

PERSONAL INFORMATION

Clément Falaise

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Age: 37

Nationality: French

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Institut Lavoisier de Versailles (UMR-8180)

Université de Versailles Saint-Quentin

45 avenue des Etats-Unis, 78035 VERSAILLES

• CURRENT POSITION

2017- **Junior researcher** (French “*Chargé de Recherche*”) at CNRS (National Center of Scientific Research)

Paris-Saclay University / Institut Lavoisier de Versailles / France

Area of interests: Inorganic synthesis (polyoxometalates, clusters), Physical Chemistry of solutions, Supramolecular chemistry, Storage & Conversion of energy

• PREVIOUS POSITIONS

2016 – 2017 **Teaching Assistant** (French “*Attaché Temporaire d'Enseignement et de Recherche*”) **working in the group of Dr. Stéphane Cordier** (University of Rennes, France)

Project: Host-guest chemistry involving luminescent molybdenum halide clusters

2015 – 2016 **Post-doctoral Fellow in the group of Prof. May Nyman** (Oregon State University, USA)

Project: Deciphering the formation pathway of uranyl peroxo-clusters using X-ray scattering

• EDUCATIONAL BACKGROUND

2025 **Habilitation (HDR)**

Paris-Saclay University / Institut Lavoisier de Versailles / France

Title: “Contributions to the physical-chemistry of inorganic polyanions in water: chaotic effect, clustering process, and other...”

2014 **PhD**

University of Lille / Unité de catalyse et Chimie du solide / France

Title: “Coordination polymers: trapping radionuclides with porous MOFs and crystal-chemistry of tetravalent actinide carboxylates” (Supervision: Dr. Thierry Loiseau)

• MOST SIGNIFICANT INSTITUTIONAL RESPONSIBILITIES

Since 2024 **Co-chair of the International Research Network “Smart Molecular Oxides”.**

Main tasks: Maintain a cohesive core in European knowledge and expertise, with high standards and scientific rigor. Foster the careers of a talented younger generation. Sustain the trend in POM chemistry toward more application domains by developing the interfaces between POM chemistry and other disciplines.

2021-2025 **Elected member of the National Committee of Scientific Research**, Section “Coordination chemistry, catalysis and processes, interfaces”.

Main tasks: Evaluation and promotion of CNRS researchers (around 250 researchers, every researcher is evaluated every 2.5 years); participation of annual contests of CNRS for junior researchers (one week of interviews to select five “*Chargés de Recherche*”) and senior researchers (one week of interviews to select six “*Directeurs de Recherche*”).

• MOST SIGNIFICANT REVIEWING ACTIVITIES

2023-2025 **Panel member of the French National Research Agency (Molecular Chemistry)**

Main tasks: Reading and evaluating proposals. Consideration of external reviews. Plenary meetings and collective discussion to rank projects. Each panel member is assigned a portfolio of about 10-20 project proposals.

Since 2022 Participation on the jury during PhD defenses (3)

Since 2020 Evaluator for Agencies of Research (3 projects for the French National Research

Agency, 2 projects for the Austrian Science Fund and 1 project for National Science Centre Poland)

Since 2019 Reviewing of manuscripts (around 20/year) for peer-reviewed journals covering different fields of chemistry. In 2020, I was recognized as an outstanding reviewer for *Inorg. Chem* (*Inorg. Chem.* 2020, 59, 19, 13803).

• SCIENTIFIC PRODUCTION

66 publications in peer-reviewed journals / 1 book chapter / 2 patents

Total citations: >2500 / h-factor: 27

35% as corresponding author, since I am working as a CNRS researcher.

Of the 40 articles I have published since becoming a CNRS researcher, 9 appeared in journals with an impact factor above 10 (5 in *J. Am. Chem. Soc.*, 2 in *Angew. Chem. Int. Ed.*, 1 in *ACS Catal.*, and 1 in *Mater. Horiz.*). I am first author and/or corresponding author on all of these, except for one.

> **30 oral communications**, including 3 Plenary Lecture (1 International & 2 National), 6 Invited Communications (6 International & 1 National), and 3 seminars.

