

Name: **EDUARDO MORENO JIMÉNEZ** Date of birth: 3/6/1980 Nationality: SPANISH

**Current position:** Lecturer in Agricultural, Environmental and Food Chemistry, UAM

ORCID: <https://orcid.org/0000-0002-2125-1197>

Google scholar: <https://scholar.google.es/citations?user=xGwZEbcAAAAJ&hl=en>

Publons: <https://publons.com/author/1258022/eduardo-moreno-jimenez#stats>

**RESUMÉ:** Early-career PhD academic (lecturer) at Universidad Autónoma de Madrid (UAM) with an intense publication activity in the last 10 years (>40 papers) of scientific quality (highest impact factor in Environmental, Analytical and Agricultural Sciences) and well cited (>3000 cites in the last 10 years, h-index=25, Google scholar). He has experience managing research projects (>150k euros), university laboratories (year income >10k euros) and involved in EU research networks (mainly two COST Actions, currently in the Management Committee of one). Frequent participant in research projects. Activity also supervising PhD, postgraduate and undergraduate students. Large international connections with Agricultural research centres (among others, James Hutton Inst., University of Münster, Ruhr Univ of Bochum, BOKU, IGFS-Queens Univ Belfast, Univ of Reading, Rize Univ, etc).

**Research areas:** Environmental Chemistry, Agricultural Chemistry, Climate Change, Food Safety, Metals, Urban Agriculture, Soil and Water Reclamation, Biochar. **Teaching areas:** Chemistry, Environmental Assessment, Soil Reclamation, Food Safety, Agricultural Production and Sustainability, Fertilizers, Environmental Protection.

**Education:** PhD in Sciences (2010, UAM); MSc in Agricultural, Environmental and Food Chemistry (2005, UAM); BSc in Environmental Sciences (2002, UAM).

**Positions:** PhD student (2005-2006, UAM); Researcher and demonstrator (2007-2011, UAM); Postdoc Fellow FWO (2011-2012, KU Leuven, Belgium); Lecturer (2012 onwards, UAM); visiting research fellow (>3 months) in John Moores Univ (Liverpool, UK, 2008 and 2009), Aberdeen Univ (Aberdeen, UK, 2010), James Hutton Inst (Aberdeen, UK, 2011), RUB (Bochum, Germany, 2014), Univ of Münster (Germany, 2017).

**Major Awards:** Granted by three COST Actions to visit other centres. Erasmus+ for teaching abroad (2015). FWO Postdoc Fellowship (2011, Belgium, co-funded by MC EU programme). José Castillejo Award (2017).

**Research project participation:** Participant in 8 research projects of >70k euros. Principal researcher in FWO project (Belgium, 2011). Principal Investigator in two Spanish research projects (2014-2018) and UAM research project (19k euros). PI in the next projects:

-MITIGATING ARSENIC UPTAKE IN IRRIGATED RICE THROUGH WATER MANAGEMENT: MECHANISMS IN THE RHIZOSPHERE. FWO. Eduardo Moreno Jiménez and Erik Smolders (promotor). (KU Leuven). 2011-2012.

-ADDED VALUE OF PLANTS IN TRACE ELEMENT IMMOBILISATION IN SOILS: BIO-ENERGY CROPS AND FOOD SAFETY. Spanish Ministry of Economy and Innovation. 2013-2017. PI Eduardo Moreno Jiménez. 135k euro.

-BIOCHAR FOR AGRI-ENVIRONMENTAL APPLICATIONS. UAM-Santander. 2017-2018. PI Eduardo Moreno-Jiménez. 13k euro.

-METAL AVAILABILITY AND FUNCTIONING OF DRYLAND ECOSYSTEMS. Fundación BBVA. 2018-2019. PI Eduardo Moreno Jiménez. 37k euro.

