19/03/2009	

A.2. Education (title, institution, date)

Year	University	Degree	Title
1975	Sevilla	First degree	Chemistry
		Masters (if appropriate)	
1982	Sevilla	PhD	Chemistry

Sexenios

Seis tramos de investigación evaluados favorablemente: 1982-1987, 1988-1993, 1994-1999, 2000-2005, 2006-2011 y 2012-2017.

Publicaciones

- J. J. Calvente, R. Andreu.
Intermolecular interactions in electroactive thiol monolayers probed by linear scan voltammetry.
Curr. Opin. Electrochem., 1, 22-26 (2017).
- A. M. Luque, W.H. Mulder, J.J. Calvente, R. Andreu
Proton transfer impedance at electrodes modified with acid thiol monolayers.
J. Electroanal. Chem., 819, 145-151 (2018).
- P. Bollella, L. Medici, M. Tessema, A. A. Poloznikov, D. Hushpulian, V. I. Tishkov, R. Andreu, D. Leech, N. Megersa, M. Marcaccio, L. Gorton, R. Antiochia.
Highly sensitive, stable and selective hydrogen peroxide amperometric biosensors based on peroxidases from different sources wired by Os-polymer: A comparative study.
Solid State Ionics, 314, 178-186 (2018).
- J.L. Olloqui-Sariego, A. Díaz-Quintana, M.A. de la Rosa, J.J. Calvente, I. Márquez, I. Díaz-Moreno, R. Andreu.
Protein crosslinking improves the thermal resistance of plastocyanin immobilized on a modified gold electrode.
Bioelectrochemistry, 124, 127-132 (2018).
- J.L. Olloqui-Sariego, I. Márquez, E. Frutos-Beltran, I. Díaz-Moreno, M.A. de la Rosa, J.J. Calvente, R. Andreu, A. Díaz-Quintana.
Key role of the local hydrophobicity in the east patch of plastocyanins on their thermal stability and redox properties.
ACS Omega, 3, 11447-11454 (2018).

- J.L. Olloqui-Sariego, G. Zakharova, A. A. Poloznikov, J.J. Calvente, D. Hushpulian, L. Gorton, R. Andreu.
The Fe(III)/Fe(II) redox couple as a probe of immobilized tobacco peroxidase: effect of the immobilization protocol.
Electrochim. Acta, 299, 55-61 (2019).
- J.L. Olloqui-Sariego, G. Zakharova, A. A. Poloznikov, J.J. Calvente, D. Hushpulian, L. Gorton, R. Andreu.
Influence of tryptophan mutation on the direct electron transfer of immobilized tobacco peroxidase
Electrochim. Acta, 351, 136465 (2020).
- G. Pérez-Mejías, J.L. Olloqui-Sariego, A. Guerra-Castellano, A. Díaz-Quintana, J.J. Calvente, R. Andreu, M.A. de la Rosa, I. Díaz-Moreno.
Physical contact between cytochrome c_1 and cytochrome c increases the driving force for electron transfer
Biochim. Biophys. Acta, 1861, 148277 (2020).
- I. Márquez, J.L. Olloqui-Sariego, M. Molero, R. Andreu, E. Roldán, J.J. Calvente.
Active role of the buffer in the proton-coupled electron transfer of immobilized iron porphyrins.
Inorg. Chem., 60, 42 – 54 (2021).
- I. Márquez, G. Pérez-Mejías, A. Guerra-Castellano, J.L. Olloqui-Sariego, R. Andreu, J.J. Calvente, M.A. de la Rosa, I. Díaz-Moreno.
Structural and functional insights into lysine acetylation of cytochrome c using mimetic point mutants.
FEBS Open Bio, 11, 3304 – 3323 (2021).
- L. Ciogli, R. Zumpano, A. A. Poloznikov, D. Hushpulian, V. I. Tishkov, R. Andreu, L. Gorton, F. Mazzei, G. Favero, P. Bolella.
Highly sensitive hydrogen peroxide biosensor based on Tobacco Peroxidase immobilized on p-phenyldiamine diazonium cation grafted carbon nanotubes: preventing Fenton-like inactivation at negative potential.
ChemElectroChem, 8, 2495 – 2504 (2021).
- J. L. Olloqui-Sariego, J. J. Calvente, R. Andreu.
Immobilizing redox enzymes at mesoporous and nanostructured electrodes.
Curr. Opin. Electrochem., 26, 100658 (2021).
- J.L. Olloqui-Sariego, G. Pérez-Mejías, I. Márquez, A. Guerra-Castellano, J.J. Calvente, M.A. de la Rosa, R. Andreu, I. Díaz-Moreno.
Electric field-induced functional changes in electrode-immobilized mutant species of human cytochrome c
Biochim. Biophys. Acta, 1863, 148570 (2022).
- A. Portorreal-Bottier, S. Gutierrez-Tarrino, J. J. Calvente, R. Andreu, E. Roldan, P. Ona-Burgos, J.L. Olloqui-Sariego.
Enzyme-like activity of cobalt-MOF nanosheets for hydrogen peroxide electrochemical sensing.
Sensors and Actuators B, 368, 132129 (2022).