

Stergiani (Stella) Ordoudi

Assoc. Professor/Food Scientist, PhD

Laboratory of Oenology & Alcoholic Beverages, School of Agriculture, Aristotle University of Thessaloniki Thermi-Thessaloniki, GR-57001, Greece e-mail: steord@agro.auth.gr

EDUCATION

22 0 0.111011	
Ph.D in Chemistry (School of Chemistry, Aristotle University of Thessaloniki) Thesis: "Phenolic acids as natural inhibitors of oxidation: Assessment of activity, prospects for exploitation in functional	2003-2006 foods"
M.Sc. in Food Chemistry and Technology (School of Chemistry, Aristotle University of Thessaloniki) Thesis:	2001-2003
"Detection of saffron adulteration with red food colorants"	
B.Sc. in Chemistry (School of Chemistry, Aristotle University of Thessaloniki)	1996-2001
TRAINING & NETWORKING ACTIVITIES	
raining school in Spectroscopy (COST CA19145, Nofima, Campus Ås, Norway)	12-14/09/2023
Short Term Scientific Mission (STSM) within the frame of COST CA19145 entitled as "Advanced chemometric	06-27/07/2021
approaches in non-targeted FT-IR spectroscopy for olive oil quality and authenticity testing" (Department of	
Chemical and and Geological Sciences, University of Modena and Reggio Emilia, Modena, Italy) nternational workshop "Smart Spectral Sensors for Agri-Food Quality and Process Control", (COST 19145, Porto,	30.09-01/10/2021
Portugal, online)	30.09-01/10/2021
Vorkshop "Metrology and traceability – Applications in the food sector" (IMEKOFOODS (TC23) 3rd International	1-4/10/2017
Conference, Thessaloniki, Greece)	
raining school in Saffron Proteomics (COST FA1101, Parma, Italy)	23-25/09/2014
ntensive Training Course in "Laboratory accreditation issues according to the standard EN ISO/IEC 17025:2005: Validation / Verification, Uncertainty, Calibration, Internal Audit Quality Inspections"	28/03-12/04/2014
raining seminar in business planning (40 hours) & guidance (12 hours) in the frame of "Business Idea Competion" Department of Economics, AUTh, Thessaloniki)	6/09-29/11/2013
Short Term Scientific Mission (STSM) within the frame of COST FA1101 entitled as "Meta-analysis of NMR data using chemometrics for assessment of age-related biomarkers in saffron" (NMR Laboratory, Institute for the study of Macromolecules (ISMAC), Milan, Italy)	01-08/12/2013
U Seminar on Saffronomics (COST FA1101, Cuenca, Spain)	07-09/11/2012
Post-doctoral research (Characterization of saffron extract composition using NMR techniques) (NMR Center, University of Ioannina, Greece)	01/07-30/09/2010
Workshop on Antioxidant Measurement Assay Methods", (IUPAC, Instabul, Turkey) Socrates-Erasmus postgraduate fellowship (Cátedra de Química Agricola, E.T.S. de Ingenieros Agrónomos, Universidad de Castilla-La Mancha, Albacete, Spain)	21/04/2010 01/10 - 31/12/2003
International advanced course on "Chemistry and Biochemistry of Antioxidants" (Department of Toxicology and Biochemistry-VLAG school, University of Wageningen, The Netherlands)	24-30/11/2002
PROFESSIONAL TEACHING EXPERIENCE	
eaching Research Staff-Assoc. Professor, School of Agriculture, Aristotle University of Thessaloniki	2024-
aboratory Teaching Staff & Research Associate, School of Chemistry, Aristotle University of Thessaloniki reaching assistant-Lecturer, Faculty of Food Technology and Nutrition, Technological Educational Institute of Thessaloniki	2014-2024 2008-2010
reaching assistant & Research Associate, Laboratory of Food Chem. & Tech., School of Chemistry, Aristotle University of Thessaloniki	2002-2006
PROFESSIONAL RESEARCH EXPERIENCE	
METROFOOD-EPI (Early Phase Implementation) funded by EU (Horizon 2020)	01/2024-12/2024
ISO Trade Standard specifications and quality improvement of "Krokos Kozanis" product" knowledge transfer	11/2022-11/202
project - contract -Cooperative of Greek Saffron Producers Development of edible olives conforming to a low-salt diet, FILELIA" funded by Regional Development funds of Central Macedonia Region (Greece)	06/2022-02/202
Development of innovative, carbonated natural mineral Souroti spring water products enriched with herbal extracts of Macedonian land, NIRON HYDOR" funded by Regional Development funds of Central Macedonia	10/2021-10/202
Development of innovative, carbonated natural mineral Souroti spring water products enriched with herbal extracts of Macedonian land, NIRON HYDOR" funded by Regional Development funds of Central Macedonia Region (Greece)	10/2021-10/2023 01/2020-05/2023
Development of innovative, carbonated natural mineral Souroti spring water products enriched with herbal extracts of Macedonian land, NIRON HYDOR" funded by Regional Development funds of Central Macedonia	

