



Curriculum Vitae of Anne-Marie CAMINADE

- Director of Research Exceptional Class, CNRS (DRCE2)¹
- Deputy Director of the LCC (DUA, Laboratoire de Chimie de Coordination)
- Head of the “Dendrimers and Heterochemistry” group (4 DR2 CNRS, 1 CR1 CNRS, 1 MCF Univ. Toulouse, 2 TCN CNRS, 1 DRCE Emeritus, and 10 to 15 non-permanent researchers)
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- e-mail: anne-marie.caminade@lcc-toulouse.fr
- web site: <https://www.lcc-toulouse.fr/article375.html>
- Research ID: E-2819-2015; ORCID identifier: 0000-0001-8487-3578

Education and career

- 1st PhD thesis (Toulouse, 1984) and 1st Post-Doc. at the IFP (1984, Rueil-Malmaison Paris, France)
- 2nd PhD thesis (Toulouse, 1988) and 2nd Post-Doc (1988-1989, University of Saarbrücken, Germany)
- Associated Researcher CNRS (CR2) in 1985, then CR1 in 1989, Director of Research CNRS (DR2) in 1997, DR1 in 2004, Director of Research Exceptional Class (DRCE1) in 2014 and DRCE2 in 2017 (LCC CNRS UPR 8241, Toulouse)
- Head of the “Dendrimers and Heterochemistry group” in Toulouse, (2006-)
- Deputy Director of the LCC CNRS UPR 8241 in Toulouse (2021-)

Scientific production

- Author and co-author of 496 publications in journals (source Web of Sciences)
- Editor of two books and co-author of 53 book chapters
- Co-inventor of 18 priority patents + 16 World extensions (WO)
- 178 invited conferences (118 in congresses, and 60 in academic or industrial laboratories)
- H-factor = 75 (75 publications cited at least 75 times, 17,367 citations) Web of Sciences (January 25th, 2022)

Awards, rewards, distinctions

- ❖ Alexander von Humboldt Fellowship, 1988-1989
- ❖ Bronze medal of the CNRS, 1989
- ❖ Organic Chemistry award of the French Chemical Society (SCF), 2006; Member of the SCF since 1985
- ❖ Åsgard reward (Conference tour in Norway) 2007
- ❖ CNRS scientific excellence premium (2009-2012, 2013-2016)
- ❖ Chevalier de la Légion d'Honneur (2021)
- ❖ Achille Le Bel Prize (Grand Prize of the Chemical Society of France) (2021)

Scientific interests

All the fields of *phosphorus* chemistry, with emphasis on:

- low coordinences of phosphorus (1982-1988),
- interactions between metallic hydrides and phosphorus derivatives (1986-1991),
- phosphorus macrocycles, cryptants and multimacrocycles (1988-1997)

Everything related to *dendrimers* (hyperbranched and perfectly defined nanometric molecules) (1993-) and to the chemical approach of *nanosciences*, in particular:

- Synthesis and physico-chemical studies of dendrimers (example: fluorescence, self-assembling, etc.),
- Homogeneous catalysis (recycling dendrimer, “green chemistry”, “dendritic effect”), coordination chemistry, asymmetric catalysis, catalysis in water, organocatalysis, etc.
- Materials, nanometric modifications on the surface of materials (electrodes, nanolatexes, metallic surfaces, silica, alumina), elaboration of ultra-sensitive DNA Chips, chemical sensors; materials incorporating dendrimers (hydrogels, fibers, organic-inorganic materials, etc.), nano-objects made of dendrimer (nanotubes, microcapsules)
- Biologie/nanomedicine (dendrimers as anti-prion, anti-HIV, anti-cancer, antibacterial and anti-inflammatory agents, for immunology, medical imaging and genetic transfection, against Uveitis, Multiple Sclerosis, psoriasis, Rheumatoid Arthritis, tuberculosis, etc.)

¹ There are six levels for researchers at the CNRS (CR2, CR1, DR2, DR1, DRCE1 and DRCE2); DRCE2 is the highest level. The CNRS comprises 11,174 Researchers (in all scientific disciplines). Among them, only 128 are DRCE2, and among them only 19 (including me) are women (14.8%). See p 33 at [CNRS-BSP_2019-VF.pdf](#) (Bilan social 2019). The chance for a man to become DRCE2 is 1.49% (109/7336); the chance for a woman to become DRCE2 is 0.49% (19/3838), i.e. three times less.

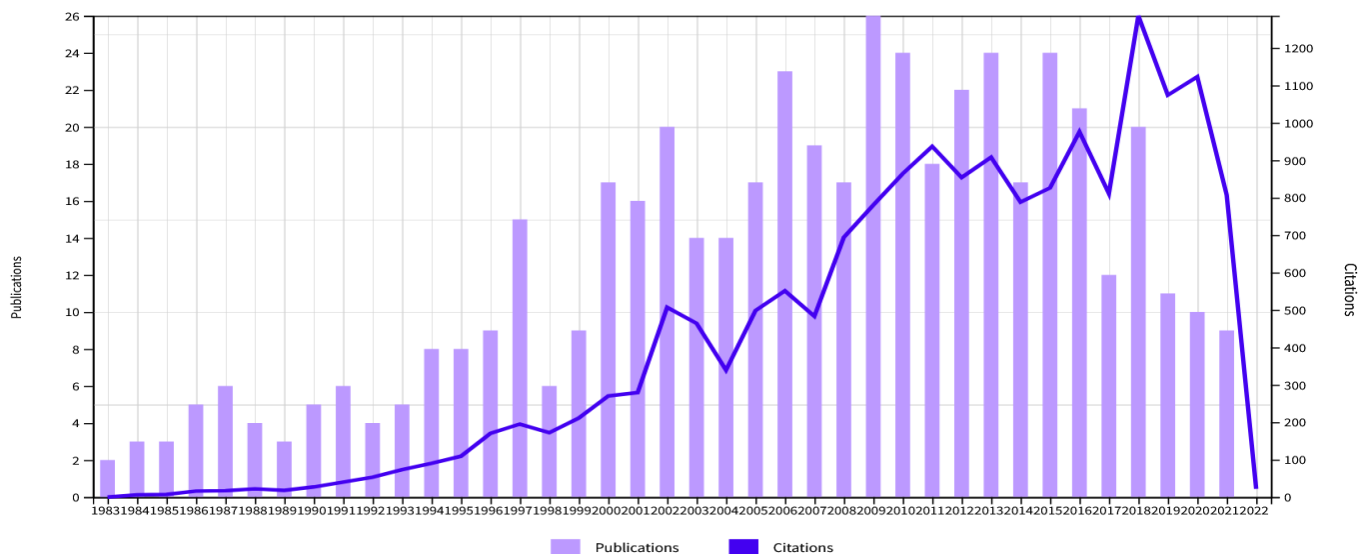
Advisor or co-advisor of Post-Docs and Students

50 Post-Docs, 39 PhD students, 44 Masters, 78 trainees.

Bibliometric Data

Times Cited and Publications Over Time

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Publications per year (scale: 0-26) and Citations per year (scale: 0 – 1250)

Web of Knowledge, January 25th, 2022, **496 publications, 17,367 citations, h index = 75**

Chair of International Conferences

- IDS:5 (5th International Dendrimer Symposium), Toulouse, 28 August – 1st September 2007, *Chair* with J.P. Majoral, (ca 340 attendees)
- CIAM Workshop (Catalysis in Aqueous Media), Toulouse, 29 November – 1st December 2007, *Chair* with R. Poli (ca 110 participants).
- SUDOE CliNK (NK Cells for clinical uses), Toulouse, 18-19 June 2012, *Chair* (ca 25 attendees)
- ICONAN 2016 (nanobiotechnologies), Paris, 28-30 September 2016, *Chair* (ca 260 attendees)
- PBSi 2017 (Phosphorus, Boron, Silicon), Paris, 3-5 July 2017, *Chair* (ca 150 attendees)
- PEMED 2018 (Personalized and Precision Medicine), Paris, 11-13 April 2018, *Chair* (ca 150 attendees)
- PEMED 2020 (Personalized and Precision Medicine), Munich, Germany, 19-21 February 2020, *Chair* with A. Daly and M. Schwab (ca 120 attendees)

