

CATHIE VIX-GUTERL

VP Strategic Anticipation R&D.
TOTAL SE

Cathie VIX-GUTERL joined TOTAL in September 2018 as VP Strategic Anticipation R&D.

She is graduated in Chemical Engineering from Ecole Européenne d'Ingénieurs de Strasbourg and holds a PhD in Material Science.

She previously worked as a CNRS senior researcher focused on carbon and ceramic-based materials for automotive, aeronautic, storage energy and environmental application. She has co-authored 125 journal publications, 8 book-chapters, 5 patents and more than 280 communications. She was coordinator and scientific leader for more than 40 international and national research programs with public laboratories and industrial partners. She has supervised the work of 61 graduate students.

During her previous 26 years at CNRS, she held different senior-management positions. She created and directed the Material Science Institute of Mulhouse (CNRS joint unit of 200 persons) and the Institute Carnot MICA which gathers 17 research and technological members to support the industrial partners in designing products and services of the future in the field of functional materials.

She was also Vice-President of the Network of Carnot Institute.

She has also been involved in different assessment activities for, among others, National Agency for Education and Research (HCERES), National Research Agency (ANR); BPI France (I-Lab competition), Natural Sciences and Engineering Research Council of Canada and french member of the COST review panel.

She is a member of the National Council for the Industry.

She was awarded the CNRS Medal of Innovation in 2016 and the Legion of Honor in 2018.

Missions d'évaluation réalisées

- Appointed member of the innovation competition (I-Lab) funded by BPI France for the creation of innovative technological enterprises.
- Appointed member of several committees of the National Agency for Education and Research (HCERES) for the evaluation of public research organization (EPST, engineer school, EPIC...), research units and doctoral schools
- Chair, co-chair and appointed member of evaluation committee of the National Research Agency (ANR) programmes.
- Appointed member of the CNRS national committee of experts in material,
- chemistry, nanomaterial and process.
- Regular scientific evaluation for international scientific journals and national granting agencies.

Principales publications

1. **C. Vix-Guterl, S. Boulard, J. Parmentier, J. Werckmann and J. Patarin**
Synthesis of ordered porous carbon material by CVI starting from a silica template - Chemistry Letters 10, 1065 (2002)
2. **C.Vix-Guterl, E.Frackowiak, K. Jurewicz, M. Friebe, J. Parmentier and F. Beguin**
Electrochemical energy storage in ordered porous carbon materials - Carbon, 43, 6, 1293-1302 (2005)
3. **J.C. Rietsch, P. Brender, J. Dentzer, R. Gadiou, L. Vidal and C. Vix-Guterl**
Evidence of water chemisorption during graphite friction under moist conditions - Carbon, 55, 90-97 (2013)
4. **C. Matei-Ghimbeu, J.M. Le Meins, C. Zlotea, L. Vidal, G. Schrodj, M. Latroche, C. Vix-Guterl**
Controlled synthesis of NiCo nanoalloys embedded in ordered porous carbon by a novel soft-template strategy - Carbon, 67, 260-272 (2014)

5. **C. Matei-Ghimbeu, J.M. Le Meins, L. Vidal, C. Vix-Guterl**
Catalyst-free soft template synthesis of ordered mesoporous carbon tailored by phloroglucinol/glyoxylic acid environmentally friendly precursors - *Green Chemistry* 16, 3079-3088 (2014)
6. **A. Jahel, C. Matei-Ghimbeu, L. Monconduit, C. Vix-Guterl**
Confined ultrasmall SnO₂ particles in micro/mesoporous carbon as an extremely long cycle-life anode material for Li-ion batteries - *Advanced Energy Materials*, 4, 11 (2014)
7. **Ph. Bernardo, JM. Le Meins, L. Vidal, J. Dentzer, R. Gadiou, W. Markle, P.L Novak, ME. Spahr, C. Vix-Guterl**
- Influence of graphite edge crystallographic orientation on the first lithium intercalation in Li-ion battery. - *Carbon*, 91, 458-467 (2015).
8. **C. Matei-Ghimbeu, J.M. Le Meins, C. Zlotea, L. Vidal, G. schroedj, M. Latroche, C. Vix-Guterl**
Controlled synthesis of NiCo nanoalloys embedded in ordered porous carbon by a novel soft-template strategy - *Carbon*, 67, 260-272 (2014)
9. **Bousige C, Ghimbeu-Matei C, Vix-Guterl C, Pomerantz, Suleimenova A, Vaughan G, Garbarino, G. Feygenson M, Wildgruber C, Ulm J. Pellend R.** - Realistic molecular model of kerogen's structure
Nature Materials, 15, 5, 576, 2016
10. **Zhang BA, Ghimbeu CM, Laberty C, Vix-Guterl C; JM Tarascon** - Correlation between microstructure and Na-storage behavior in Hard Carbon - *Advanced Energy Materials*, 6, 1, 2016