

## **ANDREA VERÓNICA BRAGAS**

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Pabellón I - Ciudad Universitaria -  
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### **Current positions**

Associate Professor of Nanophysics and Nanotechnology. Quantum Electronics Lab, Dept of Physics, School of Sciences. University of Buenos Aires (UBA).

Principal Researcher. CONICET. IFIBA (Instituto de Física de Buenos Aires)

### **Education**

2000-2003 Postdoctoral Fellow. Department of Physics, University of Michigan. USA.

1999 Ph.D. in Physics. University of Buenos Aires

1993 Licenciada in Physics. University of Buenos Aires

### **Professional experience**

2022 to date Coordinator of the Commission for promotions and grants in Physics, CONICET, Argentina

2022 to date Feature Issue Guest Editor, Journal of the Optical Society of America B, Optica Publishing Group, USA

2002 to date Member of the Advisory Board of the Nanotechnology Argentinian Foundation (FAN), Argentina.

2017-2019 Director of the Department of Physics, School of Sciences. University of Buenos Aires.

2015-2017 Deputy Director of the Department of Physics, School of Sciences. University of Buenos Aires.

2014 to date Member of the Advisory Board of the National Lasers System. Ministry of Science. Representative of the CIN (Universities). Argentina

2013-2014 Member of the Advisory Commission on Physics for Scholarships - CONICET

2009-2010 and 2014-2015 Representative of the Faculties at the Departmental Advisory Board of the Department of Physics. School of Sciences. University of Buenos Aires

2007-2009 Member of the Habitats Commission of the School of Sciences. University of Buenos Aires. Representing the Department of Physics

### **Honors and Awards**

Asociación Física Argentina. Premio J.J. Giambiagi 2000. Best PhD Thesis in Argentina in experimental physics 1998-1999.

Innovar 2015. Argentinean Science Ministry. Category New technologies in scientific research.

### **Current research**

Nanophotonics; nanophononics; time-resolved optical spectroscopies; plasmonics; dielectric nanoantennas; metamaterials; 2D materials. We develop novel optical tools that allow light to be used both as interrogation and manipulation methods at the nanoscale. Our group carries out a wide variety of fundamental and applied research ranging from unraveling the interaction of light with matter at the nanoscale to developing ultrasensitive sensors, efficient sources of optical harmonic generation, plasmonic photocatalysts for water remediation, and mechanical nano-resonators.

### **Human resources**

7 doctoral Thesis advisories finished, 1 in progress, and 10 Licenciatura and Master Thesis advisories concluded.

### **Peer-reviewed publications and book chapters (>57)**

14 publications with IF>7: 1 Nature Materials (IF 43), 1 Nature Communications (IF 17.7), 5 Nano Letters (IF 11), 1 Advanced Optical Materials (IF 10.05), 2 Physical Review Letters (IF 9), 1 Nanophotonics (IF 7.9), 1 ACS Sensors (IF 7.7), 2 ACS Photonics (IF 7.07).

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Scopus Author Identifier: 6602896140

Google Scholar: [https://scholar.google.com.ar/citations?user=7uA6\\_vQAAAAJ&hl=es](https://scholar.google.com.ar/citations?user=7uA6_vQAAAAJ&hl=es)

### **Patent**

“Method and apparatus for determining the thermal expansion of a material,” Applicant(s): Oscar Eduardo MARTINEZ; Esteban Alejo DOMENE; Nelida MINGOLO; Francisco BALZAROTTI; Andrea Verónica BRAGAS; Assignment For Published Patent Application: CONICET, ARGENTINA. Foreign Filing License Granted: 03/03/2010. US 121704,879 Preliminary Class 374.

### **Other: Invited talks (>35), Research Grants (>25)**