

Glenna L. DRISKO

PhD in Chemistry

Born 15 Feb, 1981

Nationality: French

2 children

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STRONG POINTS

- Holder of and ERC Starting Grant
- High impact papers (average impact factor 16)
- Heavy mentoring load (22 stagiaires, 6 PhDs, 8 Post docs)
- International presence (collaborators in Australia, Europe, USA and Canada; 11 invited talks at international conferences; 14 seminars in Schools/Departments)
- Co-leading the axis "Matériaux et effets visuels" in the GDR Appamat
- Scientific outreach to young children (optical and acoustic waves and wave propagation workshops)

EDUCATIONAL BACKGROUND

- 2021** **HDR Physico-Chimie de la Matière Condensée.** *Control over Nanomaterial Physical Properties with an Emphasis on Light-Matter Interactions.* Université de Bordeaux (France). Garant: Etienne Duguet. **14 April, 2021**
- 2006 – 2010** **PhD in Chemistry.** *Template synthesis and surface modification of metal oxides.* The University of Melbourne (Australia). Thesis advisors: Rachel A. Caruso and Vittorio Luca. **14 April, 2010.**
- 2003 – 2005** **Masters Degree, Organic Chemistry.** Washington University in St. Louis MO (USA).

RESEARCH EXPERIENCE

- 2024-** **Directrice de recherche CNRS,** LCH ENS-Lyon, UMR 5182.
- 2017-2024** **Chargée de recherche CNRS** in the group of Mona Tréguer-Delapierre, ICMCB, UMR 5026.
- 2016-2017** **Junior Chair AMADEus researcher** in the group of Etienne Duguet, ICMCB, UMR 5026.
- 2014-2015** **Post-doctorate researcher** under Myrtil Kahn, LCC, UPR 8241.
- 2010-2013** **Post-doctorate researcher** under Clément Sanchez, LCMCP, Collège de France.

PROJECT FUNDING

Currently managing a budget of 2,581,275 €

Managed 843,000 € in past funding

- 2025-2028** Thèse MITI University of Toronto-CNRS (135,000 €)
- 2025** Projet Maturation SATT (230,795 €)
- 2024-2028** ANR AIM (548,000 €)
- 2022-2025** Thèse interdisciplinaire Université de Bordeaux (120,000 €)
- 2022-2025** ANR QLeviO (47,480 €)
- 2022-2023** Fonds France Canada pour la Recherche travel funding (15,000 CAD ~10,500 €)
- 2021-2025** ERC Scatter (1,500,000 €)
- 2019-2023** ANR Nano-Appearance (155,000 €)
- 2018-2020** Solvay funding (173,000 €)
- 2019** Fondation Université Bordeaux (4,500 €)
- 2016-2019** Chair Junior position, AMADEus (500,000 €)

TEACHING

- 2017-2022** Solid State Chemistry, 2nd year, The University of Bordeaux (13.33 h/year)
- 2022** "Convective assembly of nanomaterials with a focus on stick-slip and disorder" Summer School Soft Matter for Functional Materials (SoFun'3), June 18, 2021, Claouey, France

MENTORING

Supervision of 8 post doctorate researchers, 6 PhD students (3 defended) and 22 undergraduate interns.

ORGANISATION OF SCIENTIFIC MEETINGS

- 2017-present** Organization of monthly metamaterials meetings, France
2021 Co-organisation of So-Fun'3 summer school. *Claouey*, France
2022 Scientific committee of the meeting Apparence visuelle des milieux nanostructurés (NanoApp 2022). *Lyon*, France
2024 Solution Based Synthesis of Nanomaterials and their Organization for Hybrid Device Structures (5th Telluride). *Biarritz*, France
2024 19th European Student Colloid Conference (ESCC 2024). *Bordeaux*, France

PRESENTATIONS

11 invited presentations (Australia, Austria, France, Germany, Japan, Portugal, Spain)
14 lectures in chemistry departments (Australia, Denmark, England, France, Germany and the USA)

Invited talks

1. "Mie resonant silicon particles via bottom-up synthetic routes and assembled into 2D metasurfaces," META 2025, July 2025, SPAIN.
2. "Controlling material appearance using thin films and resonant particles" European Silicon Days, July 2025, AUSTRIA.
3. "The silicon chemistry analogue to the sol-gel process" International Sol-Gel Conference, Sept, 2024, GERMANY.
4. "From the redox synthesis of silicon particles to the formation of optically resonant core-shell particles" Telluride 2024, July 2024, FRANCE.
5. "The chemistry behind creating optically resonant nanoparticles" 20th International Symposium on Silicon Chemistry (ISOS-20), May 2024, JAPAN.
6. "Creating color and iridescence through the fabrication of nanostructured surfaces" Matériaux Avancés et Nanotechnologies, September 2022, FRANCE.
7. "High-throughput synthesis of silicon particles with optical magnetism" ICONN, February 2020, AUSTRALIA.
8. "Metal induced crystallization of titania nanospheres" PACRIM 13, October 2019, JAPAN.
9. "Metal-induced crystallization of SiO₂ and TiO₂" Telluride 2019, August 2019, AUSTRALIA.
10. "Synthesis of titania meta-atoms: the interplay between crystallinity and porosity" Meta 2019, July 2019, PORTUGAL.
11. "Can optically-active silicon meta-atoms be produced through bottom-up chemistry?" Meta 2018, June 2018, FRANCE.

COMMISSION OF TRUST

Thesis jury member: Eight times rapporteur, three times examinateur

Grant reviewer for the French National Research Agency

Manuscript Reviewer for the ACS, RSC, Nature and Wiley

PUBLICATIONS

42 publications in total, **h-index 22**, **2790 citations**. Average impact factor of the papers where I am corresponding author is **16.1**. Five relevant publications:

1. M. A. Parker, et al., "Unveiling the Potential of Redox Chemistry to Form Size-Tunable, High-Index Silicon Particles" **Chem. Mater.** 2024, *36*, 10986, *Special Issue In Honor of Prof. Clement Sanchez*.
2. J. Castets, et al., "Control over the spatial correlation of perforations in silica thin films as a function of solution conditions" **Chem. Commun.**, 2024, *60*, 9266.
3. C. Cibaka-Ndaya, et al., "Understanding the Formation Mechanisms of Silicon Particles from the Thermal Disproportionation of Hydrogen Silsesquioxane" **Chem. Mater.** 2023, *35*, 8551.
4. L. Lermusiaux, et al., "Metal-Induced Crystallization in Metal Oxides" **Acc. Chem. Res.** 2022, *55*, 171.
5. M. L. De Marco, et al., "Broadband Forward Light Scattering by Architectural Design of Core-Shell Silicon Particles" **Adv. Funct. Mater.** 2021, *31*, 2100915.