PhD course "Basics of interfacial thermodynamics"

CURRICULUM VITAE

Epameinondas Leontidis

1 Short CV

Prof. Dr. Epameinondas Leontidis
Professor – Department of Chemistry, University of Cyprus
Dean, School of Natural Sciences, University of Cyprus
Past President, European Colloid and Interface Society (ECIS)
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Born in the town of Samos, Samos Island, Greece, in 1961. Undergraduate studies in the Department of Chemical Engineering of the National Technical University of Athens, Greece (1979-1985). PhD in Chemical Engineering, Department of Chemical Engineering of the Massachusetts Institute of Technology (MIT-USA) (1990).

Career

Postdoctoral researcher in the Department of Materials Science of the Federal Technical University of Zürich (ETH-Switzerland, 1/1992 – 12/1994). Assistant Professor (1/1995 - 4/2002) in the Department of Chemistry of the University of Cyprus (UCY). Associate Professor in the same Department (4/2002 till 12/2010). Full Professor since 1/2011. Vice-Chairman (3/2002 – 3/2004) and Chairman (3/2006 – 3/2008) of the Department of Chemistry. Currently Dean of the School of Pure and Applied Sciences of UCY (2020-today). President of the Pancyprian Union of Chemists (PUC) (2007-2015). Member of the executive committee of EuCheMS (European Chemical Society) between 10/2004 and 3/2010.Vice-President, President and now Past President of ECIS (2019-today).

Research supervision

Supervision of about 70 undergraduate diploma theses, 9 MSc (awarded) and 9 PhD degrees (awarded) from 1998 until today.

Research Interests

Basic research in Colloid Science of Soft Matter, but also applications of Colloid Chemistry in Materials Science. Films of molecules and inorganic nanoparticles on surfaces and the study of their optical properties. Studies of specific salt effects on model systems with emphasis on lipid monolayers and micelles. Lanthanide interactions with phospholipids. Multilayer emulsion formulations towards antioxidant action. Stability of colloids in aqueous phases.

Published work – Conference presentations

So far published 60 articles in international peer-reviewed journals (current H-index = 28), and 4 book chapters. 112 oral and poster presentations in international conferences, 26 in Greek-speaking conferences, and 29 invited seminars in various European Universities and Research Centers. Reviewer for ca. 50 international scientific journals (frequent reviewer for 13 of those), reviewer for the Research Foundation of Ireland and the Italian Research Foundation, member of several academic promotion committees in Greece and Malaya.

2 Bibliometric data

From Web of Science, Oct 8, 2023

69 total documents

2404 citations

H-index 28

3 Selection of the 10 most relevant publications and/or patents

10 publications related to the proposed course

Leodidis* E.B., Bommarius A.S., Hatton T.A., "Amino Acids in Reversed Micelles. 3. Dependence of the Interfacial Partition Coefficient on Excess Phase Salinity and Interfacial Curvature", *J. Phys. Chem.* **95**, 5943-5956 (1991)

Leodidis* E.B., Hatton T.A., "Amino Acids in Reversed Micelles. 4. Amino Acids as Cosurfactants", *J. Phys. Chem.* **95**, 5957-5965 (1991)

Zemb Th., Belloni L., Dubois M., Aroti A., Leontidis E., "Can we use area per surfactant as a quantitative test model of specific ion effects?", *Curr. Opin. Colloid Int. Sci.* **9**, 74-80 (2004)

Aroti, A., Leontidis, E., Dubois, M., Zemb, T., "Effects of monovalent anions of the Hofmeister series on DPPC lipid bilayers. Part I. Osmotic Stress experiments and in-plane equation of state", *Biophys. J.* **93**, 1580-1590 (2007)

Leontidis, E., Aroti, A., Belloni, L., Dubois, M., Zemb, T., "Effects of monovalent anions of the Hofmeister series on DPPC lipid bilayers. Part II. Modelling the perpendicular and lateral equation of state", *Biophys. J.* **93**, 1591-1607 (2007)

Leontidis E., Aroti, A., Belloni, L., "DPPC liquid-expanded monolayers as model systems to understand the anionic Hofmeister series. 1. A tale of models", *J. Phys. Chem. B* **113**(5), 1447-1459 (2009)

Leontidis E., Aroti, A., "DPPC liquid-expanded monolayers as model systems to understand the anionic Hofmeister series. 2. Ion partitioning is mostly a matter of size" *J. Phys. Chem. B* **113**(5), 1460-1467 (2009)

Leontidis, E., Christoforou, M., Georgiou, C., Delclos, T., "The ion-lipid battle for hydration water and interfacial sites at soft-matter interfaces", *Curr. Opin. Colloid Int. Sci*. **19**, 2-8 (2014)

Leontidis, E., "Investigations of the Hofmeister series and other specific ion effects using lipid model systems", *Adv. Colloid Int. Sci.* **243**, 8-22 (2017)

Sofroniou, C., Chazapi, I., Leontidis, E., "Binding of lanthanide salts to zwitterionic phospholipid micelles", *J. Colloid Int. Sci.* **557**, 568-579 (2019)