• RESEARCH GRANTS AS PRINCIPAL INVESTIGATOR

- 2025** Small equipment funded by DIM MaterRE
Unlocking molecular/materials insights at the electrochemical interface through Raman spectro-electrochemistry
- 2025** Leader of a PhD project funded MITI-CNRS
Energy conversion and super-reduced polyoxometalates
- 2024** Co-leader of a PhD project funded HTASE-IDF program (*Hydrogène et Technologies Avancées Systèmes Énergétiques pour une énergie durable en Île de France*)
Abundant and inexpensive electrocatalysts for proton exchange membrane water electrolysis
- 2024** Small equipment funded by DIM MaterRE
A glovebox system for investigating the massive electron storage in polyoxometalate-based anolytes
- 2023** Leader of ANR-JCJC project dedicated to young researchers
Super-reduced polyoxometalates: structural elucidation, solution behavior, and coordination properties
- 2023** Leader of research program funded by the CNRS, EMERGENCE@INC
Unraveling the secrets of the super-reduction of polyoxometalates to make the most of them in redox-flow batteries
- 2022** Co-leader of a project funded by the Labex CHARMMMAT
Responsive supramolecular polymeric materials via cyclodextrin-polyoxometalate interactions
- 2019** Small equipment funded by Paris-Saclay University
Rotating disk electrode for characterization of innovative catalysts built from polyoxometalates
- 2019** Co-leader of a project funded by the Labex CHARMMMAT
Investigation of physical-chemical properties of supramolecular tandems constructed from the association of polyoxometalates and metal cluster complexes
- 2019** Leader of research program funded by the CNRS, MOMENTUM
Hierarchical supramolecular assemblies of inorganic polynuclear modules

• AWARDS

- 2024** Christiane Dietrich-Buchecker Prize (award for young researchers working on supramolecular chemistry; Prize awarded by the *Société Chimique de France*)

• LIST OF PUBLICATIONS

2026

P-66 / M. El Khoueiry, N. Leclerc, H. Maslouh, M. Bechelany, E. Cadot, C. Falaise*, L Assaud*; [Polymerized tungstate-molybdenum sulfide electrocatalysts for the hydrogen evolution reaction under acidic conditions](#); **J. Mater. Chem. A**, (2026), *in press*

2025

P-65 / K. Kozma, G. Mpacko Priso, J. Puiggali-Jou, M. Haouas, N. Leclerc, A. Solé-Daura, E. Cadot, J. J Carbó,* V. Briois, C. Falaise*; [Super-reduction of polyoxometalates: unlocking the oxidation state of metalate centers down to \(III\)](#); **J. Am. Chem. Soc.** (2025), 147, 46, 42926–42937

P-64 / S. Aniba, N. Leclerc, C. Falaise, S. Akriche, E. Cadot, M. Haouas*; [Immobilization of Keggin-type polyoxometalates in cyclodextrin-based polymers for oxidation catalysis](#); **Dalton Trans.** (2025), 54, 12534-12549

P-63 / I. F. Bamba, C. Falaise, N. Leclerc, M. Haouas, G. K. Gbassi, P. Atheba, M. Frénaux, J. Buils, M. Segado-Centellas, C. Bo, E. Cadot*; [Capping the electronic lone pair of the As\(III\) central atom in the Keggin-type anion. From experimental - theoretical interplay to evidence](#); **Inorg. Chem.** (2025), 64, 20, 10043–10055

P-62 / J. Marrot*, C. Falaise, N. Leclerc, M. Haouas, S. Floquet, F. Sécheresse, E. Cadot*; [Cucurbituril-like Giant PolyoxoThiometalates. Structural analysis and Solution Studies](#); **Inorg. Chem.** (2025) 64 (8), 4017-4024

P-61 / C. Falaise*; [Super-reduced polyoxometalates in aqueous solution: historical perspectives and current challenges](#); **Eur. J. Inorg. Chem.** (2025) 28 (12), e202400827

2024

P-60 / M. Lion, J. Marrot, W. Shepard, N. Leclerc, M. Haouas, E. Cadot, C. Falaise*; [Cyclic Oxothiomolybdates: Building Blocks for Cyclodextrin-based Open Framework](#); **ChemPlusChem** (2024), 90 (1), e202400475

