



**1st ARISTOTLE
CONFERENCE ON
CHEMISTRY**



Advances and Challenges in Chemistry

Program





1st Aristotle Conference on Chemistry

Advances and Challenges in Chemistry

1st Aristotle Conference on Chemistry

Organized by

School of Chemistry AUTH

Dates

12-15 November 2023

City

Thessaloniki GREECE

Venue

Aristotle University's Research Dissemination Center
(KEDEA)

Address

Tritis Septemvriou Str., Aristotle University Campus

Website

<https://acc2023.chem.auth.gr>



Dear Colleagues and Friends,

The **School of Chemistry at Aristotle University of Thessaloniki** has the great pleasure and privilege of organizing the **1st Aristotle Conference on Chemistry** in the beautiful city of Thessaloniki, Greece.

2023 is a very special year for our School as it marks the 80th anniversary since its establishment in 1943. And it is a great opportunity to celebrate this event in the frame of the ACC2023. The theme of the conference “Advances and Challenges in Chemistry” was carefully chosen to mark such a milestone of our School.

We anticipate that this conference will be highly active and serve as a platform for researchers from all over the world to present the latest and most exciting research advances in different and distinct, but also complementary sub-specialities in the field of Chemistry.

Thus, it gives us great pleasure to wish a very warm welcome to all participants, some of which have graduated from our School and are currently employed in academic or research capacities all around the world, to Thessaloniki where there are many outstanding chemists. We hope that we will be able to offer the participants three days of excellent science, dynamic perspectives for scientific discussions and interaction as well as a fruitful and pleasant stay.

Let us celebrate our past accomplishments, renew friendships and extend our networks, and jointly explore current and future research directions.

Prof. Thodoris Karapantsios
President of the School of Chemistry ATh

Organizing Committee

Karapantsios Theodoros Professor
Lykakis Ioannis Professor
Samanidou Victoria Professor
Triantafyllidis Konstantinos Professor
Lambropoulou Dimitroula Associate Professor
Mantzouridou Fani Associate Professor
Angaridis Panagiotis Assistant Professor
Charistos Nickolas Assistant Professor
Gavril Dimitrios Assistant Professor
Papi Rigini Assistant Professor
Fotopoulos Apostolos Laboratory Teaching Staff
Koutalas Vasilis Laboratory Teaching Staff
Ordoudi Stella Laboratory Teaching Staff
Vouvoudi Evangelia Postdoc researcher

Scientific Committee

Achilias Dimitrios Professor
Choli-Papadopoulou Theodora Professor
Dendrinou-Samara Catherine Professor
Giannakoudakis Panagiotis Professor
Kostoglou Margaritis Professor
Paraskevopoulou Adamantini Professor
Sazou Dimitra Professor
Sigalas Michael Professor
Voutsas Dimitra Professor
Zachariadis George Professor
Katsoyiannis Ioannis Associate Professor
Lazarides Theodoros Associate Professor
Zografos Alexandros Associate Professor

ACC2023 Program Overview

DAY 0 - Sunday 12 November

18:00-22:00 **Opening event "Chemistry and Extraversion"** (in Greek)

DAY 1 - Monday 13 November

8:30-9:00 Registration

	HALL I	HALL II	HALL III
9:00-11:00	Session 1 Environmental pollutants: Analysis, Occurrence, Fate, Exposure Assessment and Treatment Approaches	Session 2 Inorganic Chemistry- Bioinorganic Chemistry- Nanochemistry (I)	Session 3 Biochemistry, Clinical Biochemistry and Biotechnology

11:00-11:30 Coffee Break

HALL I

11:30-12:15 Welcome Addresses - 80 years anniversary School of Chemistry

12:15-13:00 Plenary Lecture - Mercuri G. Kanatzidis

13:00-14:00 Lunch Break

	HALL I	HALL II	HALL III
14:00-16:00	Session 4 Environmental Chemistry and Technology	Session 5 Inorganic Chemistry- Bioinorganic Chemistry- Nanochemistry (II)	Session 6 Advanced and Sustainable Synthetic Methodologies in Organic Chemistry

16:00-16:30 Coffee Break

16:30-17:00 Poster Session 1

HALL I

17:00-17:30 Keynote Lecture - Elia Psillakis

	HALL I	HALL II	HALL III
17:30 -19:30	Session 7 Green and Sustainable Chemistry - Chemical Technology	Session 8 Computational Chemistry and Molecular Modelling	Session 9 Organic Synthesis of Bioactive Molecules and Natural Products

20:00 **GALA DINNER**

DAY 2 - Tuesday 14 November

8:30-9:00 Registration

	HALL I	HALL II	HALL III
9:00-11:00	Session 10 Analytical Chemistry and Quality Control in Bioanalytical, Food, Environmental and Archaeometric applications (I)	Session 11 Advances in Food Science, Technology and Quality Control (I)	Session 12 Experimental, Theoretical and Computational Physical Chemistry and Electrochemistry (I)

11:00-11:30 Coffee Break

HALL I

11:30-12:15 Plenary Lecture - Panagiotis Manesiotis

	HALL I	HALL II	HALL III
12:30-14:30	Session 13 Analytical Chemistry and Quality Control in Bioanalytical, Food, Environmental and Archaeometric applications (II)	Session 14 Advances in Food Science, Technology and Quality Control (II)	Session 15 Experimental, Theoretical and Computational Physical Chemistry and Electrochemistry (II)

14:30-15:30 Lunch Break

15:30-16:00 Poster Session 2

HALL I

16:00-16:30 Sponsors Session

16:30-17:00 Keynote Lecture - Maria Vamvakaki

17:00-18:45 **Session 16**
Polymer and Colors Chemistry and Technology

19:00-22:00 **MOMus-Museum of Modern Art**

DAY 3 - Wednesday 15 November

HALL I

9:15-10:00 Plenary Lecture - Kazutami Sakamoto

10:00-11:30 Poster Session 3

11:30-12:00 Closing ceremony / Poster Awards

12:00-12:30 Coffee / Light Lunch

13:00-14:00 Round table of the School of Chemistry AUTH (in Greek)

