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Professional Interests

Inorganic, organic, solid-state, supramolecular chemistry, reticular synthesis, host-guest chemistry and materials chemistry; crystal engineering; crystallography; synthesis of inclusion compounds, halogenated materials, pharmaceutical co-crystals, metal-organic frameworks and covalent organic frameworks; network topology; environmental applications, PFASs, nanocellulose; gas adsorption; X-rays techniques; structure determination by single crystal diffraction; diffuse scattering, sustainable environment solutions.

Professional Experience

Sept.2025 - current	Post-doctoral (80%), University of Gothenburg
Oct 2024 - current	Researcher (20%), Chalmers University of Technology
March 2025 – July 2025	Intern, Chalmers University of Technology
Feb 2024 – current	Lecturer, Université Catholique d'Afrique Centrale
April 2023 - Dec. 2023	Senior Scientist, AstraZeneca
April 2021 - Feb. 2023	Researcher, Chalmers University of Technology
April 2019 - March 2021	Post-doctoral research fellow, Chalmers University of Technology
Sept. 2017 - Feb. 2019	Research Assistant and Post-doctoral researcher, University of Cape Town
Feb. 2017 - July 2017	Academic Assistant, University of Cape Town (Lecturing organic chemistry)
Feb. 2016 - Dec. 2017	Demonstrator and Tutor, University of Cape Town
April 2014 - Nov. 2014	Assistant Researcher, University of Cape Town
April 2011 - April 2012	Laboratory Assistant, Engen Petroleum Ltd. Cape Town
Nov. 2010 - March 2011	In-service training, Cape Peninsula University of Technology, Cape Town

Education

Feb. 2015 - Dec. 2017	PhD University of Cape Town, Centre for Supramolecular Chemistry <i>Research Title: Halogen-Halogen Interactions in Host-guest Systems.</i>
Feb. 2013 - Sept. 2014	MSc. Cape Peninsula University of Technology, Crystal Engineering Centre Title: Crystal Engineering of Selected Phenolic Acids.
Feb. 2012 - Dec. 2012	BTECH. Chemistry (Cum Laude), Cape Peninsula University of Technology Analytical chemistry, Organic Chemistry, Inorganic Chemistry, Physical chemistry
Feb. 2009 - Dec. 2011	ND. Analytical Chemistry, Cape Peninsula University of Technology (Cape Town) (ND = National Diploma)
Jan. 2008 - Dec. 2008	Electrical Engineering, College of Cape Town (Cape Town) (Successfully completed first year for National Diploma, then switched to Chemistry)

Positions of Trust

Sept. 2021 - Sept. 2023	Member of the organising committee of Nobel Symposium NS 193 <i>Metal-organic frameworks - Fundamental Science Enabling Transformative Materials</i> funded by the Nobel Foundation
April 2021-	Topic Editor of <i>Inorganics</i> (https://www.mdpi.com/journal/inorganics)
Dec. 2019 - July 2021	Member of the expert and procurement group for a new single crystal X-ray diffractometer for Chalmers University of Technology Materials Analysis Laboratory

Prizes and Awards

2013	James Moir Award from South African Chemical Institute (SACI).	
2017	George A. Jeffrey Student Travel Award. 1000 US dollar	
2017	African-German Network of Excellence in Science (AGNES) Grant for Junior Researchers.	1000 Euro
2021	1 st PNAS-boll, the Per Lincoln prize from Chalmers University of Technology	
2022	Outstanding Reviewer 2021 for Molecular Systems Design & Engineering	
2023	Outstanding Reviewer 2023 for CrystEngComm	
2024	Inorganics Young Investigator Award, MDPI. CHF 2000	