P-59 / M. Segado-Centellas,* C. Falaise,* N. Leclerc, G. Mpacko Priso, M. Haouas, E. Cadot, C. Bo [Nanoconfinement of polyoxometalates in cyclodextrin: computational inspections of the binding affinity and experimental demonstrations of reactivity modulation](#); **Chem. Sci.** (2024), 15 (38), 15849-15857

P-58 / C. Falaise, S. Khlifi, P. Bauduin, P. Schmid, J. Degrouard, A. Leforestier, W. Shepard, J. Marrot, M. Haouas, D. Landy, C. Mellot-Draznieks, E. Cadot*; [Cooperative self-assembly process involving giant toroidal polyoxometalate as membrane building block in nanoscale vesicles](#); **J. Am. Chem. Soc.** (2024), 146, 1501-1511

P-57 / S. Khlifi,* S. Yao, C. Falaise, P. Bauduin, V. Guérineau, N. Leclerc, M. Haouas, H. Salmi, P. Roger, E. Cadot*; [Switchable redox and thermo-responsive supramolecular polymers based on cyclodextrin-polyoxometalate tandem](#); **Chem. Eur. J.** (2024), e202303

2023

P-56 / G. Mpacko Priso, M, Haouas, N. Leclerc, C. Falaise*, and E. Cadot; [Clustering six electrons within “Dawson-like” Polyoxometalate: an open route toward its post-functionalization](#); **Angew. Chem. Int. Ed.** (2023), e202312457 (Very Important Paper)

P-55 / M Haouas,* C. Falaise, N. Leclerc, S. Floquet and E. Cadot; [NMR spectroscopy to study cyclodextrin-based host-guest assemblies with polynuclear clusters](#); **Dalton Trans.** (2023), 52, 13467-13481

P-54 / A. Fatima, Y. Smortsova, C. Falaise,* N. Leclerc, M Haouas, E. Cadot, S. Cordier, T. Pino, C. Dablemont, R. Méallet-Renault,* K. Steenkeste,* and M.-H. Ha-Thi*; [Photo-induced electron transfer between a noble-metal-free \[Mo₆I₈Cl₆\]²⁻ cluster-based complex and polyoxometalates](#); **Chem. Commun.** (2023), 59, 10988-10991

P-53 / D. Cebotari, S. Calancea, J. Marrot, R. Guillot, C. Falaise, V. Guérineau, D. Touboul, M. Haouas, A. Gulea,* and S. Floquet*; [Tuning the nuclearity of \[Mo₂O₂S₂\]²⁺-based assemblies by playing with the degree of flexibility of bis-thiosemicarbazones ligands](#); **Dalton Trans.** (2023), 52, 3059-3071

P-52 / A. Ivanov, P. Abramov *, M. Haouas, Y. Molard, S. Cordier, C. Falaise, E. Cadot and M. Shestopalov; [Supramolecular host-guest assemblies of \[M₆Cl₄\]²⁻, M = Mo, W, clusters with \$\gamma\$ -cyclodextrin for the development of CLUSPOMs](#); **Inorganics** (2023), 11, 77

P-51 / C. Falaise*, G. Mpacko Priso, N. Leclerc, M, Haouas and E. Cadot; [Making heterometallic metal-metal Bonds in Keggin-type polyoxometalates by six-electron reduction process](#); **Inorg. Chem.** (2023), 62, 6, 2494-

2502 (Featured article)

P-50 / K. Grzhegorzhevskii,* M. Haouas, M. Lion, A. Vashurin, A. Denikaev, Y. Marfin, G. Kim, C. Falaise and E. Cadot*; [Gigantic supramolecular assemblies built from dynamic hierarchical organization between inorganic nanospheres and porphyrins](#); **Chem. Commun.** (2023), 59, 86-89

2022

P-49 / B. Fabre*, C. Falaise* and E. Cadot; [Polyoxometalates-functionalized electrodes for \(photo\)electrocatalytic applications: recent advances and prospects](#); **ACS Catal.** (2022), 12, 19, 12055–12091