Editorial activities

- ❖ Advisory Editor of *Chemical Society Reviews* (2010 -) (IF₂₀₂₀ = 54.564)
- ❖ Advisory Editor of *Inorganic Chemistry Communications* (2013 -)
- ❖ Member of the Editorial staff of *Molecules* (MDPI) (2019 -)
- Guest Editor of a special issue of *Inorganica Chimica Acta* “Metallo-dendrimers”, 2014
- Guest Editor of a special issue of *Chemical Society Reviews* “Dendrimers and hyperbranched polymers”, 2015
- Guest Editor of a special issue of *Coordination Chemistry Reviews* at the occasion of the “40th Anniversary of the Laboratoire de Chimie de Coordination”, 2016.
- Guest Editor of a special issue of *Chemical Society Reviews* “Smart Inorganic Polymers”, 2016
- Guest Editor of a special issue of *Molecules*, “Dendrimers in medicine”, 2021, 80th birthday of J.P. Majoral
- Guest Editor of a special issue of *Molecules*, “Recent Advances in Metallo-Drugs” to be published in 2022
- Guest Editor of a special issue of the *Journal of Personalized Medicine*, “Personalized and Precision Medicine”, to be published in 2022

Other responsibilities

- Member of committees about Nanosciences: ACI Nanosciences and Nanotechnologies (1999-2004); ANR P-Nano program Nanosciences and Nanotechnologies (2005-2010); ANR CES09 Nanomaterials (2018)
- Member of committees of evaluation of the French Agency for the Evaluation of Research (AERES, then HCERES)
- Member of the Scientific Council of the Doctoral School SDM of the University of Toulouse since 2010
- Frequently president or member of juries (PhD thesis, Habilitations) in France, but also Spain, Italy, Taiwan.
- President or member of juries for the recruitment of « Maitres de Conférence » (Associated professors), Professors
- « Referee » of innumerable publications for journals (*J. Am. Chem. Soc.*, *Angew. Chem.*, *ACS Nano*, *Chem. Rev.*, *Chem. Soc. Rev.*, *Coord. Chem. Rev.*, *Chem. Eur. J.*, *Organometallics*, *New J. Chem.*, *Eur. J. Med. Chem.* etc...)
- « Referee » of numerous projects, including for foreign countries (USA (NSF), Switzerland, Israel, etc...)
- Leader of the WG 2 (synthesis of Smart Inorganic Polymers) and MC for France (Management Committee Member) of COST CM1302 SIPs (2013-2017)
- Leader of the WG 3 (Bioactive molecules) of the GDR CNRS PHOSPHORE, 2017-2021

Coordination of industrial contracts (and theme)

- Rhône-Poulenc Agro (dendrimers for agrochemistry), 1999-2000
- Rhodia Services (dendrimers for protecting materials) 2002-2003
- IFPEN (materials for catalysis) 2005-2006
- IFPEN (materials for trapping CO₂) 2007-2008
- Agro Innovation International, groupe Roullier, ENCAPS (Encapsulation and release by dendrimers) 2019

Coordination of academic contracts (and theme)

- ACI nanosciences DENDRISO (adaptative materials, 4 French Teams) 2004-2007
- PAI PICASSO n°09690ZM (dendrimers and macrocycles for catalysis, France –Spain) 2005-2006
- ANR PCV 2006 BIODENDRIDOT (dendritic fluorophores for biomedical imaging, 4 French Teams) 2007-2010
- ANR 2009 International DENDSWITCH, with Germany (Catalysis with switchable dendrimers) 2010-2013
- FRM (Fondation pour la Recherche Médicale) (Searching receptors of a dendrimer, 2 French Teams) 2012-2015
- CEFIPRA (French-Indian) (Dendrimers against tuberculosis and bacteria), 2015-2019
- ANR 2017 PRC CE9 SLOW2 (Stereo Laser Writing On Water, 3 French teams) 2017-2022
- PRHC TOUBKAL (France-Morocco) (Graphene oxide functionalized with dendrons) 2019-2022
- PRC 2019 (France-China) (Dendrimers against triple negative breast cancer) 2019-2021
- MSCA IF EUREKA (Multifunctional dendrimers as vectors of therapeutic siRNA) 2020-2022.
- MSCA-ITN-EJD 860322 CCIMC (Coordination Chemistry Inspires Molecular Catalysis, A.M. Caminade Deputy coordinator, R. Poli coordinator) 2020-2024

Partner in academic contracts (and theme)

- EU RTN Marie Curie AQUACHEM (Chemistry and catalysis in water), 2003-2007
- LEA MOMACHEM Toulouse-Lodz (Chemistry), 2003-2009
- INCa (Institut National du Cancer) (Amplification of NK cells), 2006-2009
- EU RTN Marie Curie NANOTOOL (Nano-objects) 2005-2010
- LEA LTPMM Toulouse-Barcelona (Dendrimers and catalysis) 2006-2013
- EU COST CM0802 PhoSciNet (Phosphorus Science Network, vice-leader of a WG) 2008-2012
- LIA LCMMF Morocco-Toulouse (Dendrimers and clays) 2008-2016
- EU COST TD0802 Biodendrimers (Biological applications of dendrimers, MC substitute) 2009-2013
- EU SUDOE Interreg CliNK (New protocols for immunotherapy) 2011-2013
- ANR Emergence 2010 INNO-THE-RA (Dendrimers against Rheumatoid Arthritis), 2010-2013
- ANR Blanc SIMI 7 2011 CLICK-UNCLICK (Innovative systems for the delivery of drugs), 2011-2014
- ANR RPIB 2011 DENDRI'MS (Dendrimers against Multiple Sclerosis), 2011-2015
- EU COST CM1302 SIPs (Smart Inorganic Polymers, MC and WG leader) 2013-2018
- GDR CNRS PHOSPHORE (phosphorus chemistry, WG leader) 2017-2021
- EURONANOMED III NANO4GLIO (dendrimers against glioblastoma) 2020-2022

Selected invitations in International Conferences

- Washington-Gaithersburg (**USA**), IDS7, 26 June - 2 July 2011
- Pune (**India**), 7th IFCOS, 7 - 9 December 2011
- Sao Paulo (**Brazil**), Dendrimer Symposium 1 - 3 October 2012 (*Plenary conference*)
- Rabat (**Morocco**), 3^{ème} colloque Chimie, 15 - 18 October 2012 (*Plenary and introductory conference*)
- Madrid (**Spain**), IDS8, 23 - 27 June 2013 (*Plenary conference*)
- Lugano (**Switzerland**), Biodendrimers 2014, 18 - 20 June 2014 (*Plenary conference*)
- Saarbrücken (**Germany**), International Symposium New Molecules for New Materials, 18 février 2015
- Leipzig (**Germany**), 13th Ferrocene Colloquium, 22 - 24 février 2015 (*Plenary conference*)
- Almeria (**Spain**), Workshop Metal, Water and Sun 2015, 21-22 May 2015 (*Plenary conference*)
- Montreal (**Canada**), IDS9, 12-17 July 2015 (*Plenary conference*)
- Uppsala (**Sweden**) 2nd EUSIPs (European Smart Inorganic Polymers) 24-26 September 2015
- Huatulco (**Mexico**), Polymat-2015, 18 - 22 October 2015 (*Plenary conference*)
- Budapest (**Hungary**) Conference of Outstanding Women Scientists, 27 November 2015
- San Diego Carlsbad, CA, (**USA**), Zing Conference, 12 - 15 February 2016 (*Plenary conference*)
- Kazan (**Russia**), ICPC-21, 5 - 10 June 2016 (*Plenary conference*)
- Copenhagen (**Denmark**) Biodendrimers 2016, 2-5 August 2016 (*Plenary conference*)
- Porto (**Portugal**) 3rd EUSIPs (European Smart Inorganic Polymers) 12-14 September 2016
- Paris (**France**), ICONAN 2016, 28 - 30 September 2016 (*Plenary conference*)
- Kaohsiung (**Taiwan**) Symposium of Dendrimer Chemistry, 11-13 July 2017
- Weihai (**China**), IDS10, 5-9 August 2017 (*Plenary conference*)
- Moscow (**Russia**) Modern trends in dendrimer chemistry, 1-4 October 2017 (*Plenary conference*)
- Urbino (**Italy**) Biodendrimers 2018, 4-7 June 2018 (*Plenary conference*)
- Paris (**France**) PEMED 2018 (Personalized Medicine), 25-27 June 2018 (*Plenary conference*)