"Advanced solutions for assuring the overall authenticity and quality of olive oil-OLEUM" funded by EU (Horizon 2020)	09-12/2020
"Exploitation of aromatic and medicinal plants of Greek Flora, AROMADISTIL" co-funded by EU and Greek national funds (EPAnEK)	05-12/2020
"Physicochemical examination of avocado from the Region of Crete for investigating a quality-geographical indication relationship" funded by the Region of Crete	05/2018-08/2020
"Quality control of saffron products", knowledge transfer project contract (Ingenieurburo DiplIng. Agr. Christian Strunden, Switzerland)	09/2019 –03/2020
"PRO-METROFOOD Progressing towards the construction of METROFOOD-RI" funded by EU (Horizon 2020) "Guide to Good Hygiene Practices in the production process of the PDO "Krokos Kozanis" knowledge transfer project contract - Cooperative of Greek Saffron Producers	04-12/2017 11/2015
"Updating Quality Standards for the PDO "Krokos Kozanis" knowledge transfer project - contract -Cooperative of Greek Saffron Producers	11/2015
"Bioaccessibility study of constituents of herbal teas produced by Krokus Kozanis Products" knowledge transfer project contract -Krocus Kozanis Products S.A.Enterprise	02/2013-01/2014
"COST ACTION FA 1101. SAFFRONOMICS: Omics Technologies for Crop Improvement, Traceability, Determination of Authenticity, Adulteration and Origin in Saffron" funded by EU	2011-2015
"Crocusbank: Genetic resources of saffron and allies" funded by EU (AGRI GEN RES 870/2004) "Development of novel meat products based on plant-derived raw materials" knowledge transfer project contract - Nikas S.A. Enterprise	06/2007- 05/2011 03 -09/2006
"Saffron adulteration by colour additives: developing an antifraud methology" funded by EU (G6ST-CT-2000-	2002-2004
00233) "Analytical protocol for the analysis of olive oil to detect adulteration with hazelnut oil" funded by the University of Reading (United Kingdom)	10/2002
OTHER SCIENTIFIC ACTIVITIES	
Editorial Board Member in the peer-reviewed Journal "Applied Spectroscopy Reviews" (Q1 in the spectroscopy field)	2024
by Taylor and Francis	
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal	28-31.08.2022
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece)	28-31.08.2022
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-	
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece)	28-31.08.2022
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-	28-31.08.2022 09/03/2022
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students	28-31.08.2022 09/03/2022
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece) Trainer in the Summer school on Natural Products: Chemistry, Biological Activities & Technological Applications (Structure-	28-31.08.2022 09/03/2022 2021-
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece)	28-31.08.2022 09/03/2022 2021- 2019-
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece) Trainer in the Summer school on Natural Products: Chemistry, Biological Activities & Technological Applications (Structure-antioxidant activity relationships) (Thessaloniki, Greece) Peer reviewer in collaboration with several academic journals (Elsevier, American Chemical Society, MDPI) Co-leader of a Working Group in the frame of the Action COST FA1101: Saffron-Omics "Omics Technologies for Crop	28-31.08.2022 09/03/2022 2021- 2019- 28/04/2018
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece) Trainer in the Summer school on Natural Products: Chemistry, Biological Activities & Technological Applications (Structure-antioxidant activity relationships) (Thessaloniki, Greece) Peer reviewer in collaboration with several academic journals (Elsevier, American Chemical Society, MDPI) Co-leader of a Working Group in the frame of the Action COST FA1101: Saffron-Omics "Omics Technologies for Crop Improvement, Traceability, Determination of Authenticity, Adulteration and Origin in Saffron"	28-31.08.2022 09/03/2022 2021- 2019- 28/04/2018 2016 - 2011-2015