13:00 **Excursion to Vergina**

DAY 1

Monday
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November

8:30-9:00		Registration		Registration	
HALL I		HALL II		HALL III	
Session 1		Session 2		Session 3	
9:00-11:00	Environmental pollutants: Analysis, Occurrence, Fate, Exposure Assessment and Treatment Approaches Chair: D. Voutsas & C. Samara	Inorganic Chemistry- Bioinorganic Chemistry- Nanochemistry (I) Chair: A. Dendrinou-Samara & G. Psomas	Biochemistry, Clinical Biochemistry and Biotechnology Chair: E. Pantazaki & G. Manolikakes		
9:00-9:15	Scientific activities and accomplishments of the <i>Laboratory of Environmental Pollution Control, AUTH</i> <u>D. Voutsas</u>	Scientific activities and accomplishments of the <i>Laboratory of Inorganic Chemistry, AUTH</i> <u>A. Dendrinou-Samara</u>	Scientific activities and accomplishments of the <i>Laboratory of Biochemistry, AUTH</i> <u>E. Nikolakaki</u>		
9:15-9:30	Retention time prediction models to enhance confidence level in identifying transformation products <u>L. A. Koronaiou</u>, D. Panagopoulos Abrahamsson, D. A. Lambropoulou	Fine Tuning the Hydrophobicity of a New Cu ²⁺ 3-Dimensional MOF Through Single-Crystal Coordinating Ligand Exchange Transformations N. Panagiotou, M. J. Manos, J. C. Plakatouras, <u>A. J. Tasiopoulos</u>	A giant leap in tailoring biological responses by combining single molecule microscopy, chemistry and AI <u>N. S. Hatzakis</u>		
9:30-9:45	Target and suspect HRMS analysis approaches for screening of persistent and mobile compounds in surface waters of Greece <u>K. Anagnostopoulou</u>, E. Evgenidou, D. Lambropoulou	Metal phosphonates for energy and pharmaceutical applications: Two stories on how structure impacts properties K. Xanthopoulos, M. Vassaki, E. Chachlaki, <u>K. D. Demadis</u>	Endogenous Nitro-Fatty Acids As a Novel Class of Novel Anti-Tumorigenic Agents for Treatment of Colorectal Cancer <u>G. Manolikakes</u>, J. Roos, T. J. Maier		

DAY 1

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	HALL I	HALL II	HALL III
	Session 1	Session 2	Session 3
9:45-10:00	Risks assessment and distribution of PFAS in a biological phosphorus recovery sludge used for agriculture R. Ardiyanti, K. Azrague, R. Chowdhury, A. G. Asimakopoulos, B. M. Gonzales-Silva, S. W. Østerhus, C. Hallé	Excited State Dynamics in Luminescent Metal-Organic Frameworks: Sensing and Emission Color Tuning T. Lazarides, A. E. Psalti, A. Chatz-Giachia, N. Pliatsios, S. A. Diamantis	Unleashing Cellular Demise: Harnessing Thiosemicarbazide and 1, 3, 4-Thiadiazole Derivatives for Therapeutic Advancements in Apoptosis and Carbonic Anhydrase IX Inhibition S. Karakuş, E. Başçıl, F. Tok, Ö. Erdoğan, Ö. Çevik, F. Başoğlu-Ünal
10:00-10:15	Hydrogels as novel and efficient sorbents for the determination of PFAS in sea water samples by implementing d-SPE with High Resolution Mass Spectrometry S. Petromelidou, N. M. Ainali, D. Bikiaris, D. Lambropoulou	Earth-abundant metal molecular catalysts and N-doped carbon-dot photosensitizers for light-induced H ₂ production from H ₂ O: effect of catalyst nuclearity and immobilization on catalytic efficiency D. K. Gioftsidou, G. Landrou, C. Tzatzta, A. Hatzidimitriou, E. Orfanos, G. Charalambidis, K. Ladomenou, A. G. Coutsolelos, P. A. Angaridis	Adjusting the molecular gears from inflammation to ferroptosis D. Spacho, A. Louka, C. Papadopoulos, N. Eleftheriadis
10:15-10:30	Novel developments in kinetic modeling for photocatalytic pollutant removal and the effect of process variables A. Ranjbari, P. M. Heynderickx	Effects of Eu ³⁺ doping on physio-chemical properties and neuroprotective potential of PAA-CeO R. Meenambal, T. Kruk, K. Jakubowska, J. Gurgul, K. Szczepanowicz, M. Szczech, P. Warszński, D. Jantas	An mRNA-based approach of WWP1 overexpression and function in ZR-75-1 breast cancer cells K. Tasioulis, E. Papachristou, T. Choli-Papadopoulou, R. Papi
10:30-10:45	Removal of lead and testosterone from wastewater by ball milled biochar/MOF nanocomposite S. O. Amusat, T. G. Kebede, E. N. Nxumalo, S. Dube, M. M. Nindi	Novel coordination compounds with fenamic acid derivatives as ligands G. Malis, K. Fylaktakidou, A. G. Hatzidimitriou, G. Psomas	The rich common history of HDAC inhibitors and chemoproteomics G. Médard

DAY 1

HALL I		HALL II	HALL III
Session 1		Session 2	Session 3
10:45-11:00	Impact of climate change in the formation of Nitrogenous Disinfection By-Products (N-DBPs) <i>A. Kozari, D. Voutsas</i>		SRPK1 a protein kinase involved in DNA damage response and chemotherapeutic agents sensitivity in cancer cells <i>I. Sigala, M. Koutroumani, A. Koukiali, T. Giannakouros, E. Nikolakaki</i>
11:00-11:30	Coffee Break	Coffee Break	
HALL I		HALL I	
11:30-11:45	Welcome Addresses	Dimitrios Kovaïos Rector AUTH Hara-Myrto-Agapi Charalambous Dean of Faculty of Sciences Thodoris Karapantsios President of School of Chemistry	
11:45-12:15	80 years School of Chemistry AUTH	Maria Tsimidou Professor Emerita School of Chemistry <i>Reflection upon an anniversary</i>	
12:15-13:00	Plenary Lecture	Mercouri G. Kanatzidis <i>New Materials for Energy Conversion of Heat and Sunlight to Electricity</i>	
13:00-14:00	Lunch Break	Lunch Break	

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	HALL I	HALL II	HALL III
	<i>Session 4</i>	<i>Session 5</i>	<i>Session 6</i>
	Environmental Chemistry and Technology Chair: I. Katsoyiannis & D. A. Lambropoulou	Inorganic Chemistry- Bioinorganic Chemistry- Nanochemistry (II) Chair: T. Lazarides & P. A. Angaridis	Advanced and Sustainable Synthetic Methodologies in Organic Chemistry Chair: I. Lykakis & C. Stathakis
14:00-16:00			
14:00-14:15	CO ₂ capture and methanation using Ru/Na ₂ O/Al ₂ O ₃ dual-function materials with different synthesis A. I. Tsiotsias, A. G. S. Hussien, N. D. Charisiou, K. Polychronopoulou, M. A. Goula	Advancements in metallodrugs for metabolic disorders. The case of potential titanodrugs. A. Salifoglou	Scientific activities and accomplishments of the <i>Laboratory of Organic Chemistry, AUTH</i> I. Lykakis
14:15-14:30	Superparamagnetic Fe ₃ O ₄ /Laponite nanohybrids: synthesis, biomedical and environmental applications C. Prochaska, G. Basina, C. Hadjipanayis, G. Gallios, I. Vagiota, A. Geladari, I. Felesakis, C. Androulaki, V. Tzitzios	Does the binding of non-steroidal anti-inflammatories to metal ions lead to better bioactivity? G. Psomas	EurJOC and the Association of Greek Chemists L. Travaglini
14:30-14:45	Study of the effect of dissolved oxygen on biofilm formation E. Malea, Z. C. Kampouraki, M. Petala, T. Karapantsios	Copolymer encapsulation of Ag(I) complexes with variously substituted thioamide ligands for anticancer therapeutics D. Varna, E. Papachristou, E. Christodoulou, P. Dalezis, D. Trafalis, T. Choli-Papadopoulou, D. Bikiaris, P. Angaridis	Organocatalysis and photochemistry: Novel green technologies for sustainable synthesis and applications in chemical industries C. G. Kokotos
14:45-15:00	Effect of irradiation on sorption properties of raw and modified Bentonite for Cs, Co, Sr I. Dianellou, F. Noli, P. Tsamos, N. Kantiranis, E. Pavlidou, S. Aytas, S. Yusan	Self-Therapeutic Potential of Zn-based Nanoparticles boosted by organic agents K. Giannousi, I. S. Vizirianakis, C. Dendrinou-Samara	Revisiting Pd-AAA chemistry: Towards the development of active, selective, and stable single component chiral pre-catalysts S. Arseniyadis