P-48 / A. Ivanov*, M. Haouas*, D. Evtushok, T. Pozmogova, T. Golubeva, Y. Molard, S. Cordier, C. Falaise, E. Cadot and M. Shestopalov*; [Stabilization of octahedral metal halide clusters by host-guest complexation with \$\gamma\$ -cyclodextrin: toward non-toxic luminescent compound](#); **Inorg. Chem.** (2022), 61, 36, 14462–14469

P-47 / I. F. Bamba, C. Falaise*, J. Marrot, G. K. Gbassi, P. Atheba, R. Guillot, M. Haouas and E. Cadot*; [Revisiting the three-vanadium sandwich type polyoxometalates: structures, solution behavior and redox properties](#); **Inorg. Chem.** (2022), 61, 8309-8319

P-46 / S. Yao, C. Falaise, N. Leclerc, C. Roch-Marchal, M. Haouas* and E. Cadot; [Improvement of the hydrolytic stability of the Keggin molybdo- and tungsto-phosphate anions by cyclodextrins](#); **Inorg. Chem.** (2022), 61, 4193-4203

P-45 / S. Khelifi, J. Marrot, M. Haouas, W. Shepard, C. Falaise* and E. Cadot; [Chaotropic effect as assembly motif to construct supramolecular cyclodextrin-polyoxometalate based frameworks](#); **J. Am. Chem. Soc.** (2022), 144, 4469-4477

2021

P-44 / Y. Smortsova, C. Falaise, A. Fatima, M. Ha-Thi*, R. Méallet-Renault, K. Steenkeste, S. Al-Bacha, T. Chaib, L. Assaud, M. Lepeltier, N. Leclerc, M. Haouas, T. Pino and E. Cadot*. [Time-resolved spectroscopy and high-efficiency light-driven hydrogen evolution of a {Mo₃S₄}–containing polyoxometalate-based system](#); **Chem. Eur. J.** (2021), 27, 17094-17103

P-43 / I. F. Bamba, C. Falaise*, J. Marrot, P. Atheba, G. Gbassi, D. Landy, W. Shepard, M. Haouas and E. Cadot*. [Host-guest complexation between cyclodextrins and hybrid hexavanadates: what are the driving forces?](#); **Chem. Eur. J.** (2021), 24, 13467-13478

P-42 / N. Leclerc*, M. Haouas*, C. Falaise, S. Al Bacha, L. Assaud and E. Cadot; [Supramolecular association between \$\gamma\$ -cyclodextrin and Preyssler-Type polyoxotungstate](#); **Molecules** (2021) 26, 5126

P-41 / C. Falaise*, S. Khelifi; P. Bauduin; P. Schmid; W. Shepard; A. A. Ivanov; M. N. Sokolov; M. A. Shestopalov, P. A. Abramov; S. Cordier; J. Marrot, M. Haouas and E. Cadot*; [“Host in host” supramolecular core-shell type systems based on giant ring-shaped polyoxometalates](#); **Angew. Chem. Int. Ed.** (2021) 60 (25), 14146-14153

P-40 / S. Yao, C. Falaise, S. Khelifi, N. Leclerc, M. Haouas*, D. Landy and E. Cadot*; [Redox-responsive host-guest association between \$\gamma\$ -cyclodextrin and mixed-metal Keggin-type polyoxometalates](#); **Inorg. Chem.** (2021) 60 (10), 7433-7444

P-39 / S. Yao, C. Falaise, A. A. Ivanov, N. Leclerc, M. Hohenschutz, M. Haouas*, D. Landy, M. Shestopalov, P. Bauduin and E. Cadot*; [Hofmeister effect in the Keggin-type polyoxotungstate series](#); **Inorg. Chem. Front.** (2021), 8 (1), 12-25

2020

P-38 / I. Fa Bamba, C. Falaise, G.K. Gbassi, P. Atheba, M. Haouas and E. Cadot*; [N-tert-butoxycarbonyl \(BOC\) protected \[V₆O₁₃{\(OCH₂\)₃CNH₂}₂\]²⁻: synthesis, structural characterization, and solution behavior](#); **J. Coord. Chem.** (2020) 73 (17-19), 2567-2578

