

Publications et communications de Nathalie Job

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1. Ouvrages publiés, en tant qu'auteur, co-auteur ou éditeur

- 1)  Heinrichs, B., **Job, N.**, Lambert, S., & Léonard, A. (Eds.). (2019). *The XIX International Sol-Gel Conference, Liège (Belgium) Sept 3-8, 2017, KEYNOTE, INVITED, AWARD and BEST ORAL AND POSTER PRESENTATIONS*. Journal of Sol-Gel Science and Technology.
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- 2) **Job, N.**, & Ioannides, T. (Eds.). (2012). *Catalysts - special issue 'Aerogel catalysts'*. MDPI.
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2. Chapitres d'ouvrages, en tant qu'auteur ou co-auteur












- 1)  **Job, N.** (2019). Carbon gels for electrochemical applications. In M., Prassas & M., Aegerter (Ed.), *Organic and carbon gels: from laboratory synthesis to applications* (pp. 149-189). Springer.
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- 2)  Olu, P.-Y., Zadick, A., **Job, N.**, & Chatenet, M. (2017). Anode (electro)catalysts for direct borohydride and ammonia borane fuel cells. In T., Maiyalagan & S., Viswanathan (Eds.), *Electrocatalysts for low temperature fuel cells. Fundamental and recent trends* (pp. 317-346). Weinheim, Germany: Wiley-VCH.
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- 3)  Zubizarreta, L., Gil-Agusti, M., Garcia., Quijano, A., Léonard, A., **Job, N.**, Cifrain, M., Pilcher, F., Khomenko, V., Barsukov, V., Fadagar-Cosma, E., Gheorghe, I., Dooley, Ayyad, O., Gomez-Rodriguez, P., Tedjar, F., Weyhe, R., Vestin, K., Barkler, L., de Meatz, I., Cantero, I., Levasseur, S., & Rossi., A. (2015). Development of novel SOLid Materials for high power Li polymer BATTERies (SOMABAT). Recyclability of components. In E., Briec & B., Müller, *Electric Vehicle Batteries: Moving from Research towards Innovation. Lecture notes on mobility* (pp. 19-32). Springer International Publishing.
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- 4)  Maillard, F., **Job, N.**, & Chatenet, M. (2013). Approaches to synthesize carbon-supported platinum-based electrocatalysts for proton-exchange membrane fuel cells. In S., Suib (Ed.), *New and future developments in catalysis. Batteries, hydrogen storage and fuel cells* (pp. 407-428). Elsevier.
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- 5)  Chatenet, M., **Job, N.**, & Maillard, F. (2013). Basics of PEMFC including the use of carbon-supported nanoparticles. In S., Suib (Ed.), *New and future developments in catalysis. Catalysis by nanoparticles* (pp. 401-423). Elsevier.
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- 6) Heinrichs, B., Lambert, S., **Job, N.**, & Pirard, J.-P. (2007). Sol-gel synthesis of supported metals. In J. R., Regalbuto (Ed.), *Catalyst Preparation : Science and Engineering* (pp. 163-208). Boca Raton, USA: CRC Press.
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3. Articles acceptés dans des journaux à comité de lecture (peer reviewed)

- 1) Carabetta, J., & **Job, N.** (2021). Silicon-doped carbon xerogel with poly(sodium 4-styrenesulfonate) as a novel protective coating and binder. *Microporous and Mesoporous Materials*, 310, 110622.
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- 2) Porthault, H., Calberg, C., Amiran, J., Martin, S., Pàez Martinez, C., **Job, N.**, Heinrichs, B., Liquet, D., & Salot, R. (2021). Development of a thin flexible Li battery design with a new gel polymer electrolyte operating at room temperature. *Journal of Power Sources*, 482, 229055.
