

CURRICULUM VITAE

Emmanuel Oheix, Maître de conférences (Lecturer)

emmanuel.oheix@uha.fr

IRJBD / 3b, rue Alfred Werner / 68093 Mulhouse

0389336718

ACADEMIC CAREER

- 2004-2007 **DUT and Licence (Bsc) in Chemistry**
Université de Rennes 1
- 2007-2009 **Master (Msc) in Chemistry specialty inorganic chemistry**
Université Claude Bernard Lyon 1
- 2009-2014 **Ph. D in Bioinorganic Chemistry**
School of Chemistry, University of Birmingham (UK)
Supervisor: Dr Anna F. A. Peacock
“Development of polypyridine metal-dependent switches as artificial regulation sites”
available online : <http://theses.bham.ac.uk/4629/>
- 2015-2018 **Postdoctoral researcher (Post-doc n°1)**
Aix-Marseille Université, iSm2 (UMR 7313), team Bioscience
Supervisors: Dr Olga Iranzo, Dr Renaud Hardré, Dr Marius Réglie
“Molybdenum-containing enzymes: bioinspired peptidic catalysts for CO₂ reduction.”
- 2019 **Postdoctoral researcher (Post-doc n°2)**
a- école polytechnique (Palaiseau), LCM (UMR 9168)
b- Université Paris-Sud (Orsay), ICMMO (UMR 8182), équipe LCI
Supervisors: Dr Audrey Auffrant,^a Dr Katell Sénéchal-David,^b Prof Frédéric Banse^b
“Development of Iron-Phosphasalen complexes as oxidation catalysts.”
- 2020-2021 : **Postdoctoral researcher (Post-doc n°3)**
CEA Saclay, DRF Joliot, SCBM, laboratoire de marquage au Tritium
Supervisors: Dr Edmond Gravel, Dr Eric Doris
“Development of heterogeneous catalysts for the selective oxidation of chemical warfare analogues”
- 2021-2022 **Temporary teaching and research assistant (ATER)**
Université de Haute Alsace, ENSCMu & IS2M (UMR 7361), Axis MPC
Supervisors: Dr Laurent Pieuchot, Habiba Nouali, Prof Jean Daou
“Studying the antimicrobial properties of zeolitic materials exchanged with silver, copper and zinc ions.”
- 2022-
ongoing **Maître de conférences (lecturer)**
Université de Haute Alsace, ENSCMu & IS2M (UMR 7361), Axis MPC

RESEARCH INTERESTS

- Disciplines : Organic & Inorganic Chemistry, Biochemistry
- Thematic : Synthesis and characterisation of biomolecules, metal complexes and hybrid materials with defined structures.
Analysis of their properties and applications for catalysis and decontamination processes (chemical and biological)
- Keywords : Zeolites, porous materials, metal-ions, antimicrobial properties, adsorption, redox chemistry, oxidation processes, structure, solution and solid states studies

RESEARCH OUTPUT

My research work has been the topic of scientific articles (14), patent applications (2) and oral presentation in seminar and conferences (8). You can read my complete and updated research profile at the following links :

<https://scholar.google.com/citations?user=VoWQwWoAAAAJ&hl=en>

<https://www.researchgate.net/profile/Oheix-Emmanuel>

SELECTED PUBLICATIONS

1. **E. Oheix**, C. Reicher, H. Nouali, L. Michelin, L. Josien, T. J. Daou, L. Pieuchot, *J. Funct. Biomat.*, **2022**, 13, 73. “Rational design and characterisation of novel mono- and bimetallic antibacterial Linde Type A zeolite materials”, open access: <https://www.mdpi.com/2079-4983/13/2/73>
2. **E. Oheix**, E. Gravel, E. Doris, *Catal. Sci. Technol.*, **2022**, 12, 1751-1755: “Vapor phase catalytic photooxidation of sulfides to sulfoxides: application to the neutralization of sulfur mustard simulants”, link to HAL: <https://hal.archives-ouvertes.fr/hal-03582468>
3. **E. Oheix**, E. Gravel, E. Doris, *Chem. Eur. J.*, **2021**, 27, 54-68: “Catalytic Processes for the Neutralization of Sulfur Mustard”, link to HAL: <https://hal.archives-ouvertes.fr/hal-03145472>
4. **E. Oheix**, C. Herrero, J. Moutet, J.-N. Rebilly, M. Cordier, R. Guillot, S. Bourcier, F. Banse, K. Sénéchal-David, A. Auffrant, *Chem. Eur. J.*, **2020**, 26, 13634-13643: “Fe^{II} and Fe^{III} Phosphasalen Complexes: Synthesis, Characterization, and Catalytic Application for 2-Naphthol Oxidative Coupling”, available on HAL : <https://hal.archives-ouvertes.fr/hal-02938996>
5. A. Gennaris, B. Ezraty, C. Henry, R. Agrebi, A. Vergnes, **E. Oheix**, J. Bos, P. Leverrier, L. Espinosa, J. Szewczyk, D. Vertommen, O. Iranzo, J.-F. Collet, F. Barras, *Nature*, **2015**, 528, 409-412: “Repairing oxidized proteins in the bacterial envelope using respiratory chain electrons”, available on HAL : <https://hal.archives-ouvertes.fr/hal-01452073/>