

CHONDROU ANGELIKI

Nationality: Greek
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Date of Birth: 18/11/1993

EDUCATION

- 04/2019-Today **PhD in Chemistry**, Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki
PhD Thesis: **Advanced methods for the formation and stability study of emulsions**
- 09/2016-02/2019 **MSc in Chemistry**, Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki
MSc Thesis: **Stability study of emulsions prepared with an innovative miniature emulsification device**
General Degree: **8.96/10**
- 2011-2016 **Chemistry Degree**, Food Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki
Graduate Thesis: **Recognition of basic tastes in samples of natural mineral water**
General Degree: **7.26/10**

WORKING EXPERIENCE

- 01/2021-Today **ESA PRODEX Project (4000132920)**
"Dynamics of Emulsion Droplet Interactions in Low Gravity Conditions"
Experimental measurement execution and data analysis
- 2019-Today **ESA-MAP Project (4000128643/19/NL/PG)**
"Emulsion Dynamics and Droplet Interfaces"
Experimental measurement execution and data analysis
- 2017-2019 **ESA-MAP Project (4000115113/15/NL-PG)**
"Soft Matter Dynamics"
Experimental measurement execution and data analysis
- 07/2016-08/2016 **Qlab Analytical Laboratory – Internship**
- Chemical analysis of soil, fertilizer, water, wastewater, food and feed samples
 - Microbiological analysis of foodstuffs, water and wastewater
 - Methods of microbial assessment of surfaces and air

TEACHING EXPERIENCE

- 2018 **"Laboratory of Physical Processes"**, Department of Chemistry, Aristotle University of Thessaloniki, Greece
- 2021 **"Laboratory of Chemical Technology"**, Department of Chemistry, Aristotle University of Thessaloniki, Greece

ARTICLES IN PEER-REVIEWED INTERNATIONAL JOURNALS

- Chondrou A. P., Evgenidis S.P., Zacharias K.A., Kostoglou M., Karapantsios T.D., "Development of an Experimental Device for the Assessment of Emulsions Dynamic Behavior and Stability in Micro-gravity", *Microgravity Science and Technology*, 35, 28, 2023

- Evgenidis S., Chondrou A., Karapantsios T., "A new phantom that simulates electrically a human blood vessel surrounded by tissues: Development and validation against in-vivo measurements", *Annals of Biomedical Engineering*, 6, 1284-1295, 2023
- Kostoglou M., Karapantsios T. D., Chondrou A. P., Vlachou M. C., "Towards an accurate size distribution of emulsion droplets by merging distributions estimated from different measuring methods", *Colloid and Interface Science Communications*, 46, 100569, 2022
- Chondrou A. P., Karapantsios T. D., Kostoglou M., "Effect of width/height of the gap between piston and wall on the performance of a novel small volume emulsification device", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 622, 126702, 2021
- Chondrou A. P., Evgenidis S. P., Kostoglou M., Karapantsios T. D., "An Innovative Miniature Pulsating Emulsification Device: Flow Characterization and Measurement of Emulsion Stability", *Colloids and Interfaces*, 4, 7, 2020

OTHER JOURNALS

- Chondrou A., Evgenidis S., Kostoglou M., Tsilipiras T., Karapantsios T., "A research group in the School of Chemistry of Aristotle University of Thessaloniki operates an emulsification experiment onboard the International Space Station" *Chemical Chronicles*, 84(2), 8-11, (2022)

PRESENTATIONS IN INTERNATIONAL CONFERENCES WITH REVIEWERS

- Chondrou A. P., Evgenidis S. P., Kostoglou M., Karapantsios T. D., "Exploitation of micro-gravity conditions to study dynamics and stability of emulsions", 1st Aristotle Conference on Chemistry, Thessaloniki, Greece, November 13-15, 2023 (poster)
- Chondrou A. P., Evgenidis S. P., Zacharias K., Kostoglou M., Karapantsios T. D., "Testing emulsion dynamics and stability under low gravity conditions", 37th European Colloid and Interface Society Conference, Naples, Italy, September 3-8, 2023 (poster)
- Lorusso V., Orsi D., Vaccari M., Christofolini L., Ravera F., Santini E., McMillin R., Ferri J., Chondrou A., Kostoglou M., Karapantsios T., Liggieri L., "Droplet dynamics and emulsion ageing in microgravity by DWS experiments onboard the International Space Station", 37th European Colloid and Interface Society Conference, Naples, Italy, September 3-8, 2023 (oral)
- Ferri J., McMillin R., Nowasczyk J., Christofolini L., Lorusso V., Orsi D., Vaccari M., Ravera F., Santini E., Chondrou A., Kostoglou M., Karapantsios T., Liggieri L., "Probing emulsion destabilization mechanisms and kinetics in a microgravity environment by diffusing wave spectroscopy", 9th Bubble and Drop Conference, Lublin, Poland, June 11-16, 2023 (oral)
- Christofolini L., Lorusso V., Orsi D., Vaccari M., Ravera F., Santini E., McMillin R., Ferri J., Chondrou A., Kostoglou M., Karapantsios T., Liggieri L., "Droplet dynamics and emulsion ageing in microgravity by DWS experiments onboard the International Space Station", 9th Bubble and Drop Conference, Lublin, Poland, June 11-16, 2023 (oral)
- Liggieri L., Ravera F., Santini E., Christofolini L., Orsi D., Lorusso V., Karapantsios T., Kostoglou M., Chondrou A., Miller R., Schneck E., Antoni M., Noskov B., Ferri J., Sakamoto K., Yamashita Y., Cassi D., Fischer T., Koukiotis C., Makieski A., Ouazzani J., Hashimoto S., Misono T., "The study of emulsion aging onboard the International Space Station within the project EDDI", 9th Bubble and Drop Conference, Lublin, Poland, June 11-16, 2023 (poster)
- Chondrou A. P., Evgenidis S. P., Karapantsios T. D., Kostoglou M., Liggieri L., Ravera F., Christofolini L., Lorusso V., Miller R., Ferri J. K., "Performance assessment of an innovative emulsification device resembling experimental conditions employed at EDDI project in the ISS", 9th Bubble and Drop Conference, Lublin, Poland, June 11-16, 2023 (poster)
- Chondrou A. P., Evgenidis S. P., Kostoglou M., Karapantsios T. D., "Design of an experimental device, qualified for parabolic flights, for the dynamic behaviour and stability study of emulsions", 36th Conference of the European Colloid & Interface Society, Chania, Crete, Greece, September 04-09, 2022 (poster)

