

## CURRICULUM VITAE (COMPLETE)

MARIA C. VAGI

*Laboratory Teaching Staff of Environmental Chemistry*

### PERSONAL INFORMATION

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**Surname:** Vagi  
**Name:** Maria  
**Date & Place of Birth:** 23 May 1973, Mytilene  
**Affiliation, Office Address & Phone Number:** Department of Marine Sciences,  
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### 1. EDUCATION

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1992-1997 B.Sc. in Chemistry, Department of Chemistry, Aristotle University of Thessaloniki  
Degree: 7.66/10 (7<sup>66/100</sup>)  
1997-1998 Postgraduate Studies Program, Department of Environment, University of the Aegean  
1998-2007 Ph.D. in Environmental Sciences, Department of Environment, University of the Aegean  
Thesis: Hydrolysis and adsorption study of selected organophosphorus pesticides in aquatic and soil systems. Evaluation of their toxicity on marine algae [in greek].  
Degree: Excellent (10/10)

### Training seminars

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- Training seminar on the topic: "Methodology and priorities in laboratory monitoring of environmental impacts caused by the use of plant protection products", Organizer: Human Network for Research & Knowledge Technology, within the framework of the Operational Program for Research and Technology-EPET II, Benakeio Phytopathological Institute, Athens, (25-27 June 2001).
- Training seminar on the topic: "ISO 17025: Validation - Uncertainty, Inspections of Analytical Methods - Quality Control", Organizer: Dr. Thomaidis Nikos, Professor of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University

of Athens, (Water and Air Quality Laboratory, Department of Environment, University of the Aegean, Mytilene, 8 -10 September 2005).

- Training Seminar of System Users on the topic: "Web-based Geographic Information System (webGIS) - Spatial Data Infrastructure of the University of the Aegean", Organizer: Marathon Data Systems within the framework of the Program "Education in Visualization, Analysis and Processing of Spatial Information" (Department of Marine Sciences, University of the Aegean, Mytilene, 22 -24 January 2014).
- Online Training Seminar on the topic "LC Webimar: Gost Peaks & Friends", On-Demand Webinar. Organizer: Phenomenex Company (USA), (November 2025).
- Online Training Seminar on "GC Troubleshooting Tips and Tricks From Injection Through Detection". Organizer: Phenomenex Company (USA), (December 2025).
- Online Training Seminar on "HPLC Mobile Phases and Gradients". Organizer: Phenomenex Company (USA), (December 2025).
- Online Training Seminar on "Ocean Sessions: Water Pollution, Tools and Insights from Ocean Data". Organizer: Copernicus Marine Service (European Union's Copernicus Programme), (16 and 18 December 2025).

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### *Foreign Languages*

Greek: Mother tongue

English: Cambridge First Certificate in English (1989)

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### *Computer skills*

Microsoft Office productivity apps (Word, Excel, PowerPoint, Outlook, Teams, etc.), Microsoft Access Database Engine (Microsoft Access), Graphic Design Software (SnapGrafx for Mastering Computer Micrografx, Paint Shop, Adobe Photoshop, etc.), Statistical Package for the Social Sciences (Statgraphics, SPSS), Powersim Software (forecasting and strategic simulation software, modeling), Internet Explorer Browsers (Internet Explorer, Microsoft Outlook, Mozilla Firefox, etc.).

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## **2. EMPLOYMENT AND WORK EXPERIENCE**

- 09/1997-09/2007 Water and Air Quality Laboratory, Department of Environmental Studies, University of the Aegean: Contract research assistant- Scientific collaborator
- 09/2000-06/2002 Nursing School of Vostanio General Hospital of Mytilene: Contract Teacher of Chemistry to teach the course of "Medical Biology-Biochemistry"

- 03/2001-08/2002 Department of Marine Sciences, University of the Aegean: Contract Chemist-Scientific Collaborator
- 09/2002-10/2014 Department of Marine Sciences, University of the Aegean: Specialized Technical and Laboratory Staff in “Chemistry”
- 10/2014-present Department of Marine Sciences, University of the Aegean: Specialized Research and Laboratory Teaching Staff in “Environmental Chemistry”

### 3. EDUCATIONAL - TEACHING EXPERIENCE

#### 3.1. Teaching work

- Assignment of independent teaching as a Professor of Chemistry employed by the EPAS Nursing "Lesvos", Ministry of Health-Bostaneio General Hospital of Mytilene of the following 2-hour/week mandatory course:

Course Module	Semester	School	Duration	Type of teaching
Medical Biology-Biochemistry (Mandatory)	A	Nursing School of Vostanio General Hospital of Mytilene (Lesvos)	09/2000-06/2012	Independent

- Assignment to teach a series of courses of the Undergraduate Program of the Department of Marine Sciences (D.M.S.) of the University of the Aegean either as an External Scientific Associate (Contract Chemist-Scientific Collaborator), or as a Member of the Teaching Staff (Specialized Technical and Laboratory Staff in “Chemistry”, or Specialized Research and Laboratory Teaching Staff in “Environmental Chemistry”) after relevant decisions of the General Assembly of the Department of Marine Sciences of the University of the Aegean. The courses are as follows:

Course Module of Undergraduate Studies	Semester	Department / University	Duration	Type of teaching
Marine Organic Chemistry (Optional)	7 <sup>th</sup>	D.M.S. / Aegean	2018-present	Independent
General Chemistry (Mandatory)	1 <sup>st</sup>	D.M.S. / Aegean	2001-present	<ul style="list-style-type: none"> <li>– Independent since 2018</li> <li>– 2014-2015: 7 out of 13 lectures</li> <li>– 2000-2002: Teaching assistance</li> </ul>
Analytical Chemistry (Mandatory, theory and laboratory practicals)	2 <sup>nd</sup>	D.M.S. / Aegean	2001-present	<ul style="list-style-type: none"> <li>– Independent for the academical year 2014-2015 and since 2018-present</li> <li>– Teaching assistance in laboratory practices for the previous years (2001-2014)</li> </ul>
Chemical Oceanography (Mandatory, theory and laboratory practicals)	3 <sup>rd</sup>	D.M.S. / Aegean	2001-present	Co- Teaching of the Laboratory Practices

<b>Course Module of Undergraduate Studies</b>	<b>Semester</b>	<b>Department / University</b>	<b>Duration</b>	<b>Type of teaching</b>
Sampling Methods and Analysis (Optional, theory and laboratory practicals)	6 <sup>th</sup>	D.M.S./Aegean	2014-present	– 2 out of 13, 3hours lectures – Independent only for the academic year 2014-2015
Aquatic Toxicology (Optional, theory and laboratory practicals)	6 <sup>th</sup>	D.M.S./Aegean	2001-2018	Teaching assistance in laboratory practices and
Marine Pollution (Mandatory)	5 <sup>th</sup>	D.M.S./Aegean	2001-present	2 out of 13, 3hours lectures
Environmental Chemistry (Optional)	5 <sup>th</sup>	D.M.S./Aegean	2001-present	2 out of 13, 3hours lectures
Marine Geochemistry (Optional, theory and laboratory practicals)	6 <sup>th</sup>	D.M.S./Aegean	2013-2018	Teaching assistance in laboratory practices

- Assignment to teach a series of courses of the Graduate Program of the Department of Marine Sciences (D.M.S.) of the University of the Aegean as a Member of the Teaching Staff (Specialized Technical and Laboratory Staff in “Chemistry”, or Specialized Research and Laboratory Teaching Staff in “Environmental Chemistry”) after relevant decisions of the General Assembly of the Department of Marine Sciences of the University of the Aegean.