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HALL I		HALL II	HALL III
Session 4		Session 5	Session 6
15:00-15:15	Rapid simultaneous adsorptive removal of lead and efavirenz from aqueous solution using magnetic mesoporous adsorbent derived from coal fly ash T. Kgoedi , T. Kebede, L. M. Madikizele, N. Mketi	Synthesis of CaCO ₃ hydrophobic nanoparticles based coating for the protection of limestone E. Gkrava , V. Tsiridis, M. Petala, I. Karapanagiotis, T. D. Karapantsios, P. K. Spathis, P. N. Manoudis, S. P. Evgenidis, E. Pavlidou	Efficient Organic Transformations by Nano-Structured Heterogeneous Catalysts Y. M. A. Yamada
15:15-15:30	Adsorption of three common drugs onto PET microplastics in aqueous matrices D. Kalaronis , E. Evgenidou, G. Z. Kyzas, D. N. Bikiaris, D. A. Lambropoulou	Magnetic nanoparticles with Ca-doped mesoporous silica shell D. Kordonidou , G. K. Pouroutzidou, K. Kazeli, N. Florini, P. Komninou, G. Vourlias, M. Angelakeris, E. Kontonasaki	Novel, sustainable and green protocols and application in organic synthesis P. L. Gkizis , N. A. Stini, I. Triandafillidi, C. G. Kokotos
15:30-15:45		Advanced Nanoformulations of Zinc Oxide and Calcium Hydroxide with Geraniol for Botrytis cinerea Control P. Tryfon , N. N. Kamou, A. Pavlou, S. Mourdikoudis, G. Vourlias, U. Menkissoglu-Spiroudi, C. Dendrinou-Samara	
16:00-16:30	Coffee Break		Coffee Break
16:30-17:00	POSTER SESSION 1		<ol style="list-style-type: none"> 1. Environmental Chemistry and Technology 2. Environmental pollutants: Analysis, Occurrence, Fate, Exposure Assessment and Treatment Approaches 3. Green and Sustainable Chemistry and Chemical Technology 4. Inorganic Chemistry- Bioinorganic Chemistry- Nanochemistry
HALL I		HALL I	
17:00-17:30	Keynote Speech		Elia Psillakis <i>Towards circular analytical chemistry</i>

DAY 1

Monday
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	HALL I	HALL II	HALL III
	<i>Session 7</i>	<i>Session 8</i>	<i>Session 9</i>
17:30-19:30	Green and Sustainable Chemistry – Chemical Technology Chair: K. Matis & K. Triantafyllidis	Computational Chemistry and Molecular Modelling Chair: M. Sigalas & N. Charistos	Organic Synthesis of Bioactive Molecules and Natural Products Chair: A. Zografos & C. Litinas
17:30-17:45	Scientific activities and accomplishments of the <i>Laboratory of Chemical and Environmental Technology, AUTH</i> K. Triantafyllidis	Scientific activities and accomplishments of the <i>Laboratory of Quantum and Computational Chemistry, AUTH</i> M. Sigalas	Access to high rotational barrier atropisomers M. Fragkiadakis, M. Thomaidi, E. Chatziorfanou, M. Gaidatzi, A. Michailidis Barakat, T. Stergiannakos, C. Stoumpos, C. Neochoritis
17:45-18:00	Bubbly flow dynamics in varying gravitational conditions: from 0g to 12g S. Evgenidis, M. Kostoglou, T. Karapantsios	Gold catalysis under ligand control: original structures and reactivities. An interplay between computational chemistry and experiments. K. Miqueu, D. Bourissou	Deciphering the structure of a key long-term metabolic marker for the detection of LGD-4033 abuse E. Pitsinos, Y. S. Angelis, M. Petrou
18:00-18:15	A novel approach for design of non-woven alginate wound dressings N. Kahya, A. Kartun, A. Gürarlan	Machine Learning Assisted Predictions of Gas Adsorption by Nanoporous Materials G. Fanourgakis, G. Froudakis, A. Sarikas, E. Tyllianakis	Expanding the scope of the Heck reaction to allylamines: Synthesis of Abamine, Naftifine and Reboxetine F. Moschona, M. T sitopoulou, M. Efstratiou, M. Koutiva, G. Rassias
18:15-18:30	FDCA production through HMF oxidation using Pt-Bi/C catalyst and hydrotalcites promoted by non-noble metals P. Díaz-Maizkurrena, A. Iriondo Hernández, J. Requies Martínez	Wrinkle-induced Graphene Conductive Highways M. Dimitropoulos, E. Papasouli, A. C. Manikas, C. Tsakonas, M. Rérat, E. N. Koukaras, P. Karamanis, C. Galiotis	Ligand Observed NMR in Natural Products: Biotransformations, Macromolecular-Ligand and in-Cell Applications I. P. Gerothanassis
18:30-18:45	Novel metal-free nanomaterials for selective photocatalytic biomass valorization D. A. Giannakoudakis, P. Papamichail, A. Qayyum, T. J. Badosz, J. C. Colmenares, K. S. Triantafyllidis	First-principles calculations of non-linear optical properties in solids A. El-Boutaybi, P. Karamanis, P. Lecoeur, M. Rérat	Concise synthesis of novel triazole-benzamide/isoquinolinone hybrids for biological evaluation K. A. Ouzounthanasis, A. E. Koumbis

DAY 1

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HALL I	HALL II	HALL III
Session 7	Session 8	Session 9
<p>18:45-19:00 Solid Oxide Cells (SOCs): a promising way to produce green energy carriers and chemical products <u>M. E. Farmaki</u>, K. M. Papazisi, N. Bimpiri, D. Tsiplakides, S. Balomenou</p> <p>19:00-19:15 Production, characterization and properties determination of biodiesel from waste cooking oils. <u>E. Emmanouilidou</u>, A. Lazaridou, S. Mitkidou, N. C. Kokkinos</p> <p>19:15-19:30 Material Recycling of Acrylonitrile Butadiene Styrene (ABS) From Wiring Devices Using Mechanical Recycling <u>E. Çetin</u>, O. T. Türkan</p>	<p>Nonlinear Optical Materials: Tailoring Susceptibilities for Emerging Applications <u>P. Karamanis</u></p> <p>Quantum mechanical study of the GO oxidation mechanism D. K. Papayannis, K. D. Papavasileiou, <u>V. S. Melissas</u></p> <p>Upgrading Density Functional Approximations to Spin-Current DFT <u>J. K. Desmarais</u>, B. Civalleri, J. P. Flament, G. Vignale, S. Pittalis, A. Erba</p>	<p>Design and synthesis of novel bifunctional hybrids as anti-cancer agents E. Sflakidou, C. Siokatas, G. Leonidis, <u>V. Sarli</u></p>
20:00	GALA DINNER	MAKEDONIA PALACE

Participants of the **ACC2023** are invited for an unforgettable dining experience at the conference **Gala Dinner** that will be held on the evening of Monday 13th at **Makedonia Palace**.