- Barcelona (**Spain**) PBSi 2018, 10-12 December 2018 (*Plenary conference*)
- Funchal (**Madeira, Portugal**) IDS11, 14-18 July 2019 (*Plenary conference*)
- Hammamet (**Tunisia**) 3^{èmes} JCC (Journées Chimie de Coordination), 26-29 September 2019 (*Plenary conference*)
- Roma (**Italy**) PBSi 2019, 2-4 December 2019
- Munich (**Germany**) PEMED (Personalized Medicine) 2020, 19-21 February 2020 (*Plenary conference*)

6 major recent publications

- Redox Control of a Dendritic Homogeneous Catalyst. Neumann P., Dib H., Caminade A.M., Hey-Hawkins E., *Angew. Chem. Int. Ed.*, **2015**, 54, 311.
- The key role of the scaffold on the efficiency of dendrimer nanodrugs. Caminade A.M.*, Fruchon S., Turrin C.O., Poupot M., Ouali A., Maraval A., Garzoni M., Maly M., Furer V., Kovalenko V., Majoral J.P., Pavan G.M., Poupot R., *Nature Comm.*, **2015**, 6, 7722.
- Inorganic dendrimers. Recent advances for catalysis, nanomaterials, and nanomedicine. Caminade A.M.*, *Chem. Soc. Rev.*, **2016**, 45, 5174
- Phosphorus dendrimers for nanomedicine. Caminade A.M.* *Chem Comm.* **2017**, 53, 9830 (feature)
- Dendrimers and hyper-branched polymers interacting with clays: fruitful associations for functional materials. Caminade A.M.*, Beraa A., Laurent R., Delavaux-Nicot B., Hajjaji M., *J. Mater Chem. A.* **2019**, 7, 19634
- Dendritic metal complexes for bioimaging. Recent advances. Caminade A.-M.*, Hameau A., Turrin C.O., Laurent R., Majoral J.-P., *Coord. Chem. Rev.* **2021**, 430, 213739

Editor of two books

- *Dendrimers. Towards Catalytic, Material and Biomedical Uses*. Caminade A.M., Turrin C.O., Laurent R., Ouali A., Delavaux-Nicot B, Eds. 21 chapters, 528 pages, John Wiley & Sons, Chichester (UK), September **2011**. ISBN: 978-0-470-74881-7
- *Phosphorous Dendrimers in Biology and Nanomedicine: Syntheses, Characterization, and Properties*. Caminade A.M., Turrin C.O., Majoral J.P. (Eds). 14 chapters. Pan Stanford Publishing 26 April **2018**, ISBN-13: 978-9814774338, ISBN-10: 9814774332

Punctual teaching activities

- Courses on phosphorus chemistry, Master in Macromolecular Chemistry, Toulouse (France) (1998-1999)
- Analyses of publications, Master in Macromolecular Chemistry, Toulouse (France) (2000-2004)
- Courses on dendrimers in biology, DESS pharmacy (trainees level) Angers (France) (2002)
- Courses on dendrimers at INP (High school of Engineers) Toulouse (France) (2003)
- Leipzig (**Germany**), BuildMoNa, 6 – 7 May 2010 (anti-tumor dendrimers, international advanced school)
- Leipzig (**Germany**), Smart nano-objects, 23 – 25 September 2013 (international advanced school)
- ENSIACET Toulouse (France), Dendrimers, synthesis, properties, applications, 7 December 2015
- CCIMC core courses, Toulouse (France) Writing a publication, October 2021

Main ongoing collaborations

* International Collaborations:

- **Belarus**, Dimitri Shcharbin (Minsk),
- **Canada**, René Roy (Montreal)
- **China**, Xiangyang Shi (Shanghai),
- **Germany**, Evamarie Hey-Hawkins (Leipzig), Dietmar Appelhans (Dresden),
- **India**, Kishore K. Srivastava, R.P. Tripathi (Lucknow),
- **Italy**, Maurizio Peruzzini (Florence), Maria-Francesca Ottaviani (Urbino),
- **Mexico**, Ernesto Rivera (Mexico City),
- **Morocco**, Mohamed Hajjaji (Marrakech), Nabil El Brahmi, Said El Khazouli (Fez),
- **Poland**, Maria Zablocka, Barbara Klajnert, Maria Bryszewska (Lodz),
- **Portugal**, Armando Pombeiro, Luisa Martins (Lisbon), Joao Rodrigues (Madeira),
- **Russia**, Valeri Kovalenko (Kazan), Victor Furer (Kazan), Evgeny Apartsin (Novosibirsk),
- **South Korea**, Dong-Ha Kim (Seoul),
- **Spain**, Rosa-Maria Sebastian (Barcelona), Anna Pla-Quintana (Girona), Maria-Angeles Munoz-Fernandez (Madrid), Antonio Romerosa (Almeria),

- **Switzerland**, Giovanni Pavan (Lugano),
- **Ukraina**, Viktoriia Starova (Kyiv)

* National Collaborations:

- **Bordeaux**, Mireille Blanchard Desce, Jean-Baptiste Verlhac,
- **Gif-sur-Yvette**, Thierry Cresteil, Jérôme Bignon,
- **Lille**, Oleg Melnyck,
- **Montpellier**, Armelle Ouali, Marc Taillefer,
- **Paris**, Serge Mignani,
- **Rennes**, Olivier Mongin,
- **Toulouse** :
 - CHU Purpan: François Malecaze
 - INFINITY: Rémy Poupot, Roland Liblau, Séverine Fruchon,
 - IPBS: Jérôme Nigou, Jacques Prandi, Muriel Golzio, Georges Czaplicki,
 - IMRCP: Muriel Blanzat,
 - INSA: Jean Marie François,
 - LAAS: Emmanuelle Trévisiol,
 - LCC: Eric Manoury

List of publications, books, book chapters, conferences and invited seminars of Anne-Marie Caminade (until January 2022)

1. Publications in journals	p 5
2. Books Editor	p 34
3. Book chapters	p 35
4. Patents	p 39
5. Invited conferences in congresses	p 41
6. Invited seminars	p 46