Invited Presentations/Lectures

1. October 2018, 2nd Organic and Inorganic Chemistry Symposium Southern Africa, University of Botswana, Gaborone. <https://iupac.org/event/2nd-symposium-on-organic-and-inorganic-chemistry-southern-africa/>
2. November 2021, 21st Century Materials: Emerging Scholars at the Frontiers, the Berkeley Global Science Institute at the University of California - Berkeley, the Basque Center on Materials, Applications and Nanostructures and the United Arab Emirates University. <https://conferences.uaeu.ac.ae/esfs/en/schedule.shtml>
3. September 2023, 5th European Conference on Metal Organic Frameworks and Porous Polymers (EuroMOF2023), Granada, Spain. <https://www.euromof2023.com/>
4. February 2025, Winter School on Quantum Metal-Organic Frameworks. <https://www.chalmers.se/en/current/calendar/f-winter-school-on-quantum-metal-organic-frameworks/>
5. April 2026, Materials Research Society 2026 Spring Meeting, Symposium on "Functional Porous Framework Materials: Advancing Sustainable Applications", Honolulu, Hawaii, USA. <https://www.mrs.org>

Independent Funding

- 2022 Royal Society of Chemistry Research Fund UK (application ID **R21-8610976142**). SEK 50 000
- 2021 Selected by the Royal Swedish Academy of Sciences for participation in the 71st Lindau Nobel Laureate Meeting, SEK 50 000 grant by the Ragnar Söderberg Foundation.
- 2020 Stiftelsen Lars Hiertas Minne, Research grant. SEK 41 000
- 2019 Full cost grant from the Berkeley Global Science Institute for the First International School on Advanced Porous Materials, Lake Como, Italy.
- 2019 PI for funded beam time application to APS, Argonne National Laboratory, USA.
- 2019 Chalmerska forskningsfonden travel grant. SEK 18 000
- 2017 Foundation Contingency Scholarship, University of Cape Town.
- 2016 University of Cape Town International & Refugee Fellowship, two-year fellowship.

Collaborative Funding

- 2019 AI, Big Data, Machine Learning and Metal-Organic Framework synthesis, analysis and design. A proof-of-concept study (MOF-CADS) Chalmers Research grant, Co-applicant. SEK 200 000
- 2020 Restarting Crystallography in West Sweden, Olle Engkvist Foundation, Co-applicant. SEK 1 380 000
- 2020 FORMAS, Research grant, Co-applicant. SEK 2999000
- 2020 Swedish Research Links, Swedish Research Council, Network grant, Co-applicant. SEK 795 000
- 2021 Internship funding from AoA Nano for an amanuensis position, Chalmers University of Technology, Co-applicant. SEK 40 000 + 90 000
- 2021 The Nobel Symposium NS 193 on Metal-Organic Frameworks and other hybrid materials funded by the Nobel Foundation, Co-applicant. SEK 950 000
- 2021 GENIE Chalmers visiting professorship to Dr Raychelle Burks, American University, Washington DC, Co-applicant. SEK 870 000
- 2022 Chalmers Innovation Office, grant in order to prepare patent *Improved mosquito repellents using Metal-Organic Frameworks (MOFs)*.
- 2024 GENIE Chalmers visiting researcher. SEK 500 000

Supervising and Mentoring Activities

Leadership, mentoring and management experience from the Centre for Supramolecular Chemistry research at the University of Cape Town (responsible for a team of 16 people). Co-supervision and training of Honours/Master students.

At Chalmers University of Technology, Department of Chemistry and Chemical Engineering: Supervising two MSc thesis students, one MSc student 15-credit project work, Two MSc student at AstraZeneca, co-supervising a BSc thesis project group, supervising two amanuensis MSc students and one PhD student.

Teaching Experience**University of Cape Town (UCT)**

Course	Course code	Semester	role, % of full time
Chemistry	CEM1000W	1/2017	lecturer, 50%
Chemistry for Engineers	CEM1008F	1/2016	tutor, 50%

Curriculum Vitae

Francoise Mystere Amombo Noa

Chemistry	CEM1010H	2/2016	tutor, 50%
Chemistry for medical students	CEM1011F	1/2017	demonstrator, 50%
Chemistry	CEM2005W	2/2017	tutor&demonstrator, 50%

Cape Peninsula University of Technology (CPUT)

Course	Course code	Semester	role, % of full time
Physical Chemistry 1	PCH150S	2/2010	tutor & demonstrator, 50%
Physical Chemistry 2	PCH260S	1/2011	tutor & demonstrator, 50%

Job-related Skills

▪ **Single crystal and powder X-ray diffractometers**, differential scanning calorimeter, thermogravimetric analyser, GC, HPLC, IR and NMR spectrometers, UV-Vis spectrometer, Leica polarizing microscope, polarimeter, Atomic absorption, **electron diffraction**, gas adsorption.
▪ **Neutron and synchrotron radiation**, laser radiation, organic and inorganic chemistry, physical chemistry, chemical industry, chemical quality assurance, analytical chemistry.