The courses are as follows:

<b>Course Module of Graduate Studies</b>	<b>Master of Science (M.Sc.)</b>	<b>Semester</b>	<b>Department / University</b>	<b>Duration</b>	<b>Type of teaching</b>
Biogeochemical Processes (Mandatory, theory and laboratory practicals)	Coastal Management	1 <sup>st</sup>	D.M.S./Aegean	2002-2014	Teaching assistance in laboratory practices
Coastal and Marine Pollution (Mandatory , theory and laboratory practicals)	Integrated Coastal Zone Management	1 <sup>st</sup>	D.M.S./Aegean	2014-2022	Teaching assistance in laboratory practices

### 3.2. Academic supervision of individual thesis of Undergraduate Program and M.Sc. Dissertations of Postgraduate Program in “Integrated Coastal Zone Management”

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Since 1997 until today, active participation (formulation of the topic, provision of knowledge of instrumental analysis, supervision of chemical analyses and instructions for writing the thesis) during the supervision of twenty (20) undergraduate theses and eight (8) postgraduate dissertations that were conducted: (i) at the Water and Air Quality Laboratory of the Department of Environment (09/1997-06/2007), (ii) at the Aquatic Toxicology Laboratory and (iii) at the Environmental Quality and Geochemical Processes Laboratory of the Department of Oceanography and Marine Biosciences of the University of the Aegean (from 2001 to present) and are as follows:

#### A) Supervision of Individual Thesis of Undergraduate Program

1. Organophosphate pesticides in the environment: Actions-Reactions (Nikolou Eleni, Gerondeli Aggeliki, Department of Environment, University of the Aegean, 2000) [in greek].
2. Study of the extraction and toxicity of selected organophosphate plant protection products (Lalousi Maria, Department of Environment, University of the Aegean, 2004) [in greek].
3. Optimization of a method for detecting organochlorine pesticides in marine sediments and fish (Karamanoli Marianna, Department of Marine Sciences, University of the Aegean, 2005) [in greek].
4. Assessment of the toxicity of selected organophosphate plant protection products to the marine microalga *Tetraselmis suecica* (Rasouli Christina, Department of Marine Sciences, University of the Aegean, 2007) [in greek].
5. Estimation of EC50 and environmental stability of selected organophosphate plant protection products (Smaragdaki Niki, Pavlaki Maria, Department of Marine Sciences, University of the Aegean, 2007) [in greek].
6. Assessment of the environmental risk from pharmaceutical substances: the case of diclofenac, ibuprofen, sulfamethoxazole & carbamazepine (Tsarpali Vasiliki, Paxinos Odysseas, Department of Marine Sciences, University of the Aegean, 2009) [in greek].
7. Spatial distribution of polycyclic aromatic hydrocarbons in surface sediments of the Gulf of Alexandroupolis (Kapodistrias Antonios, Department of Marine Sciences, University of the Aegean, 2009) [in greek].
8. Evaluation of the current and expected environmental situation in the wider area of the "Aluminium of Greece" Factory (Zissimopoulou Aikateriki, Department of Marine Sciences, University of the Aegean, 2009) [in greek].

9. Toxic substances in indoor spaces (residential buildings, educational buildings, workplaces) and in the marine environment (Georgiou Fotini, Papakyriakou Elisavet, Department of Marine Sciences, University of the Aegean, 2009) [in greek].
10. The pollution of Lake Koroneia (Romanidis-Kyriakidis Georgios, Department of Marine Sciences, University of the Aegean, 2010) [in greek].
11. Organochlorinated Plant Protection Products (OPPPs) in the Marine Environment of Mediterranean Sea: Systemic Review (Tzourtzoukli Eleni, Department of Marine Sciences, University of the Aegean, 2020) [in greek].
12. Investigating the possibility of reducing organic load from sediment under aquaculture cages using sea cucumbers (Kounida Sevasti-Aliki, Department of Marine Sciences, University of the Aegean, 2020) [in greek].
13. Removal of Polycyclic Aromatic Hydrocarbons (PAHs) from aqueous substrates using adsorbent materials with emphasis on worn (damaged) car tires: Literature Review (Bozoutsidis Eleftherios, Department of Marine Sciences, University of the Aegean, 2020) [in greek].
14. Adsorption study of methylene blue dye on biomass of *Posidonia oceanica* (Dimitropoulou Dionisia, Department of Marine Sciences, University of the Aegean, 2022) [in greek].
15. Toxic Effects of Polycyclic Aromatic Hydrocarbons (PAHs) on Dolphins: Literature Review (Toumpani Georgia, Department of Marine Sciences, University of the Aegean, 2022) [in greek].
16. Pharmaceuticals and toxic impacts on marine biota: A Systematic Review (Ntatsi Nefeli, Department of Marine Sciences, University of the Aegean, 2023) [in greek].
17. Assessment of water quality of the Saronic Gulf: Evaluation of the situation of November 2021 (Balagoura Asteria, Department of Marine Sciences, University of the Aegean, 2023) [in greek].
18. Adsorption and desorption of methylene blue dye onto marine sediments: Kinetics and equilibrium studies (Leventelli Melpomeni, Department of Marine Sciences, University of the Aegean, 2023) [in greek].
19. Assessment of water quality of the Gulf of Moudros (Limnos): Evaluation of the situation of July and December 2022 (Gkika Amalia, Department of Marine Sciences, University of the Aegean, 2024) [in greek].
20. Removal of synthetic dyes from wastewater through biosorption techniques using algae: A Literature Review (Kounoupiotis Spyridon-Iason, Department of Marine Sciences, University of the Aegean, 2025) [in greek].