1. Publications in journals

- 495- Curing inflammatory diseases using phosphorous dendrimers
Caminade A.M., Turrin C.O., Poupot R.
WIREs Nanomed. Nanotechnol. Accepted **2022**
- 494- Dendriplex-impregnated hydrogels with programmed release rate
Apartsin E., Venyaminova A., Majoral J.P., Caminade A.M.
Front. Chem., **2022**, 9, 780608. <https://doi.org/10.3389/fchem.2021.780608>
- 493- Supramolecular self-associations of amphiphilic dendrons and their properties
Apartsin E., Caminade A.M.
Chem. Eur. J. **2021**, 27, 17976-17998. <https://doi.org/10.1002/chem.202102589>
- 492- Hybrid Phosphorus-viologen-dendrimers as new soft nanoparticles. Design and properties.
Majoral J.P., Zablocka M., Ciepluch K., Milowska K., Bryszewska M., Shcharbin D., Katir N., El Kadib A., Caminade A.M., Mignani S.
Org. Chem. Front. **2021**, 8, 4607-4622. <https://doi.org/10.1039/D1QO00511A>
- 491- AB₅ derivatives of cyclotriphosphazene for the synthesis of dendrons and their applications
Zibarov A., Oukhrib A., Aujard Catot J., Turrin C.O., Caminade A.M.
Molecules **2021**, 26, 4017. <https://doi.org/10.3390/molecules26134017>
- 490- Safe polycationic dendrimers as potent oral in vivo inhibitors of *Mycobacterium tuberculosis*: A new therapy to take down tuberculosis
Mignani S., Tripathi V.D. Soam D., Tripathi R.P., Das S., Singh S., Gandikota R., Laurent R., Karpus A., Caminade A.M., Steinmetz A., Dasgupta A., Srivastava K.K., Majoral J.P.
Biomacromolecules **2021**, 22, 2659-2675. <https://doi.org/10.1021/acs.biomac.1c00355>
- 489- Dendrimers functionalized with palladium complexes of N-, N,N-, and N,N,N-ligands
Vanbellinghen Q., Servin P., Coinaud A., Mallet-Ladeira S., Laurent R., Caminade A.M.
Molecules **2021**, 26, 2333. <https://doi.org/10.3390/molecules26082333>
- 488- Facile Synthesis of Amphiphilic Fluorescent Phosphorus Dendron-Based Micelles as Antiproliferative Agents: First Investigations
Qiu J., Chen L., Zhan M., Laurent R., Bignon J., Mignani S., Shi X., Caminade A.M., Majoral J.P.
Bioconjugate Chem. **2021**, 32, 339-349
- 487- The usefulness of trivalent phosphorus for the synthesis of dendrimers
Caminade A.M., Moineau-Chane Ching K.I., Delavaux-Nicot B.
Molecules, **2021**, 26, 269. <https://doi.org/10.3390/molecules26020269>
- 486- Dendritic metal complexes for bioimaging. Recent advances
Caminade A.-M., Hameau A., Turrin C.O., Laurent R., Majoral J.-P.
Coord. Chem. Rev. **2021**, 430, 213739. <https://doi.org/10.1016/j.ccr.2020.213739>
- 485- Copper complexes of phosphorus dendrimers and their catalytic properties
Alami O., Laurent R., Majoral J.P., El Brahmi N., El Kazzouli S., Caminade A.M.
Inorg. Chim. Acta, **2020**, 517, 120212
- 484- First class of phosphorus dendritic compounds containing β -cyclodextrin units in the periphery prepared by CuAAC
Sorroza-Martínez K., González-Méndez I., Vonlanthen M., Moineau-Chane-Ching K. I., Caminade A.M., Illescas J., Rivera E.
Molecules, **2020**, 25, 4034. <https://doi.org/10.3390/molecules25184034>

- 483- Straightforward synthesis of gold nanoparticles, by adding water to an especially designed small dendrimer
Gottis S., Laurent R., Collière V., Caminade A.M.
Beilstein J. Nanotechnol. **2020**, *11*, 1110-1118
- 482- Phosphorus dendrimers as nanotools against cancers
Caminade A.-M
Molecules, **2020**, *25*, 3333. <https://doi.org/10.3390/molecules25153333>
- 481- An anti-inflammatory Poly(PhosphorHydrazone) dendrimer capped with AzaBisPhosphonate groups to treat psoriasis
Jebbawi R., Oukhrib A., Clement E., Blanzat M., Turrin C.O., Caminade A.M., Lacoste E., Fruchon S., Poupot R.
Biomolecules, **2020**, *10*, 949. <https://doi.org/10.3390/biom10060949>
- 480- Revisiting Cationic Phosphorus Dendrimers as a Nonviral Vector for Optimized Gene Delivery Towards Cancer Therapy Applications
Chen L., Li J., Yu F., Qiu J., Cao L., Laurent R., Mignani S., Caminade A.M., Majoral J.P., Shi X.
Biomacromolecules **2020**, *21*, 2502-2511
- 479- Potent anticancer efficacy of first-in-class Cu(II) and Au(III) metaled phosphorus dendrons with distinct cell death pathways
Chen L., Fan Y., Qiu J., Laurent R., Li J., Bignon J., Mignani S., Caminade A.M., Shi X., Majoral J.P.
Chem. Eur. J. **2020**, *26*, 5903-5910
- 478- Redox-Switchable Transfer Hydrogenations with P-Chiral Dendritic Ferrocenyl Phosphine Complexes
Popp J., Caminade A.M., Hey-Hawkins E.
Eur J. Inorg. Chem. **2020**, 1654-1669
- 477- β -Cyclodextrin PAMAM dendrimer: how to overcome the tumbling process for getting fully available host cavities
González-Méndez I., Hameau A., Laurent R., Bijani C., Bourdon V., Caminade A.M., Rivera E., Moineau-Chane Ching K.I.
Eur. J. Org. Chem. **2020**, 1114-1121
- 476- Ferrocenyl Phosphorhydrazone Dendrimers Synthesis, and Electrochemical and Catalytic Properties
Turrin C.O., Manoury E., Caminade A.M.
Molecules **2020**, *25*, 447. <https://doi.org/10.3390/molecules25030447>
- 475- Design, complexing and catalytic properties of phosphorus thiazoles and benzothiazoles. A concise overview.
Majoral J.P., M. Zablocka, Koprowski M., Hameau A., Shi X., Mignani S., Caminade A.M.
New J. Chem. **2019**, *43*, 16785-16795
- 474- Metallo-based phosphorus dendrimers as novel nanotherapeutic strategies to tackle cancers: A concise overview
Chen L., Mignani S., Caminade A.M., Majoral J.P.
WIREs Nanomed. Nanobiotech. **2019**, *11*, e1577. <https://doi.org/10.1002/wnan.1577>
- 473- Fluorescent phosphorus dendrimers excited by two photons: synthesis, two-photon absorption properties and biological uses
Caminade A.M., Zibarov A., Cueto Diaz E., Hameau A., Klausen M., Moineau-Chane Ching K., Majoral J.P., Verlhac J.B., Mongin O., Blanchard-Desce M.
Beilstein J. Org. Chem. **2019**, *16*, 2287-2303
- 472- Biodistribution and biosafety of a poly(phosphorhydrazone) dendrimer, an anti-inflammatory drug-candidate
Fruchon S., Bellard E., Beton N., Goursat C., Oukhrib A., Caminade A.M., Blanzat M., Turrin C.O., Golzio M., Poupot R.
Biomolecules, **2019**, *9*, 475. <https://doi.org/10.3390/biom9090475>
- 471- Dendrimers and hyper-branched polymers interacting with clays: fruitful associations for functional materials
Caminade A.M., Beraa A., Laurent R., Delavaux-Nicot B., Hajjaji M.
J. Mater Chem. A. **2019**, *7*, 19634-19650
- 470- Fluorescent phosphorus dendrimers: towards material and biological uses
Qiu J., Hameau A., Shi X., Mignani S., Majoral J.P., Caminade A.M.
ChemPlusChem **2019**, *84*, 1070-1080
- 469- Phosphorus dendrimers functionalised with nitrogen ligands, for catalysis and biology
Caminade A.M., Majoral J.P.
Dalton Trans. **2019**, *48*, 7483-7493
- 468- Phosphorhydrazones as useful building-blocks for special architectures: macrocycles and dendrimers.
Majoral J.P., Caminade A.M.
Eur. J. Inorg. Chem. **2019**, 1457-1475
- 467- Homogeneous catalysis with phosphorus dendrimer complexes
Caminade A.M., Laurent R.
Coord. Chem. Rev. **2019**, *389*, 59-72

