

CURRICULUM VITAE

(i) Name: **Prof.Dr. Alexander KUHN**

(ii) Academic Qualifications:

1986-1991: **M.Sc.** in Chemistry, Technical University Munich, Germany

1992-1994: **Ph.D.**, University of Bordeaux, France

(iii) Previous Academic Positions Held:

1995-1996: **Postdoctoral Fellow**, California Institute of Technology, USA

1996-2000: **Assistant Professor**, University of Bordeaux, France

(iv) Present Academic Position:

2000-now: **Full Professor**, National School of Engineering in Chemistry, Biology and Physics, Bordeaux, France

(v) Previous Relevant Research Work:

A. Pioneered the use of bipolar electrochemistry in different areas such as materials science, analysis and swimmers.

B. Pioneered the controlled engineering of highly ordered porous structures for (bio)electrochemical applications.

C. Pioneered the encoding of mesoporous metals with chiral information.

(vi) Publication Records:

Section A - Five most representative publications in recent five years

- (1) Potential Induced Fine-tuning the Enantioaffinity of Chiral Metal Phases
S. ASSAVAPANUMAT, T. YUTTHALEKHA, P. GARRIGUE, B. GOUDEAU, V. LAPEYRE,
A. PERRO, N. SOJIC, C. WATTANAKIT, **A. KUHN**, *Angew. Chem. Int. Ed.* 58 (2019) 3471
- (2) Wireless Electromechanical Readout of Chemical Information
L. ZHANG, B. GUPTA, B. GOUDEAU, N. MANO, **A. KUHN**, *J. Am. Chem. Soc.* 140 (2018) 15501.
- (3) Uphill production of dihydrogen by enzymatic oxidation of glucose without an external energy source
E. SURANITI, P. MERZEAU, J. ROCHE, S. GOUNEL, A. G. MARK, P. FISCHER, N. MANO,
A. KUHN, *Nature Comm.* 9 (2018) 3229
- (4) Pulsed electroconversion for highly selective enantiomer synthesis
C. WATTANAKIT, T. YUTTHALEKHA, S. ASSAVAPANUMAT, V. LAPEYRE, **A. KUHN**,
Nature Comm. 8 (2017) 2087
- (5) Asymmetric synthesis using chiral encoded metal
T. YUTTHALEKHA, C. WATTANAKIT, V. LAPEYRE, S. NOKBIN, C. WARAKULWIT,
J. LIMTRAKUL, **A. KUHN**, *Nature Comm.* 7 (2016) 12678

Section B - Five representative publications beyond the recent five-year period

- (1) Site-selective synthesis of Janus-type metal-organic framework composites
S. YADNUM, J. ROCHE, E. LEBRAUD, P. NÉGRER, P. GARRIGUE, D. BRADSHAW,
C. WARAKULWIT, J. LIMTRAKUL, **A. KUHN**, *Angew. Chem. Int. Ed.* 53 (2014) 4001
- (2) Straight-forward synthesis of ringed particles
J. ROCHE, G. LOGET, D. ZIGAH, Z. FATTAH, B. GOUDEAU, S. ARBAULT, L. BOUFFIER,
A. KUHN, *Chem. Sci.* 5 (2014) 1961
- (3) Enantioselective recognition at mesoporous chiral metal surfaces
C. WATTANAKIT, Y. BON SAINT CÔME, V. LAPEYRE, P. A. BOPP, M. HEIM, S. YADNUM,
S. NOKBIN, C. WARAKULWIT, J. LIMTRAKUL, **A. KUHN**, *Nature Comm.* 5 (2014) 3325
- (4) Bipolar electrochemistry: from materials science to motion and beyond
G. LOGET, D. ZIGAH, L. BOUFFIER, N. SOJIC, **A. KUHN**, *Acc. Chem. Res.* 46 (2013) 2513
- (5) True bulk synthesis of Janus objects by bipolar electrochemistry
G. LOGET, J. ROCHE, **A. KUHN**, *Adv. Mater.* 24 (2012) 5111

(vii) Others (please specify):

Recognitions (selection):

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| 1995 | Fellowship of the Alexander von Humboldt foundation |
| 2001 | Electrochemistry award of the French Chemical Society |
| 2008 | Distinguished Lecturer, Abo Akademi, Finland |
| 2008 | Invited visiting Professor, Harvard University, USA (six months sabbatical) |
| 2012 | Promotion to exceptional class professor |
| 2013 | Nomination as senior member of the Institut Universitaire de France (IUF) |
| 2014 | Adjunct Professor at the Vidyasirimedhi Institute of Science and Technology (VISTEC), Thailand |
| 2015 | Nomination as Distinguished Senior Fellow of the French Chemical Society |
| 2017 | ERC Advanced Grant |