## B) Supervision of Master Thesis (Dissertations)

1. Assessment of the ecological status of the Tsiknia, Potamia & Vouvari river streams (Kalloni, Lesvos) with the application of multiparametric statistical methods (Varagianni Maria-Evangelia, MSc Course Program on "Integrated Coastal Zone Management", Department of Marine Sciences, University of the Aegean, 2006) [in greek].
2. Investigation of the presence of organochlorine pesticides in the surface sediments of Gera's gulf (Maneas Georgios, MSc Course Program on "Integrated Coastal Zone Management", Department of Marine Sciences, University of the Aegean, 2007) [in greek].
3. Investigation of the presence of polycyclic aromatic hydrocarbons in surface sediments of the Alexandroupoli Bay (Smaragdaki Niki, MSc Course Program on "Integrated Coastal Zone Management", Department of Marine Sciences, University of the Aegean, 2009) [in greek].
4. Predicted environmental concentrations of the plant protection products fenthion and dimethoate - Study approach with the application of the STEPS 1-2 model (FOCUS) (Gioousoglou Constantia, MSc Course Program on "Integrated Coastal Zone Management", Department of Marine Sciences, University of the Aegean, 2009) [in greek].
5. Development of a methodology for assessing the quality of the coastal environment: The case of the Strymonikos Gulf (Paxinos Odysseas-Dionysios, MSc Course Program on "Integrated Coastal Zone Management", Department of Marine Sciences, University of the Aegean, 2012) [in greek].
6. Morphological characteristics and proximate analysis of the sardine (*Sardina pilchardus* Walbaum, 1792) in northern Aegean Sea (gulf of Kalloni, Lesvos) (Pappou Sophia, MSc Course Program on "Integrated Coastal Zone Management", Department of Marine Sciences, University of the Aegean, 2018).
7. Do TBT free-antifouling booster biocides pose a threat to the marine environment? (Adamantidou Vasiliki-Adamantia, MSc Course Program on "Integrated Coastal Zone Management", Department of Marine Sciences, University of the Aegean, 2018).
8. Impacts of fish farming on bottom organic content and mitigation techniques (Laskos Dimitrios, MSc Course Program on "Integrated Coastal Zone Management", Department of Marine Sciences, University of the Aegean, 2020) [in greek].

## 4. RESEARCH INTERESTS & SPECIALIZATION

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### 4.1. Main fields

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- Organic pesticides: Environmental fate and behavior in environmental matrices.
- Development, optimization and evaluation of analytical methods for the determination of toxic priority substances in various aqueous and solid environmental matrices based on means of gas chromatography and mass spectrometry .

### 4.2. Other fields

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- Qualitative and quantitative instrumental analysis of persistent organic pollutants (POPs) in a variety of matrices (pesticides, PAHs, PCBs, pharmaceuticals, etc.).
- Toxicity tests of synthetic organic compounds contained in surface water, seawater and sediments towards non target-microalga.
- Removal of toxic contaminants from water samples by adsorption techniques.

### 4.3. Current research interest

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- Degradation kinetics and persistence of pesticides in different environmental matrices
- Bioassays
- Marine pollution monitoring due to priority substances
- Remediation technologies
- Measurements of oceanographic parameters in seawater and sediment samples, such as nutrients, chlorophyll a, soluble organic carbon, soluble organic nitrogen, etc.
- Advanced Oxidative Pollution Control Methods (AOCM) - Photochemical oxidation and heterogeneous photocatalytic degradation of residual concentrations of organic plant protection products in various environmental substrates.

### 4.4. Participation in Research Projects (selected)

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- “Genetic modification of bacteria important for industry and production of value-added products” (General Secretariat for Research and Technology - Research Capacity Strengthening Program (GSRT - PENED 95), Department of Chemistry, Aristotle University of Thessaloniki, Duration: 10/1996 - 12/1996 and 03/1997 - 04/1997).
- “Monitoring Program for the Quality of Receiving Surface Waters, with regard to Substances in List I of Directive 446/76/E.E.C.” (funded by the Ministry of the

Environment, Planning and Public Works), Department of Environment, University of the Aegean, Duration: 09/1996- 05/1998 and 09/1998- 05/1999.

- “Monitoring of the occurrence of micropollutants in the surface waters of Greece, Catalogue II, substances candidate for Catalogue I, 76/464/EEC Directive” (funded by the Ministry of the Environment, Planning and Public Works), Department of Environment, University of the Aegean, Duration: 1999-2000).
- “Monitoring the quality of the coastal area of the town of Mytilene (NE Lesvos) after the functioning of the Waste Water Treatment Plant (WWTP)”, (funded by the Municipality of Mytilene), Department of Marine Sciences, University of the Aegean, Duration: 2002-2005.
- “Monitoring of the water quality in the bays of Kalloni, Lesvos and Moudros, Limnos for the operation of shellfish fishing and farming”, (Prefectural Authority of Lesvos), Department of Marine Sciences, University of the Aegean, Duration: 2002 - 2005.
- “Quality of Life and Management of Living Resources Program Microalgae as Cell Factories for Chemical and Biochemical Products (ALGINET)”, funded by the European Commission (QLRT-2001-02132), Department of Marine Sciences, University of the Aegean, Duration: 2002-2005.
- “MED POL Monitoring Project: Marine monitoring along the coastal area of the island of Lesvos and of the Argolikos gulf” (funded by the Ministry of the Environment, Greece & FEDER/EEC), Department of Environment, University of the Aegean, Duration: 2004-2006.
- “Monitoring of the quality of the drinking water of Athens”, (funded by the Athens Water Supply & Sewerage Company SA, Department of Environment, University of the Aegean, Duration: 1/2005- 12/2005.
- “Assessment of the occurrence and the spatial distribution of pesticides in the Gulf of Gera”, (funded by the Prefectural Authority of Lesvos), Department of Marine Sciences, University of the Aegean, Duration: 2005-2006.
- “Impacts of human activities on the quality of the coastal environment - Evaluation of Environmental Quality Indicators for the management of the coastal zone according to the Directive 2000/60, (InterregIIIA, Greece Cyprus)”, (funded by the European Union and National Funds), Department of Marine Sciences, University of the Aegean, Duration: 2007.

- “Harbor Sediments Pollution Assessment and Dredged Material Management”, (funded by NATO, ESP/Collaborative Linkage Grant - clg 982446), Department of Marine Sciences, University of the Aegean, Duration: 2006-2008.
- “Ecotoxicological Assessment of Marine Sediments in the Framework of the Directive 2000/60/EC: Implication for the Management of Dredged Material”, (funded by the General Hellenic Secretariat of Research & Technology), Department of Marine Sciences, University of the Aegean, Duration: 2006-2008.
- “Oceanographic study of the Northeastern Aegean Sea: the Gulf of Alexandroupolis (Greece)”, (funded by the Prefecture of Evros), Department of Marine Sciences, University of the Aegean, Duration: 2008-2009.
- “Development and application of novel technologies of chemical oxidation for the removal of organic substances from treated sewage effluents in Cyprus combined with toxicological bioassays”, (funded by the University of Cyprus), Department of Marine Sciences, University of the Aegean, Duration: 2007-2009.
- “Pilot Oceanography System for monitoring the Gulf of Kalloni (Kalloni Archetype)”, Department of Marine Sciences, University of the Aegean, Duration:2018-2020.
- “AGRICA: Agrifood Research & Innovation Center of Aegean”, Department of Food Science and Nutrition, University of the Aegean, Duration: 2018-2020.
- “Creation of Infrastructure to Support Blue Growth in the North Aegean: Coastal Environment Observatory (AEGIS)”, of the Operational Program “North Aegean 2014-2020”, in Priority Axis 1 “Immediate halt to the contraction of productive/business activity, strengthening the attractiveness, competitiveness and extroversion of the islands of the Region, especially small and medium-sized enterprises and increasing regional added value, with a focus on innovation”, Department of Marine Sciences, University of the Aegean, Duration: 2018-2020.
- “Exploring the ability of two species of sea cucumbers to reduce the organic load from the substrate under fish cages in a sea farm ( PHAROS4MPAs - Blue Economy and Marine Conservation: Safeguarding Mediterranean MPAs in order to achieve Good Environmental Status”, (INTERREG MED 2014-2020), Department of Marine Sciences, University of the Aegean, Duration: 2019-2020.
- “EMERGE: Evaluation, control and Mitigation of the EnviRonmental impacts of shippinG Emissions” (funded by the Horizon 2020), Department of Marine Sciences, University of the Aegean, Duration: 2020-2023.