Crystallographic Softwares and Interfaces: X-seed, Olex2, Platon, WinGX, CrystalMaker, CrysAlis Pro, Shelx (e, s, t, le), Mercury.

Training Courses

1. 29 March - 29 April **2016**, 5 weeks HERCULES (Higher European Research Course for Users of Large Experimental Systems) Course, **Applications to Physics and Chemistry of Condensed Matter using Neutron and Synchrotron Radiations** at ESRF, ILL, *Université Grenoble Alpes*.
2. 27-31 March **2019**, School on Reticular Chemistry: description and design of framework materials, *Stockholm University*.
3. 17-21 June **2019**, *First International School on Advanced Porous Materials* (MOFSchool), Lake Como, Italy, <https://mofs.lakecomoschool.org>

Conferences (oral presentations only, see also **Invited Presentations** above)

1. The 29th European Crystallographic Meeting (ECM29), Rovinj, Croatia, 23-28 August **2015**, *Halogen Bonding in Host-Guest Compounds; Structures and Kinetics of Enclathration and Desolvation*.
2. The Science Postgraduate Student Council **2016** Symposium, 31 August, University of Cape Town, South Africa, *Guest Exchange in Halogenated Host – Guest Compounds: Structures and Kinetics*.
6. 2nd Organic & Inorganic Chemistry Symposium in Southern Africa: Gaborone, Botswana, 4-5 October **2018**, *Halogen Bonding in Polymorphs and Werner Clathrates: Structures and Kinetics of Enclathration*.
7. ACS National meeting, Philadelphia **2020** (Selected for oral presentation: <https://www.morressier.com/article/hexagonbased-metalorganic-frameworks-reticular-chemistry-guest-inclusion-studied-secondary-ion-mass-spectrometry/5e735fe3cde2b641284aa00b>.)

Memberships

- * Royal Society of Chemistry (RSC, MRSC level)
- * American Chemical Society (ACS)

Reviewer: I am reviewing manuscripts from *Science*, *Nature Chemistry*, *Journal of American Chemical Society* (JACS), *Crystal Growth & Design*, *Molecular Systems Design & Engineering*, *Crystals*, *ACS Omega*, *Industrial & Engineering Chemistry Research* (IECR), *Molecules*, *Gels* and *CrystEngComm*.

Patent: One patent in preparation for *Improved mosquito repellents using Metal-Organic Frameworks (MOFs)*.

Publications (https://www.researchgate.net/profile/Francoise_Amombo_Noa, h-index 15)

