

CURRICULUM VITAE (30/11/2020)

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ACADEMIC QUALIFICATION

03/2007 Research Habilitation – HDR, Material Chemistry, University of Haute-Alsace
10/1994-01/1998 Ph.D, University of Haute-Alsace
 Characterization of zeolite acidity by ¹⁹F solid state NMR spectroscopy
09/1994 Master 2, « Chemistry, option : physical chemistry »
09/1994 Chemical engineering, Ecole Nationale Supérieure de Chimie de Mulhouse (ENSCMu)

PROFESSIONAL EXPERIENCE

09/2010 Professor, University of Haute-Alsace
09/1998 Associate Professor, University of Haute-Alsace
09/1997-08/1998 Temporary teaching and research assistant at Univ. of Haute-Alsace (ENSCMu)
09/1994-08/1997 CIES instructor (moniteur d'Initiation à l'Enseignement Supérieur), Mulhouse, Faculty of Science and Technology

RESEARCH SKILLS AND TOPICS

- Synthesis, characterisation and application of porous materials including zeolite and metallophosphate (aluminophosphate ...)
- Valorisation of waste/by-products : inorganic and biomass waste/by-products as (new source of) chemical reactants for porous solids synthesis, purification of extracts from biomass by selective adsorption.
- Oxyde/polymer composite : preparation of composite for 3D printing, applications to adsorption, catalysis, cation exchange, biomedical applications, etc.

PROFESSIONAL ACTIVITIES

- Member of National Council of Universities (section 32) (from 2019)
- SCF « chargée de mission Entités » (from 2019)
- Board member of the French Chemical Society (SCF) (from 2015)
- Vice-president (2012-2015) and President of the Alsace regional section of the SCF (2015-2019)
- Member of the council (2010-2016) and President of the French Zeolite Association (GFZ) (2014 – 2016)
- Member of the council of French Federation of Materials (FFM) (2014-2016)
- ENSCMu (Ecole Nationale Supérieure de Chimie de Mulhouse) : first year coordinator (2003-2013), responsible of « groupe études et perfectionnement » (2011-2014), research coordinator (2014-2016), member of the executive team (2013-2016)

SUPERVISION/TEACHING ACTIVITIES

6 Post-doctorants, **14** PhD students, **3** engineers, **17** Master 2 students
ENSCMu and Master 2 teaching activities (solution chemistry, inorganic chemistry, solid state chemistry, porous materials)

SCIENTIFIC PRODUCTION

68 articles, **7** proceedings, **1** book chapter, **8** patents (+ extensions), **125** international and national communications.

Some publications from 2015 :

Recovery of hydroxycinnamic acids from renewable resources by adsorption on zeolites
Valérie Simon, Alexandre Thuret, Laure Candy, Sabina Bassil, Simon Duthen, Christine Raynaud and Angélique Masseron
Chemical Engineering Journal, 280 (2015) 748-754

Hydrothermal Synthesis and Characterization of Bio-Sourced Macroporous Zinc Phosphates Prepared with Casein Protein
Jessica Hinostroza Ramos, Lydie Ploux, Karine Anselme, Lavinia Balan, and Angélique Simon-Masseron
Crystal Growth & Design, 16 (9) (2016) 4897–4904

Adsorption of 1,2-dichlorobenzene and 1,2,4-trichlorobenzene in nano- and microsized crystals of MIL-101(Cr): static and dynamic gravimetric studies
Laetitia Bullo, Ludivine Vieira-Sellai, Gérald Chaplais, * Angélique Simon-Masseron, Toufic Jean Daou, Joël Patarin and Emmanuel Fiani
Environmental Science and Pollution Research, 24 (2017) 26562–26573

Bio-sourced phosphoprotein-based synthesis of silver-doped macroporous zinc phosphates and their antibacterial properties
Jessica Viviana Hinostroza Ramos, Karine Anselme, Angélique Simon-Masseron and Lydie Ploux
RSC Advances, 8 (2018) 25112-25122

Effect of Zeolite Fillers on the Photopolymerization Kinetics for Photocomposites and Lithography
Yangyang Xu, Charles Jambou, Ke Sun, Jacques Lavee, Angélique Simon-Masseron and Pu Xiao
ACS Applied Polymer Materials, 2019 (1) 2854-2861

Importance of PCDD/F molecules' polarizability and steric hindrance on their adsorption onto zeolites in a standard EN1948-1 sampling device for incinerator emission monitoring
Oliver Schäfer, Laurence Tortet, Angélique Simon-Masseron, Joël Patarin, Stéphanie Defour, Rosine Blanc, Christophe Coste and Yves Zerega
Chemosphere, 259 (2020) 127457