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- 3) Piedboeuf, M.-L., **Job, N.**, Aqil, A., Busby, Y., Fierro, V., Celzard, A., Detrembleur, C., & Léonard, A. (2020). Understanding the influence of surface oxygen groups on the electrochemical behavior of porous carbons as anodes for lithium-ion batteries. *ACS Applied Materials and Interfaces*, 12, 36054-36065.
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- 4) Léonard, A., Castro-Muniz, A., Suarez-Garcia, F., **Job, N.**, & Paredes, J. (2020). Understanding the effect of the mesopore volume of ordered mesoporous carbons on their electrochemical behavior as Li-ion battery anodes. *Microporous and Mesoporous Materials*, 306, 110417.
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- 5) Deschamps, F., Mahy, J., Léonard, A., Lambert, S., Dewandre, A., Scheid, B., & **Job, N.** (2020). A practical method to characterize Proton Exchange Membrane Fuel Cell catalyst layer topography: Application to two coating techniques and two carbon supports. *Thin Solid Films*, 695, 137751.
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- 6) Haye, E., Deschamps, F., Caldarella, G., Piedboeuf, M.-L., Lafort, A., Cornil, H., Colomer, J.-F., Pireaux, J.-J., & **Job, N.** (2020). Formable chromium nitride coatings for Proton Exchange Membrane Fuel Cell stainless steel bipolar plates. *International Journal of Hydrogen Energy*, 30, 15358-15365.
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- 7) Haye, E., **Job, N.**, Wang, Y., Penninckx, S., Stergiopoulos, V., Tumanov, N., Cardinal, M., Busby, Y., Colomer, J.-F., Su, B.-L., Pireaux, J.-J., & Houssiau, L. (2020). ZnO/Carbon xerogel photocatalysts by low-pressure plasma treatment, the role of the carbon substrate and its plasma functionalization. *Journal of Colloids and Interface Science*, 570, 312-321.
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- 8) Pàez Martinez, C., Exantus, C., Dallel, D., Alié, C., Calberg, C., Liquet, D., Eskenazi, D., Deschamps, F., **Job, N.**, & Heinrichs, B. (2019, September 26). Water-Based Paintable LiCoO₂ Microelectrodes: A HighRate Li-Ion Battery Free of Conductive and Binder Additives. *Advanced Materials Technologies*, 1900499.
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- 9) Léonard, A., & **Job, N.** (2019). Safe and green Li-ion batteries based on LiFePO₄ and Li₄Ti₅O₁₂ sprayed as aqueous slurries with xanthan gum as a common binder. *Materials Today Energy*, 12, 168-178.
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- 10) Piedboeuf, M.-L., Léonard, A., Reichenauer, G., Balzer, C., & **Job, N.** (2019). How do the micropores of carbon xerogels influence their electrochemical behavior as anodes for lithium-ion batteries? *Microporous and Mesoporous Materials*, 275, 278-287.
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- 11) Couto, L., Schorsch, J., **Job, N.**, Léonard, A., & Kinnaert, M. (2019). State of health estimation for lithium ion batteries based on an equivalent hydraulic model: An iron phosphate application. *Journal of Energy Storage*, 21, 259-271.
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- 12) Lin, L., Xie, K., Beaucamp, M., **Job, N.**, & Penhoat, M. (2019). Riboflavin as a bioorganic solar fuel: photo-redox chemistry rationalized and accelerated in a miniaturized flow photoreactor. *ChemPhotoChem*, 3, 198-203.
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- 13) Da Silva Pires, M., Haye, E., Zubiaur, A., **Job, N.**, Pireaux, J.-J., Houssiau, L., & Busby, Y. (2019). Defective Pt-Ni/graphene nanomaterials by simultaneous or sequential treatments of organometallic precursors by low-pressure oxygen plasma. *Plasma Processes and Polymers*, 16, 1800203.
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- 14) Navlani-Garcia, M., Salinas-Torres, D., Mori, K., Léonard, A., Kuwahara, Y., **Job, N.**, & Yamashita, H. (2019). Insights on palladium decorated nitrogen-doped carbon xerogels for the hydrogen production from formic acid. *Catalysis Today*, 324, 90-96.