#### 4.5. Membership in Scientific & Professional Organizations

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- Association of Greek Chemists
- Global Network of Environmental Science and Technology (G-NEST)
- World-Wide Club of the Chemical Community (ChemWeb.com)
- Society of Environmental Toxicology & Chemistry (SETAC)

#### 4.6. Peer Reviewer For International Journals

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Referee of a significant number of articles submitted to the following international scientific journals:

- *International Journal of Environmental Analytical Chemistry*
- *Journal of AOAC (Association of Official Agricultural Chemists) International*
- *Desalination*
- *Global Nest*
- *Journal of Hazardous Materials*
- *Environmental Science and Pollution Research*
- *Journal of Advanced Oxidation Technologies*
- *Journal of Environmental Chemical Engineering*
- *Chemosphere*
- *Journal of Marine Science Research and Oceanography*

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## 5. PUBLICATIONS

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### 5.1. Monographs

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- Vagi M.C. (2007), “Hydrolysis and adsorption study of selected organophosphorus pesticides in aquatic and soil systems. Evaluation of their toxicity on marine algae”, (phD Thesis, Department of Environment, University of the Aegean, 355 pages) [in greek], DOI: 10.12681/eadd/17779 (Available from <https://www.didaktorika.gr/eadd/handle/10442/17779>)
- Vagi M.C. (1997), “Study of the ice protein overexpressed in E. Coli by the inaZ gene”(Undergraduate Thesis, Department of Chemistry, Aristotle University of Thessaloniki) [in greek].

### 5.2. Book Chapters

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- Andreas S. Petsas, Maria C. Vagi, (2017), "Effects on the Photosynthetic Activity of Algae After Exposure to Various Organic and Inorganic Pollutants: A Review", In: *Chlorophyll*, e-book edited by Eduardo Jacob-Lopes, Leila Queiroz Zepka and Maria Isabel Queiroz, InTech, Online ISBN: 978-953-51-3108-3, Print ISBN: 978-953-51-3107-6, Chapter 4 (OPEN ACCESS), pp. 37-77. DOI: 10.5772/67991. Available from: <https://www.intechopen.com/books/chlorophyll/effects-on-the-photosynthetic-activity-of-algae-after-exposure-to-various-organic-and-inorganic-poll>
- Andreas S. Petsas, Maria C. Vagi, (2018), "Photocatalytic Degradation of Selected Organophosphorus Pesticides using Titanium dioxide and UV Light", In: “*Titanium Dioxide*”, e-book edited by Dongfang Yang, InTech, ISBN: 978-1-78923-327-8, Print ISBN: 978-1-78923-326-1, Chapter 13 (OPEN ACCESS), pp. 241-260. Available from: <http://dx.doi.org/10.5772/intechopen.72193>
- Maria Vagi, Andreas Petsas, Maria Pavlaki and Maria Kostopoulou, (2018), "Toxic effects of the organophosphorus insecticide Fenthion on growth and chlorophyll production activity of unicellular marine microalgae *Tetraselmis suecica* - Comparison between observed and predicted endpoint toxicity data", In: “*Insecticides*”, e-book edited by Ghousia Begum, InTech, ISBN: 978-953-51-5601-7, Chapter 7 (OPEN ACCESS), pp. 117-136. Available from: <http://dx.doi.org/10.5772/intechopen.72321>
- Andreas S. Petsas and Maria C. Vagi, (2020), “Recent Advances in Determination of Pesticides Residues in Food Commodities of Fruit and Vegetal Origin”, e-book edited by Atta-ur-Rahman, FRS and Sibel A. Ozkan, Bentham Science Publishers, e-chapter

In: Bentham e-Books Series: “Recent Advances in Analytical Techniques”, vol 4, Chapter 4, pp. 94-124 [ISSN (Online): 2542-5625; ISSN (Print): 2542-5617; ISBN (Online): 978-981-14-0511-2; ISBN (Print): 978-981-14-0510-5]. Available from: <https://benthambooks.com/book/9789811405112/>

- Vagi, M.C., Petsas, A.S. (2021), “Sorption/Desorption, Leaching, and Transport Behavior of Pesticides in Soils: A Review on Recent Advances and Published Scientific Research”. In: Rodríguez-Cruz, M.S., Sánchez-Martín, M.J. (eds) Pesticides in Soils. The Handbook of Environmental Chemistry, vol 113. Springer, Cham. Available from: [https://doi.org/10.1007/698\\_2021\\_803](https://doi.org/10.1007/698_2021_803)

### 5.3. Lecture Notes

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- Vagi M. (2001), "Medicinal Biology-Biochemistry: Additional Notes " (20 pages), Nursing School of Vostanio General Hospital of Mytilene (Lesvos), [in greek].
- Vagi M. (2001), "General Chemistry: Additional Notes " (60 pages), Graduate Studies Program, Department of Marine Sciences, University of the Aegean, [in greek].
- Vagi M. (2019), "Marine Organic Chemistry", Graduate Studies Program, Department of Marine Sciences, University of the Aegean, [in greek].

