



Hippolyte DORY

PHD IN CHEMISTRY AND PHYSICOCHEMISTRY OF MATERIALS

Chemical engineer/PhD in chemistry of materials working on the development of hybrid particles for electrophoretic ink used in electrophoretic ink displays (EPIDs)

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Montpellier, FRANCE

📅 30 years old

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LANGUAGES

French
Native

English
C1 - CAE

German
B2 - Goethe Institut

REFERENCES

Dr. Elodie BOURGEAT-LAMI
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SELECTED PUBLICATIONS AND PATENTS

Dory et al. *Adv. Eng. Mater.* **2024**,
2401546.
<https://doi.org/10.1002/adem.202401546>

Dory et al. *Int. J. Applied. Ceramic
Tech.* **2023** ; 20 :141–152.
<https://doi.org/10.1111/ijac.14173>

DANIELE Stéphane, DORY
Hippolyte, JOURDAN Alex
Composé boré utile pour la
séparation isotopique du bore,
son procédé de synthèse et ses
utilisations – FR3120630

RESEARCH INTERESTS

- **Design and synthesis of new precursors for material synthesis**
(Organic/inorganic polymer chemistry, air-/moisture- free synthesis, silicon and boron chemistry, sol-gel)
- **Materials synthesis & processing**
(Additive manufacturing [DLP, UV-LCD, FDM], moulding, warm pressing, solvo(-hydro) thermal synthesis)
- **Surface chemistry for the preparation of functional materials**
(ALD, spray-coating, dip-coating, spin-coating, VLS)
- **Characterization of precursors and materials**
(XPS, XRD, FTIR, SEM, FIB-STEM, N2 adsorption-desorption, NMR, TGA, Photo-DSC, Synchrotron [HE-XRD/PDF, XANES/EXAFS], DLS, Turbiscan, SEC)

RESEARCH BACKGROUND

- **Post-doctoral fellowship**
Since Oct. 2025 [CP2M - UMR5128](#) Villeurbanne, France
Synthesis of hybrid nanoparticles for electrophoretic image displays (EPIDs) by RAFT-mediated polymerization-induced self assembly of ionic block copolymers
Sup. Dr. Elodie Bourgeat-Lami
Co-sup. Dr. Fabrice Brunel
- **PhD thesis**
Sept. 2021 - Dec. 2024
[Institut Européen des Membranes - UMR5635](#) Montpellier, France
Development of ceramic materials through 3D printing based on UV-curable precursors: applications in catalysis and separation
Sup. Dr. Chrystelle SALAMEH
Co-Sup. Prof. Philippe MIELE
- **Scientific assistant**
Jan. 2021 - Mar. 2021 [LOC-ETH Zürich](#) Zürich, Switzerland
Synthesis of new cyclen derivatives for the stabilization of Gd and enhancement of MRI signal
Sup. Prof. Yoko YAMAKOSHI
- **Master Thesis**
Feb. 2020 - July 2020 [CP2M - UMR5128](#) Villeurbanne, France
Synthesis of new volatile boron precursors for the isotopic enrichment of ¹⁰B-materials
Sup. Prof. Stéphane DANIELE
- **Research internship**
July 2018 - July 2019 [Sartomer Inc. \(Arkema\)](#) Exton, PA, USA
Development of new photo-curable high-performance adhesives
Sup. Jon Scholte, PhD, Research scientist

ACADEMIC BACKGROUND

- **PhD thesis**
Sept. 2021 - Dec. 2024 [Université de Montpellier](#) Montpellier
PhD in chemistry and physico-chemistry of materials
- **Chemistry and chemical engineering degree**
Sept. 2016 - Sept. 2020 [CPE Lyon](#) Villeurbanne, France
- **MSc in inorganic chemistry**
Sept. 2019 - Sept. 2020 [Université Claude Bernard Lyon 1](#) Villeurbanne, France

COMMUNICATIONS (2022 TO 2024)

- **First Joint European-MRS Chapter Workshop, Paris, March 19-22, 2024** - Oral communication
- **Journée Technique Eau & Céramique, Cazères, June 27, 2023** - Oral communication
- **ISIEM, June 19-23, 2023** - Oral communication
- **Balard Chemistry Conference, June 14-16, 2023** - Oral communication
- **Doctoral Students' Day EDSCB 2023** - Oral communication
- **Doctoral Students' Day of IEM 2023** - Poster presentation – Award of the Best Poster

SCIENTIFIC EVENTS ORGANIZATION, SCIENTIFIC COLLABORATIVE EXPERIMENTS AND RESEARCH PROJECTS

Research project

ANR JCJC - Membranes céramiques non oxyde dérivées de polymères pour le traitement des eaux usées – MONOME (2021-2025)

Scientific collaborative experiments

High Resolution XRD/PDF experiments at the PETRA III Synchrotron – Hamburg, Germany - Collaboration with Dr Nicholas Bedford UNSW/Colorado School of Mines – April 2024

Scientific events organization

International Symposium on Inorganic and Environmental Materials (ISIEM) 2023 - Communication on social media for the advertising of the symposium

TEACHING ACTIVITIES

2024: Supervision of two Master students (topic: Molecular design of new polymer-derived-ceramic single source precursors for 3D printing and immobilization of transition metals)

2023: Supervision of a Master student (topic: Vapour-Liquid-Solid surface modification of 3D printed ceramic membranes for oil/water separation)

2022 and 2023: Supervision of the practical works in Inorganic Materials Chemistry at ENSCM

2022: Supervision of Bachelor student (topic: Development of hybrid systems for the fabrication of Polymer-Derived-Ceramic porous materials)