by Taylor and Francis Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece) Trainer in the Summer school on Natural Products: Chemistry, Biological Activities & Technological Applications (Structure-antioxidant activity relationships) (Thessaloniki, Greece) Peer reviewer in collaboration with several academic journals (Elsevier, American Chemical Society, MDPI) Co-leader of a Working Group in the frame of the Action COST FA1101: Saffron-Omics "Omics Technologies for Crop Improvement, Traceability, Determination of Authenticity, Adulteration and Origin in Saffron" Co-organiser of a Workshop for members of the Action COST FA1101: Saffron-Omics entitled as "Advances in molecular	28-31.08.2022 09/03/2022 2021- 2019- 28/04/2018 2016 -
Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece) Trainer in the Summer school on Natural Products: Chemistry, Biological Activities & Technological Applications (Structure-antioxidant activity relationships) (Thessaloniki, Greece) Peer reviewer in collaboration with several academic journals (Elsevier, American Chemical Society, MDPI) Co-leader of a Working Group in the frame of the Action COST FA1101: Saffron-Omics "Omics Technologies for Crop Improvement, Traceability, Determination of Authenticity, Adulteration and Origin in Saffron" Co-organiser of a Workshop for members of the Action COST FA1101: Saffron-Omics entitled as "Advances in molecular and phytochemical fingerprinting for traceability and authenticity of saffron" (Thessaloniki, Greece)	28-31.08.2022 09/03/2022 2021- 2019- 28/04/2018 2016 - 2011-2015 14-15/05/2015
Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece) Trainer in the Summer school on Natural Products: Chemistry, Biological Activities & Technological Applications (Structure-antioxidant activity relationships) (Thessaloniki, Greece) Peer reviewer in collaboration with several academic journals (Elsevier, American Chemical Society, MDPI) Co-leader of a Working Group in the frame of the Action COST FA1101: Saffron-Omics "Omics Technologies for Crop Improvement, Traceability, Determination of Authenticity, Adulteration and Origin in Saffron" Co-organiser of a Workshop for members of the Action COST FA1101: Saffron-Omics entitled as "Advances in molecular and phytochemical fingerprinting for traceability and authenticity of saffron" (Thessaloniki, Greece) Member of the Scientific Committee of the 2nd Annual Conference of the COST FA1101 Action: Saffronomics	28-31.08.2022 09/03/2022 2021- 2019- 28/04/2018 2016 - 2011-2015
Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece) Trainer in the Summer school on Natural Products: Chemistry, Biological Activities & Technological Applications (Structure-antioxidant activity relationships) (Thessaloniki, Greece) Peer reviewer in collaboration with several academic journals (Elsevier, American Chemical Society, MDPI) Co-leader of a Working Group in the frame of the Action COST FA1101: Saffron-Omics "Omics Technologies for Crop Improvement, Traceability, Determination of Authenticity, Adulteration and Origin in Saffron" Co-organiser of a Workshop for members of the Action COST FA1101: Saffron-Omics entitled as "Advances in molecular and phytochemical fingerprinting for traceability and authenticity of saffron" (Thessaloniki, Greece) Member of the Scientific Committee of the 2nd Annual Conference of the COST FA1101 Action: Saffronomics (Waggeningen, The Netherlands)	28-31.08.2022 09/03/2022 2021- 2019- 28/04/2018 2016 - 2011-2015 14-15/05/2015 02-03/10/2014
Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece) Trainer in the Summer school on Natural Products: Chemistry, Biological Activities & Technological Applications (Structure-antioxidant activity relationships) (Thessaloniki, Greece) Peer reviewer in collaboration with several academic journals (Elsevier, American Chemical Society, MDPI) Co-leader of a Working Group in the frame of the Action COST FA1101: Saffron-Omics "Omics Technologies for Crop Improvement, Traceability, Determination of Authenticity, Adulteration and Origin in Saffron" Co-organiser of a Workshop for members of the Action COST FA1101: Saffron-Omics entitled as "Advances in molecular and phytochemical fingerprinting for traceability and authenticity of saffron" (Thessaloniki, Greece) Member of the Scientific Committee of the 2nd Annual Conference of the COST FA1101 Action: Saffronomics (Waggeningen, The Netherlands) Oral presentations (invited by the Cooperative of Saffron Producers of Kozani) in several educational events aiming at	28-31.08.2022 09/03/2022 2021- 2019- 28/04/2018 2016 - 2011-2015 14-15/05/2015
Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece) Trainer in the Summer school on Natural Products: Chemistry, Biological Activities & Technological Applications (Structure-antioxidant activity relationships) (Thessaloniki, Greece) Peer reviewer in collaboration with several academic journals (Elsevier, American Chemical Society, MDPI) Co-leader of a Working Group in the frame of the Action COST FA1101: Saffron-Omics "Omics Technologies for Crop Improvement, Traceability, Determination of Authenticity, Adulteration and Origin in Saffron" Co-organiser of a Workshop for members of the Action COST FA1101: Saffron-Omics entitled as "Advances in molecular and phytochemical fingerprinting for traceability and authenticity of saffron" (Thessaloniki, Greece) Member of the Scientific Committee of the 2nd Annual Conference of the COST FA1101 Action: Saffronomics (Waggeningen, The Netherlands)	28-31.08.2022 09/03/2022 2021- 2019- 28/04/2018 2016 - 2011-2015 14-15/05/2015 02-03/10/2014
Member of the Scientific Committee of the 70th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (Dept. Chem. Eng. AUTH/GA Soc., Thessaloniki, Greece) Coordinator of the "1st Webinar on Food Metrology-Food Authenticity" held by the Greek Node of the METROFOOD-RI (Greece) Local chair of the Organizing Committee of the annual Chemistry Conference of Postgraduate and Pregraduate students of AUTh (Thessaloniki, Greece) Member of the research network "Natural Products Research Centre of Excellence-AUTH" (http://kedek.auth.gr/?q=el/node/1071) (Thessaloniki, Greece) Trainer in the Summer school on Natural Products: Chemistry, Biological Activities & Technological Applications (Structure-antioxidant activity relationships) (Thessaloniki, Greece) Peer reviewer in collaboration with several academic journals (Elsevier, American Chemical Society, MDPI) Co-leader of a Working Group in the frame of the Action COST FA1101: Saffron-Omics "Omics Technologies for Crop Improvement, Traceability, Determination of Authenticity, Adulteration and Origin in Saffron" Co-organiser of a Workshop for members of the Action COST FA1101: Saffron-Omics entitled as "Advances in molecular and phytochemical fingerprinting for traceability and authenticity of saffron" (Thessaloniki, Greece) Member of the Scientific Committee of the 2nd Annual Conference of the COST FA1101 Action: Saffronomics (Waggeningen, The Netherlands) Oral presentations (invited by the Cooperative of Saffron Producers of Kozani) in several educational events aiming at familiarizing pupils and young people with saffron quality, authenticity and biological properties	28-31.08.2022 09/03/2022 2021- 2019- 28/04/2018 2016 - 2011-2015 14-15/05/2015 02-03/10/2014 2008-2013