#### 5.4. Publications in peer-reviewed journals

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1. Lekkas T., Kostopoulou M., Petsas A., Vagi M., Golfinopoulos S., Stasinakis A., Thomaidis N., Pavlogeorgatos G., Kotrikla A., Gatidou G., Xilourgidis N., kolokythas G., Makri Ch., Babos D., Lekkas D., Nikolaou N., (2003). “Monitoring priority substances of Directives 76/464/EEC and 2000/60/EC in Greek water bodies”, *Journal of Environmental Monitoring*, Vol. 5, pp.: 593-597, 2003. <http://dx.doi.org/10.1039/B304809H>
2. Lekkas TD, Kostopoulou MN, Kolokythas G, Thomaidis N, Golfinopoulos SK, Kotrikla A, Pavlogeorgatos G, Stasinakis A, Nikolaou AD, Gatidou G, Petsas A, Vagi M, Babos D, Lekkas D, Makri CA. (2003). “Optimization of analytical methods for the determination of trace concentrations of toxic pollutants in drinking and surface waters”, *Global NEST Journal*, Vol. 5, No 3, Issue on Water Quality, pp.: 165-175, 2003. <https://doi.org/10.30955/gnj.000274>
3. Spyros K. Golfinopoulos, Anastasia D. Nikolaou, Maria N. Kostopoulou, Nikos K. Xilourgidis, Maria C. Vagi and Dimitris T. Lekkas (2003). “Organochlorine pesticides in the surface waters of Northern Greece”, *Chemosphere*, Vol. 50, Issue 4, pp.: 507-516, 2003. [https://doi.org/10.1016/S0045-6535\(02\)00480-0](https://doi.org/10.1016/S0045-6535(02)00480-0)
4. Lekkas T., G. Kolokythas, A. Nikolaou, M. Kostopoulou, A. Kotrikla, G. Gatidou, N. S. Thomaidis, S. Golfinopoulos, Ch. Makri, D. Babos, M. Vagi, A. Stasinakis, A. Petsas, D. F. Lekkas, (2004). “Evaluation of the pollution of the surface waters of Greece from the priority compounds of list II, 76/464/EEC Directive, and other toxic compounds”, *Environment International*, Vol. 30, No 8, pp.: 995-1007, 2004. [DOI: 10.1016/j.envint.2004.04.001](https://doi.org/10.1016/j.envint.2004.04.001)
5. Vagi M.C., M.N. Kostopoulou, A.S. Petsas, M.E. Lalousi, Ch. Rasouli and T.D. Lekkas, (2005). “Toxicity of organophosphorus pesticides to the marine alga *Tetraselmis suecica*”, *Global NEST Journal*, Vol. 7, No 2, Issue on Water Quality, pp.: 222-227, 2005. <https://doi.org/10.30955/gnj.000375>
6. M. Aloupi, M.O. Angelidis, A. Gabriel, M. Karantanelli, M. Koulousaris, A. Nikolaou, A. Petsas, G. Tsirtsis, M. Vagi, F. Vlatsiotou, (2007). “Marine monitoring along the eastern coastal area of the Island of Lesbos, Greece during 2004 in the Framework of MEDPOL III”, *Global NEST Journal*, Vol. 9, No 2, pp.: 83-97, 2007. <https://doi.org/10.30955/gnj.000409>
7. M.C. Vagi, A.S. Petsas, M.N. Kostopoulou, M.K. Karamanoli and T.D. Lekkas (2007) “Determination of Organochlorine Pesticides in Marine Sediments Samples using Ultrasonic Solvent Extraction followed by GC/ECD”, *Desalination*, Vol. 210, pp.: 146-156, 2007. <https://doi.org/10.1016/j.desal.2006.06.020>

8. Nikolaou, A., Kostopoulou, M., Lofrano, G., Meric, S., Petsas, A., Vagi, M., (2009). “Levels and toxicity of PAHs in marine sediments”, *Trends in Analytical Chemistry*, Vol. 28, pp.: 653-664, 2009. [DOI:10.1016/j.trac.2009.04.004](https://doi.org/10.1016/j.trac.2009.04.004)
9. Vagi, M.C., Petsas, A.S., Kostopoulou, M.N., Lekkas, T.D. (2010). “Adsorption and desorption processes of two selected organophosphorus pesticides, dimethoate and fenthion, onto three Greek agricultural soils“, *International Journal of Environmental Analytical Chemistry*, Vol. 90, Issue 3-6, pp.: 367-387, 2010. <https://doi.org/10.1080/03067310903194980>  
Special Issue: Proceedings of the 5<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment and the 11<sup>th</sup> Symposium on Chemistry and Fate of Modern Pesticides, Marseille, 22-25 October 2008.
10. Rahime Oral, Maria Kostopoulou, Marco Guida, Anastasia Nikolaou, Françoise Quiniou, Marco Trifuoggi, Ilaria Borriello, Maria Vagi, Antonello D’Ambra, Giovanni Pagano (2012). “Marine Sediment Contamination and Toxicity in Izmir Bay and Mytilene Harbor (Aegean Sea)”, *Turkish Journal of Fisheries and Aquatic Sciences.*, Vol.12, pp.: 1-2, 2012. [DOI:10.4164/1303-2712-v12\\_3\\_05](https://doi.org/10.4164/1303-2712-v12_3_05), <https://archimer.ifremer.fr/doc/00125/23600/21447.pdf>
11. Kostopoulou, M., Guida, M., Nikolaou, A., Oral, R., Trifuoggi, M., Borriello, I., Vagi, M., D’ Ambra, A., Meric, S., Pagano, G., (2013). Inorganic and organic Contamination in Sediment from Izmir Bay (Turkey) and Mytilene Harbor (Greece). *Global NEST Journal*, Vol. 15, Issue1, pp.: 57-68, 2013. [DOI: https://doi.org/10.30955/gnj.000934](https://doi.org/10.30955/gnj.000934)
12. Spyros K. Golfinopoulos, Anastasia D. Nikolaou, Nikolaos S. Thomaidis, Anna Maria Kotrikla, Maria Vagi, Andreas Petsas, Demetris F. Lekkas and Themistokles D. Lekkas (2017). “Determination of the priority substances regulated by 2000/60/EC and 2008/105/EC Directives in the surface waters supplying water treatment plants of Athens, Greece”, *Journal of Environmental Science and Health, Part A*, Vol. 52, No. 4, pp.: 378-384, 2017. <https://doi.org/10.1080/10934529.2016.1262600>
13. Petsas A.S. and Vagi M.C., (2019). “Trends in the Bioremediation of Pharmaceuticals and Other Organic Contaminants Using Native or Genetically Modified Microbial Strains: A Review”, *Current Pharmaceuticals Biotechnology*, Vol. 20, Issue 10, pp.787-824. [DOI: 10.2174/1389201020666190527113903](https://doi.org/10.2174/1389201020666190527113903).
14. M.C. Vagi, A.S. Petsas, (2020). “Recent advances on the removal of priority organochlorine and organophosphorus bioresistant pesticides defined by Directive 2013/39/EU from environmental matrices by using advanced oxidation processes: An overview (2007-2018)”, *Journal of Environmental Chemical*

*Engineering*, Volume 8, Issue 1, 2020, 102940.  
<https://doi.org/10.1016/j.jece.2019.102940>

15. Vagi MC, Petsas AS, (2020). “Recent research and trends in the removal of various toxic and persistent organic and inorganic pollutants by utilizing activated carbons as adsorbent materials prepared from waste vehicular tires: A Review, *Environmental Science, Pollution Research and Management*, Vol. 2020, Issue 01, ESPRM-101. <https://kosmospublishers.com/wp-content/uploads/2020/04/the-Removal-of-Various-Toxic-and-Persistent-Organic-and-Inorganic-Pollutants-by-Utilizing-Activated-Carbons-as-Adsorbent-Materials-Prepared-from-Waste-Vehicular-Tires.pdf>
16. MC Vagi, AS Petsas, MN Kostopoulou (2021).”Potential effects of persistent organic contaminants on marine biota: a review on recent research”, *Water* 2021, Vol 13, Issue18, 2488; <https://doi.org/10.3390/w13182488>
17. Nikolaou, A., Alexandropoulou, S., & Vagi, M. (2023). “Disinfection byproducts and related compounds in the coastal zone: a preliminary compilation”. *Preprints*, 2023, 2023061394. <https://doi.org/10.20944/preprints202306.1394.v1>
18. Maria C. Vagi , Andreas S. Petsas, Dionysia Dimitropoulou, Melpomeni Leventelli and Anastasia D. Nikolaou. (2025). “Adsorption of Methylene Blue Dye onto Various Marine Sediments and Seagrass Biomass of *Posidonia oceanica* Species: Kinetics and Equilibrium Studies” *Organics* 2025, Volume 6, Issue 2 , 21; <https://doi.org/10.3390/org6020021>