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- 15) Asset, T., Gommès, C., Drnec, J., Bordet, P., Chattot, R., Martens, I., Nelayah, J., **Job, N.**, Maillard, F., & Dubau, L. (2019). Disentangling the Degradation Pathways of Highly Defective PtNi/C Nanostructures - An Operando Wide and Small Angle X-ray Scattering Study. *ACS Catalysis*, 9, 160.
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- 16) Haye, E., Soon Chang, C., Dudek, T., Ghanbaja, J., Busby, Y., **Job, N.**, Houssiau, L., & Pireaux, J.-J. (2019). Tuning the magnetism of plasma-synthesized iron nitride nanoparticles: application in pervaporative membranes. *ACS Applied Nano Materials*, 2, 2484-2493.
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- 17) Zubiaur, A., & **Job, N.** (2018, June 05). Streamlining of the synthesis process of Pt/carbon xerogel electrocatalysts with high Pt loading for the oxygen reduction reaction in proton exchange membrane fuel cells applications. *Applied Catalysis B: Environmental*.
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- 18) Alkarmo, W., Ouhib, F., Aqil, A., Thomassin, J.-M., Vertruyen, B., Piedboeuf, M.-P., **Job, N.**, Detrembleur, C., & Jérôme, C. (2018). Continuous-porous N-doped carbon network as high-performance electrode for lithium-ion batteries. *Journal of Materials Science*, 53(8), 6135-6146.
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- 19) Eskenazi, D., Kreit, P., Pirard, J.-P., Compère, P., & **Job, N.** (2018). Toward a continuous synthesis of porous carbon xerogel beads. *AIChE Journal*, 64, 1049-1058.
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- 20) Alié, C., Calberg, C., Pàez Martinez, C., Liquet, D., Eskenazi, D., Heinrichs, B., & **Job, N.** (2018). Electrochemical performances of Li4Mn5O12 films prepared by spray-coated sol-gel reaction. *Journal of Power Sources*, 403, 173-183.
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- 21) Salinas-Torres, D., Léonard, A., Stergiopoulos, V., Busby, Y., Pireaux, J.-J., & **Job, N.** (2018). Effect of nitrogen doping on the pore texture of carbon xerogels based on resorcinol-melamine-formaldehyde precursors. *Microporous and Mesoporous Materials*, 258, 190-198.
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- 23) Haye, E., Busby, Y., da Silva Pires, M., Bocchese, F., **Job, N.**, Houssiau, L., & Pireaux, J.-J. (2018). Low-pressure plasma synthesis of Ni/C nanocatalysts from solid precursors: influence of the plasma chemistry on the morphology and chemical state. *ACS Applied Nano Materials*, 1, 265-273.
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- 24) Banerjee, R., Chen, D., Karakalos, S., Piedboeuf, M.-L., **Job, N.**, & Regalbuto, J. (2018). Ambient oxidation of ultrasmall platinum nanoparticles on microporous carbon catalyst supports. *ACS Applied Nano Materials*, 1, 5876-5884.
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- 30) Gheorghiu, C., Garcia-Bordeje, E., **Job, N.**, & Roman-Martinez, M. C. (2016). Structured carbons as supports for hydrogenation hybrid catalysts prepared by the immobilization of a Rh diamine complex. *Chemical Engineering Journal*, 291, 47-54.
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- 32) Merche, D., Dufour, T., Baneton, J., Caldarella, G., Debaille, V., **Job, N.**, & Reniers, F. (2016). Synthesis of Platinum Nanoparticles on Carbon Powder for Fuel Cell Applications Using an Easy Atmospheric Plasma Approach. *Belvac News*, 55.
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- 35) Aqil, A., Vlad, A., Piedboeuf, M.-L., Aqil, M., **Job, N.**, Melinte, S., Detrembleur, C., & Jérôme, C. (2015). A new design of organic radical batteries (ORBs): carbon nanotube buckypaper electrode functionalized by electrografting. *Chemical Communications*, 51(45), 9301-9304.