 **2 Megalou Alexandrou str.**

Monday 13 Nov
20:30

Quality, Art, Inspiration!

Authentic flavors with character and aesthetics.
High level of gastronomy from the hands of award-winning executive chef Sotiris Evangelos.



DAY 2

Tuesday
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November

8:30-9:00	Registration		Registration
HALL I		HALL II	HALL III
Session 10		Session 11	Session 12
9:00-11:00	Analytical Chemistry and Quality Control in Bioanalytical, Food, Environmental and Archaeometric applications (I) Chair: E. Rosenberg & V. Samanidou	Advances in Food Science, Technology and Quality Control (I) Chair: A. Paraskevopoulou & F. Mantzouridou	Experimental, Theoretical and Computational Physical Chemistry and Electrochemistry (I) Chair: I. Poullos & S. Sotiropoulos
9:00-9:15	Scientific activities and accomplishments of the <i>Laboratory of Analytical Chemistry, AUTH</i> <u>N. P. Kalogiouri</u>	Memorial lecture honouring Dimitrios Christos Boskou <u>M. Tsimidou, V. Kiosseoglou, G. Blekas</u>	Scientific activities and accomplishments of the <i>Laboratory of Physical Chemistry, AUTH</i> <u>S. Sotiropoulos</u>
9:15-9:30	Predicting Linear Temperature-Programmed Retention Indices (LTPRIs) for Gas Chromatography <u>E. Rosenberg</u>, A. Kabrelian, N. Lim		Nature-Inspired Flow Fields for High-Performance Electrochemical Devices <u>P. Trogadas</u>, L. Xu, M. O. Coppens
9:30-9:45	Micro-EDXRF spectroscopy, a useful tool for the non-invasive study of archaeological artefacts – possibilities and limitations <u>C. S. Katsifas</u>, G. A. Zachariadis		Inkjet-printed Ni-Co oxides for high performance semi-transparent and flexible supercapacitor electrodes <u>A. Banti</u>, P. Pardalis, M. Charalampakis, E. Mantsiou, C. Prochaska, V. Binas, S. Sotiropoulos
9:45-10:00	Modified electrode surfaces in the electroanalysis of heavy metals; problems and perspectives <u>V. Keramari</u>, S. Karastogianni, S. Girousi	Research on the sustainable obtaining of health-promoting carotenoid-rich products C. M. Stinco, A. Benítez-González, P. Mapelli-Brahm, Á. Morón-Ortiz, P. Zamorano, <u>A. J. Meléndez-Martínez</u>	IrO ₂ OER electrocatalysts supported on various titanium oxides for PEM water electrolysis <u>N. Strataki</u>, E. Zeza, N. Vasileiou, S. Balomenou, D. Tsiplakides

DAY 2

Tuesday
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	HALL I	HALL II	HALL III
	Session 10	Session 11	Session 12
10:00-10:15	Recent advances in the determination of toxic metals in complex matrices using automated techniques N. Manousi , A. Kabir, K. G. Furton, A. Anthemidis	Virgin avocado oil enrichment with olive pulp fraction Bioactives: A sustainable approach to improve oxidative stability I. Pyrka , S. Stefanidis, S. A. Ordoudi, N. Nenadis, K. G. Zinoviadou	Perovskite oxides as fuel electrodes in solid-oxide cells: effect of B-site doping in La _{0.75} Sr _{0.25} CrO _{3-δ} with Fe N. Bimpiri , A. Konstantinidou, K. M. Papazisi, S. Balomenou, D. Tsiplakides
10:15-10:30	Synthesis of magnetic cellulose nanocrystals derived from maize waste for the adsorptive removal of Pb (II) from wastewater samples. L. Mahlaule-Glory , E. Moema, N. Hintsho-Mbita, N. Mketi	Volatilomics approach for monitoring the spontaneous fermentation of cv. Chalkidiki green olives P. Alvanoudi , S. A. Ordoudi, A. Nakas, A. N. Assimopoulou, F. Th. Mantzouridou	Electrochemical formation and characterization of sulfonated self-doped polyaniline-Ni(OH) ₂ nanocomposite films on stainless steel E. Marousiadou , D. Papamichael, K. Michael, D. Sazou
10:30-10:45		Microwave-heating of persimmon pulp improves the yield of carotenoids and pectin from juice residues S. Lalou , S. A. Ordoudi, F. Th. Mantzouridou	Tailoring the redox behavior, morphology, and capacitive properties of electrodeposited polyaniline-based nanocomposite films on tantalum by adjusting control electrochemical parameters C. Gkili , K. Deligiannakis, C. Papoulia, E. Pavlidou, D. Sazou
10:45-11:00			Material Recycling of Acrylonitrile Butadiene Styrene (ABS) Using Solvent-Based Recycling O. T. Türkan , E. Cetin
11:00-11:30	Coffee Break		Coffee Break
11:30-12:15	Plenary Lecture - HALL I		Panagiotis Manesiotis Molecularly imprinted materials for a sustainable future

DAY 2

Tuesday
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	HALL I	HALL II	HALL III
	Session 13	Session 14	Session 15
	Analytical Chemistry and Quality Control in Bioanalytical, Food, Environmental and Archaeometric applications (II) Chair: Th. Christopoulos & S. Girousi	Advances in Food Science, Technology and Quality Control (II) Chair: N. Nenadis & A. J. Meléndez-Martínez	Experimental, Theoretical and Computational Physical Chemistry and Electrochemistry (II) Chair: D. Sazou & D. Tsiplakides
12:30-14:30			
12:30-12:45	HRMS analytical techniques for aquaculture marine environment and fish quality investigation V. Boti, <u>T. Albanis</u>	Scientific activities and accomplishments of the Laboratory of Food Chemistry & Technology , AUTH <u>F. Mantzouridou</u>	Approaching Archaeology <i>via</i> Atomic and Molecular Spectroscopy <u>D. Anglos</u>
12:45-13:00	Macromolecular Crowding in Analytical Chemistry: Meeting the Detectability Challenge of Rapid Tests N. M. Christopoulou, D. P. Kalogianni, <u>T. K. Christopoulos</u>	Designing elastoplastic 3D printable edible materials using jammed emulsions S. Sridharan, <u>C. Nikiforidis</u>	Ru-porphyrin pedestals for functional surface nanoarchitectures <u>A. C. Papageorgiou</u>
13:00-13:15	Deeper access into the vitamin D metabolome using mass spectrometry. <u>A. Alexandridou</u>, D. A. Volmer	Snail meat and insects as future food ingredients. Insights from the HelEntoFood project. <u>A. Matsakidou</u>	Low power conductometric gas sensors based on <i>p</i> -type semiconductors <u>V. Binas</u>
13:15-13:30	Low-cost construction of the sensing zones of rapid tests by a home-made 3D printer-based dispensing system P. M. Kalligosfyri, S. S. Tragoulas, P. Tsikas, E. Lamprou, T. K. Christopoulos, <u>D. P. Kalogianni</u>	<i>In vitro</i> digestion of a novel whey-based dairy drink: Potential Impact of ethanol treatment <u>C. Kyrkou</u>, A. Stamkopoulos, G. Charitou, F. Tsakoumaki, A. Lazaridou, T. Moschakis, C. G. Biliaderis, A. M. Michaelidou	Advanced multifunctional materials <u>I. A. Kartsonakis</u>