1. Ayesha Jacobs, **Francoise M. Amombo Noa** and Jana H. Taljaard. *9-Methoxy-9-(2-methoxyphenyl)-9Hxanthene*. Acta. Cryst, **2012**, E68, o2854. DOI: 10.1107/S1600536812037415.
2. Ayesha Jacobs, **Francoise M. Amombo Noa** and Jana H. Taljaard. *Co-crystals of 9-(2-Methoxyphenyl)-9H-xanthene-9-ol with Caffeine and Theophylline*. J. Chem. Crystallogr, **2013**, 43, 554–560. DOI: 10.1007/s10870-013-0457-3.
3. Ayesha Jacobs and **Francoise M. Amombo Noa**. Hybrid Salt–Cocrystal Solvate: *p-Coumaric Acid and Quinine System*. J. Chem. Crystallogr, **2014**, 44, 57–62. DOI: 10.1007/s10870-013-0480-4.
4. Ayesha Jacobs and **Francoise M. Amombo Noa**. *Co-crystals and co-crystal hydrates of vanillic acid*. CrystEngComm, **2015**, 17, 98-106. DOI: 10.1039/C4CE01795A. **The vanillic acid structure with theophylline in this paper with the Refcode-ZOYBIA was the 750,000th structure submitted to the CSD (Cambridge Structural Database) for the International Year of Crystallography in December 2014.**
5. **Francoise M. Amombo Noa**, Susan A. Bourne and Luigi R. Nassimbeni. *Halogen Bonding in Host-Guest Compounds: Structures and Kinetics of Enclathration and Desolvation*. Cryst. Growth Des, **2015**, 15(7), 3271- 3279. DOI: 10.1021/acs.cgd.5b00402.
6. **Francoise M. Amombo Noa**, Susan A. Bourne, Hong Su and Luigi R. Nassimbeni. *Guest Exchange in Halogenated Host-Guest Compounds: Structures and Kinetics*. Cryst. Growth Des, **2016**, 16, 1636-1642. DOI: 10.1021/acs.cgd.5b01728.
7. **Francoise M. Amombo Noa** and Ayesha Jacobs. *Salts of phenylacetic acid and 4-hydroxyphenylacetic acid with Cinchona alkaloids: Crystal structures, thermal analysis and FTIR spectroscopy*. J. Mol. Struct, **2016**, 1114, 30-37. DOI.org/10.1016/j.molstruc.2016.02.011.
8. **Francoise M. Amombo Noa**, Susan A. Bourne, Hong Su, Edwin Weber and Luigi R. Nassimbeni. *Hydrogen Bonding versus Halogen Bonding in Host-Guest Compounds*. Cryst. Growth Des, **2016**, 16, 4765-4771. DOI: 10.1021/acs.cgd.6b00886.
9. **Francoise M. Amombo Noa** and Ayesha Jacobs. *Phenylacetic acid co-crystals with acridine, caffeine, isonicotinamide and nicotinamide: Crystal structures, thermal analysis, FTIR spectroscopy and Hirshfeld surface analysis*. J. Mol. Struct, **2017**, 1139, 60 – 67. DOI.org/10.1016/j.molstruc.2017.02.066.
10. **Francoise M. Amombo Noa**, Susan A. Bourne, Hong Su and Luigi R. Nassimbeni. *Secondary Interactions in Halogenated Werner Clathrates*. Cryst. Growth Des. **2017**, 17, 1876 – 1883. DOI: 10.1021/acs.cgd.6b01844.