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### 5.5. Publications in conference proceedings

1. L.V.Ekateriniadou, M.A.Palaiomylitou, M.C.Vagi, E.Anastasopoulos, N.J.Panopoulos and D.A.Kyriakidis, (1996). “Purification of Ice Nucleation Protein overexpressed in *E. Coli* carrying the *inaZ* gene”. *45<sup>th</sup> Scientific Conference of the Hellenic Biochemical and Biophysical Society*, Newsletter, No 41, pp. 51-52, Patra, Greece, 10-11 May 1996.
2. L.V.Ekateriniadou, M.A.Palaiomylitou, M.C.Vagi, E.Anastasopoulos, N.J.Panopoulos and D.A.Kyriakidis, (1996). “Study of ice nucleation protein overexpressed in *E. Coli* carrying the *inaZ* gene”. *Proceedings of the 5th Cyprus - Greece Conference on Chemistry*, pp. 297-300, Nicosia, Cyprus, 4-7 September 1996. [in greek]
3. Lekkas T.D., Nikolaou A., Stasinakis A., Kotrikla A., Vagi M., Kostopoulou M., Kolokythas, Golfopoulos S., G., Thomaidis N., Petsas A., Gatidou G., Babos D., (2000). “Determination of the Substances of Catalogue II of the 76/464/EEC Directive

- in the Surface Waters of Greece”. *5<sup>th</sup> International Conference: Protection and Restoration of the Environment-V*, Vol I, pp. 163-171, Thassos, Greece, 3-6 July 2000.
4. Vagi M.C., Petsas A.S., Kostopoulou M.N., Lekkas T.D., (2000). “Monitoring of pesticide residues in the surface waters of Greece”. *5<sup>th</sup> International Conference: Protection and Restoration of the Environment-V*, Vol. I, pp 181-186, Thassos, Greece, 3-6 July 2000.
  5. Vagi M.C., Petsas A.S., Kostopoulou M.N., Lekkas T.D., (2000). “Pesticide residues in the surface waters of Greece”. *5<sup>th</sup> International Conference on Environmental Pollution*, pp. 413-419, Thessaloniki, Greece, 28 August - 1 September 2000.
  6. Vagi M.C., Petsas A.S., Kostopoulou M.N., Lekkas T.D., (2000). “Organophosphorus and organochlorine pesticides in the surface waters of Greece”. *1<sup>st</sup> European Conference on Pesticides and Related Micropollutants in the Environment*, pp. 79-83, Ioannina, Greece, 5-8 October 2000.
  7. Lekkas T., Kolokythas G., Nikolaou A., Kostopoulou M., Kotrikla A., Gatidou G., Thomaidis N., Golfopoulos S., Makri Ch., Babos D., Vagi M., Stasinakis A., Petsas A., (2001). “Existence of priority pollutants in greek surface waters and legal instruments for their protection in compliance with 76/464/EEC Directive”. *7<sup>th</sup> Conference of Environmental Studies & Technology (CEST)*, pp. 524-533, Vol. II, Syros, Greece, 3-6 September 2001.
  8. Vagi M.C., Petsas A.S., Kostopoulou M N., Lekkas T. D., (2001). “Review: Sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental matrices”. *7<sup>th</sup> Conference of Environmental Studies & Technology (CEST)*, Vol. III, pp. 565-571, Syros, Greece, 3-6 September 2001.
  9. Lekkas T., Kostopoulou M., Kolokythas G., Petsas A., Vagi M., Stasinakis A., Thomaidis N., Gatidou G., Kotrikla A., Golfopoulos S., Makri Ch., Lekkas D., Nikolaou A., (2003). “Investigation of priority pollutants belonging to the new water framework directive in the surface waters of Greece”. *4<sup>th</sup> International Conference of Environmental Technology, TEE, HELECO’ 03*, pp. 232-239, Athens, Greece, 30 January-02 February 2003.
  10. Lekkas, T., Kostopoulou, M., Kolokythas, G., Thomaidis, N., Golfopoulos, G., Kotrikla, A., Pavlogeorgatos, G., Stasinakis, A., Nikolaou, A., Gatidou, G., Petsas, A., Vagi, M., Babos, D., Lekkas, D., Makri, C.A., (2003). “Optimization of analytical methods for the determination of trace concentrations of toxic pollutants in drinking and surface waters”. *8<sup>th</sup> Conference on Environmental Science and Technology (CEST)*, Vol. A, pp. 547-556, Lemnos, Greece, 8-10 September 2003.

11. Lekkas T., Kostopoulou M., Petsas A., Vagi M., Golfinopoulos S., Stasinakis A., Thomaidis N., Pavlogeorgatos G., Kotrikla A., Gatidou G., Kolokythas G., Makri Ch., Babos, D., Lekkas D., Nikolaou A., (2003). "Monitoring toxic priority pollutants in natural and drinking waters in Greece". *3<sup>rd</sup> CCMS NATO Workshop on Management of Industrial Toxic Wastes and Substances Research: Natural and Drinking Water Contamination From Toxic And Hazardous Wastes*, pp. 62-72, Mytilene, Greece, 3-4 October 2003.
12. Vagi M.C., Petsas A.S., Kostopoulou M.N., Lekkas T.D. (2003). "Monitoring of pesticide residues in the surface waters of Greece". *XII Symposium of Pesticide Chemistry*, pp. 907-914, Piacenza, Italy, 4-6 June 2003.
13. Vagi M.C., Kostopoulou M.N., Petsas A.S., Laloussi M.E., Rasouli CH., Lekkas T.D., (2005). "Toxicity of organophosphorous pesticides to the green alga *Tetraselmis suecica*". *9<sup>th</sup> Conference on Environmental Science and Technology (CEST)*, Vol. A, pp. 1543-1547, Rhodes, Greece, 1-3 September 2005.
14. Vagi M.C., Petsas A.S., Karamanoli M.K., Kostopoulou M.N., (2005). "Determination of organochlorine pesticides in marine sediments using ultrasonic solvent extraction and soxhlet extraction followed by GC/ECD". *9<sup>th</sup> Conference on Environmental Science and Technology(CEST)*, Vol. A, pp. 1548-1553, Rhodes, Greece, 1-3 September 2005.
15. Aloupi M., Angelidis M.O., Gabriel A., Karantanelli M., Koulousaris M., Nikolaou N., Petsas A., Tsiertsis G., Vagi M., Vlatsiotou F., (2005). "Marine monitoring along the eastern coastal area of the island of Lesbos, Greece in 2004-MedPol III". (Poster presentation). *9<sup>th</sup> Conference on Environmental Science and Technology (CEST)*, Vol. B, pp. 31-38, Rhodes, Greece, 1-3 September 2005.
16. Vagi M.C., Petsas A.S., Kostopoulou M.N., Lekkas T.D., (2006). "Hydrolysis kinetics of organophosphorus pesticides in natural waters". (Poster presentation). *4<sup>th</sup> International Conference on Pesticide Behaviour in Soils, Water and Air*, p. B-23, University of Warwick, UK, 27-29 June 2006.
17. Petsas A.S., Vagi M.C., Kostopoulou M.N., Lekkas T.D., (2007). "Titanium dioxide mediated photocatalytic degradation of organophosphorous pesticides in aqueous suspensions of TiO<sub>2</sub> and TiO<sub>2</sub>-H<sub>2</sub>O<sub>2</sub>". *1<sup>st</sup> International Conference on Environmental Management, Engineering, Planning and Economics*, pp. 1425-1430, Skiathos, Greece, 24-27 June 2007.
18. Petsas A.S., Vagi M.C., Kostopoulou M.N., Pavlaki M.N., Smaragdaki M.N., Lekkas T.D., (2007). "Acute toxicity and persistence of fenthion and dimethoate in the