P-37 / I. Colliard, C. Falaise and M. Nyman*; [Bridging the transuranics with uranium \(IV\) sulfate aqueous species and solid phases](#); **Inorg. Chem.** (2020) 59 (23), 17049-17057

P-36 / A.A. Ivanov, C. Falaise*, A. A. Shmakova, N. Leclerc, S. Cordier, Y. Molard, Y. V. Mironov, M. A. Shestopalov, P. A. Abramov, M. N. Sokolov, M. Haouas and E. Cadot; [Cyclodextrin-assisted hierarchical aggregation of Dawson-type polyoxometalate in the presence of {Re₆Se₈} based clusters](#); **Inorg. Chem.** (2020)

59 (16), 11396-11406

P-35 / C. Falaise*, A. A. Ivanov, Y. Molard, M. Amela Cortes, M. A. Shestopalov, M. Haouas, E. Cadot and S. Cordier*, [From supramolecular to solid-state chemistry: crystal engineering of luminescent materials by trapping molecular clusters in an aluminum-based host matrix](#); **Mater. Horiz.** (2020), 7, 2399-2406

P-34 / A. A. Ivanov*, T. N. Pozmogova, A. O. Solovieva, T. S. Frolova, O. I. Sinitsyna, O. V. Lundovskaya, A. R. Tsygankova, M. Haouas, D. Landy, E. Benassi, L. V. Shestopalova, C. Falaise, E. Cadot, M. A. Shestopalov, P. A. Abramov* and M. N. Sokolov, [From specific \$\gamma\$ -CD/\[Nb₆Cl₁₂\(H₂O\)₆\]²⁺ recognition to biological activity tuning](#); **Chem. Eur. J.** (2020), 26, 7479-7485

2019

P-33 / A. A. Ivanov, C. Falaise*, K. Laouer, F. Hache, P. Changenet, Y. V. Mironov, D. Landy, Y. Molard, S. Cordier, M. A. Shestopalov, M. Haouas, and E. Cadot; [Size-exclusion mechanism driving host-guest interactions between octahedral rhenium clusters and cyclodextrins](#); **Inorg. Chem.** (2019), 58, 13184-13194

P-32 / A. A. Ivanov, C. Falaise, D. Landy, M. Haouas*, Y. V. Mironov, M. A. Shestopalov and E. Cadot*; [Tuning the chaotropic effect as an assembly motif through one-electron transfer in a rhenium cluster](#); **Chem. Commun.** (2019), 55 (67), 9951-9954

P-31 / M. Diab, S. Floquet*, M. Haouas, P. A. Abramov, X. López, D. Landy, A. Damond, C. Falaise, V. Guérineau, D. Touboul, D. Naoufal, and E. Cadot; [Encapsulation of chaotropic closo-decahydrodecaborate clusters within cyclodextrins: synthesis, solution studies, and DFT calculations](#); **Eur. J. Inorg. Chem.** (2019), 3373-3382

P-30 / J. Tourneur, B. Fabre*, G. Loget, A. Vacher, C. Mériadec, S. Ababou-Girard, F. Gouttefangeas, L. Joanny, E. Cadot*, M. Haouas, N. Leclerc-Laronze, C. Falaise and E. Guillon; [Molecular and material engineering of photocathodes derivatized with polyoxometalate supported-{Mo₃S₄} HER catalysts](#); **J. Am. Chem. Soc.** (2019) 141, 11954-11962

2018

P-29 / M. Haouas*, C. Falaise, C. Martineau-Corcus and E. Cadot; [Cyclodextrin-driven formation of double six-ring \(D₆R\) silicate cage: NMR spectroscopic characterization from solution to crystals](#); **Crystals** (2018), 8, 457

P-28 / C. Falaise*, M. A. Moussawi, S. Floquet, P. A. Abramov, M. N. Sokolov, M. Haouas* and E. Cadot; [Probing dynamic library of metal-oxo building blocks with \$\gamma\$ -cyclodextrin](#); **J. Am. Chem. Soc.** (2018) 140, 11198–11201

P-27 / C. Falaise, K. Kozma, and M. Nyman*; [Thorium oxo-clusters as building blocks for open frameworks](#); **Chem. Eur. J.** (2018), 24, 14226-14232 (Hot Paper)

