

Aitor Aizpuru

Índice h: 10

Profesor-Investigador Titular B de la UMAR, desde 2003.

FORMACIÓN ACADÉMICA

| | |
|---|-----------|
| Doctorado en Química y Microbiología École des Mines d'Alès, Université de Pau et des Pays de l'Adour (UPPA, Francia) | Ab. 2001 |
| Especialidad en Química y Microbiología UPPA, Francia | Oct. 1997 |
| Maestría en Química UPPA, Francia | Jul. 1996 |
| Licenciatura en Química UPPA, Francia | Jul. 1995 |

ESTANCIAS DE INVESTIGACIÓN

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|--|----------------------|
| Estancia sabática Universidad de Valladolid (España), Escuela de Ingenierías Industriales | Oct. 2016 - Ag. 2017 |
| Postdoctorado Universidad Autónoma Metropolitana-Iztapalapa, Departamento de Ingeniería Química Institut de Recherche pour le Développement (Francia) | Abr. 2001 - Ag. 2002 |

DISTINCIONES ACADÉMICAS

Sistema Nacional de Investigadores: Nivel 1
Perfil deseable Prodep

PUBLICACIONES

- *Artículos indizados Journal Citations Reports*
- 1) Proof of concept of a novel in tandem biofilter photobioreactor system for valorization of volatile organic compounds: mineralization of methanol vapors coupled with use of CO₂ as a carbon source for *Arthrospira maxima* growth, B Cruz-García, A Aizpuru, *Journal of Chemical Technology & Biotechnology*, (in press, early view), 2021 (IF: 3.174).
 - 2) Reduced graphene oxide decorated with magnetite nanoparticles enhance biomethane enrichment, Covarrubias-García I., Quijano G., Aizpuru A., Sánchez-García J. L., Rodríguez-López J. L., Arriaga, S. (2020), *Journal of hazardous materials*, 397, 122760 (IF: 10.588).
 - 3) Sánchez-Rodríguez, D., Jasso-Salcedo, A. B., Hedin, N., Church, T. L., Aizpuru, A., & Escobar-Barrios, V. A. (2020). Semiconducting Nanocrystalline Bismuth

Oxychloride (BiOCl) for Photocatalytic Reduction of CO₂. *Catalysts*, 10(9), 998 (IF: 4.146)

- 4) Flores-Barbosa, A. B., Aizpuru, A., Quijano, G., & Arriaga, S. (2020). Evaluation of bioaerosols by flow cytometry and removal performance in a biofilter treating toluene/ethyl acetate vapors. *Chemosphere*, 251, 126404 (IF: 7.086).
- 5) Cruz-García, B., Geronimo-Meza, A. S., Martínez-Lievana, C., Arriaga, S., Huante-González, Y., & Aizpuru, A. (2019). Biofiltration of high concentrations of methanol vapors: removal performance, carbon balance and microbial and fly populations. *Journal of Chemical Technology & Biotechnology*, 94(6), 1925-1936 (IF: 3.174).
- 6) Microbial contamination in methanol biofilters inoculated with a pure strain of *Pichia pastoris*: A potential limitation for waste revalorization, R Palomo-Briones, S Esquivel-González, A Aizpuru, N. Gómez-Hernández, S. Casas-Flores, A. P. Barba de la Rosa, S. Arriaga, *Biotechnology progress*, 35 (1), 2019 (IF: 2.681).
- 7) Temporal and longitudinal biofilm matrix analysis of a biofilter treating ethyl acetate during ozonation, I Covarrubias-García, A Aizpuru, S Arriaga, *Environmental Science and Pollution Research* 25 (19), 19155-19166, 2018 (IF: 4.223)
- 8) A state-of-the-art review on nitrous oxide control from waste treatment and industrial sources, OD Frutos, G Quijano, A Aizpuru, R Munoz, *Biotechnology advances* 36 (4), 1025-1037, 2018 (IF: 14.227).
- 9) Effect of extended and daily short-term starvation/shut-down events on the performance of a biofilter treating toluene vapors, L Jiménez, S Arriaga, R Muñoz, A Aizpuru, *Journal of environmental management* 203, 68-75, 2017.
- 10) Characterization of bioaerosol emissions from two biofilters during treatment of toluene vapours using epifluorescence microscopy, S Esquivel-Gonzalez, A Aizpuru, A Patrón-Soberano, S Arriaga, *International Biodeterioration & Biodegradation* 123, 78-86, 2017.
- 11) Effect of the continuous addition of ozone on biomass clogging control in a biofilter treating ethyl acetate vapors. I Covarrubias-García, A Aizpuru, S Arriaga, *Science of The Total Environment* 584, 469-475, 2017.
- 12) Assessing biofiltration repeatability: statistical comparison of two identical toluene removal systems, L Jiménez, S Arriaga, A Aizpuru, *Environmental technology* 37 (6), 681-693, 2016.
- 13) By-passing acidification limitations during the biofiltration of high formaldehyde loads via the application of ozone pulses, T García-Pérez, A Aizpuru, S Arriaga, *Journal of hazardous materials* 262, 732-740, 2013.
- 14) Fungal biofiltration of toluene on ceramic rings, A Aizpuru, B Dunat, P Christen, R Auria, I García-Peña, S Revah, *Journal of Environmental Engineering* 131 (3), 396-402, 2005.

- 15) Biofiltration of a mixture of volatile organic compounds on granular activated carbon, A Aizpuru, L Malhautier, JC Roux, JL Fanlo, *Biotechnology and bioengineering* 83 (4), 479-488, 2003.
- 16) Biofiltration for the treatment of complex mixtures of VOC–influence of the packing material, A Aizpuru, N Khammar, L Malhautier, JL Fanlo, *Acta biotechnologica* 23 (2-3), 211-226, 2003.
- 17) Quantitative structure-activity relationship modeling of biofiltration removal, A Aizpuru, L Malhautier, JL Fanlo, *Journal of environmental engineering* 128 (10), 953-959, 2002.
- 18) Biofiltration of a mixture of volatile organic emissions, A Aizpuru, L Malhautier, JC Roux, JL Fanlo, *Journal of the Air & Waste Management Association* 51 (12), 1662-1670, 2001.

- *Capítulos de libro*

Innovative non-aqueous phases and partitioning bioreactor configurations, S Arriaga, A Aizpuru, in *Advances and Applications of Partitioning Bioreactors* 54, 299, 2019.

PONENCIAS EN CONGRESOS

7 ponencias en congresos internacionales (Estados Unidos, Francia, México).

DOCENCIA

Más de 90 asignaturas impartidas en la UMAR, desde 2003.

FORMACIÓN DE RECURSOS HUMANOS

Director de 5 tesis de grado concluidas
(4 en la UMAR, 1 en la Universidad de Valladolid).
Director de 3 tesis de posgrado concluidas
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IDIOMAS

Francés
Inglés