RESEARCH INTERESTS AND TECHNICAL SKILLS

Spectroscopic methods (FT-MIR, NIR, NMR, FL) for the quality and authenticity control of natural products (saffron, essential oils, olive oil, fruit wines-vinegars)

Studies on **natural antioxidants** and **natural colorants** (analysis-extraction-stability), **structure-antioxidant activity** relationships Hands-on experience in using spectrometers (UV-Vis, FL, FT-IR, NMR), chromatographic systems (HPLC-DAD-FL, LC-MS, GC-FID/MS),

extraction systems (SPE)

Chemometric methods (PCA, SIMCA, PLS-DA, OPLS-DA, PLS-R) and statistical software SPSS, SIMCA-P, Multibase 2015

Chemometric methods (PCA, SIMCA, PLS-DA, OPLS-DA, PLS-R) and statistical software SPSS, SIMCA-P, Multibase 2015 Language knowledge: English (Proficiency), Spanish (Elementary)

Cultivation, Research and Economics) (Krokos Kozanis, Greece)

PUBLICATIONS / BOOKS

FULL RESEARCH PROFILE AVAILABLE AT HTTPS://www.researchgate.net/profile/Stella-Ordoudi

ARTICLES IN PEER-REVIEWED JOURNALS: 40

CHAPTERS IN BOOKS & ENCYCLOPEDIAS: 5

REFEREED CONFERENCE COMMUNICATIONS & PUBLICATIONS:>90

LIST OF PUBLICATIONS

- 1. I Pyrka, S Stefanidis, SA Ordoudi, S Lalou, N Nenadis Oxidative Stability of Virgin Avocado Oil Enriched with Avocado Leaves and Olive-Fruit-Processing By-Products (Leaves, Pomace) via Ultrasound-Assisted Maceration, Foods (2025) 14, 294
- 2. <u>S.A. Ordoudi*</u>, M.Z. Tsimidou, **Building a database for the quality characteristics of the Protected Designation of Origin saffron Krokos Kozanis, considering international trade requirements,** *Exploration of Foods and Foodomics***, (2024) 2, 236-251, open access DOI: https://doi.org/10.37349/eff.2024.00036**
- 3. T. Bintsis*, F.T. Mantzouridou, S. Lalou, P. Alvanoudi, <u>S.A. Ordoudi</u>, A.S. Angelidis, D. Fletouris, **Comparative analysis of chemical**, microbiological, sensory and volatile compound profiles in manouri PDO and artisanal manouri cheeses: a preliminary study. *Food and Bioprocess Technology* (2024) 1-15, open access DOI: 10.1007/s11947-024-03333-z
- 4. <u>S.A. Ordoudi*</u>, C. Ricci, G. Imparato, M. Chroni, A. Nucara, A. Gerardino, F.R. Bertani, **A non-invasive**, sensor-based approach to exploit the autofluorescence of saffron (Crocus sativus L.) for on-site evaluation of aging. *Food Chemistry*, (2024) 455, 139822-139822, open access
- 5. S. Lalou, <u>S.A. Ordoudi</u>, F.T. Mantzouridou*, **Evaluation of safety and quality parameters of persimmon balsamic-type vinegar during multistarter culture fermentation and accelerated aging with oak chips**, *Food Bioscience*, (**2024**) 57, 103526, open access DOI: 10.1016/j.fbio.2023.103526
- 6. S. Stefanidis, S.A. Ordoudi, N. Nenadis, I. Pyrka, Improving the functionality of virgin and cold-pressed edible vegetable oils: Oxidative stability, sensory acceptability and safety challenges, Food Research International, (2023) 174, 113599, DOI: 10.1016/i.foodres.2023.113599
- 7. P. Alvanoudi, <u>S.A. Ordoudi</u>, A. Nakas, A.N. Assimopoulou, Fani Th. Mantzouridou*, **Brine volatilome changes along the spontaneous fermentation of Spanish-style cv. Chalkidiki green olives under high and low NaCl conditions** *Food and Bioprocess Technology* (2023), open access DOI: 10.1007/s11947-023-03211-0
- 8. F. Kokkinaki, <u>S.A. Ordoudi</u>*, **Insights to the FT-IR spectral fingerprints of saffron (Crocus sativus L.) after gentle drying treatments**Food and Bioprocess Technology **(2023)** open access DOI:10.1007/s11947-023-03119-9
- 9. <u>S.A. Ordoudi*</u>, L. Strani, M. Cocchi, Toward the Non-Targeted Detection of Adulterated Virgin Olive Oil with Edible Oils via FTIR Spectroscopy & Chemometrics: Research Methodology Trends, Gaps and Future Perspectives Molecules (2023), 28, 337 (Special Issue Chemometric and Spectroscopic Methods in Food Analysis) open access DOI: 10.3390/molecules28010337
- 10. <u>S.A. Ordoudi</u>, O. Özdikicierler, M.Z. Tsimidou*, **Detection of ternary mixtures of virgin olive oil with canola, hazelnut or safflower oils via non-targeted ATR-FTIR fingerprinting and chemometrics** Food Control (**2022**) 142, 109240 DOI: 10.1016/j.foodcont.2022.109240