11. **Francoise M. Amombo Noa**, Susan A. Bourne, Hong Su and Luigi R. Nassimbeni. *Halogen-Bonding, Isomorphism, Polymorphism, and Kinetics of Enclathration in Host-Guest Compounds*. Cryst. Growth Des, **2017**, 17, 4647 – 4654. DOI: 10.1021/acs.cgd.7b00521.
12. **Francoise M. Amombo Noa** and Gift Mehlana. *Co-crystals and salts of vanillic acid and vanillin with amines*. CrystEngComm, **2018**, 20, 896 – 905. DOI: 10.1039/C7CE02022H.
13. Cyrielle L.F. Dazem, **Francoise M. Amombo Noa**, Justin Nenwa, Lars Öhrström. *Natural and Synthetic Metal Oxalates – a Topology Approach*, CrystEngComm, **2019**, 21, 6156 – 6164. DOI: 10.1039/C9CE01187K (**back cover and featured as a news article on Chalmers.se**).
14. **Francoise M. Amombo Noa**,* Erik Svensson Grape, Steffen M. Brülls, Ocean Cheung, Per Malmberg, A. Ken Inge, Christine J. McKenzie, Jerker Mårtensson and Lars Öhrström*. *Metal-Organic Frameworks with Hexakis(4-carboxyphenyl)benzene – Extensions to Reticular Chemistry and Introducing Foldable Nets*, Journal of the American Chemical Society, **2020**, 142, 9471–9481. DOI: 10.1021/jacs.0c02984 (**selected to JACS Spotlights, a feature making JACS research accessible to a broader community and featured as a news article on Chalmers.se**). This paper describes the synthesis and characterisation of metal-organic frameworks (MOFs) with a hexagon-shaped organic linker. This emphasised how reticular chemistry is a powerful tool via network topology to predict new topologies with excellent mechanical properties. I synthesised the MOFs, collected some of crystal data, solved the crystal structures and wrote the first draft of the manuscript.
15. Svetlana G. Baca, **Francoise M. Amombo Noa** and Lars Öhrström. *Octanuclear heterometallic Fe^{III}-Ce^{IV} pivalate clusters: from a close {Fe₄Ce₄(m⁴-O)₄} cage to an open {Fe₄Ce₄(m⁴-O)₂(m³-O)₂} core*. Inorganica Chimica Acta, **2021**, 120038. DOI.org/10.1016/j.ica.2020.120038.
16. **Francoise M. Amombo Noa**,* Maria Abrahamsson, Elisabet Ahlberg, Ocean Cheung, Christian R. Göb, Christine J. McKenzie, and Lars Öhrström*. *A unified approach to dot-, rod-, and sheet-MOFs*. Chem, **2021**, 7(9), 2491-2512. DOI.org/10.1016/j.chempr.2021.07.006. This article demonstrates that MOFs can be classified using their metal secondary building units to promote increased thermal and chemical stability going from discrete multi-metal entities to infinite rods to sheets as building units. This study also shows potential applications of MOFs in electrochemical