- 466- Dendrimeric nanoparticles for two-photon photodynamic therapy and imaging: synthesis, photophysical properties, innocuousness in daylight and cytotoxicity under two-photon irradiation in the NIR
Sourdon A., Gary-Boho M., Maynadier M., Garcia M., Majoral J.P., Caminade A.M., Mongin O., Blanchard-Desce M.
Chem. Eur. J. **2019**, *25*, 3637-3649
- 465- π -Stacking Interactions of Graphene-Coated Cobalt Magnetic Nanoparticles with Pyrene-Tagged Dendritic Poly(Vinylidene Fluoride)
Folgado E., Guerre M., Mimouni N., Collière V., Bijani C., Ladmiral V., Moineau-Chane Ching K., Caminade A.M., Ameduri B., Ouali A.
ChemPlusChem, **2019**, *84*, 78-84.
- 464- Adsorption abilities of sodic- and dendrimers-modified stevensite
Hajjaji M., Beraa A., Coppel Y., Laurent R., Caminade A.M.,
Clay Minerals, **2018**, *53*, 525-544.
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- 4- Dendrimères phosphorés
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- 18- *Nouveaux dendrimères à terminaisons monophosphoniques, leur procédé de préparation et leur utilisation*
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- 13- *High porosity materials and method for preparing same*
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- 9- *Matériaux minéraux de haute porosité et procédé de préparation de ces matériaux*
Chane-Ching J.Y., Reinert P., Bull L., Caminade A.M.
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- 3 - *Nouveaux dendrimères fonctionnels à terminaisons phosphorées et leur procédé de préparation.*
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- 2 - *Manufacture of boron nitride ceramics, and the silylhydrazine and borazine intermediate products formed.*
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- 1 - *Procédé de préparation de céramiques en nitrure de bore et de leurs précurseurs ainsi mis en oeuvre.*
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French Patent FR 199100822, 2 July **1991**

5. Invited conferences in congresses

- 119- Anti-inflammatory properties of phosphorus dendrimers
Online, Sino-French Innovative Nanomedicine Forum, 21 May **2021**
- 118- Dendrimers: emerging opportunities for bioimaging and diagnosis
Online, PEMED 2021, 7-9 April **2021**
- 117- Carboranylphosphines meet dendrimers: Electron-deficient scaffolds for ligand design and applications in catalysis.
Jena (Germany), CCIMC Kick-off meeting, 9-10 March **2020**
- 116- Dendrimers from the bench to biotechs and towards the bedside (*plenary conference*)
Munich (Germany) PEMED (Personalized Medicine) 2020, 19-21 February **2020**
- 115- Fluorescent Phosphorus Dendrimers for Biology. Recent Advances
Toulouse (France) HC3A (Hetero-elements and Coordination Chemistry), 16-17 January **2020**
- 114- Fluorescent dendritic nanotools especially designed for biology
Roma (Italy) PBSi (Phosphorus, Boron, and silicon) 2019, 2-4 December **2019**
- 113- Phosphorus-based dendrimers and some utilizations in biology and nanomedicine
Marseilles (France) Symposium Chemistry and Beyond, 29 November **2019**
- 112- Les dendrimères phosphorés : exemples de propriétés en biologie.
Mohammedia-Casablanca (Morocco) 4^{ème} Workshop International : La Chimie au service de la santé et de l'environnement, 7 November **2019**
- 111- Coordination Chemistry with Phosphorus Dendrimers and their Applications (*plenary conference*)
Hammamet (Tunisia) 3^{èmes} JCC (Journées de Chimie de Coordination de la Société Tunisienne de Chimie), 26-29 September **2019**
- 110- Fluorescent Dendrimers for Biology. How Two-photon Absorption Properties Can Help? (*plenary conference*)
Funchal (Madeira, Portugal) IDS11 (11th International Dendrimer Symposium), 14-18 July **2019**
- 109- Silica and Si-O-containing materials functionalized with phosphorus dendrimers. Synthesis, properties and uses. (*plenary conference*)
Barcelona (Spain) PBSi 2018, 10-12 December **2018**
- 108- Coordination chemistry with phosphorus dendrimers
Toulouse (France) GDR Phosphore, 5-6 November **2018**
- 107- How dendrimers can contribute to personalized medicine? (*plenary conference*)
Paris (France) PEMED 2018 (Personalized Medicine), 25-27 June **2018**
- 106- Fluorescent dendrimers for biological uses (*plenary conference*)
Urbino (Italy) Biodendrimers 2018, 4-7 June **2018**

- 105- Versatile complexation ability of thiazolylphosphine ligands. Towards greener catalysts, from monomers to dendrimers
Zagreb (Croatia) EUSIPs4 (European Smart Inorganic Polymers) 1-3 March **2018**
- 104- WG2: Synthetic approaches to polymers with defined and optimised properties.
Zagreb (Croatia) COST meeting Smart Inorganic Polymers (SIPs), 28 February **2018**
- 103- Biocompatible phosphorus dendrimers (*plenary conference*)
Moscow (Russia) International Conference “Modern trends in dendrimer chemistry and applications”, 1-4 October **2017**
- 102- DNA chips and related sensors based on dendrimers. Towards the rapid and accurate diagnosis of pathogens.
Barcelona (Spain) ICONAN 2017 (Nanomedicine and Nanobiotechnology), 25-27 September **2017**
- 101- Phosphorus dendrimers in nanomedicine (*plenary conference*)
Weihai (China) IDS10 International Dendrimer Symposium, 5-9 August **2017**
- 100- Phosphorus dendrimers for nanobiotechnologies
Kaohsiung (Taiwan) Symposium of Dendrimer Chemistry, 11-13 July **2017**
- 99- Les dendrimères phosphorés et leurs applications
Bobigny (France) GDR Phosphore, 6 July **2017**
- 98- Playing a bit with silicon and much with phosphorus for the synthesis of dendrimers. Properties and uses (*plenary conference*)
Paris (France) PBSi 2017 (Phosphorus, Boron and Silicon), 3-5 July **2017**
- 97- Phosphorus dendrimers ended by phosphorus derivatives (phosphines, phosphoramidites, phosphoniums, phosphates, phosphorus ylides, phosphonates, etc...) and their properties
Paris (France) PBSi 2017 (Phosphorus, Boron and Silicon), 3-5 July **2017**
- 96- Development of original phosphorous based dendrimers to tackle pulmonary tuberculosis
Reims (France) CEFIPRA French-Indian workshop, 16 May **2017**
- 95- Dendrimers as tools towards nanomedicine (*plenary conference*)
Paris (France) ICONAN 2016 (Nanomedicine and Nanobiotechnology), 28-30 September **2016**
- 94- WG2: Synthetic approaches to polymers with defined and optimised properties.
Porto (Portugal) COST meeting Smart Inorganic Polymers (SIPs), 15-16 September **2016**
- 93- Selected recent advances in the field of dendrimers
Porto (Portugal) COST meeting Smart Inorganic Polymers (SIPs), 15-16 September **2016**
- 92- Diversification of the internal structure of phosphorus-containing dendrimers. Recent advances.
Porto (Portugal) 3rd EUSIPs (European Smart Inorganic Polymers) 12-14 September **2016**
- 91- The long story of dendrimer ABP in chemistry and biology (*plenary conference*)
Copenhagen (Denmark) Biodendrimers 2016, 2-5 August **2016**
- 90- Phosphorus dendrimers decorated with copper complexes of N,N ligands, used as catalysts and as anti-tumor agents
Brest (France) 42th-ICCC (International Conference on Coordination Chemistry), 3-8 July **2016**
- 89- Cyclotriphosphazene, an old compound applied to the synthesis of smart dendrimers with tailored properties. (*plenary conference*)
Kazan (Russia) ICPC-21 (International Conference on Phosphorus Chemistry), 5-10 June **2016**
- 88- Phosphorus-containing dendrimers
Cluj (Romania) COST meeting Smart Inorganic Polymers (SIPs), 18-19 April **2016**
- 87- Inorganic hyperbranched macromolecules for catalysis, materials and nanomedicine. The case of phosphorus dendrimers. (*plenary conference*)
San Diego Carlsbad (CA, USA) Zing Conference on Inorganic Polymers, 12-15 February **2016**
- 86- Dendrimers: highly adaptable tools for catalysis, materials and biology.
Toulouse (France) 1st GDRI-HC3A (Heteroatom chemistry and Catalysis), 26-27 January **2016**
- 85- Structure/property relationship of dendrimers
Budapest (Hungary) Athene’s Chemistry Conference of Outstanding Women Scientists, 27 November **2015**
- 84- Que faire avec des dendrimères phosphorés en biologie ?
Montpellier (France) Ingénierie de Systèmes Chimiques et Applications Biologiques, 25 November **2015**
- 83- Phosphorus dendrimers: hyperbranched macromolecules for nanosciences (*plenary conference*)
Huatulco (Mexico) Polymat-2015, 18-22 October **2015**
- 82- Inorganic versus Organic: the key role of the scaffold on the efficiency of dendrimer nanodrugs
Uppsala (Sweden) 2nd EUSIPs (European Smart Inorganic Polymers) 24-26 September **2015**
- 81- The key role of the scaffold on the immuno-modulatory efficiency of dendrimer nanodrugs
Montreal (Canada), IDS9 (International Dendrimer Symposium), 12-17 July **2015**