DAY 2

Tuesday
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November

	HALL I	HALL II	HALL III
	Session 13	Session 14	Session 15
13:30-13:45	<p>Multiallele Sensing Devices for DNA-based Verification of Olive Oil Varieties <u>N. M. Christopoulou</u>, E. Figgou, P. Kalaitzis, D. P. Kalogianni, T. K. Christopoulos</p>	<p>Nanoparticles from ethanol-treated whey proteins incorporated in yogurt-type products <u>G. Charitou</u>, M. Andreadis, N. Leliopoulou, T. Moschakis</p>	<p>Molecular-level relation between intra-particle glass transition temperature and stability of colloidal suspensions A. Zaccone, <u>C. Anzivino</u></p>
13:45-14:00	<p>Development of a rapid and efficient preconcentration method for determination of neonicotinoid pesticides in vegetable oils using Fe₃O₄@Al₂O₃/AC and HPLC-DAD <u>M. V. Sengane</u>, P. N. Nomngongo, N. Mketu</p>	<p>Entomological identification of Honeybee mtDNA in honey samples produced by the <i>cecropia</i> spp. <i>apis mellifera</i> <u>I. K. Kyriakou</u>, A. Christakaki, M. Kolovos</p>	<p>A new method for determining the structural heterogeneity of porous materials by inverse gas chromatography and comparisons with nitrogen porosimetry and A. F. M. <u>D. P. Tsaousoglou</u>, D. Gavriil</p>
14:00-14:15	<p>Development and validation of a novel microwave-assisted hydrogen peroxide digestion method for spectroscopic determination of mercury in selected fuel oils using methionine as a capping reagent M. Kiwanuka, P. N. Nomngongo, <u>N. Mketu</u></p>	<p>Natural mineral water-based <i>Hibiscus sabdariffa</i> L. extracts: Composition and stability study <u>G. Ioannou</u>, A. Matsakidou, N. Nenadis, S. Ordoudi, N. Tzollas, E. Chatzidimitriou, A. Paraskevopoulou</p>	<p>Atmospheric Physical Chemistry of Climate Forcing Compounds <u>M. A. Spanoudaki</u>, J. B. Burkholder, V. C. Papadimitriou</p>
14:15-14:30	<p>Development and validation of a LC-QTOF-MS/MS method for the determination of bioactive compounds in flowers <u>P. D. Mitsikaris</u>, I. Mourtzinou, U. Menkissoglu-Spiroudi, A. Papadopoulos, N. P. Kalogiouri</p>	<p>Extraction of phenolic compounds from rosemary using natural deep eutectic solvents <u>A. Kyriakoudi</u>, A. Tsiouras, S. Christaki, I. Mourtzinou</p>	
14:30-15:30	Lunch Break	Lunch Break	Lunch Break

DAY 2

15:30-16:00	Poster Session 2	<ol style="list-style-type: none"> 1. Advances in Food Science, Technology and Quality Control 2. Analytical Chemistry and Quality Control in Bioanalytical, Food, Environmental and Archaeometric applications 3. Experimental, Theoretical and Computational Physical Chemistry and Electrochemistry
16:00-16:30	Sponsors Session - HALL I	Sponsors Session
16:30-17:00	Keynote Speech - HALL I	Maria Vamvakaki Main-Chain Photodegradable Polymers

HALL I

Session 16

17:00-18:45 Polymer and Colors Chemistry and Technology
 Chair: **D. Bikiaris & D. Achilias**

17:00-17:15 Scientific activities and accomplishments of the *Laboratory of Polymer and Colors Chemistry and Technology, AUTH*
D. Bikiaris

17:15-17:30 MWCNTS@PDMS-1000 nanocomposites: surface structure, hydrophobicity and electrical characteristics
I. Sulym, K. Terpiłowski, O. Goncharuk, E. Pakhlov, S. Diaham, Z. Valdez-Nava

17:30-17:45 Synthesis and characterisation of novel poly(butylene succinate)/cutin polyesters
E. Balla, A. Zamboulis, D. Bikiaris



Tuesday
14
November

DAY 2

Tuesday
14
November

HALL I

Session 16

- 17:45-18:00** Investigation of novel poly(lactic acid)-co-poly(ethylene azelate) copolyesters for packaging applications
R. O. Ioannidis, A. Zamboulis, Z. Terzopoulou, N. Nikolaidis, D. N. Bikiaris
- 18:00-18:15** Characterization and thermo-chemical recycling by pyrolysis of plastics from WEEE
M. A. Charitopoulou, S. Stefanidis, A. Lappas, D. Achilias
- 18:15-18:30** Synthesis of PLA-PEG-PLA triblock copolymer microparticles using microfluidics technique as potential drug delivery systems
N. D. Bikiaris, P. Barmplexis
- 18:30-18:45** Preparation and Characterization of HDPE/Lignin Composites
C. Samiotaki, E. Tarani, A. Zamboulis, D. Bikiaris
- 19:00-22:00** **MOMus-Museum of Modern Art**

Participants are invited to visit the **MOMus-Museum of Modern Art** and experience an exciting **guided tour** to the exhibition **“50+1 Stories from the Costakis Collection”**

Tuesday 14 Nov
19:00-22:00

This evening socialization event includes **wine bar and buffet** with finger food at the **Museum loggia**.

No extra fees required

Bus transportation will be arranged from the University campus to the Museum and back.



The MOMus-Museum of Modern Art, Thessaloniki, holds one of the principal collections of paintings and drawings by Russian Avant-Garde artists. More than one hundred works of art and archival material from the Museum's renowned Costakis Collection will serve as the basis for the narratives and journeys presented to visitors, functioning in parallel and complementary to the stories that accompany them.

DAY 3

Wednesday
15
November

HALL I		HALL I
9:00-9:15	Discovery of PPAR α / γ Agonists as Therapeutics in Metabolic Disorders I. A. Y. Ghannam	
9:15-10:00	Plenary Lecture	Kazutami Sakamoto <i>The Importance of Planarity for Biomembrane - Membrane Curvature is a Key to Control CPP's direct internalization</i>
10:00-11:30	Poster Session 3	<ol style="list-style-type: none"> Biochemistry, Clinical Biochemistry and Biotechnology Computational Chemistry and Molecular Modeling Organic Synthesis of Bioactive Molecules and Natural Products Polymer and Colors Chemistry and Technology Advanced and Sustainable Synthetic Methodologies in Organic Chemistry
11:30-12:00	Closing ceremony Poster Awards	Thodoris Karapantsios
12:00-12:30	Coffee - Light Lunch	Coffee - Light Lunch
13:00-14:00	Round table (in Greek)	School of Chemistry AUTH <i>Past - Present - Future</i>
13:00	Excursion to Vergina	Visit / Guided Tour / Bus transportation

Participants are invited to participate in the closing **excursion to Vergina, the birthplace of Alexander the Great and the Macedonian dynasty**, on Wednesday 15th, 13:00 hours.