- applications related to drinking water purification. I provided conceptualization, methodology, investigation, writing original draft, review and editing. Featured in *Forskning och Framsteg*, October 21, <https://fof.se/tidning/2021/10/artikel/lovande-material-fangar-vatten-ur-okenluft>.
17. Lars Öhrström and **Francoise M. Amombo Noa**. *An improved water-harvesting cycle: Turning metal-organic frameworks at the atomic level helps release trapped water molecules*. *Science*, **2021**, 374 (6566), 402. DOI: 10.1126/science.abm1854. I had the privilege to co-write this perspective which is about the potential of solving water stress to water stressed communities by using metal-organic frameworks for passive water capture as sustainable materials. It also touches upon other energy related MOF applications that use the phase transition of water. Featured in *Forskning och Framsteg*, October 21, <https://fof.se/tidning/2021/10/artikel/lovande-material-fangar-vatten-ur-okenluft>.
 18. Johannes Thunberg, Savannah C. Zacharias, Merima Hasani, Olayinka. A. Oyetunji, **Francoise M. Amombo Noa**, Gunnar Westman and Lars Öhrström. *Hybrid metal-organic framework-cellulose materials retaining high porosity: ZIF-8@cellulose nanofibrils*. *Inorganics*, **2021**, 9(11), 84. DOI.org/10.3390/inorganics9110084.
 19. **Francoise M. Amombo Noa**,* Erik Svensson Grape, Michelle Åhlén, William Reinholdsson, Christian R. Göb, François-Xavier Coudert, Ocean Cheung, A. Ken Inge, Lars Öhrström*. *A chiral lanthanum Metal-organic Framework with gated CO₂ Sorption, and concerted framework flexibility*. *Journal of the American Chemical Society*, **2022**, 144 (19), 8725-8733. DOI: 10.1021/jacs.2c02351. This article demonstrates that the synthesized MOF is a flexible MOF with a dynamic framework. This MOF showed a rare phenomenon called gate opening upon CO₂ adsorption. Such behavior is useful for applications in renewable energy. I provided conceptualization, methodology, investigation, writing draft, review and editing.
 20. Daniel Podgornii, **Francoise M. Amombo Noa**, Jan van Leusen, Christine J. McKenzie, Lars Öhrström, Paul Kögerler, Svetlana G. Baca. *Heterometallic {Fe₁₈M₆} (M = Y, Gd, Dy) pivalate-based wheels*. *Cryst. Growth Des.* **2022**, 22(9), 5526-5534. DOI:10.1021/acs.cgd.2c00620.
 21. Michelle Åhlén, **Francoise M. Amombo Noa**, Lars Öhrström, Daniel Hedbom, Maria Strømme, Ocean Cheung. *Pore size effect of 1,3,6,8-tetrakis(4-carboxyphenyl)pyrene-based metal-organic frameworks for enhanced SF₆ adsorption with high selectivity*. *Microporous and Mesoporous Materials*. **2022**, 343, 112161. DOI.org/10.1016/j.micromeso.2022.112161. SF₆ is used in a number of applications such as in high-voltage systems, circuit breakers, and semiconductor manufacturing. However, its global warming potential is over 22,000 times higher than CO₂. This work aims at developing materials for the capture of SF₆ and we showed that our four new pyrene-based MOFs have high selectivity, making them candidate adsorbents for further development. I provided diffraction and synthesis expertise, did reviewing, editing, formal analysis, and data curation.
 22. **Francoise M. Amombo Noa**,* Ocean Cheung, Michelle Åhlén, Elisabet Ahlberg, Priyanka Nehla, Germán Salazar-Alvarez, Lars Öhrström*. *A Mn(II) Rod Metal-Organic Framework-Structure, SF₆ Gas Sorption, Magnetism and Electrochemistry*. *Chem. Commun.* **2023**, 59, 2106-2109. DOI: 10.1039/D2CC06916D.
 23. Johannes Hungwe, Piwai Tshuma, Maureen Gumbo, **Francoise M. Amombo Noa**, Lars Öhrström and Gift Mehlana. *Tuning the topology of a 2D metal-organic framework from 2D to 3D using modulator assisted synthesis*. *CrystEngComm*, **2023**, 25, 1486-1494. DOI:10.1039/D3CE00039G.
 24. Maureen Gumbo, Banothile CE Makhubela, **Francoise M. Amombo Noa**, Lars Öhrström, Bassem Al-Maythaly, Gift Mehlana. *Hydrogenation of Carbon Dioxide to Formate by Noble Metal Catalysts Supported on a Chemically Stable Lanthanum Rod-Metal-Organic Framework*. *Inorg. Chem.* **2023**, 62(23) 9077 - 9088. DOI:10.1021/acs.inorgchem.3c00884.
 25. Amal Yousri, Matti Haukka, Morsy AM Abu-Youssef, Mohammed Salah Ayoub, Magda MF Ismail, Nagwan G El Menofy, Saied M Soliman, Assem Barakat, **Francoise M. Amombo Noa**, Lars Öhrström. *Synthesis, structure diversity, and antimicrobial studies of Ag (i) complexes with quinoline-type ligands*. *CrystEngComm*. **2023**, 25, 3922-3930. DOI: 10.1039/D3CE00417A.
 26. August Runemark, Mario Martos, Martin Nigrini, **Francoise M. Amombo Noa**, Lars Öhrström, Henrik Sundén. *Photochemical Access to Substituted β-Lactams and β-Lactones via the Zimmerman–O'Connell–Griffin Rearrangement*. *Org. Lett.* **2023**, 25(29), 5520–5524. DOI:10.1021/acs.orglett.3c01990.
 27. Johanna Sandström, Helena Berg, Marei Hacke, Lars Öhrström, **Francoise M. Amombo Noa**. *Salt efflorescence on leather objects from the Vasa ship*. The Triennial Conference of the International Council of Museums - Committee for Conservation, ICOM-CC **2023**.
 28. Lars Öhrström, Joakim Andreasson, Hao Li, **Francoise M. Amombo Noa**. The open and closed forms of a perfluoro diarylethene photoswitch-halogen bonding, network topology and CSD analysis. *Crystal Growth & Design*. **2024**, 24(3) 923–931. <https://doi.org/10.1021/acs.cgd.3c00767>

