EVANGELIA PANTATOSAKI
Chemical Engineer, PhD

Short CV (updated 09/2023)

I. EDUCATION

2007	Ph.D., National Technical University of Athens (NTUA), Greece School of Chemical Engineering
2001	5-year Diploma, National Technical University of Athens (NTUA), School of Chemical Engineering, Greece.

II. ACADEMIC APPOINTMENTS

08/2023 - present	Assistant Professor, University of West Attica (UNIWA), Greece Department of Biomedical Engineering *Teaching - Undergraduate level:* Biomaterials & Tissue Engineering – Theory & Lab Mathematical Modeling of Biological & Physiological Processes - Theory & Lab *Teaching - Graduate level:* Biomaterials, MSc Program Biomedical Engineering and Technology
2018 – 07/2023	Adjunct Assistant Professor, UNIWA Depts. of Biomedical & Mechanical Engineering
2015 - 2017	Adjunct Assistant Professor, NTUA, School of Chemical Engineering
2002 - 2018	Adj. Faculty, Technological Educational Instit. of Piraeus, Greece Dept. of Civil Engineering (2013-2018) Dept. of Physics, Chemistry & Materials Technology (2002-2013) Department of Mathematics (2005-2010)
2004 - 2005	Adj. Faculty, Technological Educational Instit. of Athens, Greece Dept. of Physics, Chemistry & Materials Technology
2001-2005	Teaching Assistant, NTUA, School of Chemical Engineering

III. HONORS / AWARDS

2022	1st Award, Best oral presentation at the Panhellenic Chemical Engineering Conference, Patras, Greece, June 2-4, Session: Chemical Processes & Catalysis, for our published work (J. Am. Chem. Soc. Au 2022, 2, 483) in collaboration with the Johns Hopkins University
2022	Our published work (J. Am. Chem. Soc. Au 2022, 2, 483) in collaboration with the Johns Hopkins University, was selected to be featured on a supplementary cover of the Journal of the American Chemical Society
2018 - 2021	Grant of Excellence for postdoctoral research by the Hellenic Foundation for Research and Innovation. Project title: "Engineering Gene-based Nanoparticle: A computer-aided study toward Targeted Cancer Therapeutics - ENGETACT". Host: NTUA, School of Chemical Engineering, Greece

2015	1st Young Research Award by the "Greek-German Days for Research, Innovation and Young Scientists", Greek Ministry of Education and Religious Affairs & German Federal Ministry of Education and Research (BMBF)
2011 - 2012	Postdoctoral Fellowship by the Greek State Scholarships Foundation
2007 - 2008	Postdoctoral European "Marie Skłodowska-Curie" Fellowship, French National Centre for Scientific Research - CNRS, Lyon, France
2007	Distinction by the American Institute of Physics and American Physical Society for our published work J. Chem. Phys. 2007, 127, 164723. Distinguished inclusion of our paper in the Virtual Journal of Nanoscale Science & Technology, November 12, 2007
2002 - 2006	Fellowship toward a doctorate thesis by the Greek National Center for Scientific Research – NCSR "Demokritos"
2005	Award by the Thomaidis Foundation of NTUA for the presentation: Atomistic Simulation Studies of CO_2 Sorption in slit nanoporous carbons, 5th Panhellenic Conference on Chemical Engineering
2004	Award by the Thomaidis Foundation of NTUA for our paper: Colloids and Surfaces A: Physicochem. Eng. Aspects 2004, 241, 127
1995	8th best entry grade to the NTUA School of Chemical Engineering in the 1995 Panhellenic Baccalaureat Exam

IV. RESEARCH EXPERIENCE

- Participation in international projects funded by the European Commission,
  the Hellenic Foundation for Research and Innovation and the Greek State Scholarships Foundation

2021 - 2023	Senior Researcher, National Technical University of Athens, Greece
02 - 03/2020	Visiting Scholar, Johns Hopkins University (JHU), Dept. of Chemical and Biomolecular Engineering, Baltimore, USA • Sofou Group, Laboratory for Biomembranes and Transport of Drug Delivery Systems • Kokkoli Group, Institute for NanoBioTechnology, Research on Biopolymers, DNA Nanotechnology, Targeted Drug & Gene Delivery and Hydrogels
2018 - 2021	Principal Investigator, Hellenic Foundation for Research and Innovation Fellow, Host: National Technical University of Athens, Greece
2017 - 2018	Senior Researcher, Greek National Center for Scientific Research "Demokritos"
2010 - 2018	Senior Researcher, National Technical University of Athens, Greece
2009	Research Associate, French National Centre for Scientific Research - CNRS, Lyon, France
2007 - 2008	Postdoctoral European "Marie Skłodowska-Curie" Fellowship, French National Centre for Scientific Research - CNRS, Lyon, France
2000 - 2006	Graduate Research Associate, National Technical University of Athens, Greece

