

CURRICULUM VITAE

Jeanne CRASSOUS born COSTANTE

French, born 13/09/1968, married, 3 children

Team "Organometallics: Materials and Catalysis" (OMC), Institut des Sciences Chimiques de Rennes
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Academic career

2010 : **Director of Research (DR2) from CNRS**, Institut des Sciences Chimiques de Rennes - University of Rennes 1.
2005 : **Researcher from CNRS**, University of Rennes 1.
2005 : **Research habilitation**, Ecole Normale Supérieure de Lyon. « *Preparation of enantioenriched molecules for the study of fundamental properties related to chirality such as the observation of parity violation effect.* »
1998 : **Researcher from CNRS**, Ecole Normale Supérieure de Lyon.
1997 : **Post-doctorant**, ETH Zurich (Switzerland) (Prof. François Diederich). « *The chirality of fullerenes* »
1996 : **PhD in Organic Chemistry**, Ecole Normale Supérieure de Lyon (Prof. André Collet). « *Synthesis of bromochlorofluoro-methane enantiomers and determination of their absolute configuration by molecular modeling and by Raman Optical Activity.* »
1992 : **National teaching diploma 'Agrégation de Sciences Physiques, option Chimie'**, (rank 8/75)
1989 : **Student** at Ecole Normale Supérieure de Lyon.

Research domains

Fundamental and applied aspects of chirality. Chiral molecular materials. Coordination and organometallic chemistry of helices. Supramolecular chemistry. Chiral transition metal complexes for parity violation observation. Chiroptics (electronic and vibrational circular dichroism, circularly polarized luminescence).

Distinction and awards

Distinguished member of the French Chemical Society SCF (2013, first promotion)
National award of the Organic Chemistry Division of the French Chemical Society (2020)

Author of 138 publications (35: IF>9, 59: 9>IF>4) among which: 1 Chem. Rev., 1 Chem Soc Rev., 1 Coord. Chem. Rev., 11 J. Am. Chem. Soc., 11 Angew. Chem. Int. Ed., 2 Nature Comm., 1 Adv. Funct. Mater., 6 Chem. Sci., 1 J. Phys. Chem. Lett., 4 Org. Lett., 13 Chem. Commun., 1 Macromolecules, 1 Polym Chem., 22 Chem. Eur. J., 3 J. Org. Chem., 4 Inorg. Chem, 8 Chirality.

H factor: **38** orcid.org/0000-0002-4037-6067. Researcher ID: I-1182-2017

1 Monography (Molécules Chirales. Stéréochimie et Propriétés. André Collet, Jeanne Crassous, Jean-Pierre Dutasta, Laure Guy, EDP Sciences, Ed. CNRS, **2006**), **6** book chapters, **2** Actualité Chimique, **2** submitted patents

Conferences and oral Communications: **42** invited conferences (**23** abroad) and **16** oral communications (**9** abroad), **61** conferences in laboratories (**30** abroad). **6** popular science conferences.

Memberships of academic societies

European Academy of Sciences, French Chemical Society, American Chemical Society, French-American Chemical Society

Editorial activities

Member of *Editorial board of journal "Chirality"* (Wiley, 2010-).

Co-editor of *Special Issues: Proceedings of 16th International Conference on Chiroptical Spectroscopy, Rennes 2016* (J. Crassous, N. Avarvari, N. Berova, J. Caldwell, *Chirality* **2018**, *30*, 955) - *Proceedings of 31st International Symposium on Chirality, Bordeaux 2019* (R. Oda, J. Crassous, N. Berova, R. Pescitelli, O. Trapp, *Chirality* **2020**, *32*, 1035).

Supervision

- Supervisor of 17 PhDs, 14 post-doctorants, 12 Masters 2, 11 visiting PhDs

Principal activities

National

- Director of French Research Network (*GDR CHIRAFUN*, Multifunctional Chirality, renewed, 2020-2025)
- Elected member at French National Committee (*CoNRS, section 12*, 2016-2021)
- Elected member of the Committee of the Organic Chemistry Division of the French Chemical Society (*DCO-SCF*, 2021-2024)
- Member of *selection committees in Chemistry* (ENS-Lyon, 2001-2005; Université d'Angers, 2011 ; Université Paul Sabatier, Toulouse, 2012; INSA Rouen 2013; AI CNRS 2013; CNRS Jury 2014; Paris Descartes 2016; Centrale Marseille 2016; Bordeaux 2018; Paris 2021)
- *Member of visiting committees HCERES* (SRSMC, Nancy 2016 ; LCR Marseille 2017 ; IPCM, Paris 2018 ; LHFA Toulouse 2019)
- Elected member of the *Laboratory Council* (ENS Lyon, 2000-2005)

- Member of *PhD jurys* (55) and *Habilitations* (14)

- President of « Journées André Collet de la Chiralité » symposia, Dinard, France (*JACC 2009*, October 2009, *JACC 2012* October 2012) and co-organizer of *JACC 2015* (4-7th October 2015 in Lyon)

- Coordinator of ANR fundings (*Hel-NHC*, 2016-2021, ANR-PRC; *MetalHel* 2013-2017, ANR BLANC; *PHOSHELIX*, 2006-2010, ANR JCJC)

- Partner of ANR collaborative fundings (*ChirON*, 2022-2026, coord. C. Gourlaouen; *CPL-SMM*, 2019-2023, coord. B. Le Guennic ; *iChiralight*, 2019-2023, coord. G. Pieters; *Helphos*, 2016-2020, coord. A. Marinetti; *NPCHEM*, 2010-2014, coord. T. Saue; *NCPMOL*, 2005-2009, coord. C. Chardonnet)

