ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

Aristeidis Papagiannopoulos

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EDUCATION

- Ph.D. in Physics, University of Leeds, UK (2005)
- M.Sc. in Polymer Science and Technology, University of Patras and University of Ioannina, Greece (2001)
- B.Sc. in Physics, University of Patras, Greece (1998)

PROFESSIONAL EXPERIENCE AND APPOINTMENTS

01/2023-present:	Senior Researcher, Theoretical and Physical Chemistry Institute,
	National Hellenic Research Foundation, Greece
06/2019-01/2023:	Associate Researcher, Theoretical and Physical Chemistry
	Institute, National Hellenic Research Foundation, Greece
01/2019-06/2019:	Postdoctoral Research Associate, Institute of Chemical Biology,
	National Hellenic Research Foundation, Greece
09/2015-12/2018:	Postdoctoral Research Associate, Theoretical and Physical
	Chemistry Institute, National Hellenic Research Foundation,
	Greece

- 04/2015-09/2015: Postdoctoral Research Associate, Institute of Electronic Structure and Laser, Foundation for Research and Technology – Hellas, Greece
- 04/2013-03/2015: Postdoctoral Research Associate, Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Greece
- 05/2008-06/2009: Postdoctoral Research Associate, School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece
- 02/2006-03/2007: Postdoctoral Research Associate, School of Physics and Astronomy, University of Manchester, UK
- 10/2005-1/2006: Postdoctoral Research Associate, School of Physics and Astronomy, University of Leeds, UK
- 6/2001-12/2001: Marie Curie Studentship, School of Physics and Astronomy, University of Leeds, UK

MAIN RESEARCH INTERESTS

- Nanostructured biomaterials
- Polysaccharide-based nanoparticles
- Biointerfaces
- Biopolymer fluids and hydrogels
- Small angle scattering techniques with neutrons and X-rays
- Rheology and microrheology

TEACHING EXPERIENCE

- Supervision of 3 Postdoctoral Fellows, 3 PhD, 6 MSc, 3 BSc/BEng, 4 Internship Students.
- Laboratory exercise-Physicochemical characterization of nanomaterials and nanoparticles by dynamic light scattering, for the School of Applied Mathematics and Physical Science, National Technical University of Athens, Greece 09/2021present.
- Structural and Chemical Analysis of Materials, Department of Materials Science and Technology, University of Crete, Greece, 02/2017-07/2017.
- Materials Science, Department of Physics, University of Patras, Greece, 10/2016-02/2017.

- Soft Matter (assistance teaching), Graduate programme of Department of Materials Science and Technology, University of Crete, Greece, 05/2015-06/2015.
- Physics Laboratory, School of Physics and Astronomy, University of Leeds, United Kingdom (during PhD studies), 03/2003-09/2005.
- Assistance teaching-Electromagnetism, School of Physics and Astronomy, University of Leeds, United Kingdom, 03/2003-09/2005.

PROFESSIONAL AFFILIATIONS & ACTIVITIES

- Member of the Governing Board of the Hellenic Society of Biomaterials.
- Founding member of the Greek Society for Colloids and Interfaces.
- Member of the Hellenic Polymer Society.
- Special Issue Guest Editor in Colloid and Polymer Science.
- Special Issue Guest Editor in Pharmaceutics MDPI.
- Review Editor for Biomedical Nanotechnology Frontiers in Nanotechnology.
- Guest associate/Review editor in Frontiers in Bioengineering and Biotechnology.
- Review Editor for Polymer Chemistry Frontiers in Chemistry.
- Member of the editorial board and special issue editor of Macromol MDPI.
- Reviewer for more than 30 journals (ACS, Elsevier, Springer, RSC, WILEY, MDPI).