- 11. G.A. Papadopoulos*, S. Lioliopoulou, <u>S.A. Ordoudi</u>, I. Giannenas, V. Van Hoeck, D. Morisset, G. Arsenos, P. Fortomaris, F.T. Mantzouridou, **Xylanase Supplementation in Wheat-Based Diets of Laying Hens Affects the Egg Yolk Color, Carotenoid and Fatty Acid Profiles** Foods (**2022**) 11, 2209 open access DOI: 10.3390/foods11152209
- 12. <u>S.A. Ordoudi, M. Papapostolou, N. Nenadis, F. Th. Mantzouridou, M.Z. Tsimidou*, Bay Laurel (Laurus nobilis L.) Essential Oil as a Food Preservative Source: Chemistry, Quality Control, Activity Assessment, and Applications to Olive Industry Products Foods (2022) 11, 752 (Special Issue *Natural Bioactive Compounds and Foods of the Mediterranean Diet*) open access DOI: 10.3390/foods11050752</u>
- 13. M.Z. Tsimidou*, S.A. Ordoudi, F.Th. Mantzouridou, N. Nenadis, T. Stelzl, M. Rychlik, N. Belc, C. Zoani, Strategic Priorities of the Scientific Plan of the European Research Infrastructure METROFOOD-RI for Promoting Metrology in Food and Nutrition Foods (2022) 11, 599 open access DOI: 10.3390/foods11040599
- 14. N. Tziolas, S.A. Ordoudi, A. Tavlaridis, K. Karyotis, G. Zalidis, I. Mourtzinos*, Rapid Assessment of Anthocyanins Content of Onion Waste through Visible-Near-Short-Wave and Mid-Infrared Spectroscopy Combined with Machine Learning Techniques. Sustain. (2021) 13, 6588 (Special Issue A Sustainable Approach in Food Science and Technology Aspects) open access DOI: 10.3390/su13126588
- 15. S. Lalou, <u>S.A. Ordoudi</u>*, Fani Th. Mantzouridou*, **On the effect of microwave heating on quality characteristics and functional properties of Persimmon juice and its residue** Foods (**2021**) 10, 2650 (Special Issue Natural Carotenoids as Functional Food Ingredients) open access DOI:10.3390/foods10112650
- 16. <u>S.A Ordoudi</u>, M. Papapostolou, S. Kokkini, M.Z. Tsimidou*, **Diagnostic Potential of FT-IR Fingerprinting in Botanical Origin Evaluation of Laurus nobilis L. Essential Oil is Supported by GC-FID-MS Data**, Molecules (**2020**) 25, 583
- 17. <u>S.A Ordoudi</u>, M. T. Pastor Ferriz, A. Kyriakoudi, R. V. Molina, M. De Los Mozos Pascual, M. Z. Tsimidou*, **Physicochemical** characterization of *Crocus serotinus* stigmas indicates their potential as a source of the bioactive apocarotenoid crocetin, Eur. J. Lipid Sci. Technol (2019) 121, 1900011
- 18. <u>S.A. Ordoudi*</u>, Ch. Bakirtzi, M.Z. Tsimidou, The potential of tree fruit stone and seed wastes in Greece as sources of bioactive ingredients Recycling (2018) 3, 9 open access
- 19. <u>S. A. Ordoudi</u>, Ch. Staikidou, A. Kyriakoudi, M.Z. Tsimidou*, **A stepwise approach for the detection of carminic acid in saffron with regard to religious food certification**, Food Chem (**2018**), 267, 410-419, DOI: 10.1016/j.foodchem.2017.04.096
- 20. <u>S.A. Ordoudi</u>, L.R. Cagliani, D. Melidou, M.Z. Tsimidou*, R. Consonni, **Uncovering a challenging case of adulterated commercial saffron** Food Cont. (2017) 81, 147-155
- 21. I. Bosmali, <u>S.A. Ordoudi</u>, M.Z. Tsimidou, P. Madesis*, **Greek PDO saffron authentication studies using species specific molecular markers**, Food Res Int. (**2017**) 100, 899-907
- 22. R. Consonni*, S.A. Ordoudi, L.R. Cagliani, M. Tsiangali, M.Z. Tsimidou, On the traceability of commercial saffron samples using 1H-NMR and FT-IR metabolomics, *Molecules* (2016) 21, 286
- 23. T. Chatzimitakos, V. Exarchou*, <u>S.A. Ordoudi</u>, Y. Fiamegos, C. Stalikas, **lon-pair assisted extraction followed by 1H NMR determination of biogenic amines in food and biological matrices**, *Food Chem.* (2016), 202, 445-450
- 24. G. Paredi, S. Raboni, F. Marchesani, <u>S.A. Ordoudi</u>, M.Z. Tsimidou, A. Mozzarelli*, **Insight of saffron proteome by Gel Electrophoresis**, *Molecules* (**2016**) 21,167
- 25. <u>S.A. Ordoudi</u>, A. Kyriakoudi, M.Z. Tsimidou*, Enhanced bioaccessibility of crocetin sugar esters from saffron in infusions rich in natural phenolic antioxidants, *Molecules* (2015), 20, 17760-17774
- 26. <u>S.A. Ordoudi</u>, L.R. Cagliani, S. Lalou, E. Naziri, M.Z. Tsimidou, R. Consonni*, **1H NMR-based metabolomics of saffron reveals markers** for its quality deterioration, *Food Res. Int.* (**2015**) 70, 1-6

