



Simon Tricard

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Current appointment and research interests

Since 2014 CNRS researcher, CRCN / LPCNO, INSA, CNRS, Université de Toulouse

Research interests Interactions between nanoparticles (metal, semiconductor, coordination) and molecules, self-assembly and study of optical, magnetic, electrical, electrochemical and catalytic properties

Education

2019 Habilitation to lead research / Université de Toulouse

2009 PhD in chemistry / Université Paris-Saclay

2006 Master degree in inorganic chemistry / Université Paris-Saclay

2005 Agrégation in physical sciences, chemistry option

2004 Bachelor degree in physical chemistry / Ecole Normale Supérieure de Lyon

Career and employment

2012-2014 Postdoctorate / LPCNO, Equipe NCO, INSA, UPS, CNRS, Toulouse, dir. B. Chaudret

2011-2012 Postdoctorate / LCC, Equipe MMC, CNRS, Toulouse, dir. A. Bousseksou

2009-2011 Postdoctorate / Université d'Harvard, Cambridge, US, dir. G. M. Whitesides,

2006-2009 PhD / ICMMO, Equipe ECI, Université Paris-Sud, Orsay, dir. T. Mallah

Recent responsibilities, panel membership

Since 2021 Member of the steering committee of the Toulouse Chemistry Institute

Since 2019 Member of the CNRS national commission for the monitoring of the handicap plan

Since 2017 Handicap correspondent of LPCNO

Since 2015 In charge of the seminars of LPCNO

Since 2015 Popularization and pedagogic activities

2016-2021 Coordinator of the "Handicap at CNRS" think tank of the CoNRS SSC meetings

2016-2021 Elected member and scientific secretary of section 14 of the CNRS national committee (CoNRS)

Awards and distinction

2022 Young researcher award of the coordination chemistry division of SCF (French Chemical Society)

2021 Junior distinguished member of SCF (French Chemical Society)

2018 Young investigator award of ICT (Toulouse Chemistry Institute)

Publications

- Gillet A., Cher S., Tassé M., Blon T., Alves S., Izzet G., Chaudret B., Proust A., Demont P., Volatron F.,* Tricard S.,* *Polarizability Is a Key Parameter for Molecular Electronics*, *Nanoscale Horiz.* **2021**, 6, 271–276.
- Manai G., Houimel H., Rigoulet M., Gillet A., Fazzini P.-F., Ibarra A., Balor S., Roblin P., Esvan J., Coppel Y., Chaudret B., Bonduelle C.,* Tricard S.,* *Bidimensional Lamellar Assembly by Coordination of Peptidic Homopolymers to Platinum Nanoparticles*, *Nat. Commun.* **2020**, 11, 2051 (*Editors' Highlight*).
- Usmani S., Mikolasek M., Gillet A., Sanchez-Costa J., Rigoulet M., Chaudret B., Bousseksou A., Lassalle-Kaiser B., Demont P., Molnar G., Salmon L., Carrey J., Tricard S.,* *Spin crossover in Fe(triazole) – Pt nanoparticle self-assembly structured at the sub-5 nm scale*, *Nanoscale* **2020**, 12, 8180-8187.
- Bouzouita D., Lippens G., Baquero E.A., Fazzini P.F., Pieters G., Coppel Y., Lecante P., Tricard S.,* Martinez-Prieto L.M.,* Chaudret B.,* *Tuning the Catalytic Activity and Selectivity of Water-Soluble Bimetallic RuPt Nanoparticles by Modifying their Surface Metal Distribution*, *Nanoscale* **2019**, 11, 16544-16552.
- Tricard S.,* Shepherd R.M., Stan C.A., Snyder P.W., Cademartiri R., Zhu D., Aranson I.S., Shakhnovich E.I., Whitesides G.M., *Mechanical Model of Globular Transition in Polymers*. *ChemPlusChem* **2015**, 80, 37-41.