AWARDS AND DISTINCTIONS

- Paper "Bovine serum albumin interactions with cationic surfactant vesicles decorated by a low-molar-mass polysaccharide", A. Papagiannopoulos, Colloids and Surfaces A 537, 495 (2018), featured and highlighted by <u>Medicine Innovates</u> <u>series</u> as key scientific article contributing to excellence in biomedical research (2018).
- Paper "Tuning the solution organization of cationic polymers through interactions with bovine serum albumin", A. Papagiannopoulos, E. Vlassi, S. Pispas, Physical Chemistry Chemical Physics, 19 (28), 1847 selected by <u>Advances in Engineering</u> as key scientific article contributing to excellence in science and engineering research (2018).
- Best oral presentation award in the 11th Conference of the Hellenic Society of Biomaterials, 23-25 November 2018, Athens.
- Best poster award in the 1st International Conference: From Drug Discovery to Drug Delivery, 13-15 November 2014, Athens.
- Paper, "Microrheology of Polymeric Solutions using X-ray Photon Correlation Spectroscopy", A. Papagiannopoulos, T.A.Waigh, A. Fluerasu, C. Fernyhough and

A. Madsen, Journal of Physics: Condensed Matter, 2005, 17, L279-L285 (2005). Selected in <u>European Synchrotron Radiation Facility (ESRF) Highlights 2005</u>.

• 5th position in the Summer School of Advanced Physics in the Physics Department of the University of Crete 1998.

SELECTED PUBLICATIONS

- "Protein-induced transformation of unilamellar to multilamellar vesicles triggered by a polysaccharide", A. Papagiannopoulos, A. Sklapani, A. Len, A. Radulescu, E. Pavlova, and M. Slouf, <u>Carbohydrate Polymers 303, 120478 (2023)</u>.
- "Physicochemical properties of electrostatically crosslinked carrageenan/chitosan hydrogels and carrageenan/chitosan/Laponite nanocomposite hydrogels", A. Papagiannopoulos, S.-P. Nikolakis, A. Pamvouxoglou, and E. Koutsopoulou,, <u>International Journal of Biological Macromolecules 225, 565 (2023)</u>.
- "Preparation of trypsin-based nanoparticles, colloidal properties and ability to bind bioactive compounds", A. Papagiannopoulos, D. Selianitis, A. Chroni, J. Allwang, Y. Li, C.M. Papadakis, <u>International Journal of Biological Macromolecules</u>, 208, <u>678-687 (2022)</u>.
- "Polysaccharide–Protein Multilayers Based on Chitosan–Fibrinogen Assemblies for Cardiac Cell Engineering", M. Kitsara, G. Tassis, A. Papagiannopoulos, A. Simon, O. Agbulut, and S. Pispas, <u>Macromolecular Bioscience</u>, 22: 2100346 (2022).
- 5. "Nanoformulation of fibrinogen by thermal stabilization of its electrostatic complexes with hyaluronic acid", E. Vlassi, A. Papagiannopoulos, <u>International</u> <u>Journal of Biological Macromolecules 158, 251 (2020)</u>.
- "Reorganizations inside thermally stabilized protein/polysaccharide nanocarriers investigated by small angle neutron scattering", A. Papagiannopoulos, and E. Vlassi, and A. Radulescu, <u>Carbohydrate Polymers 218, 218 (2019)</u>.
- Stimuli-responsive nanoparticles by thermal treatment of bovine serum albumin inside its complexes with chondroitin sulfate, A. Papagiannopoulos, and E. Vlassi, <u>Food Hydrocolloids</u>, 87, 602 (2019).
- "Modification of xanthan solution properties by the cationic surfactant DTMAB",
 K. Sotiropoulos, and A. Papagiannopoulos, <u>International Journal of Biological</u> <u>Macromolecules 105 (1), 1213 (2017)</u>.
- "Particle tracking microrheology of the power-law viscoelasticity of xanthan solutions", A. Papagiannopoulos, K. Sotiropoulos, and S. Pispas, <u>Food</u> <u>Hydrocolloids 61, 201 (2016)</u>.
- "Solution Structure and Dynamics of Cartilage Aggrecan", A. Papagiannopoulos, T.A. Waigh, T. Hardingham, and M. Heinrich, <u>Biomacromolecules 7 (7), 2162</u> (2006).