While visiting the Macedonian tombs and admiring archaeological findings, the participants will get amazed by the centuries-old civilization of Macedonia and at the same time will take a nice memory from Greece back home.

The excursion includes transportation by bus and guided tour to the museum of Vergina.



DAY 1 / 13 NOV

Poster Session 1.1**Environmental Chemistry and Technology**

- P1.1-1** Monitoring of Trihalomethanes for Water Treatment Plants of Cyprus
S. Nikolaou, C. Charalambous, M. Tiggridou, M. Christou, P. Efstathiou, R. Kokkinofa
- P1.1-2** Ni and Ru loading effects in dual-function materials for the combined CO₂ capture and methanation
A. I. Tsiotsias, V. Sibelait, C. Giotas, N. D. Charisiou, M. A. Goula
- P1.1-3** Effect of Al₂O₃ acidity modulation on Pt/Al₂O₃ catalyst for CO₂ hydrogenation to methanol
M. P. Pliaka, A. I. Latsiou, G. I. Siakavelas, N. D Charisiou, M. A. Goula
- P1.1-4** Effect of attapulgite in the anaerobic digestion of primary sewage sludge
F. Sakaveli, M. Petala, V. Tsiridis, E. Darakas
- P1.1-5** Effect of irradiation on the sorption properties of natural sorbents for removal of radionuclides
I. Dianellou, A. Liaska, E. Kapashi, F. Karantoumanis, P. Tsamos, F. Noli
- P1.1-6** Recovery of Platinum and Iridium from medical waste (catheters) by solvent extraction
A. Lampou, E. Kokkinos, D. Merachtsaki, C. Prochaska, E. Peleka, A. Zouboulis
- P1.1-7** Implementing micro/nanostructures on cellulose nanofibers (CNFs)-reinforced particle boards for enhanced hydrophobic and antibacterial activity
E. Psochia, E. Karagiannidis, E. Anastasiadou, K. Turlouki, N. Kehagias, R. Fotiadou, S. Spyrou, H. Stamatis, K. S. Triantafyllidis

DAY 1 / 13 NOV

Poster Session 1.1**Environmental Chemistry and Technology**

- P1.1-8** Nanoporous Activated Carbons as Desulfurization Adsorbents of Model and Real Diesel Fuel
E. D. Salonikidou, D. A. Giannakoudakis, M. Kostoglou, E. A. Deliyanni, K. S. Triantafyllidis
- P1.1-9** Evaluating the Adsorption Capacity of Polyethylenimine-Modified Silica for Chromate and Arsenate Ions
M. Xanthopoulou, D. Gkiliopoulos, K. Triantafyllidis, M. Kostoglou, I. A. Katsoyiannis
- P1.1-10** Hydrolases production by *Saccharomyces cerevisiae* and *Bacillus sp.* using sardine processing waste
E. E. Tzekaki, E. Karali, M. G. Ziagova, D. I. Avgoulas, M. Petala, T. Karapantsios, A. A. Pantazaki

Poster Session 1.2**Environmental pollutants: Analysis, Occurrence, Fate, Exposure Assessment and Treatment Approaches**

- P1.2-1** Actinide (U-232 and Am-241) removal from waters by oxidized carbon fabrics
I. Ioannidis, B. Mulla, G. Kotanidis, K. Ioannou, N. Kostoglou, I. Pashalidis, C. Rebholz
- P1.2-2** Removal of crystal violet dye from aqueous solutions through adsorption onto activated carbon cloth materials
B. Mulla, K. Ioannou, G. Kotanidis, I. Ioannidis, N. Kostoglou, I. Pashalidis, C. Rebholz
- P1.2-3** The role of functional groups in microplastic-pollutants interactions. A density functional theory study.
A. Pulitika, P. Karamanis, M. Kovačić, A. Lončarić

DAY 1 / 13 NOV

Poster Session 1.2**Environmental pollutants: Analysis, Occurrence, Fate, Exposure Assessment and Treatment Approaches**

- P1.2-4** Simultaneous adsorptive study of toxic metal ions in quaternary system from aqueous solution using low-cost black cumin seeds (*Nigella sativa*) adsorbents
N. Shooto, **P. Thabede**, B. Naidoo
- P1.2-5** Hemp seed nanoparticle composites for removing lead, methylene blue, and ibuprofen from an aqueous solution and their antimicrobial towards *Escherichia coli* and *Staphylococcus aureus*
B. R. Mphuthi, P. M. Thabede, M. E. Monapathi, **N. D. Shooto**
- P1.2-6** Tetrabromobisphenol A and its main degradation product: genotoxicity study and efficient removal.
A. Spyrou, D. Vlastos, M. Antonopoulou
- P1.2-7** Microplastic accumulation in marine fishes *Mullus barbatus* and *Engraulis encrasicolus*
A. Moriki, A. Kyriakoudi, **A. Koutra**, M. Panousis
- P1.2-8** Functionalized Zr(IV) Metal Organic Framework Showing Emission Quenching in the Presence of Nitrophenols in Aqueous Media
A. Chatz-Giachia, A. Pournara, M. J. Manos, C. P. Pappa, **T. Lazarides**
- P1.2-9** Indoor dust as a repository of chemical micropollutants- Potential risk to human health
A. Paraschaki, D. Voutsas
- P1.2-10** Sorption of organic micropollutants to tire wear particles (TWPs)
D. Vlachos, **D. Voutsas**

Poster Session 1.2

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Environmental pollutants: Analysis, Occurrence, Fate, Exposure Assessment and Treatment Approaches

- P1.2-11** Synthesis, characterization and application of Fe-oxides/ Rice husk composites on arsenic removal from ground waters
S. Chatzimichailidou, I. Katsoyiannis N. Loukoutos, G. Kyzas
- P1.2-12** LC-HRMS fingerprinting: An innovative approach to explore micropollutant accumulation in landfill leachate effluent water irrigation
L. A. Koronaiou, **P. Parthenidis**, E. Evgenidou, D. A. Lambropoulou
- P1.2-13** Oral bioaccessibility assessment of household dust-bound PAHs using simulated gastrointestinal fluids
A. Avgenikou, E. Manoli, A. Kouras, C. Samara

Poster Session 1.3**Green and Sustainable Chemistry and Chemical technology**

- P1.3-1** Green synthesis of MS nanoparticles and the preparation of MS-chitosan nanocomposites for the removal of Cr(VI) ion from wastewater
T. Xaba
- P1.3-2** Conversion of Cellulose to Lactic Acid over Niobium-Doped TiO₂ catalysts
M. N. Verziu, C. Stavarache, M. M. Marin, A. Khosravi, I. Cristea, S. Lazar, J. Mirea, V. Fruth
- P1.3-3** Photochemical Aerobic Oxidation of Boronic acids
S. K. Serviou, P. L. Gkizis, A. Balaskas, C. T. Constantinou, I. Triandafillidi, C. G. Kokotos
- P1.3-4** The influence of the composite filament manufacturing technique through self-healing for FFF applications
A. Kontiza, I. Kartsonakis