- 27. A. Kyriakoudi, S.A. Ordoudi, M. Roldan-Medina, M.Z. Tsimidou*, Saffron, a functional spice, Austin J Nutri Food Sci. (2015) 3, 1059, open access
- 28. <u>S. A. Ordoudi*</u>, F. Mantzouridou, E. Daftsiou, C. Malo, E. Hatzidimitriou, N. Nenadis, M.Z. Tsimidou, **Pomegranate juice functional constituents after alcoholic and acetic acid fermentation**, *J Func Foods*, (**2014**) 8, 161-168
- 29. <u>S. A. Ordoudi</u>, M. de los Mozos Pascual, M.Z. Tsimidou*, **On the quality control of traded saffron by means of transmission Fourier-transform mid-infrared (FT-MIR) spectroscopy and chemometrics**, *Food Chem*, **(2014)** 150, 414-421
- 30. O. Bountagkidou, E.J.C. Van der Klift, M.Z. Tsimidou, <u>S.A. Ordoudi</u>, T.A. Van Beek*, **An on-line high performance liquid** chromatography-crocin bleaching assay for detection of antioxidants *J Chrom A*, (2012) 1237, 80-85
- 31. <u>S.A. Ordoudi, M.Z. Tsimidou*, Consideration of fluorescence properties for the direct determination of erythrosine in saffron in the presence of other synthetic dyes. Food Addit. Contam. A (2011) 28, 417-422.</u>
- 32. <u>S.A. Ordoudi, S.K. Tsermentseli, N. Nenadis, M. Tsimidou*, V.P. Papageorgiou, Structure-radical scavenging activity relationship of Alkannin/Shikonin derivatives Food Chem. (2011)</u> 124, 171-176.
- 33. O.G. Bountagkidou, <u>S.A. Ordoudi</u>, M.Z. Tsimidou*, **Structure-antioxidant activity relationship study of natural hydroxybenzaldehydes using in vitro assays** *Food Res Int.* **(2010)** 43, 2014-2019.
- 34. <u>S.A. Ordoudi</u>, C.D. Befani, N. Nenadis, G.G. Koliakos and M.Z. Tsimidou*, **Further examination of antiradical properties of** *Crocus sativus* stigmas extract rich in crocins *J. Agric. Food Chem* (2009), 57, 3080–3086.
- 35. A.M. Sanchez, M. Carmona, S.A. Ordoudi, M.Z. Tsimidou and G.L. Alonso*, Kinetics of individual crocetin ester degradation in aqueous extracts of saffron (*Crocus sativus* L.) upon thermal treatment in the dark *J. Agric. Food Chem* (2008) 56, 1627-1637.
- 36. S. A. Ordoudi, M.Z. Tsimidou*, Crocin bleaching assay (CBA) in structure-radical scavenging activity studies of selected phenolic acids. J. Agric. Food Chem (2006) 54, 9347-9356
- 37. <u>S. A. Ordoudi, M.Z. Tsimidou*, A.P. Vafiadis and E. G. Bakalbassis.</u> **Structure-DPPH scavenging activity relationships: Parallel study of catechol and guaiacol acid derivatives.** *J. Agric. Food Chem* **(2006)** 54, 5763-5768
- 38. <u>S. A. Ordoudi</u> and M.Z. Tsimidou*. Crocin- bleaching assay step by step: observations and suggestions for an alternative validated protocol *J. Agric. Food Chem* (2006) 54, 1663-1671
- 39. A. Zalacain*, <u>S. A. Ordoudi</u>, E.Ma Diaz-Plaza, M. Carmona, I. Blazquez, M. Z. Tsimidou, G. L. Alonso, **Near-Infrared spectroscopy in saffron quality control: Determination of chemical composition and geographical origin**, *J. Agric. Food Chem* (2005) 53 9337-9341
- 40. A. Zalacain*, <u>S. A. Ordoudi</u>, I. Blazquez, E.Ma Diaz-Plaza, M. Carmona, M. Z. Tsimidou, G. L. Alonso, **Screening method for artificial colorants in saffron using derivative UV-Vis spectrometry after precipitation of crocins**, *Food Add. Contam.* (2005) 22, 607-615