P-26 / A. A. Ivanov, C. Falaise, P. A. Abramov*, M. A. Shestopalov, K. Kirakci, K. Lang, M. A. Moussawi, M. N. Sokolov, N. G. Naumov, S. Floquet, D. Landy, M. Haouas*, K. A. Brylev, Y. V. Mironov, Y. Molard, S. Cordier and E. Cadot*; [Host-guest binding hierarchy within redox- and luminescence responsive supramolecular self-assembly based on chalcogenide clusters and \$\gamma\$ -cyclodextrin](#); **Chem. Eur. J.** (2018), 13378-13378 (Very Important Paper)

2017

P-25 / P. Molina, K. Kozma, M. Santala, C. Falaise, and M. Nyman*; [Aqueous bismuth titanium-oxo sulfate cluster speciation and crystallization](#); **Angew. Chem. Int. Ed.** (2017) 56, 16277-16281

P-24 / C. Falaise, H. Neal and M. Nyman*; [U\(IV\) aqueous speciation from the monomer to UO₂ nanoparticles: two levels of control from zwitterionic glycine ligands](#); **Inorg. Chem.** (2017), 56, 6591–6598

P-23 / C. Falaise, S. M. Hickam, P. C. Burns, M. Nyman*; [From aqueous speciation to supramolecular assembly in alkaline earth-uranyl polyoxometalates](#); **Chem. Commun.** (2017), 53, 9550-9553

P-22 / C. Falaise, C. Volkringer*, R. Giovine, B. Prelot, M. Huvé, and T. Loiseau; [Capture of actinides \(Th⁴⁺, \[UO₂\]²⁺\) and surrogating lanthanide \(Nd³⁺\) in porous metal-organic framework MIL-100 \(Al\) from water: selectivity and imaging of embedded nanoparticles](#); **Dalton Trans.** (2017), 46, 12010-12014

2016

P-21 / O. Sadeghi, C. Falaise, P. Molina, R. Hufschmid, C. Campana, B. Noll, N. Browning and M. Nyman*; [Chemical stabilization and electrochemical destabilization of the iron Keggin ion in water](#); **Inorg. Chem.** (2016), 55, 11078-11088

P-20 / A. Munn, F. Millange, M. Frigoli, N. Guillou, C. Falaise, V. Stevenson, C. Volkringer, T. Loiseau, G. Cibin and R. Walton*; [Iodine sequestration by thiol-modified MIL-53\(Al\)](#); **CrystEngComm** (2016), 18, 8108-8114

P-19 / C. Falaise, J. Delille, C. Volkringer*, H. Vezin, P. Rabu and T. Loiseau; [Series of hydrated heterometallic uranyl-cobalt\(II\) coordination polymers with aromatic polycarboxylates ligands: formation of U=O-Co bonding upon dehydration process](#); **Inorg. Chem.** (2016), 55, 10453-10466

P-18 / C. Volkringer*, C. Falaise; P. Devaux; R. Giovine; F. Pourpoint; O. Lafon; M. Osmond, C. Jeanjacques, B. Marcillaud; J-C. Sabroux and T. Loiseau; [Stability of metal-organic frameworks under gamma irradiation](#); **Chem. Commun.** (2016), 52, 12502-12505

P-17 / O. Renier, C. Falaise, H. Neal, K. Kozma, and M. Nyman*; [Closing uranyl polyoxometalate capsules with bismuth and lead polyoxocations](#); **Angew. Chem. Int. Ed.** (2016), 55, 13480-13484

P-16 / N. Martin, C. Falaise, C. Volkringer, N. Henry, P. Farger, C. Falk, E. Delahaye, P. Rabu, and T. Loiseau*; [Hydrothermal crystallization of four uranyl coordination polymers involving an imidazolium dicarboxylate ligand: effect of pH on the nuclearity of uranyl-centered sub-units](#); **Inorg. Chem.** (2016), 55, 8697-8705

P-15 / C. Falaise and M. Nyman*; [The key role of U₂₈ in aqueous self-assembly of uranyl peroxide nanocages](#); **Chem. Eur. J.** (2016), 22, 22, 14678-14687