- 80- Green catalysis with dendrimers (*plenary conference*)
Montreal (Canada), IDS9 (International Dendrimer Symposium), 12-17 July **2015**
- 79- Les propriétés biologiques des dendrimères phosphorés
Brest (France), Colloque SFR/IBSAM, 11 June **2015**
- 78- Metal complexes of water-soluble dendrimers for catalysis and biology (*plenary conference*)
Almeria (Spain), Workshop Metal, Water and Sun 2015, 21-22 May **2015**
- 77- Recent advances on dendrimers
Kassel (Germany), COST meeting Smart Inorganic Polymers (SIPs), 19-20 March **2015**
- 76- Dendrimers and ferrocenes: synthesis, characterization and uses for materials and catalysis (*plenary conference*)
Leipzig (Germany), 13th Ferrocene Colloquium, 22-24 February **2015**
- 75- Dendrimers for smart materials
Saarbrücken (Germany), International Symposium New Molecules for New Materials, 18 February **2015**
- 74- Inorganic dendrimers. Syntheses and properties
Maribor (Slovenia), 1st EUSIP (European Smart Inorganic Polymers), 21-23 September **2014**
- 73- The dendritic effect in biology with phosphorous dendrimers (*plenary conference*)
Lugano (Switzerland), Biodendrimer 2014, 18-20 June **2014**
- 72- Phosphorus dendrimers. Syntheses and properties
Sofia (Bulgaria), COST meeting Smart Inorganic Polymers (SIPs), 27 March **2014**
- 71- Auto-organizations by/of phosphorus dendrimers
Toulouse (France), 6^{èmes} Journées Franco-Catalanes de Chimie Moléculaire, 27-28 January **2014**
- 70- Smart nano-objects for catalysis: dendrimeric catalysts
Leipzig (Germany), Minisymposium: Smart and active assemblies for catalysis 23-25 September **2013**
- 69- Monomers versus dendrimers: on the scent of the dendritic effect (*plenary conference*)
Madrid (Spain), IDS8 (International Dendrimer Symposium), 23-27 June **2013**
- 68- Characterization, stability and detection of the dendrimer ABP
Madrid (Spain), SUDOE-CliNK (Clinical uses of NK cells), 17-18 June **2013**
- 67- Phosphorus dendrimers functionalized with 15-membered triolefinic triazamacrocycles at various locations (surface, core, or/and branches): syntheses and properties
Toulouse (France), 5^{èmes} Journées Franco-Catalanes de Chimie Moléculaire, 24-25 January **2013**
- 66- Catalyses with phosphorus dendrimers
Leipzig (Germany), BuildMona Minisymposium: When Ferrocenes meet Dendrimers – Paving the Way for Smart Catalysts, 13 December **2012**
- 65- Ferrocenyl phosphorus dendrimers. Syntheses and properties
Leipzig (Germany), When Ferrocenes meet Dendrimers – Paving the Way for Smart Catalysts, 13 December **2012**
- 64- Les dendrimères: des macromolécules thérapeutiques innovantes
Toulouse (France), Rencontre GIPI-BMA / LCC, 22 November **2012**
- 63- L'effet multivalent en biologie et en chimie. Illustration par les propriétés biologiques de dendrimères phosphorés (*plenary conference*)
Rabat (Morocco), 3^{ème} colloque Maroco-Français en Chimie Moléculaire, 15-18 October **2012**
- 62- Biological properties of phosphorus dendrimers (*plenary conference*)
Sao Paulo (Brazil), Dendrimer Symposium, 1-3 October **2012**
- 61- Biological properties of phosphorus dendrimers. An overview of their properties (*plenary conference*)
Toledo (Spain), Biodendrimers 2012, 5-8 September **2012**
- 60 - Phosphorus-containing dendrimers for the elaboration of new materials
Rennes (France), 4th COST meeting PhosSciNet, 21 March **2012**
- 59 - Phosphorus-containing dendrimers. Synthesis and applications
Rennes (France), Training School PhosSciNet (Phosphorus), 19-21 March **2012**
- 58 - Biological properties of phosphorus dendrimers
Montpellier (France), SUDOE-CliNK (Clinical uses of NK cells) meeting, 30-31 January **2012**
- 57 - Phosphorus-containing dendrimers. An overview of their properties
Pune (India), 7th IFCOS (French Indian), 7-9 December **2011**
- 56 - Phosphorus dendrimers. An overview of their properties
Toulouse (France), LIA Toulouse-Mexico, 8-10 November **2011**