29. Shima Ghasemi, Luca Ornago, Zacharias Liasi, Magnus Bukhave Johansen, Theo Juncker Von Buchwald, Andreas Erbs Hillers-Bendtsen, Sebastian van der Poel, Helen Hölzel, Zhihang Wang, **Francoise M. Amombo Noa**, Lars Öhrström, Kurt V. Mikkelsen, Herre S. J. van der Zant, Samuel Lara-Avila and Kasper Moth-Poulsen. *Exploring the impact of select anchor groups for norbornadiene/quadricyclane single-molecule switches*. *Journal of Materials Chemistry C*. **2023**, 11, 15412–15418. <https://doi.org/10.1039/D3TC02652C>
30. Zhejian Cao, Xiaozhi Fu, Hao Li, Santosh Pandit, Aleksej Zelezniak, **Francoise M. Amombo Noa**, Lars Öhrström and Ivan Mijakovic. *Synthesis of metal-organic frameworks through enzymatically recycled PET*. *ACS Sustainable Chemistry & Engineering*. **2023**, 11, 43, 15506–15512. <https://doi.org/10.1021/acssuschemeng.3c05222>.
31. Raychelle Burks, Lars Öhrström and **Francoise M. Amombo Noa**. *Clarifying the complex chemistry of cobalt(II) thiocyanate based tests for cocaine using single crystal X-ray diffraction and spectroscopic techniques*. *Journal of Forensic Sciences*. **2023**; 00:1–10. <https://doi.org/10.1111/1556-4029.15403>
32. Ganesh H. Shinde, Ganesh S. Ghotekar, **Francoise M. Amombo Noa**, Lars Öhrström, Per-Ola Norrby and Henrik Sundén. *Boron-Mediated Regiospecific Ortho Halogenation of N-Aryl Amides and Ureas: Harnessing Boron Reactivity for Efficient C-X Bond Formation*. *Chemical Science*. **2023**, 14, 13429–13436. <https://doi.org/10.1039/D3SC04628A>
33. Konstantinos Papadopoulos, Ola Kenji Forslund, Stephen P. Cottrell, Koji Yokoyama, Pabitra Nayak, **Francoise M. Amombo Noa**, Lars Öhrström, Elisabetta Nocerino, Lars Börjesson, Jun Sugiyama, Martin Månsson, Yasmine Sassa. *Photophysical ion dynamics in lead perovskite MAPbX₃ (X=Br, Cl) single crystals*. *Advanced Functional Materials*. **2024**, 3, 2300120. <https://doi.org/10.1002/apxr.202300120>
34. Raychelle Burks, **Francoise M. Amombo Noa** and Lars Öhrström, *Polymorphism of bis(benzimidazole)bis(thiocyanato)-cobalt(II) and its relevance to studies of the chief color test for cocaine*. *Inorganics*. **2024**, 12(1), 28. <https://doi.org/10.3390/inorganics12010028>.
35. Maureen Gumbo, Edward Ocancey, Banothile C.E. Makhubela, **Francoise M. Amombo Noa**, Lars Öhrström, Obieda S. Mudraj, Gift Mehlanga. *Single site catalyst supported in mesoporous UiO-66 for catalytic conversion of carbon dioxide to formate*. *Sustainable Energy & Fuels*. **2024**, 8, 777–788. <https://doi.org/10.1039/D3SE01465G>.
36. Shima Ghasemi, Monika Shamsabadi, Axel Olesund, Andreas Erbs Hillers-Bendtsen, Francisco Najera, Fredrik Edhborg, Adil S. Aslam, Wera Larsson, Zhihang Wang, **Francoise M. Amombo Noa**, Rebecca Jane Salthouse, Lars Öhrström, Helen Hölzel, E. Perez-Inestrosa, Kurt V. Mikkelsen, Jörg Hanrieder, Bo Albinsson, Ambra Dreos, Kasper Moth-Poulsen. *Pyrene functionalized norbornadiene-quadricyclane fluorescent photoswitches: characterization of their spectral properties and application in imaging of amyloid beta plaques*. *Chem a Eur Journal*. **2024**. e202400322. <https://doi.org/10.1002/chem.202400322>.
37. Ganesh H Shinde, Hugo Castlind, Ganesh S Ghotekar, **Francoise M. Amombo Noa**, Lars Öhrström, Henrik Sundén. *Site Selective Boron Directed Ortho Benzoylation of N-Aryl Amides: Access to Structurally Diversified Dibenzazepines*. *Org. Lett*. **2025**, 27 (1) 207–211. <https://doi.org/10.1021/acs.orglett.4c04196>
38. Zhejian Cao, Santosh Pandit, **Francoise M. Amombo Noa**, Jian Zhang, Wengeng Gao, Shadi Rahimi, Lars Öhrström, and Ivan Mijakovic. *Mechano-bactericidal surfaces achieved by epitaxial growth of metal-organic frameworks*. *Advanced Science*. **2025**, e05976. <https://doi.org/10.1002/advs.202505976>
39. Hao Li, **Francoise M. Amombo Noa***, Michelle Åhlén, Zhejian Cao, Joakim Andréasson, Ocean Cheung, Lars Öhrström*. *On metal-organic framework isomers, and the SF₆ sorption and fluorescence of an In and a Zr MOF with a tritopic linker*. *ChemComm*. **2025**, 61, 14129 – 14132. <https://doi.org/10.1039/D5CC02180D>
40. Kottan Nihal, Pandit Santosh, Zhang Jian, **Francoise M. Amombo Noa**, Ohrstrom Lars, Mijakovic Ivan, Cao Zhejian. *Self-cleaning mechano-bactericidal surfaces by metal-organic framework embedded polycaprolactone composites*. *ACS Sustainable Chemistry & Engineering*. Manuscript Submitted. **2025**.
41. Henrik Björck, William Reinholdsson, Ocean Cheung, Guojon Zhou, Zhehao Huang, **Francoise M. Amombo Noa*** and Lars Öhrström*. *Extending hexagon-based Metal-Organic Frameworks - Mn(II) and Gd(III) MOFs with hexakis(4-(4-carboxyphenyl)phenyl)benzene*. *Inorganics*. Manuscript Submitted. **2025**.

