



## LIST OF PUBLICATIONS

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## I. PATENTS

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**B1.** A. Montaut, S. Moutin, M.J. Chatenet, J.F.C. Durst, **F.T. Maillard**, L. Dubau, “Hollow platinum nanoparticles for fuel cells”, CNRS/Grenoble-INP/Air Liquide, US Patent. US20140227632 (European patent n° EP2680353A1).

**B2.** M. Zimmermann, M. Chatenet, **F. Maillard**, D. Ayme-Perrot, P. Sonntag, “Use of high specific surface area carbon materials as simultaneous counter electrode and reference electrode for electrochemical measurements (Carbone poreux monolithique à haute surface spécifique utilisable comme électrode de référence et contre-électrode au sein de cellules électrochimiques 3 électrodes”, World Patent WO2016116382 (A1) — 2016-07-28

## II. BOOK CHAPTERS

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**Ch1.** **F. Maillard**, P. Simonov, E. R. Savinova, “Carbon materials as support for fuel cells electrocatalysts”, In “Carbon Materials for Catalysis”, Serp, P., Figueiredo, J. L., Eds.; John Wiley & Sons, Inc.: New York, (2009), 429-480. [DOI: 10.1002/9780470403709.ch12](https://doi.org/10.1002/9780470403709.ch12).

**Ch2.** **F. Maillard**, S. Pronkin, E. R. Savinova, “Size effects in electrocatalysis of fuel cells reactions on supported metal nanoparticles”, In Fuel Cell Catalysis: a Surface Science Approach, Koper, M. T. M., Ed.; John Wiley & Sons, Inc.: New York, (2009) 507-566. [DOI: 10.1002/9780470463772.ch15](https://doi.org/10.1002/9780470463772.ch15).

**Ch3.** M. Chatenet, L. Guétaz, **F. Maillard**, “Electron microscopy to study MEA materials and structure degradation”, In Handbook of Fuel Cells Vol. 5 “Advances in Electrocatalysis, Materials, Diagnostics and Durability”, Vielstich W., Gasteiger H.A. Yokokawa H., John Wiley & Sons, Inc.: New York, (2009) 844-860. [DOI: 10.1002/9780470974001.f500056](https://doi.org/10.1002/9780470974001.f500056).

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**Ch 5.** **F. Maillard**, N. Job, M. Chatenet, “Basics of PEMFC including the use of carbon-supported nanoparticles”, in New and Future Developments in Catalysis: Catalysis by Nanoparticles, S.L. Suib Ed., Elsevier, **chapter 17** (2013) 401-423. [DOI: 10.1016/B978-0-444-53874-1.00018-4](https://doi.org/10.1016/B978-0-444-53874-1.00018-4)

**Ch6.** **F. Maillard**, N. Job, M. Chatenet, “Approaches to synthesize carbon-supported Pt-based electrocatalysts for PEM fuel cells”, in New and Future Developments in Catalysis: Batteries, Hydrogen storage and Fuel Cells, S.L. Suib Ed., Elsevier, **chapter 14** (2013) 407-428. [DOI: 10.1016/B978-0-44-453880-2.00019-3](https://doi.org/10.1016/B978-0-44-453880-2.00019-3)

**Ch7.** E. R. Savinova, A. Bonnefont, **F. Maillard**, “Anodic reactions in electrocatalysis: oxidation of carbon monoxide”, in Encyclopedia of Applied Electrochemistry, G. Kreisa, K. Ota, F. Savinell Eds., Springer-Verlag GmbH, Heidelberg, (2014) 93-100. [DOI: 10.1007/978-1-4419-6996-5\\_393](https://doi.org/10.1007/978-1-4419-6996-5_393).

**Ch8.** T.W. Napporn, L. Dubau, C. Morais, M.R. Camilo, J. Durst, F.H.B. Lima, **F. Maillard**, B. Kokoh, “Tools and Electrochemical *in situ* and *on-line* Characterization Techniques for Nanomaterials”, In: Kumar C. (eds), “*In situ* Characterization Techniques for Nanomaterials”, Springer, Berlin, Heidelberg (2018) 383-439. [DOI: 10.1007/978-3-662-56322-9\\_11](https://doi.org/10.1007/978-3-662-56322-9_11).

### III. PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

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**P1.** O. Reynes, **F. Maillard**, J.-C Moutet, G. Royal, E. Saint-Aman, G. Stanciu, J.-P Dutasta, I. Gosse, J.C Mulatier, “Complexation and electrochemical sensing of anions by amide-substituted ferrocenyl ligands”, *J. Organomet. Chem.*, **637-639** (2001) 356-363. [DOI: 10.1016/S0022-328X\(01\)00935-4](https://doi.org/10.1016/S0022-328X(01)00935-4)

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- P11.#** F. Maillard, E. Peyrelade, Y. Soldo-Olivier, M. Chatenet, E. Chaînet, R. Faure, "Is carbon-supported Pt-WO<sub>x</sub> composite a CO-tolerant material?", *Electrochim. Acta*, **52** (2007) 1958-1967. [DOI: 10.1016/j.electacta.2006.08.024](https://doi.org/10.1016/j.electacta.2006.08.024)
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