

## Curriculum Vitae

**Polyxeni Tsave**  
**Chemist**



### Personal information

✉ paulina.255@hotmail.com; tsavpoly@chem.auth.gr ;

💬 **Skype:** paulina.255@hotmail.com

**Nationality:** Greek

### Education

**02/2019-Today**

#### **PhD Candidate**

PhD Candidate, Department of Chemistry, Aristotle University of Thessaloniki

*PhD thesis: "Flotation of fine mineral particles"*

Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki

**10/2016-12/2018**

#### **Master studies**

Master's Degree in Chemistry, Department of Chemistry, Laboratory of Chemical and Environmental Technology, Aristotle University of Thessaloniki

*Master Thesis: "Separation of plastic solid waste by flotation and its utilization in the preparation of sorbent materials."*

Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki

**10/2014-7/2016**

#### **Master studies**

Master's degree in Preservation and Restoration of Cultural Monuments. Direction B: Protection, Conservation and Restoration of Works of Art and Mechanisms, Interdepartmental Program of Postgraduate Studies, Faculty of Engineering-School of Architecture, Aristotle University of Thessaloniki

*Master Thesis: "Investigation of Glass Tesserae Manufacturing Technology using Physicochemical Techniques"*

**09/2008-10/2013**

**Undergraduate Studies**

Bachelor's Degree in Chemistry, University of Ioannina

*Bachelor Thesis: "Anomalous diffusion upon decomposition of isopropanol on (ZrO<sub>2</sub>)<sub>1-x</sub>(CeO<sub>2</sub>)<sub>x</sub> catalysts"*

Laboratory of Industrial Chemistry, Department of chemistry, University of Ioannina

**2008**

High School Graduation (Degree 18,7/20)

**Skills**

Foreign Languages

English: Certificate of Proficiency in English, University of Michigan (C2)

Computer Software Skills

Windows, Microsoft Office, OriginLab, Graphpad, ChemDraw, SuperPro Designer, Python, Simulation in Extend4

Other

Driving license

Member of the Greek Chemists Association, since March 2013

**Work experience**

**2019-today:** Aristotle University of Thessaloniki, Experimental measurements execution and data analysis of an effective method for generation of micro-bubbles by water electrolysis on the project 'Innovative technologies and concepts for fine particle flotation: unlocking future fine-grained deposits and Critical Raw Materials resources for the EU' — 'FineFuture', H2020

**10/2020:** 7<sup>th</sup> Environmental Conference, Organizing committee of 7<sup>th</sup> Environmental Conference 30/10-1/11 2019, Thessaloniki.

**6/2019:** ICCE 2019, Organizing committee of International Conference on Chemistry and the Environment, 16-20 June 2019, Thessaloniki.

**2013-2016:** Assistance for undergraduate chemistry students and high school students.

**2016-2017:** Translations of Scientific Texts.

## Publications

**Polyxeni K. Tsave**, Ioannis A. Stratis, Eleni Prokopiou, Eleutherios Charalambous, Nestor Tsirliganis, Nikolaos Kazakis, Investigation of Glass Tesserae Manufacturing in Cyprus with a Physicochemical Approach, 22<sup>th</sup> Panhellenic Chemistry Conference in Chemistry, Thessaloniki, Greece, 2-4 December, 2016.

**Polyxeni K. Tsave**, Ioannis A. Stratis, Eleni Prokopiou, Eleutherios Charalambous, Nestor Tsirliganis, Nikolaos Kazakis, Investigation of glass Tesserae technology in Akrotiri, Cyprus. Physico-chemical approaches, 11<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering, Thessaloniki, Greece, 25-27 May, 2017.

**Tsave K.P.**, Lazaridis N.K., Separation of plastic solid waste by flotation and its utilization in the preparation of sorbent materials, 17<sup>th</sup> International Conference on Chemistry and the Environment, Thessaloniki, Greece, 16-20 June, 2019.

**Tsave P.K.**, Kostoglou M., Karapantsios T.D., Lazaridis N.K, Design of a hybrid flotation column for fine magnesite particles, Young scientists online conference- Mineral Resources- Environment- Chemical Engineering, Kozani, Western Macedonia, February 26-28, 2021.

**Tsave P.K.**, Kostoglou M., Karapantsios T.D., Lazaridis N.K, Design of a hybrid mechanical flotation system for enhancing fine mineral particles, Athens Conference on Advances in Chemistry (ACAC2020), Athens, March 10-14, 2021.

**Tsave P.K.**, Kostoglou M., Karapantsios T.D., Lazaridis N.K, Design of a flotation column equipped with a microbubble generator for fine magnesite particles recovery, 4<sup>th</sup> Conference in Chemistry for postgraduate and undergraduate students, Thessaloniki, March 20-21, 2021.

**Tsave P.K.**; Kostoglou, M.; Karapantsios, T.D.; Lazaridis, N.K. A Hybrid Device for Enhancing Flotation of Fine Particles by Combining Micro-Bubbles with Conventional Bubbles. *Minerals* 2021, 11, 561. <https://doi.org/10.3390/min11060561>

**Tsave P.K.**, Kostoglou M., Karapantsios T.D., Lazaridis N.K., Enhancing flotation of fine magnesite particles by a hybrid mixed bubble size device. 5<sup>th</sup> European Conference on Green and Sustainable Chemistry, Thessaloniki, September 26-29, 2021.

**Tsave P.K.**, Bikiaris D.N., Lazaridis N.K, Separation of PET and PS from PET/PS/PP plastic mixture and their use in synthesis of composite floating sorbent materials for dyes removal, J. Chem. Technol Biotechnol. 2022, 97, 698–708. [10.1002/jctb.6954](https://doi.org/10.1002/jctb.6954)

Dagialis S., **Tsave P.K.**, Lazaridis N.K., Kostoglou M., Karapantsios T.D., Synergistic effect of aninonic and non ionic for the enhancement of minerals flotation systems. 5<sup>th</sup> Chemistry Conference of Graduate, Postgraduate Students and PhD candidates in Aristotle University of Thessaloniki, Thessaloniki, 2-3 April, 2022.