Book:

Lars Öhrström and **Francoise M. Amombo Noa**, *Metal-Organic Frameworks*, ACS publications, ACS in Focus series, 2021. <https://pubs.acs.org/doi/book/10.1021/acs.infocus.7e4004>. The book is an introduction to the complex world of MOFs. It is suitable for undergraduates and researchers new to the field of MOFs chemistry. The book is broad and expansive in scope, but inclusive and comprehensive in detail. I co-wrote the book. Featured in Forskning och Framsteg, October 21, <https://fof.se/tidning/2021/10/artikel/lovande-material-fangar-vatten-ur-okenluft>

Outreach: In November 2016, I contributed to a blog on the Cambridge Crystallographic Data Centre (CCDC) website, on my experiences in conducting research in Africa and my impressions on the 1st Pan-African Conference on Crystallography (PCCr1), held in Dschang, Cameroon, 6-10 October 2016. <https://www.ccdc.cam.ac.uk/Community/blog/2016-11-29-the-first-pan-african-conference-on-crystallography/>. This blog was later featured on the British Crystallographic Association (BCA) issue No. 140 March 2017, <https://crystallography.org.uk/assets/pdf/crystallography-news/2017-03.pdf>.

I have contributed to three Chalmers news items in collaboration with Prof Öhrström, Dept of Chemistry and Chemical Engineering communications officer Jenny Holmstrand, and Chalmers' central communications department:

Jan. 2022: **Networks with smart holes can solve big issues**

<https://www.chalmers.se/en/departments/chem/news/Pages/Networks-with-smart-holes-can-solve-big-issues-.aspx>

Aug. 2020: **Foldable chemistry - a new perspective on porous materials**

<https://www.chalmers.se/en/departments/chem/news/Pages/Foldable-chemistry.aspx>

Nov 2019: **Modern materials discovered in nature – the rhubarb molecule did the job**

<https://www.chalmers.se/en/departments/chem/news/Pages/rhubarb-molecule.aspx>

I also featured in Forskning och Framsteg, October 2021, <https://fof.se/tidning/2021/10/artikel/lovande-material-fangar-vatten-ur-okenluft>

I was also interviewed by *Spektrum der Wissenschaft*

Volunteering January 2018 – February 2018: Volunteer at an orphanage for abandoned, abused, neglected or HIV/AIDS infected children, Cape Town (Athlone), South Africa.

Languages French (mother tongue), English (professionally proficient), Cameroonian languages (mother tongue), Portuguese, German, and Afrikaans (basic understanding), Swedish (beginner).

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