P-14 / N. Martin; C. Volkringer*; C. Falaise; N. Henry and T. Loiseau; [Synthesis and crystal structure characterization of thorium trimesate coordination polymer](#); **Cryst. Growth Des.** (2016), 16, 1667-1678

P-13 / T. Deb, L. Zakharov, C. Falaise, and M. Nyman*; [Structure and solution speciation of U^{IV}-linked phosphomolybdate \(Mo^V\) clusters](#); **Inorg. Chem.** (2016), 55, 755-761

2015

P-12 / C. Falaise, C. Volkringer, C. Hennig, and T. Loiseau*; [Ex-situ kinetic investigations of the formation of the poly-oxo cluster U₃₈](#); **Chem. Eur. J.** (2015), 21, 16654-16664

P-11 / S. Duval*, S. Béghin, C. Falaise, X. Trivelli; P. Rabu and T. Loiseau; [Stabilization of tetravalent 4f \(Ce\), 5d \(Hf\) or 5f \(Th, U\) cluster by the \[α-SiW₉O₃₄\]¹⁰⁻ polyoxometalate](#); **Inorg. Chem.** (2015), 54, 8271-8280

P-10 / C. Falaise, J. Delille, C. Volkringer* and T. Loiseau; [Solvothetical synthesis of tetravalent uranium with isophthalate or pyromellitate ligands](#); **Eur. J. Inorg. Chem.** (2015), 2813-2821

P-9 / C. Falaise, J. S. Charles, C. Volkringer* and T. Loiseau; [Thorium terephthalates coordination polymers synthesized in solvothetical DMF/H₂O system](#); **Inorg. Chem.** (2015), 54, 2235-2242

P-8 / C. Falaise, A. Assen, I. Mihalcea, C. Volkringer*, A. Mesbah, N. Dacheux and T. Loiseau; [Coordination polymers of uranium \(IV\) terephthalates](#); **Dalton Trans.** (2015), 44, 2639-2649

2014

P-7 / I. Mihalcea, C. Falaise, C. Volkringer, N. Henry and T. Loiseau*; [Room temperature crystallization of trichlorodioxouranate \[UO₂Cl₃\(L\)\] species in molecular assemblies involving aliphatic dicarboxylate linkers](#); **Inorg. Chem. Commun.** (2014), 44, 63-66

P-6 / C. Falaise, C. Volkringer and T. Loiseau*; [Isolation of thorium benzoate polytypes with discrete ThO₈ square antiprismatic units involved in chain-like assemblies](#); **Inorg. Chem. Commun.** (2014), 39, 26-30

2013

P-5 / C. Falaise, C. Volkringer, J.-F. Vigier, A. Beaurain, P. Roussel, P. Rabu, and T. Loiseau*; [Isolation of the large {actinide}₃₈ poly-oxo cluster with uranium](#); **J. Am. Chem. Soc.** (2013), 135, 15678-15681

P-4 / C. Falaise, C. Volkringer*, J. Facqueur, T. Bousquet, L. Gasnot and T. Loiseau; [Capture of iodine in highly stable Metal-Organic Frameworks: a systematic study](#); **Chem. Commun.** (2013), 49, 10320-10322

P-3 / C. Falaise, C. Volkringer* and T. Loiseau; [Mixed formate-dicarboxylate coordination polymers with](#)

[tetravalent uranium: occurrence of tetranuclear \$\{U_4O_4\}\$ and hexanuclear \$\{U_6O_4\(OH\)_4\}\$ motifs](#); **Cryst. Growth Des.** (2013), 13, 3225–3231

P-2 / C. Falaise, C. Volkringer, J.-F. Vigier, N. Henry, A. Beaurain and T. Loiseau*; [Three-dimensional MOF-type architectures with tetravalent uranium hexanuclear motifs \(\$U_6O_8\$ \)](#); **Chem. Eur. J.** (2013), 19, 5324–5331

P-1 / J. Olchowka, C. Falaise, C. Volkringer, N. Henry and T. Loiseau*; [Structural observations of heterometallic uranyl copper\(II\) carboxylates and their solid-state topotactic transformation upon dehydration](#); **Chem. Eur. J.** (2013), 19, 2012–2022