DAY 1 / 13 NOV

Poster Session 1.3

Green and Sustainable Chemistry and Chemical technology

- P1.3-5** Solar photocatalytic mineralization of hazardous medical wastewater
E. Mitrousi, C. Berberidou, S. Tsoumachidou, I. Poullos
- P1.3-6** Biodiesel Production and Analysis from Used Household Frying Olive Oil
V. Pasxou, E. Emmanouilidou, A. Lazaridou, N. C. Kokkinos, S. Mitkidou
- P1.3-7** One Pot Green Synthesis of Boron Heterocycles and DNA-binding
P. Paisidis, A. Kotali, G. Psomas, K. C. Fylaktakidou
- P1.3-8** Exploitation of micro-gravity conditions to study dynamics and stability of emulsions
A. P. Chondrou, S. P. Evgenidis, M. Kostoglou, T. D. Karapantsios
- P1.3-9** Siloxane nanocomposite materials as protective coatings for limestone – based substrates of cultural heritage
K. Marnellou, V. Tsiridis, P. Manoudis, P. K. Spathis, T. D. Karapantsios, E. Pavlidou, I. Karapanagiotis
- P1.3-10** Modeling turbulent collisions between bubbles and particles in flotation
M. Kostoglou, S. Evgenidis, T. Karapantsios
- P1.3-11** Proof of concept study of Cor-IS impedance spectroscopy for the evaluation of endothelial function
N. Chatzipapa, S. Evgenidis, K. Zacharias, F. Siskos, M. Doumas, T. Karapantsios
- P1.3-12** The evolution of boiling in zero gravity; The Multiscale Boiling Experiment on-board the International Space Station
Sielauff, D. Mangini, O. Kabov, M. Q. Raza, A. I. Garivalis, M. Zupančič, S. Dehaeck, S. Evgenidis, C. Jacobs, D. Van Hoof, O. Oikonomidou, X. Zabulis, P. Karamaounas, A. Bender, F. Ronshin, M. Schinnerl, J. Sebilliau, C. Colin, P. Di Marco, M. Kostoglou, I. Golobič, A. Rednikov, P. Colinet, P. Stephan, L. Tadrist, T. Karapantsios

Poster Session 1.3

Green and Sustainable Chemistry and Chemical technology

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- P1.3-13** Catalytic Hydrogenation of Furfural towards High-Value added Chemicals and Fuel additives
A. I. Karras, A. Margellou, K. S. Triantafyllidis
- P1.3-14** Lignin derived alternative to BPA: Guaiacol-based epoxy resins
C. P. Pappa, D. Giliopoulos, F. Boukas, D. Efstathiadis, I. Polychroniadis, G. Raska, K. S. Triantafyllidis
- P1.3-15** Conversion of Kraft and Organosolv Lignin through Fast Pyrolysis and In Situ Catalytic Upgrading Towards Aromatic and Phenolic-Rich Bio-oil
P. Soldatos, A. Margellou, S. Torofias, C. P. Pappa, K. Triantafyllidis
- P1.3-16** Synthesis and characterization of sugar-derived epoxy prepolymers: a potential bio-based substitute of BPA-based epoxy resins
Z. L. Koutsogianni, C. P. Pappa, K. S. Triantafyllidis
- P1.3-17** Integrated biorefinery of lignocellulosic biomass towards bio-based chemicals, polymers and fuels
A. Margellou, S. Torofias, C. P. Pappa, P. Soldatos, A. I. Karras, G. Iakovou, E. Psochia, K. Rekos, S. Ioannidou, K. Triantafyllidis
- P1.3-18** Integrated biorefinery of cocoa bean shell wastes towards added-value products
A. Margellou, E. Psochia, S. Torofias, C. P. Pappa, E. Salonikidou, D. Giannakoudakis, R. F. Colmenares-Quintero, J. C. Colmenares, K. Triantafyllidis
- P1.3-19** Evaluation of growth performance and carotenoids accumulation of six microalgae strains of the genus *Dunaliella*
G. Papapanagiotou, M. Panou, C. Giannakopoulos, G. Florokapi, G. Iakovou, G. Zalidis, K. Triantafyllidis, S. Gkelis

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Poster Session 1.3**Green and Sustainable Chemistry and Chemical technology**

- P1.3-20** Catalytic dehydration of xylose in aqueous and biphasic systems over zeolitic catalysts
S. P. Ioannidou, F. Stefanis, A. G. Margellou, K. S. Triantafyllidis
- P1.3-21** Application of an innovative electrical technique for the study of the stability of gas/liquid interfaces in liquid bridges
A. T. Zamanis, M. Kostoglou, T. D. Karapantsios

Poster Session 1.4**Inorganic Chemistry- Bioinorganic Chemistry- Nanochemistry**

- P1.4-1** Nano calcium carbonate and calcium phosphates synthesis using Solvay-process industrial wastewater
A. Szcześ, A. Nowocień
- P1.4-2** Synthesis, electrochemical and photoluminescent properties of alkaline earth-tetrazol coordination complexes and polymers
M. A. Bensegueni, Y. B. Selsabil
- P1.4-3** Hybrid zinc-enriched *Cornus mas L.* extracts in brain neuroprotection
S. Matsia, G. Lazopoulos, A. Salifoglou
- P1.4-4** Ferromagnetic 2D van der Waals CrxTey grown by Chemical Vapor Deposition
E. Symeonidou, A. Lintzeris, A. Dimoulas
- P1.4-5** Harnessing Oxygen Nanobubbles for Improved Niacinamide Penetration in Facial Gel Formulations: A Promising Approach for Skin Health.
C. K. Pappa, R. I. Kosheleva, G. Z. Kyzas, A. Ch. Mitropoulos

Poster Session 1.4**Inorganic Chemistry- Bioinorganic Chemistry- Nanochemistry**

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- P1.4-6** Enhancing Micellar Facial Water Efficiency: The Impact of Nanobubbles on Skin Cleansing.
C. K. Pappa, R. I. Kosheleva, G. Z. Kyzas, A. Ch. Mitropoulos
- P1.4-7** Copper(II) complexes with non-steroidal anti-inflammatory drugs and neocuproine: structure and biological activity
A. Bakali, G. Malis, A. G. Hatzidimitriou, G. Psomas
- P1.4-8** Cobalt(II) and zinc(II) complexes with non-steroidal anti-inflammatory drugs: Synthesis, characterization, and evaluation of biological activity
D. Kokkalis, A. G. Hatzidimitriou, G. Psomas
- P1.4-9** Structure and biological profile of the erbium(III) complexes with levofloxacin and sparfloxacin
E. Arnaouti, S. Kalogiannis, A. G. Hatzidimitriou, G. Psomas
- P1.4-10** Iron(III) complexes of substituted salicylaldehydes: synthesis, structural characterization, bioactivity and structure-activity relationship
Z. Papadopoulos, A. Hatzidimitriou, G. Psomas
- P1.4-11** Copper(I) complexes with phosphines and heterocyclic thioamides: Effect of the nature of ligands and the protonation state of the thioamide on their photophysical properties
A. Galani, D. Gioftsidou, N. Pliatsios, S. A. Tsoni, S. Kazantzi, A. Hatzidimitriou, P. Angaridis
- P1.4-12** Cu(I) complexes with phosphines and diimines as photosensitizers for photodynamic inactivation
K. Kavaratzi, D. Varna, A. G. Hatzidimitriou, R. Papi, P. A. Angaridis
- P1.4-13** Eu³⁺ and ligand-doped metal-organic frameworks for white-light emission
A. Psalti, A. Pournara, M. J. Manos, A. Hatzidimitriou, T. Lazarides