- Chondrou A. P., Karapantsios T. D., Kostoglou M., "Effect of oscillating piston characteristics on small volume emulsion generation", 36th Conference of the European Colloid & Interface Society, Chania, Crete, Greece, September 04-09, 2022 (poster)
- Liggieri L., Ravera F., Santini E., Cristofolini L., Orsi D., Lorusso V., Karapantsios T., Kostoglou M., Chondrou A., Miller R., Schneck E., Antoni M., Noskov B., Ferri J., McMillin R., Sakamoto K., Yamashita Y., Cassi D., Fischer T., Koukiotis C., Makieski A., Ouazzani J., Hashimoto S., Misono T., "Microgravity Study of Emulsions Destabilisation by Diffusing Wave Spectroscopy within the EDDI Project", 36th Conference of the European Colloid & Interface Society, Chania, Crete, Greece, September 04-09, 2022 (poster)
- Karapantsios T. D., Chondrou A.P., Kostoglou M., "The role of oscillating piston geometrical features on the performance of a miniature emulsification device", 35th Conference of the European Colloid & Interface Society, Athens, Greece, September 5-10, 2021 (poster)
- Liggieri L., Ravera F., Santini E., Christofolini L., Orsi D., Lorusso V., Karapantsios T., Kostoglou M., Chondrou A., Miller R., Schneck E., Antoni M., Noskov B., Ferri J., Sakamoto K., Yamashita Y., Cassi D., Fischer T., Koukiotis C., Makieski A., Ouazzani J., Hashimoto S., Misono T., "Investigating Emulsion Destabilization and Dynamics under Microgravity Conditions by Diffusion Wave Spectroscopy", 35th Conference of the European Colloid & Interface Society, Athens, Greece, September 5-10, 2021 (poster)
- Chondrou A. P., Kostoglou M., Karapantsios T. D., "Stability study of emulsions prepared with an innovative miniature emulsification device", 3rd Chemistry Conference of Graduate & Undergraduate Students, Thessaloniki, Greece, November 22-23, 2019 (oral)
- Liggieri L., Ravera F., Santini E., Loglio G., Karapantsios T., Kostoglou M., Chondrou A., Miller R., Cristofolini L., Salerni F., Orsi D., Mickael A., Sakamoto K., Yamashita Y., Misono T., Hashimoto S., Noskov B., Ferri J., "The MAP project EDDI: Understanding the Role of Droplet Interfaces in Emulsion Dynamics", 26th ELGRA Symposium and General Assembly, Granada, Spain, September 24-27, 2019 (oral)
- Salerni F., Chondrou A., Sutterlin R., Orsi D., Santini E., Ravera F., Karapantsios T., Liggieri L., Christofolini L., "First tests of the capability of the Soft Matter Dynamics facility to produce and study emulsions", 26th ELGRA Symposium and General Assembly, Granada, Spain, September 24-27, 2019 (poster)
- Liggieri L., Ravera F., Santini E., Loglio G., Karapantsios T., Kostoglou M., Chondrou A., Miller R., Christofolini L., Salerni F., Davide O., Antoni M., Sakamoto K., Yamashita Y., Misono T., Hashimoto S., Noskov B., Ferri J. K., "Exploring the Relations Between Emulsion Dynamics and Droplet Interfaces by Microgravity Experiments: The EDDI Project.", 8th Conference: Bubble and Drop, Sofia, Bulgaria, June 24-28, 2019 (poster)
- Chondrou A. P., Kostoglou M., Karapantsios T. D., "Development of an Innovative Miniature Emulsification Device", 8th Conference: Bubble and Drop, Sofia, Bulgaria, June 24-28, 2019 (poster)

SEMINARS

05/10/2017

Rheology Seminar, Anton Paar, Department of Chemistry, Aristotle University of Thessaloniki

- Rheology basic theory, necessity for rheological measurements, problems solved by this technique
- Applications, techniques and measuring systems

COMPUTER SKILLS

- Operating Systems: **MS Windows**
- Office software: **MS Office (ECDL Core Certificate)**
- Programming skills: **Python**
- Other software: **SuperProVS Designer, ExtendSim, SPSS, Chemdraw, Solidworks**

FOREIGN LANGUAGES

English:

Level C2

Certificate of Proficiency in English University of Michigan (ECPE)

Spanish:

Nivel B2

Diploma de Espanol Como Lengua Extranjera