marine environment”. *10<sup>th</sup> Conference on Environmental Science and Technology (CEST)*, Vol. A, pp. 1160-1167, Kos, Greece, 5-7 September 2007.

19. Vagi, M.C., Petsas, A.S., Kostopoulou, M.N., Lekkas, T.D., (2008). “Adsorption and desorption processes of selected organophosphorus pesticides on three Greek agricultural soils”. (Poster Presentation). *5<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment and 11th Symposium on Chemistry and Fate of Modern Pesticides*, pp. 445-446, Marseille, France, 22-25 October 2008.
20. Pataki Z., Kitsiou D., Nitis T., Kostopoulou M., Vagi M. (2008). “Mapping of oceanographic parameters in the frame of coastal management: a case study in the Strait of Mytilene (Lesvos)”. *Proceedings of the 18th Panhellenic Meeting of the Geographic Information Systems, ArcGIS (ArcView ArcInfo ArcGis Server)*, Thessaloniki, 5-7 November 2008. [in greek]
21. Kostopoulou M., Petsas A., Vagi M., Nikolaou A., (2009). “Analytical optimizations and problems during the development of a GC-MS method for the determination of selected pharmaceuticals in aqueous samples”. *Xenobiotics in the Urban Water Cycle (XENOWAC)*, Paphos, Cyprus, 13-16 March 2009.
22. Smaragdaki N. Pavlaki M., Petsas A.S., Vagi M.C., Kostopoulou-Karadanelli M.N., (2009). “Toxicity study of selected organophosphorus pesticides towards the marine alga *Tetraselmis suecica*”. *Proceedings of the 9th Hellenic Symposium of Oceanography & Fisheries*, Vol. II, pp. 1307-1312, Patra, 13-16 May 2009. [in greek].
23. Vagi, M.C., Petsas, A.S., Kostopoulou, M.N., Lekkas, T.D., (2009). “Environmental fate and persistence of the organophosphorus pesticide disulfoton in different types of natural water”. *2<sup>nd</sup> Conference on Environmental Management, Engineering, Planning and Economics CEMEPE-SECOTOX*, pp. 575-580, Mykonos, Greece, June 21-26 2009.
24. Petsas, A.S., Vagi, M.C., Pavlaki, M.D., Smaragdaki, N.M., Kostopoulou, M.N., (2009). “Acute toxicity of selected organophosphorus pesticides to the green unicellular marine alga *Tetraselmis suecica*”. *2<sup>nd</sup> Conference on Environmental Management, Engineering, Planning and Economics CEMEPE-SECOTOX*, Mykonos, Greece, pp. 153-158, 21-26 June 2009.
25. Vagi, M.C., Petsas, A.S., Kostopoulou, M.N., Lekkas, T.D., (2009). “Adsorption and desorption processes of parathion ethyl on Greek soils”. *11<sup>th</sup> International Conference on Environmental Science and Technology (CEST)*, Chania, Greece, pp. 1478-1494, 3-5 September 2009.

26. Petsas A.S., Vagi M.C., Kostopoulou M.N., Lekkas T.D., (2009). "Photodegradation of disulfoton under sunlight radiation in different environmental matrices such as natural waters and sediments". *11<sup>th</sup> International Conference on Environmental Science and Technology (CEST)*, Chania, Greece, pp. 1136-1143, 3-5 September 2009.
27. M.C. Vagi, A.S. Petsas, M.N. Kostopoulou, T.D. Lekkas (2010). "Kinetic parameters of hydrolysis process of fenthion in different types of natural water". *PRE10: Protection and Restoration of the Environment X*, Corfu, Greece, p. 163, 5-9 July 2010.
28. A.S. Petsas, M.C. Vagi, M.N. Kostopoulou, T.D. Lekkas (2010). "Photodegradation kinetics of the organophosphorus pesticide fenthion in different types of natural water". *PESTICIDES 2010: 6<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment and 12<sup>th</sup> Symposium on Chemistry and Fate of Modern Pesticides*, Matera, Italy, pp. 411-417, 5-10 September 2010.
29. M.C. Vagi, A.S. Petsas, M.N. Kostopoulou, M.D. Pavlaki, N.M. Smaragdaki, T.D. Lekkas (2012). "Toxic effects of fenthion on growth and chlorophyll pigments production of marine unicellular microalgae *Tetraselmis suecica*". *PESTICIDES 2012: 7<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment and 13<sup>rd</sup> Symposium on Chemistry and Fate of Modern Pesticides*, Porto, Portugal, p.381, 7-10 October 2012.
30. A.S. Petsas, M.C. Vagi, M.D. Pavlaki, N.M. Smaragdaki, M.N. Kostopoulou and T.D.Lekkas. "Toxic effects of azinphos methyl and azinphos ethyl on growth and chlorophyll pigments production of marine unicellular microalgae *Tetraselmis suecica*". *13<sup>rd</sup> International Conference on Environmental Science and Technology (CEST)*, Athens, Greece, 5-7 September 2013.
31. A.S. Petsas, M.C. Vagi, M.N. Kostopoulou, and T. D. Lekkas. "Photocatalytic degradation of the organophosphorus pesticide fenthion in aqueous suspensions of  $\text{TiO}_2$  under uv irradiation". *13<sup>rd</sup> International Conference on Environmental Science and Technology (CEST)*, Athens, Greece, 5-7 September 2013.
32. Andreas Petsas, Maria Vagi, Anastasia Nikolaou, Maria Kostopoulou. "Trends in the analysis of pollutant transformation products in the marine environment". *13<sup>rd</sup> International Conference on Environmental Science and Technology (CEST)*, Athens, Greece, 5-7 September 2013.
33. Golfinopoulos S.K., Nikolaou A.D., Thomaidis N.S., Stasinakis A., Kotrikla A., Gatidou G.M., Vagi M., Petsas A., Lekkas D.F., Makri C. and Lekkas T.D. "The occurrence of priority substances regulated by 76/464/EEC and 2000/60/EC WFD Directives in the surface waters supplying water treatment plants of Athens, Greece". *14<sup>th</sup> International*

*Conference on Environmental Science and Technology (CEST)*, Rhodes, Greece, 3-5 September 2015.