**Most relevant Publications since 2010 in the PhD scope (cites in SCOPUS):**

- L Beesley, E Moreno-Jiménez, JL Gomez-Eyles. 2010. Effects of biochar and greenwaste compost amendments on mobility, bioavailability and toxicity of inorganic and organic contaminants in a multi-element polluted soil. *Environmental pollution* 158 (6), 2282-2287. >250 cites. Third most cited paper in 2010 of Environmental Pollution.
- L Beesley, **E Moreno-Jiménez**, JL Gomez-Eyles, E Harris, B Robinson, T Sizmur. 2011. A review of biochars' potential role in the remediation, revegetation and restoration of contaminated soils. *Environmental pollution* 159 (12), 3269-3282. >250 cites. Most cited paper in 2011 of Environmental Pollution.
- N Karami, R Clemente, **E Moreno-Jiménez**, NW Lepp, L Beesley. 2011. Efficiency of green waste compost and biochar soil amendments for reducing lead and copper mobility and uptake to ryegrass. *Journal of hazardous materials* 191 (1), 41-48. >200 cites.
- E Moreno-Jimenez**, E Esteban, JM Peñalosa. 2012. The fate of Arsenic in soil-plant systems. *Reviews of Environmental Contamination and Toxicology* 215, 1-37. >50 cites.
- E Moreno-Jiménez**, R Clemente, A Mestrot, AA Meharg. 2013. Arsenic and selenium mobilisation from organic matter treated mine spoil with and without inorganic fertilization. *Environmental Pollution* 173, 238-244. 19 cites.
- E Moreno-Jiménez**, L Six, PN Williams, E Smolders. 2013. Inorganic species of arsenic in soil solution determined by microcartridges and ferrihydrite-based diffusive gradient in thin films (DGT). *Talanta* 104, 83-89. 10 cites.
- L Beesley, OS Inneh, GJ Norton, **E Moreno-Jiménez**, T Pardo, R Clemente, JJC Dawson. 2014. Assessing the influence of compost and biochar amendments on the mobility and toxicity of metals and arsenic in a naturally contaminated mine soil. *Environmental Pollution* 186, 195-202. >50 cites. Within most cited paper in 2014 of Environmental Pollution.
- E Moreno-Jiménez**, AA Meharg, E Smolders, R Manzano, D Becerra, et al. 2014. Sprinkler irrigation of rice fields reduces grain arsenic but enhances cadmium. *Science of the Total Environment* 485, 468-473. 11 cites.
- A. Signes-Pastor, M. Carey, A.A. Carbonell-Barrachina, **E Moreno-Jiménez**, A.J. Green, AA Meharg. 2016. Geographical variation in inorganic arsenic in paddy field samples and commercial rice from the Iberian Peninsula. *Food Chemistry* 202, 356-364. 7 cites.
- E Moreno-Jiménez**, JM Fernández, M Puschenreiter, PN Williams, C Plaza. 2016. Availability and transfer to grain of As, Cd, Cu, Ni, Pb and Zn in a barley agri-system: Impact of biochar, organic and mineral fertilizers. *Agriculture, Ecosystems & Environment* 219, 171-178. 8 cites.
- T. Fresno, JM Peñalosa, J Santner, M Puschenreiter, T Proshaka, **E. Moreno Jiménez**. 2016. Iron plaque formed under aerobic conditions efficiently immobilizes arsenic in *Lupinus albus* L. roots. *Environmental Pollution* 216, 215-222. 1 cite.
- T Sizmur, T Fresno, G Akgül, H Frost, **E Moreno-Jiménez**. 2017. Biochar modification to enhance sorption of inorganics from water. *Bioresource Technology* 246, 34-47.
- T Fresno, **E Moreno-Jiménez**, P Zornoza, JM Peñalosa. 2018. Aided phytostabilisation of As- and Cu-contaminated soils using white lupin and combined iron and organic amendments. *Journal of Environmental Management*, 205, 142-150.

**Oral and Invited Talks:** eight presentations in international, well-recognised scientific meetings (SETAC, Eurosoil, ICOBTE, TerraEnvision, etc).

**PhD supervisions:** One PhD supervised (2018). >20 MSc supervisions.

**PhD evaluator:** Four panels (2011, 2013, 2014, 2017 and 2018 Spain, Australia and Pakistan).

**Other:** Reviewer for research project evaluations for international agencies: Switzerland (2 projects), Argentina (2 projects), UK (1 project of cooperation with Africa), Czech Republic (1 project), Belgium (1 project) and Poland (2 project). Management Committee member of COST Action TD1407. Editorial Board of ISI-indexed scientific journals. Frequent reviewer of ISI-

indexed journals, averaging one paper per month: ES&T, Environ Pollut, AE&E, Plant Soil, J Hazard Mat, STOTEN, etc.