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- 37) **Job, N.**, Lambert, S., Zubiaur, A., Cao, C., & Pirard, J.-P. (2015). Design of Pt/carbon xerogel catalysts for PEM fuel cells. *Catalysts*, 5, 40-57.
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- 38) Olu, P.-Y., Deschamps, F., Caldarella, G., Chatenet, M., & **Job, N.** (2015). investigation of platinum and palladium as potential anodic catalysts for direct borohydride and ammonia borane fuel cells. *Journal of Power Sources*, 297, 492-503.
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- 39) Olu, P.-Y., Bonnefont, A., Rouhet, M., Bozdech, S., **Job, N.**, Chatenet, M., & Savinova, E. (2015). Insights into the potential dependence of the borohydride electrooxidation reaction mechanism on platinum nanoparticles supported on ordered carbon nanomaterials. *Electrochimica Acta*, 179, 637-646.
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- 40) Haghgoo, M., Yousefi, A. A., Mehr, M. J. Z., Léonard, A., Philippe, M., Compère, P., Léonard, A., & **Job, N.** (2015). Correlation between morphology and electrical conductivity of dried and carbonized multi-walled carbon nanotube/resorcinol-formaldehyde xerogel composites. *Journal of Materials Science*, 20, 6007-6020.
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- 90) **Job, N.**, Heinrichs, B., Ferauche, F., Noville, F., Marien, J., & Pirard, J.-P. (2005). Hydrodechlorination of 1,2-dichloroethane on Pd-Ag catalysts supported on tailored texture carbon xerogels. *Catalysis Today*, 102, 234-241.
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- 92) **Job, N.**, Pirard, R., Marien, J., & Pirard, J.-P. (2004). Synthesis of transition metal-doped carbon xerogels by solubilization of metal salts in resorcinol-formaldehyde aqueous solution. *Carbon*, 42(15), 3217-3227.
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4. Articles acceptés dans des journaux sans comité de lecture (non peer reviewed)




5. Articles acceptés dans des actes de conférences



- 1) Stergiopoulos, V., Lafort, A., Maseri, F., & **Job, N.** (2013). Effect of current flow on bipolar plate/gas diffusion layer interfacial contact resistance in Proton Exchange Membrane fuel cells (PEMFC). *Proceedings of the Fundamentals and Development of Fuel cells 2013 conference*.
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- 2) Deschamps, F., Traina, K., Pirard, J.-P., & **Job, N.** (2013). Catalytic layer for PEMFC based on carbon xerogels. *Proceedings of the Fundamentals and Development of Fuel cells 2013 conference*.
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










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6. Présentations orales dans des conférences avec comité scientifique de sélection

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- 2) Pireaux, J.-J., da Silva Pires, M., Bocchese, F., Zubiaur, A., Stergiopoulos, V., **Job, N.**, Houssiau, L., & Busby, Y. (2019, February). *Tunable carbon-supported catalyst materials processed by low-pressure plasma treatments of solid precursors*. Paper presented at 7th International conference on Advanced Plasma Technologies (ICAPT-7), Hue, Vietnam.
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- 3) Exantus, C., Pàez Martinez, C., Liquet, D., & **Job, N.** (2018, October). *Li7La3Zr2O12/LiCoO2 - cathode for all-solid-state batteries*. Paper presented at Geproc Day 2018, Materials and processes for energy, Belgium.
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- 4) **Job, N.** (2018, June 30). *Catalytic layers of Proton Exchange Membrane Fuel Cells based on carbon xerogel supports*. Paper presented at Carbon for Catalysis (CARBOCAT) 2018, Porto, Portugal.
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- 5) da Silva Pires, M., Busby, Y., Haye, E., **Job, N.**, Pireaux, J.-J., & Houssiau, L. (2018, June 05). *Catalyseurs pour piles à combustible fabriqués par dégradation plasma de précurseurs organométalliques*. Paper presented at ELSPEC 2018, Biarritz, France.