34. Petsas A.S. and Vagi M.C. (2017). "Determination of pesticides residues in food of vegetal origin: sample preparation, chromatographic techniques and applications". 15<sup>th</sup> *International Conference on Environmental Science and Technology (CEST)*, Rhodes, Greece, 31 August-2 September 2017, CEST2017\_01226.
35. Vagi M.C. and Petsas A.S. (2017). "Advanced Oxidation Processes for the Removal of Pesticides from Wastewater: Recent review and trends". 15<sup>th</sup> *International Conference on Environmental Science and Technology (CEST)*, Rhodes, Greece, 31 August-2 September 2017, CEST2017\_01225.
36. M.C. Vagi and A.S. Petsas, (2019). "Adsorption technology in waste water treatment processes utilizing activated carbons as adsorbent materials prepared from waste tires: Recent research and trends in the removal of various toxic and persistent organic pollutants". 16<sup>th</sup> *International Conference on Environmental Science and Technology (CEST2019)*, 4-7 September 2019, Rhodes, Greece.
37. Petsas A.S. and Maria C. Vagi (2019). "The use of recycled human food wastes and unconsumed leftovers in the aquaculture industry for the partial replacement of commercial manufactured fishmeal-based feeds as a more sustainable and environmentally friendly practice: Recent research and findings". 16<sup>th</sup> *International Conference on Environmental Science and Technology (CEST2019)*, 4-7 September 2019, Rhodes, Greece.
38. Kafes A., Nikolaou A., Vagi M., Kostopoulou M. (2021). "Increased use of antiseptics due to COVID19: a case study in Greece - anticipated effects on the marine environment. 17<sup>th</sup> *International Conference on Environmental Science and Technology (CEST2021)*, 1-4 September 2021, Athens, Greece. DOI: <https://doi.org/10.30955/gnc2021.00837>
39. Tzourtzoukli H., Petsas A., Vagi M. (2021) "The presence of organochlorinated pesticides in the marine environment of the Mediterranean Sea: A Systematic Review". 17<sup>th</sup> *International Conference on Environmental Science and Technology (CEST2021)*, 1-4 September 2021, Athens, Greece. DOI: <https://doi.org/10.30955/gnc2021.00241>
40. Alexandropoulou S., (Corresponding) Nikolaou A., Vagi M. (2021). "Disinfection byproducts and related compounds in the coastal zone: a preliminary compilation". 17<sup>th</sup> *International Conference on Environmental Science and Technology (CEST2021)*, 1-4 September 2021, Athens, Greece. DOI: <https://doi.org/10.30955/gnc2021.00834>
41. Zervakis, Vassilis & Ntziachristos, Leonidas & Moustaka-Gouni, Maria & Gondikas, Andreas & Kukkonen, Jaakko & Genitsaris, Savvas & Barmpas, Fotios & Chatzilaou, Christos & Kalatzi, Maria Ignatia & Kolovoyiannis, Vassilis & Kourkoutmani, Polyxeni &

- Krasakopoulou, Evangelia & Kougioumtzoglou, Filitsa & Mamoutos, Ioannis & Mazioti, Aikaterini & Petalas, Stamatios & Potiris, Manos & Stefanidou, Natassa & Tragou, Elina & Vagi, Maria. (2022). "Assessing the Marine Scrubbers' Impact on the Saronikos Gulf Marine Ecosystem Through the Project EMERGE". Marine and Inland Waters Research Symposium 2022, September 2022, Conference: Marine and Inland Waters Research Symposium, At: Porto Heli, Argolida, Greece.
42. Vagi, M. C., Leventelli, M., & Petsas, A.S. (2023). "Adsorption-desorption of methylene blue dye onto marine sediments: Kinetics and equilibrium studies". *18<sup>th</sup> International Conference on Environmental Science and Technology, Athens, Greece, 30 August to 2 September 2023*. DOI: <https://doi.org/10.30955/gnc2023.00467>
43. Vagi, M. C., Ntatsi, N., & Petsas, A.S. (2023). Ecotoxicological impacts of pharmaceuticals on marine biota: A Systematic Review. *18<sup>th</sup> International Conference on Environmental Science and Technology, Athens, Greece, 30 August to 2 September 2023*. DOI: <https://doi.org/10.30955/gnc2023.00390>
44. Zervakis V.\*, Tragou E., Krasakopoulou E., Kolovoyiannis V., Mamoutos I. G., Androulidakis I., Mazioti A. A., Potiris E., Kougioumtzoglou R. F., Mosiou K., Kalatzi M. I., Chaniotaki M. E., Chatzilaou Ch., Vagi M., Petalas S. (2023) "The Development and Implementation of an Environmental Coastal Observatory focused on semi-enclosed Gulfs" *18<sup>th</sup> International Conference on Environmental Science and Technology (CEST2023), Athens, Greece, 30 August to 2 September 2023*. DOI: <https://doi.org/10.30955/gnc2023.00280>.
45. Kekiari E, Nikolaou A, & Vagi M. (2024). "Cosmetics in the marine environment: toxicity and a preliminary survey". *5<sup>th</sup> International Congress on Applied Ichthyology, Oceanography & Aquatic Environment, HydroMediT2024, 30 May-2 June 2024, Mytilene, Greece*. [https://hydromedit.gr/wp-content/uploads/2024/07/HydroMediT2024\\_Proceedings\\_Book-2.pdf](https://hydromedit.gr/wp-content/uploads/2024/07/HydroMediT2024_Proceedings_Book-2.pdf)
46. Pappou S., Batzakas I., Papadaki S., Valsamidis M.A., Vagi M. & Bakopoulos V. (2024). "Effects of algal dietary supplementation on the muscle biochemical composition and fatty acids of *Dicentrarchus labrax* fingerlinks". *5<sup>th</sup> International Congress on Applied Ichthyology, Oceanography & Aquatic Environment, HydroMediT2024, 30 May-2 June 2024, Mytilene, Greece*.
47. Stathouros, A., Vagi, M. C., & Petsas, A.S. (2024). "Adsorption kinetic studies of methylene blue dye onto various carbon-based adsorbent materials". *5<sup>th</sup> International Congress on Applied Ichthyology, Oceanography & Aquatic Environment, HydroMediT2024, 30 May-2 June 2024, Mytilene, Greece*.

48. Wu H., Nikolaou A., Vagi M. (2025). “A preliminary approach for the detection of marine pollutants by UV spectroscopy - application to seawater samples from Mytilene, Greece”. 19<sup>th</sup> *International Conference on Environmental Science and Technology* (CEST2025), Kos, Greece, 3 to 6 September 2025.