Personal Data

Name:	**Cristian Alejandro Strassert**
Birthday:	August 29th, 1978
Birthplace:	Buenos Aires, Argentine
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Education

- 2006. **Doctorate in Organic Chemistry. Topic of the Thesis: *Phthalocyanines and photodynamic therapy of cancer.* Doctoral thesis marked with the highest score: 10**. Supervision: Prof. Dr. Josefina Awruch (Department of Organic Chemistry, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentine) and Prof. Dr. Lelia E. Dicelio (Department of Inorganic, Analytical and Physical Chemistry, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentine).
- 2007. **Licentiate in Chemical Sciences. Specialization in *Physical Chemistry***. **Overall score: 9,5.** Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentine.
- 2001. **University Degree in Pharmacy**. **Internship at the *German Hospital in Buenos Aires*. Overall score: 8,7.** Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentine.
- 1996. **Bilingual High School Degree. Specialization in *Chemistry and Biology***. German School Instituto Ballester, Buenos Aires, Argentine.
- 1990. **Bilingual Ground School Degree**. German School Instituto Ballester, Buenos Aires, Argentine.

Awards and prizes

- Doctoral thesis ***Phthalocyanines and photodynamic therapy of cancer*. Honorary Mention** of the Argentine Society of Research in Organic Chemistry .
- University degree in Pharmacy. **Best Graduate of 2001 Award** of the Argentine Society of Industrial Pharmacy and Biochemistry.
- **Honorary Mention** at the Vth Argentine Olympic Games of Chemistry, 1995.

Academic career

- Since 2009. **Senior Researcher**. Nanophotonics - Workgroup of Prof. Luisa De Cola (Institute of Physics, University of Muenster, Germany).
- 2007-2009. **Research Associate (Post-Doc)**. Nanophotonics - Workgroup of Prof. Luisa De Cola (Institute of Physics, University of Muenster, Germany).
- 2001-2006. **Research Fellow of the National Council of Scientific and Technological Research (Argentine)**. Supervision: Prof. Dr. Josefina Awruch (Department of Organic Chemistry, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentine) and Prof. Dr. Lelia E. Dicelio (Department of Inorganic, Analytical and Physical Chemistry, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentine).
- 2001-2007. **Teaching and Research Associate**. Department of Organic Chemistry, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentine.
- 2000-2001. **Undergraduate Research Fellow of the University of Buenos Aires**. Supervision: Prof. Dr. Josefina Awruch (Department of Organic Chemistry, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentine) and Prof. Dr. Lelia E. Dicelio (Department of Inorganic, Analytical and Physical Chemistry, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentine).
- 1999-2001. **Undergraduate Teaching and Research Assistant**. Department of Organic Chemistry, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentine.

Know-how

Organic and organometallic synthesis. Stationary and time-resolved absorption and emission spectroscopy. Flash photolysis spectroscopy. Laser-induced optoacoustic spectroscopy. Time-resolved and stationary singlet oxygen detection. Theoretical chemistry (semiempirical and *ab initio* calculations). Design of electroluminescent materials. Biological application of photoactive compounds. Synthesis and characterization of nanomaterials. Preparation of manuscripts for scientific publications, patents and research proposals.

Language skills

- German. Mother tongue (Deutsches Sprachdiplom Erste und Zweite Stufe).
- Spanish. Mother tongue.
- English. Very good (6 years of training at the German School Instituto Ballester, Buenos Aires, Argentine).

Publications

1. Synthesis of novel alkylamino zinc(II) phthalocyanines. Rodriguez, M. E.; Strassert, C. A.; Dicelio, L. E.; Awruch, J. *Journal of Heterocyclic Chemistry* **2001**, *38*, 387 - 389.
2. Synthesis and properties of N-alkylsubstituted zinc (II) phthalocyanines as potential agents for photodynamic therapy. Strassert, C. A.; Rodriguez, M. E.; Fernández, D. A.; Dicelio, L. E.; Awruch, J. *Research Trends. Current Topics in Medicinal Chemistry* **2003**, *3*, 165 – 173.
3. A comparative study of the photophysical and phototoxic properties of octakis(decyloxy)phthalocyaninato zinc(II), incorporated in a hydrophilic polymer, in liposomes and in non-ionic micelles. Rodriguez, M. E.; Morán, F.; Bonansea, A.; Monetti, M.; Fernández, D. A.; Strassert, C. A.; Rivarola, V.; Awruch, J.; Dicelio, L. E. *Photochemical and Photobiological Sciences* **2003**, *2*, 988 – 994**.**
4. A synthetic approach towards novel octa-substituted zinc (II) phthalocyanines with different solubility and photophysical properties. Strassert, C. A.; Rodriguez, M. E.; Dicelio, L. E.; Awruch, J. *Journal of Porphyrins and Phthalocyanines* **2005**, *9*, 361 – 367.
5. Reduction of an amido zinc(II) phthalocyanine by diborane. Strassert, C. A.; Dicelio, L. E.; Awruch, J. *Synthesis* **2006**, 799 – 802.
6. Conversion of phthalimides to isoindolines by diborane. Strassert, C. A.; Awruch, J. *Monatshefte für Chemie* **2006**, *137*, 1499 – 1503.
7. Comparative photophysical investigation of oxygen and sulfur as covalent linkers on octaalkylamino substituted zinc(II) phthalocyanines. Strassert, C. A.; Bilmes, G. M.; Awruch, J.; Dicelio, L. E. *Photochemical and Photobiological Sciences* **2008**, *7*, 738 - 747.
8. Cellular inactivation and antitumor efficacy of a new zinc phthalocyanine with potential use in photodynamic therapy. Rumie Vittar, N. B.; Prucca, C. G.; Strassert, C. A.; Awruch, J.; Rivarola, V. A. *The International Journal of Biochemistry and Cell Biology* **2008**, 40, 2192 - 2205.
9. Photoactive hybrid nanomaterial for targeting, labeling, and killing antibiotic resistant bacteria. Strassert, C. A.; Otter, M.; Albuquerque, R. Q.; Höne, A.; Vida, Y.; Maier, B.; De Cola, L. *Angewandte Chemie International Edition* **2009**, 48, 7928 - 7931 (VIP-Paper).
10. Photoaktive hybride Nanomaterialien für gezieltes Anbinden, Markieren und Töten von Antibiotika-resistenten Bakterien. Strassert, C. A.; Otter, M.; Albuquerque, R. Q.; Höne, A.; Vida, Y.; Maier, B.; De Cola, L. *Angewandte Chemie* **2009**, 121, 8070 - 8073 (VIP-Paper).
11. Dipyrrin based luminescent cyclometallated palladium and platinum complexes. Bronner, C.; Baudron, S. A.; Hosseini, M. W.; Strassert, C. A.; Guenet, A.; De Cola, L. *Dalton Transactions* **2010**, *39*, 180 - 184.
12. Sensitization of the NIR emission of Nd(III) by the 4a atropoisomer of a meso-tetraphenyl porphyrin bearing four 8-hydroxyquinolinylamide chelates. Eckes, F.; Bulach, V.; Guenet, A.; Strassert, C. A.; De Cola, L.; Hosseini, M. W. *Chemical Communications* **2010**, 619 - 621.