- 55 - Fluorophores dendrimériques pour les matériaux, l'imagerie cellulaire, et chez l'animal vivant
Marseille (France), Mini-symposium optoélectronique moléculaire, 11 October **2011**
- 54 - Propriétés biologiques de dendrimères phosphorés
Toulouse (France), Rencontre ICT-Pierre-Fabre, 3 October **2011**
- 53 - Fluorophores dendritiques à 2 photons pour l'imagerie cellulaire et chez l'animal vivant
Lyon (France), Grand Colloque ANR Biologie et Santé, 5-7 July **2011**
- 52 - Biological properties of (phosphorus) dendrimers. Recent advances
Washington-Gaithersburg (USA), International Dendrimer Symposium (IDS) 7, 26 June – 2 July **2011**
- 51 - Phosphorus dendrimers and their influence on the human immune system
Barcelona (Spain), SUDOE-CliNK (Clinical uses of NK cells) meeting 22-23 June **2011**
- 50 - Characterization of dendrimers, depending on their Properties
Marrakech (Morocco), PPS-27 (polymers), 10-14 May **2011**
- 49 - Phosphorous-containing dendrimers for catalysis and materials
Münster (Germany) 3rd COST meeting PhosSciNet (Phosphorus), 29-30 March **2011**
- 48 - Les dendrimères phosphorés et leur caractérisation
Toulouse (France), 2^{ème} Journée Polymères Toulousaine, 7 October **2010**
- 47 - Biological properties of phosphorus dendrimers for Health
Barcelona (Spain) NanoBiotechnology & IT, 4-6 October **2010**
- 46 - Fluorescent phosphorus dendrimers and their role in supra-molecular interactions
Wroclaw (Poland) ICPC2010 (phosphorus chemistry) and 1st Europhos, 11-15 July **2010**
- 45 - Fluorescent phosphorus-containing dendrimers and their role in biology
Porquerolles (France), Biodendrimers 2010, 23-25 June **2010**
- 44 - Dendrimers and their applications in cancer diagnosis and treatment
Leipzig (Germany), BuildMoNa 2010, 6-7 May **2010**
- 43 - Dendrimers for bio-imaging
Toulouse (France), IMI satellite meeting, 2 September **2009**
- 42 - Functionalized phosphorus-containing dendrimers and their use as catalysts
Stockholm (Sweden), International Dendrimer Symposium (IDS) 6, 14-18 June **2009**
- 41 - Les dendrimères: des "arbres" moléculaires pour les nanosciences. De la synthèse à quelques exemples d'utilisation en catalyse, pour les matériaux et la biologie
Paris (France), Journées de Chimie Moléculaire Paris centre, 28-29 May **2009**
- 40 - Dendritic structures
Toulouse (France), colloque European Fine Chemical group, 7 May **2009**
- 39 - Phosphorous-containing dendrimers: uses as Catalysts, for materials, and in biology
Florence (Italy) 1st COST meeting PhosSciNet (Phosphorus), 28-29 March **2009**
- 38 - Les dendrimères phosphorés : synthèse et quelques exemples d'utilisation (catalyse, matériaux, biologie)
Toulouse (France), 1^{er} colloque Franco-Roumain, 19-20 February **2009**
- 37 - Organometallic derivatives of phosphorous dendrimers and their use as catalysts
Barcelona (Spain) 3eres Jornades Franco-Catalanes de Quimica Molecular, 15-16 January **2009**
- 36 - Dendrimers as tools in nanosciences. Examples for the elaboration of functional materials
Torino (Italy), EuCheMS, 16-20 September **2008**
- 35 - Phosphorus dendrimers as tools for the elaboration of nano-materials
Fodele (Crete, Greece), ESF Hyper-Nano Exploratory Conference, 25-28 May **2008**
- 34 - Design and properties of dendritic architectures
Il Ciocco (Pisa, Italy), Gordon Research Conference, 27 April-2 May **2008**
- 33 - Les dendrimères phosphorés
Toulouse (France), Journée UIC (industries chimiques): Nanotechnologies, 3 April **2008**
- 32 - Design and applications of dendrimers
Tarragona (Spain), 1st ICIQ/LCC workshop, 17-18 January **2008**
- 31 - Quelques exemples d'utilisation de dendrimères phosphorés dans le domaine des matériaux
Toulouse (France), 2^{ème} colloque Maroc-Français en Chimie Moléculaire, 12-15 November **2007**
- 30 - Molecular, macromolecular and supramolecular Phosphorus dendrimers as tools in nanosciences
Toulouse (France), ORCHID Conference (Toulouse- Taiwan heteroatom chemistry) 24-27 June **2007**

- 29 - Phosphorus dendrimers as tools in nano-sciences
Toulouse (France), 4^{ème} congrès Toulouse-Kiev, 6-8 June **2007**
- 28 - Les dendrimères : de petits arbres moléculaires pour les nano-sciences
Dijon (France), Journées de l'Ecole Doctorale, 9-10 May **2007**
- 27 - Les dendrimères: des "arbres" moléculaires pour les nanosciences. Synthèse et quelques exemples d'applications biologiques
Paris (France), Journée de Chimie Organique, 6 March **2007**
- 26 - Decorating step-by-step and independently the Surface and the core of dendrons
Toulouse (France), 2^{èmes} Journées Franco-Catalanes de Chimie Moléculaire, 1-2 February **2007**
- 25 - Phosphorus dendrimers as tools in nanosciences
Paris (France), French American Chemical Symposium XI, from materials to biology, 4-6 June **2006**
- 24 - Organometallic derivatives of phosphorus dendrimers
Almeria (Spain) AQUACHEM (chemistry in water), Andalusia meets Europe II, 18-21 December **2005**
- 23 - Dendrimers: Nanoobjects for a sustainable development?
Barcelona (Spain) NanoRoadMap, 18 November **2005**
- 22 - Organometallic phosphorus dendrimers and their use as catalysts
Budapest (Hungary) FECEM XVI, 3-8 September **2005**
- 21 - Specific functionalization of phosphorus dendrimers toward materials
Mount Pleasant (Michigan USA) 4th IDS (International Dendrimer Symposium), 18-21 May **2005**
- 20 - Water-soluble phosphorus dendrimers and dendritic catalysts
Lisbon (Portugal) AQUACHEM (chemistry in water), 4-5 February **2005**
- 19 - Les dendrimères phosphorés : synthèse et quelques applications en biologie
Rabat (Morocco) 1^{er} colloque Maroco- Français en chimie moléculaire, 26-28 January **2005**
- 18 - Les dendrimères, des modèles réduits d'arbres à l'échelle 1/1 000 000 000^{ème} : de nouveaux outils pour la chimie, les matériaux et la biologie
Bordeaux (France), Journée SFC Aquitaine, 12 October **2004**
- 17 - Design and properties of phosphorous dendrimers
Barcelona (Spain) Ieres Jornades Franco-Catalanes de Quimica Molecular, 20-21 September **2004**
- 16 - Designing dendrimers at will at the nanoscopic scale
Birmingham (UK) 16th ICPC (Phosphorus Chemistry), 4-9 July **2004**
- 15 - Phosphorus dendrimers: useful nano-tools for chemistry, physics and biology
Honfleur (France), US-French meeting on Intersection between biology, chemistry and physics for creating materials, 5-7 May **2004**
- 14 - Dendritic catalysts
Florence (Italy), AQUACHEM (Chemistry in water), 12-13 February **2004**
- 13 - Dendrimères et Nano-sciences
Toulouse (France), Triangle Bio-Info-Nano-Technologies, 28 November **2003**
- 12 - Applications biologiques des dendrimères
Paris (France), Symposium INSERM Nanobio, 13 May **2003**
- 11 - Les dendrimères phosphorés: de la synthèse aux applications
Talence (France), Symposium dendrimers and nanosciences, 6-7 March **2003**
- 10 - Phosphorus-containing dendrimers as supports and on supports
Rennes (France), Nouvelles Technologies en Chimie Moléculaire, 15-18 April **2002**
- 9 - Macromolécules dendritiques
Seignosse-le-Penon (France), GDR 690, 14-18 May **2001**
- 8 - Les dendrimères, des nanomolécules aux propriétés multiples
Rennes (France), congrès SFC 2000, 17-22 September **2000**
- 7 - Nanosized dendritic architectures. Synthesis, properties and applications.
Hindsgavl (Denmark) SMARTON 3, 25-28 May **2000**
- 6 - Des molécules géantes hyper-ramifiées : les dendrimères phosphorés: de la synthèse aux applications
Paris (France), Journées Division Chimie Organique de la Société Française de Chimie, 7-8 Décembre **1999**
- 5 - Dendrimers: a new class of giant molecules
La Baule (France), 14th French-Japanese Symposium on Medicinal and Fine Chemistry, 19-22 September **1999**
- 4 - Synthèse et étude des propriétés de complexation de molécules géantes: les dendrimères phosphorés
Noirmoutier (France), Concoord-Gecom 98, 24-29 May **1998**

- 3 - Arbres moléculaires, dendrimères: synthèse, réactivité, propriétés
Bordeaux-Talence (France), Congrès SFC 1997, 7-12 September **1997**
- 2 - Phosphorus dendrimers. Synthesis and surface functionalization (*plenary conference*)
Kazan (Russia), XIth International Conference on the Chemistry of Phosphorus Compounds, 8-13 September **1996**
- 1 - Phosphore et basse coordinence
Vaison-la-Romaine (France), GECO XXX, 7 September **1989**