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- 6) Asset, T., **Job, N.**, Busby, Y., Crisci, A., Martin, V., Stergiopoulos, V., Bonnaud, C., Serov, A., Atanassov, P., Chattot, R., Dubau, L., & Maillard, F. (2018, May 13). *Porous hollow PtNi/C electrocatalysts: carbon support considerations to meet stability requirements*. Paper presented at 232nd ECS Meeting, Seattle, Etats-unis.
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- 8) Piedboeuf, M.-L., Léonard, A., & **Job, N.** (2017, October 26). *CARBON XEROGELS AS MODEL MATERIALS TO STUDY THE BEHAVIOR OF HARD CARBONS AS ANODES FOR LITHIUM-ION BATTERIES*. Paper presented at CESEP 2017 - 7th international conference on energy storage and environment protection, Lyon, France.
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- 9) Haye, E., Busby, Y., da Silva Pires, M., **Job, N.**, & Pireaux, J.-J. (2017, October). *Synthesis and characterization of Ni-based nanoparticles by low-pressure plasma treatment of a solid precursor*. Paper presented at 8th International Conference on Innovations in Thin Film Processing and Characterization, Nancy, France.
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- 10) Deschamps, F., & **Job, N.** (2017, August 14). *Conductivity measurement of PEMFC catalytic layers based on carbon xerogels and carbon black*. Paper presented at Advances in Functional Materials Conference 2017.
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- 11) Zubiaur, A., Asset, T., Deschamps, F., Stergiopoulos, V., Busby, Y., Dubau, L., Maillard, F., Pireaux, J.-J., & **Job, N.** (2017, March 03). *Carbon gel-supported catalysts for PEM fuel cell catalytic layers*. Paper presented at European Fuel Cell Car Workshop (EFCW 2017), Orléans, France.
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- 12) Asset, T., Chattot, R., Dubau, L., **Job, N.**, & Maillard, F. (2017). *Controlling the morphology, activity and durability of PtNi porous hollow nanoparticles through the nature of their carbon support*. Paper presented at 68th Annual Meeting of the International Society of Electrochemistry, Providence, Etats-Unis.
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- 13) Romano, A.-P., Caldarella, G., Poelman, M., Maseri, F., Olivier., M., & **Job, N.** (2017). *Corrosion performance of electropolymerized doped polypyrrole coatings on a 316L stainless steel bipolar plates for proton exchange membrane fuel cells (PEMFC)*. Paper presented at EuroCorr2017 & 20th ICC congress, Prague, République Tchèque.
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- 14) Busby, Y., Gulas, M., Laurent-Brocq, M., Devant, L., Stergiopoulos, V., **Job, N.**, & Pireaux, J.-J. (2016, December 12).  *Nanoparticles-nanosubstrates hybrids through one pot synthesis by plasma treatment: towards optimization of Pt/carbon catalysts for PEM fuel cells*. Paper presented at 6th International Conference on Advanced Plasma Technologies ICAPT-6, Siem Reap, Cambodia.
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- 15) Baneton, J., Busby, Y., Caldarella, G., Laha., P., Pireaux., J.-J., **Job, N.**, Terryn, H., & Reniers, F. (2016, November 06). *Using a dielectric barrier discharge (DBD) device to produce proton exchange membranes at atmospheric pressure for PEMFC technology*. Paper presented at 69. AVS 63rd International Symposium & Exhibition, Nashville (TE), USA.
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- 16) Piedboeuf, M.-L., Léonard, A., & **Job, N.** (2016, September 22).  *Carbon xerogels: model materials to study the behavior of hard carbons as anodes for lithium-ion batteries*. Paper presented at 3rd International seminar on aerogels, Sophia-Antipolis, France.