V. PARTICIPATION IN WORKSHOPS / SCHOOLS

2015	Fraunhofer ISE, June 11, Freiburg, Germany. Workshop with German Companies on "Adsorptive Heat Transformation". Participants: University Leipzig, Fraunhofer Institute for Solar Energy Systems ISE, National Technical University of Athens, SorTech AG, Baker Hughes INTEQ GmBH, CWK, Bad Köstritz, BASF SE Ludwigshafen.
2007	Participation in Quasi-Elastic Neutron Scattering (QENS) experiments Institut Laue-Langevin (ILL), Grenoble, France, June 7 - 14.
2005	Centre Européen de Calcul Atomique et Moléculaire (CECAM), Lyon, France.Workshop "Towards new methods to design catalytic and separation processes in nanoporous materials", September 5 - 7.
2003	King's College, United Kingdom, July 7 - 15. Summer School on "Methods in Molecular Simulation", Collaboration Computational Project for simulations of condensed phases No 5 (CCP5).

VI. ORGANIZATION OF CONFERENCES / WORKSHOPS / EVENTS etc

2018	Co-organization and co-presentation of the "hands-on" course "Computational Exercises in Molecular Simulation of Materials and Biological Systems", School of Chemical Engineering, National Technical University of Athens, April 25-26.
2015 - 2019	European Researchers' Night at the National Technical University of Athens. Co-organization and co-presentation: (i) Intelligent Design of Nanomaterials - *In silico* Design of hybrid Metal-Organic Frameworks toward Energy Storage and Controlled Release of Bioactive Compounds, and (ii) Computational Chemical Engineering Processes: a) Material-based energy storage/transformation, and b) Vaccine Design and Drug delivery platforms for targeted therapeutics.
2014	Co-organization of the "Adsorptive Heat Transformation" Workshop under the Bilateral Greek - German collaborative project WASSERMOD National Technical University of Athens, October 20.
2009	Assistant in organizing the International Conference "Diffusion Fundamentals III" in Athens, Greece, August 23 - 26.

VII. LANGUAGES

Greek (Native speaker)

English - Certificate of Proficiency, Cambridge, 1993.
French - Certificat de Langue Française, 1992.
German - Zertifikat Deutsch als Fremdsprache, 1998.

VIII. COMPUTER SKILLS & GRANTS FOR COMPUTING TIME

2015 - present	• Collaborator in many awarded projects by the Greek Research and Technology Network (GRNET) for total computer time of 14,000,000 core hours on the Greek High-Performance Computing (HPC) facilities "ARIS" • User of the GRNET HPC ARIS continuously, since its first year of operation
2010 - present	Administrator of a Beowulf Linux cluster for conducting large-scale computer simulations, ENGIMATER Group, ChemEng, NTUA

IX. PUBLICATIONS

- Publications in high impact peer-reviewed international journals:

  Google Scholar profile
  https://scholar.google.com/citations?user=YOcdH8UAAAAJ&hl=en&oi=ao

- More than thirty (30) announcements in international and national conferences
- 1 textbook: Pantatosaki, E.; Stubos, A. Molecular Simulation of Sorption in Nanoporous Structures, H_2 Storage in Carbon-based Materials: from atomistic to macroscopic scale, 2018, H2FC CyberLaboratory, Karlsruher Institut für Technologie, Germany

X. SELECTED PUBLICATIONS

- Guo, J.; Wang, D.; Pantatosaki, E.; Kuang, H.; Papadopoulos, G. K.; Tsapatsis, M.; Kokkoli, E. A Localized Enantioselective Catalytic Site on Short DNA Sequences and their Amphiphiles. *J. Am. Chem. Soc. Au* **2022**, *2*, 483. IF = 15.419

- Nasou, A.-G.; Pantatosaki, E.; Papadopoulos, G. K. A Simulation Study of the Effect of Naturally Occurring Point Mutations on the SRY-DNA complex. *J. Phys. Chem. B* **2022**, *126*, 8921. IF = 2.991

- Pantatosaki, E.; Papadopoulos, G. K. Binding Dynamics of siRNA with selected Lipopeptides: A Computer Aided Study of the Effect of Lipopeptides' Functional Groups and Stereoisomerism. *J. Chem. Theory Comput.* **2020**, *16*, 3842. IF = 5.313

- Fröhlich, D.; Pantatosaki, E.; Kolokathis, P. D.; Markey, K.; Reinsch, H.; Baumgartner, M.; van der Veen, M. A.; De Vos, D. E.; Stock, N.; Papadopoulos, G. K.; Henninger S. K.; Janiak, C. Water Adsorption Behaviour of CAU-10-H: A Thorough Investigation of Its Structure-Property Relationships. *J. Mater. Chem. A* **2016**, *4*, 11859. IF = 9.931

- Pantatosaki, E.; Megariotis, G.; Pusch, A.-K.; Chmelik, C.; Stallmach, F.; Papadopoulos, G. K. On the Impact of Sorbent Mobility on the Sorbed Phase Equilibria and Dynamics: A Study of Methane and Carbon Dioxide Within the Zeolite Imidazolate Framework-8. *J. Phys. Chem. C* **2012**, *116*, 201. IF = 4.772