6. Invited seminars

- 60- Les dendrimères phosphorés : exemples de propriétés en catalyse, matériaux, et biologie.
Fès (Morocco), University Euroméditerranéenne, 5 November **2019**
- 59- Les dendrimères phosphorés. Pour les matériaux et la biologie.
Marrakech (Morocco), University Cadi Ayyad, 28 November **2018**
- 58- Les dendrimères phosphorés. Synthèse et propriétés en catalyse.
Marrakech (Morocco), University Cadi Ayyad, 27 November **2018**
- 57- Anti-inflammatory and related properties of phosphorus dendrimers
Lucknow (India), CSIR, 6 September **2018**
- 56- Les dendrimères phosphorés fluorescents et leur utilisation en biologie
Rennes (France), University, 16 may **2018**
- 55- Coordination chemistry with dendrimers: from catalysis to biology
Almeria (Spain), University, 20 July **2016**
- 54- Les dendrimères phosphorés pour la catalyse, les matériaux, et la biologie
Marrakech (Morocco), University Cadi Ayyad, 26 November **2014**
- 53- An overview of the biological properties of phosphorus dendrimers. The dendritic effect.
Novossibirsk (Siberia, Russia), Institute of Biology and Medicine, 9 July **2014**
- 52- An overview of the catalytic properties of phosphorus dendrimers. The dendritic effect.
Novossibirsk (Siberia, Russia), Institute of catalysis, 8 July **2014**
- 51- Phosphorus-containing dendrimers. Synthesis and an overview of their properties for catalysis, materials and biology.
Girona (Spain), University, 23 February **2012**
- 50- Synthèse et utilisations de dendrimères phosphorés pour la catalyse, les matériaux, et la biologie
Marrakech (Morocco), University Cadi Ayyad, 15 December **2011**
- 49- Phosphorus dendrimers and their biological properties
Marseilles (France), CINaM, 15 June **2011**
- 48- Les dendrimères phosphorés et leurs propriétés biologiques
Saclay (France), CEA, 24 May **2011**
- 47- Le rôle des dendrimères pour la catalyse, les matériaux et la biologie
Strasbourg (France), IPCMS, 14 December **2010**
- 46- Que faire avec des dendrimères? Quelques réponses pour la catalyse, les matériaux et la biologie
Rennes (France), University, 22 October **2010**
- 45- Quelques applications biologiques de dendrimères
Toulouse (France), Sanofi, 14 October **2010**
- 44- Les dendrimères: des arbres moléculaires pour la catalyse, les matériaux et la biologie
Paris (France), University Diderot, 3 June **2010**
- 43 - Synthèse de diverses familles de fluorophores dendritiques
Rennes (France), University, 30 June **2009**
- 42 - Les dendrimères: des nano-outils pour la Chimie, la Physique et la Biologie.
Reims (France), University, 21 November **2008**
- 41 - Phosphorus dendrimers: New examples of uses for catalysis, materials and biology
Barcelona (Spain), University Autònoma, UAB, 12 June **2008**
- 40 - Dendrimers as tools for nanosciences. From synthesis to applications for materials
Oslo (Norway), University, 27 September **2007**
- 39 - Les nanosciences. Une approche par la chimie (*conférence grand public*)
Oslo (Norway), Centre culturel Français, 26 September **2007**
- 38 - Phosphorus dendrimers as nanotools. Examples of uses connected to materials and biology
Oslo (Norway), SINTEF, 26 September **2007**

- 37 - Phosphorus dendrimers. Synthesis, reactivity, properties
Trondheim (Norway), University, 25 September **2007**
- 36 - Les dendrimères phosphorés: quelques propriétés et applications
Sophia-Antipolis (France), Chanel, 3 July **2007**
- 35 - Dendrimers: molecular trees as tools for nano-sciences. From synthesis to applications for materials and biology
Ciudad-Real (Spain), University, 27 March **2007**
- 34 - Les dendrimères: des "arbres" moléculaires pour les nanosciences. De la chimie aux matériaux et à la biologie
Strasbourg (France), University, 16 March **2007**
- 33 - Les dendrimères: des "arbres" moléculaires pour les nanosciences. De la synthèse aux applications pour les matériaux et la biologie.
Rennes (France), University, 19 January **2007**
- 32 - Biologically active phosphorus dendrimers
Toulouse (France), SANOFI, 24 January **2006**
- 31 - Les dendrimères phosphorés
Vernaison (France), IFP-Lyon, 25 February **2005**
- 30 - Les dendrimères phosphorés : des nano-outils pour la Chimie, la Physique et la Biologie
Caen (France), ENSICAEN, 21 June **2004**
- 29 - Les dendrimères phosphorés: synthèses et quelques applications
Bordeaux (France), University, 19 December **2003**
- 28 - Les dendrimères: des nanomolécules pour les matériaux et la biologie
Versailles (France), University, 5 June **2003**
- 27 - Propriétés et applications de dendrimères phosphorés
Strasbourg (France), University, Faculté de Pharmacie, 30 January **2003**
- 26 - Dendrimères : chimie et applications potentielles
Grenoble (France), LETI-CEA, 27 January **2003**
- 25 - Dendritic nanomolecules: from synthesis to applications
Varsovie (Poland), University, 28 June **2002**
- 24 - Dendritic nanomolecules: from synthesis to applications
Lodz (Poland), CMMS, 25 June **2002**
- 23 - Dendritic nanomolecules: from synthesis to applications
Poznan (Poland), University, 21 June **2002**
- 22 - Les dendrimères, des molécules géantes aux propriétés multiples
Lille (France), Institut Pasteur, 8 March **2001**
- 21 - Les dendrimères. Propriétés et applications
Lyon (France), Aventis, 20 April **2000**
- 20 - Phosphorus dendrimers: synthesis, reactivity and properties of giant molecules
Madrid (Spain), University Autonoma, 16 April **1999**
- 19 - Phosphorus dendrimers: synthesis, reactivity and properties of giant molecules
Murcia (Spain), University, 14 April **1999**
- 18 - Phosphorus dendrimers: synthesis, reactivity and properties of giant molecules
Barcelona (Spain), University Autonoma, 12 April **1999**
- 17 - Phosphorus dendrimers: synthesis and reactivity of giant molecules
Zurich (Switzerland), ETH, 26 November **1998**
- 16 - Synthesis and characterization of a new family of giant molecules: phosphorus dendrimers
Florence (Italy), CNR, 18 December **1997**
- 15 - Synthèse, Réactivité et propriétés d'une nouvelle famille de molécules géantes
Caen (France), University, 14 November **1997**
- 14 - Arbres moléculaires, dendrimères: synthèse et propriétés physiques
Lille (France), University, 16 May **1997**
- 13 - Une nouvelle famille de molécules géantes: les dendrimères
Paris (France), University Jussieu, 21 April **1997**
- 12 - Arbres moléculaires, dendrimères: synthèse et propriétés
Saclay (France), CEA, 23 January **1997**

- 11 - Dendrimères phosphorés
Lyon (France), Rhône-Poulenc, 15 January **1997**
- 10 - Dendrimères phosphorés: une nouvelle famille de molécules géantes
Orsay (France), University, 16 April **1996**
- 9 - Une nouvelle classe de macromolécules: les dendrimères
Marseille (France), Ecole de Chimie, 31 October **1995**
- 8 - Des Macrocycles aux Dendrimères Phosphorés
Toulouse (France), LCC, 10 March **1995**
- 7 - Des Macrocycles aux Dendrimères Phosphorés
Paris (France), Ecole Normale Supérieure, 28 February **1995**
- 6 - Des Macrocycles aux Dendrimères Phosphorés
Dijon (France), University, 10 February **1995**
- 5 - Des Macrocycles aux Dendrimères Phosphorés
Rennes (France), University, 9 February **1995**
- 4 - Macrocycles, Cryptands et Dendrimères Phosphorés
Bordeaux (France), University, 28 April **1994**
- 3 - Macrocycles, Cryptands et Dendrimères Phosphorés
Lyon (France), University, 1 March **1994**
- 2 - Macrocycles, Cryptands et Dendrimères Phosphorés
Grenoble (France), University, 24 February **1994**
- 1 - Macrocycles, Cryptands et Dendrimères Phosphorés
Lyon (France), Ecole Normale Supérieure, 24 February **1994**