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- 17) Busby, Y., da Silva., M., Stergiopoulos, V., **Job, N.**, Houssiau, L., & Pireaux., J.-J. (2016, September 19). *Dry synthesis of Pt/C and Pt-Ni/C catalysts for PEM fuel cells by low-pressure plasma*. Paper presented at E-MRS Fall Meeting, Symposium Q: 'Advanced materials for fuel cells and electrolyzers', Varsovie, Pologne.
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- 18) Asset, T., Chattot, R., Nelayah, J., Dnerc, J., Bordet, P., Dubau, L., **Job, N.**, & Maillard, F. (2016, September 12).  *Influence of grain boundaries on the COads monolayer oxidation and oxygen reduction reaction kinetics*. Paper presented at International Symposium on Electrocatalysis (ECAT 2016), Kanagawa, Japan.
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- 25) Deschamps, F., Léonard, A., & **Job, N.** (2015, July 15). *Characterization of PEMFC catalytic layers based on carbon xerogels*. Paper presented at Carbon 2015.
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- 26) Léonard, A., Piedboeuf, M.-L., & **Job, N.** (2015, July 13). *How do surface-modified carbon xerogels devoid of micropores behave as anode materials for Li-ion batteries ?* Paper presented at ACIN 2015 - International Symposium on Advanced Complex Inorganic Nanomaterials, Namur, Belgique.
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- 28) Piedboeuf, M.-L., Léonard, A., Deschamps, F., & **Job, N.** (2015, May 18). *Xérogels de carbone en tant qu'anode de batteries Li-ion: Vers une relation texture - performances électrochimiques*. Paper presented at Colloque francophone du carbone 2015, Les karellis, France.
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- 29) **Job, N.**, Piedboeuf, M.-L., Zubiaur, A., Deschamps, F., & Léonard, A. (2015). *Carbon xerogels as model materials for electrochemical devices*. Paper presented at 17th International Sol-Gel Conference.
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- 30) **Job, N.**, Lambert, S., Zubiaur, A., Cao., C., & Pirard, J.-P. (2014, July). *Design of Pt/carbon xerogel catalysts for PEM fuel cells*. Paper presented at 11th International Symposium on Scientific Bases for the Preparation of Heterogeneous Catalysts, Louvain-la-Neuve, Belgium.
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- 31) Zubiaur, A., Chatenet, M., Maillard, F., Olu, P.-Y., & **Job, N.** (2014, July). *Synthesis of Pt/Carbon Xerogel Electrocatalysts for Proton Exchange Membrane Fuel Cells (PEMFC): Effect of the Reduction Procedure*. Paper presented at XII international conference on Nanostructured Materials (NANO 2014), Moscou, Russie.
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- 32) Piedboeuf, M.-L., Léonard, A., Traina, K., & **Job, N.** (2014, May 15). *Influence du broyage mécanique sur la taille et les paramètres texturaux de particules de xérogels de carbone*. Paper presented at Conférence annuelle du Groupe Français d'Etude sur le Carbone GFEC 2014, Nouan le Fuzelier (Orléans), France.
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- 33) Léonard, A., Piedboeuf, M.-L., & **Job, N.** (2014, May 13). *Diminution de la microporosité de xérogels de carbone poreux par modification de surface et évaluation de leurs performances en tant que matériaux d'anodes pour batteries Li-ion*. Paper presented at Colloque du GFEC 2014, Nouan-le-Fuzelier, France.
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7. Posters pour un mandat doctoral (aspirant, clinicien-chercheur doctorant) ou postdoctoral (chargé de recherches)


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- 2) Carabetta, J., & **Job, N.** (2019, May 30). *Si-Doped Carbon Xerogels for Li/Na-ion Batteries*. Poster session presented at 2019 Spring Meeting of the European Materials Research Society (E-MRS) - #7th Meeting, Nice, France.
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- 7) Carabetta, J., Léonard, A., Piedboeuf, M.-L., & **Job, N.** (2017, October). *Carbon RF xerogel doping strategies for Li-ion and Na-ion batteries*. Poster session presented at Carbon for Energy Storage and Environment Protection (CESEP) 2017, Lyon, France.
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