CHAPTERS IN BOOKS:

- S.A. Ordoudi and M.Z. Tsimidou, Fourier Transform Infrared spectroscopy (FT-IR) for monitoring changes in saffron apocarotenoids upon storage in Carotenoid Analysis Methods and Protocols in Food Protocols, Meléndez Martinez A.J. (Ed.) Humana Press, Springer Science + Business Media, New York, (under publication) 2025
- 2. R. Consonni, L. R. Cagliani, M. G. Polissiou, E. A. Petrakis, M. Z. Tsimidou and S. Ordoudi, NMR spectroscopic studies in saffron authenticity and quality (within the frame saffronomics COST action FA1101) in Magnetic Resonance in Food Science: Defining Food by Magnetic Resonance Capozzi, F., Laghi, L., Belton, P.S., (Eds) Royal Society of Chemistry, pp. 65-76, 2015
- 3. S.A.Ordoudi and M. Z.Tsimidou, Measuring Antioxidant and Prooxidant Capacity Using the Crocin Bleaching Assay (CBA) in Advanced Protocols in Oxidative Stress III, Methods in Molecular Biology, Ed. Armstrong, D. Humana Press, Springer Science + Business Media, New York, 2015, pp. 329-344 ISBN(e-book): 978-1-4939-1441-8
- 4. S.A.Ordoudi and M. Z.Tsimidou, Saffron Quality: Effect of Agricultural Practices, Processing and Storage in Production Practices and Quality Assessment of Food Crops Eds. Dris, R., Jain, S.M., Kluwer Academic Publ. Dordrecht, Netherlands, 2004, pp.209-260. ISBN(e-Book): 978-1-4020-2533-4.

ARTICLE IN ENCYCLOPEDIAS:

1. M.Z. Tsimidou*, S. A. Ordoudi, N. Nenadis, I. Mourtzinos, Food Fraud, The Encyclopedia of Food and Health, (2016), Vol. 3, pp. 35-42