- *Evaluation of proposals* for ANR (2008-2011, 2013, 2017, 2018), Cible – Rhône-Alpes (2012), Labex post-doctorants and doctorants (2012, 2014, 2016), DIM Analytics (2015), Normandie Université (2015), Région Nouvelle-Aquitaine (2017), Frontier Research in Chemistry foundation, Strasbourg (FRC, 2017, 2018, 2019), "Etoiles Montantes" de la Région Pays de la Loire (2019), ESF-IDEX Bordeaux (2019)

International

- Coordinator of European Project ITN Network (*HELACHIROLED*, 2020-2024)

- Elected Fellow of the European Academy of Sciences (*EurASc*, 2021-)

- Member of a *Selection Committee in Chemistry* (Bochum 2019)

- Member of *International Committees of Conferences* International Symposium of Chiral Discrimination (*Chirality*), International Symposium on Chiroptical Spectroscopies (*CD*), French-American Chemical Society (*FACS*)

- Chair of the International Symposium on Chiroptical Spectroscopy (*CD2017*, Rennes, 11-15th June 2017). Co-chair of next International Symposium on Chiral Discrimination (*Chirality 2019*, Bordeaux, 14-17th July 2019, with Chairwoman: Reiko Oda)

- *Invited Professor*, Queen's University, Kingston, Canada, 18-22 nov. 2013.

- *Expert for Hexal* (Aventis) in 2010-2011

- Evaluator for European Commission (Marie Curie Individual fellowship, *H2020-MSCA-IF*, 2018, 2020, 2021)

- *Evaluation of proposals* for START Austria (2013), Science Israël Foundation (ISF, 2014, 2017), FWO, (Belgium, 2014), University Research Fellowships de la Royal Society of Chemistry (2018), National Science Centre, Poland, OSF (2018, 2020), Czech Republic (2018, 2020, 2021), DFG (2020), FWF-Lise Meitner Fellowship for Incoming Postdoctoral Researchers » (Austria, 2020), FNRS (Belgium, 2021).

Bromochlorofluoromethane



Tetrahedron Asymmetry **1995**, 6, 87; *Enantiomer* **1996**, 1, 377; *Angew. Chem. Int. Ed.* **1997**, 36, 885; *J. Am. Chem. Soc.* **1997**, 119, 3818; *Enantiomer* **2000**, 5, 429

Chirality in fullerenes

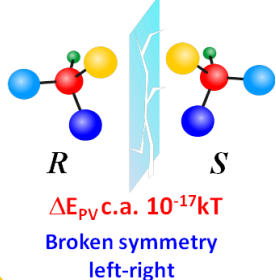


[CD(-)282]-('A)-C₇₀

[CD(+282)]-(('C)-C₇₀

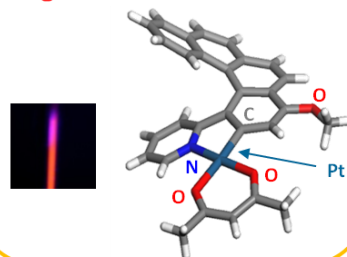
J. Chem. Soc., Perkin Trans. 2 **1998**, 1719; *J. Am. Chem. Soc.* **1998**, 120, 7860; *Angew. Chem. Int. Ed.* **1998**, 37, 1919; *Angew. Chem. Int. Ed.* **1999**, 38, 1613; *Chem. Comm.* **1999**, 1121

Parity violation

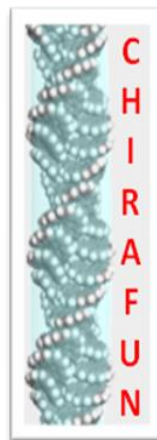
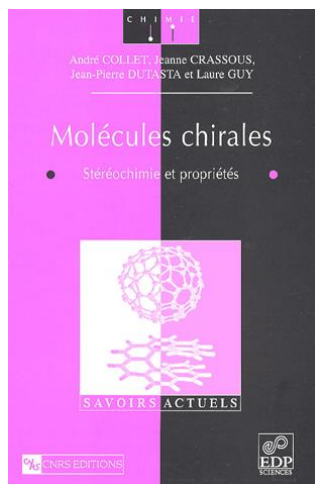


Org. Biomol. Chem. **2005**, 3, 2218; *Phys. Chem. Chem. Phys.* **2006**, 8, 79; *Chem. Comm.* **2009**, 4841; *Chirality*, **2010**, 22, 870; *Chirality* **2018**, 30, 147

Heteroatomic and organometallic helicenes



J. Am. Chem. Soc. **2009**, 131, 3183; *Angew. Chem. Int. Ed.* **2010**, 49, 99; *J. Am. Chem. Soc.* **2011**, 133, 3800; *J. Am. Chem. Soc.*, **2012**, 134, 15628; *Angew. Chem. Int. Ed.* **2014**, 53, 5786; *Angew. Chem. Int. Ed.* **2016**, 55, 8062; *Angew. Chem. Int. Ed.* **2017**, 56, 8236; *Angew. Chem. Int. Ed.* **2018**, 57, 6774; *Chem. Rev.* **2019**, 119, 8846; *Angew. Chem. Int. Ed.* **2020**, 59, 8394; *Angew. Chem. Int. Ed.* **2020**, 59, 22840; *Nature Comm.* **2021**, 12, 2786; *J. Am. Chem. Soc.* **2021**, 143, 2671



CHIRAFUN Network "Chirality and multifunctionality"



HEL4CHIROLED

Helical systems for chiral OLEDs
European ITN project

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