DAY 2 / 14 NOV

Poster Session 2.1

Advances in Food Science, Technology and Quality Control

- P2.1-1** Edible films enriched with encapsulated oregano essential oil: application on meat products
F. Plati, A. Matsakidou, G. Papadimitriou, **A. Paraskevopoulou**
- P2.1-2** Potential health-promoting effect of a probiotic yoghurt containing microcrystalline cellulose
A. Stamkopoulos, C. Kyrkou, P. Tsafrakidou, K. Babi, A. Doumas, G. Menexes, C. G. Biliaderis, A. M. Michaelidou
- P2.1-3** Influence of different commercial yeasts on the volatile fraction of the “Negoska” variety rose wines
A. Georgouloumis, Y. Kotseridis, **E. Chatzidimitriou**
- P2.1-4** Untargeted profile analysis for the evaluation of parameters influencing the overall quality of *Pinus halepensis* resin used in the vinification process of retsina
A. Nakas, E. Kechri, D. Samara, **C. Virgiliou**, H. G. Gika, A. N. Assimopoulou
- P2.1-5** Authentication of the fish *Sardina Pilchardus* with a molecular strip test
M. Kakarelidou, P. Christopoulos, **D. P. Kalogianni**, T. K. Christopoulos, A. J. Conides
- P2.1-6** Thermal stability assessment of aerated bigels suitable for Food 3D Printing of personalized cannabis edibles
E. G. Andriotis, A. Paraskevopoulou, D. G. Fatouros, C. Ritzoulis
- P2.1-7** Influence of potassium chloride marination on physicochemical properties and protein solubility of pork meat
E. Sakadani, G. Giovanopoulos, **E. Kazantzidis**, E. R. Martinou, E. Tacho, Y. Samaras, P. Kandyliis, D. Dimitrellou

Poster Session 2.1

Advances in Food Science, Technology and Quality Control

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- P2.1-8** Utilizing Isotopic Analysis to Enhance the Authentication of Cypriot Potato
E. Ioannou-Papayianni, E. Tzioni, C. Savvidou, C. Louka, C. Damaskinos, M. Tarapoulouzi, R. Kokkinofta
- P2.1-9** Revalorization of wine lees for bread production
M. Anastasopoulos, A. Zamanis, D. Koukoumaki, K. Giannoutsos, K. Gkatzionis, E. Naziri
- P2.1-10** Evaluation and selection of analytical methodology for the determination of patulin in fresh apples
E. Petsa, E. N. Papadakis, N. P. Kalogiouri, O. Menkisoglou-Spiroudi
- P2.1-11** Impact of eco-friendly packaging on roasted coffee beans aroma and coffee drinks sensory features
E. Vasileiou, K. Tychala, E. -M. Varka, A. Matsakidou, F. Plati, E. Chatzidimitriou, A. Paraskevopoulou
- P2.1-12** Boosting phytoene content in *Blakesleatrispora* by interfering pathways of β -carotene and ergosterol synthesis
E. Sferopoulou, P. Thanou, **F. Th. Mantzouridou**
- P2.1-13** Deodorization and photostability studies of *Chlamydomonas reinhardtii* dry biomass
F. Plati, V. Tzivri, M. Kantifoudi, A. Masi, A. Antonacci, **A. Paraskevopoulou**, M. A. Terzidis
- P2.1-14** Can avocado leaf improve the oxidative stability of virgin avocado oil?
S. Stefanidis, **I. Pyrka**, S. A. Ordoudi, N. Nenadis, K. G. Zinoviadou
- P2.1-15** Influence of storage conditions or processing on the lipid oxidation and flavor profile of snail meat preparations
M. A. Pissia, A. Matsakidou, N. Nenadis, A. Paraskevopoulou, V. Kiosseoglou

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Poster Session 2.1

Advances in Food Science, Technology and Quality Control

- P2.1-16** Research and Development of cream cheese produced by traditional yogurt
M. Spyrogianni, A. S. Thomareis
- P2.1-17** METROFOOD-Research Infrastructure towards the early phase implementation stage – AUTH involvement
M. Z. Tsimidou, F. Th. Mantzouridou, A. Kalogeropoulou, C. Zoani
- P2.1-18** Assessment of nutritional properties of *Valerianella locusta* growing in indoor vertical farm under water and nutrient stress.
N. Mougou, S. Didos, K. Tsotsouli, D. D. Avgoustaki, A. Argiriou
- P2.1-19** Effect of oregano and bay laurel essential oils on chitosan-based edible films properties
P. Alvanoudi, A. Bakali, A. Matsakidou, R. Papi, F. Th. Mantzouridou
- P2.1-20** Total phenolic content and antioxidant characteristics of apple pulp of different Greek cultivars and application in yogurts
S. Gkekas, R. Mersini, Y. Samaras, P. Kandyliis, D. Dimitrellou
- P2.1-21** A “Smart” TLC-DPPH Assay for Rapid Antioxidant Profiling of Olive and Avocado Leaf Extracts
D. Rachmanidi, N. Nenadis, S. A. Ordoudi
- P2.1-22** Observations on the importance of cis-apocarotenoids in saffron (*C. sativus L.*) stigmas as markers of quality deterioration
S. A. Ordoudi, C. Ricci, G. Imparato, M. Chroni, A. Nucara, A. Gerardino, F. R. Bertani
- P2.1-23** Physicochemical properties and antioxidant activity of Kefalonian craft beers and raw materials
T. Tripsanas, Y. Kolovos, Y. Samaras, P. Kandyliis

DAY 2 / 14 NOV

Poster Session 2.1

Advances in Food Science, Technology and Quality Control

- P2.1-24** The effect of harvesting time and filtration on the quality of extra virgin olive oils extracted from Koreneiki olive fruits from higher altitude Messianiki Mani
M. Rebholz, K. Zinoviadou, V. Papoti, C. Rebholz
- P2.1-25** Enhancing Probiotic Resilience under stress conditions and *in vitro* digestion via encapsulation
E. Bektasiadou, K. G. Zinoviadou, S. Lalou
- P2.1-26** Undersea wine aging: The example of Agrovision
A. Zamanis, E. Naziri, G. Kokkalidis, A. Evlogimenou, A. Gkoulioti

Poster Session 2.2

Analytical Chemistry and Quality Control in Bioanalytical, Food, Environmental and Archaeometric applications

- P2.2-1** Artificial intelligence and Analytical Chemistry: ChatGPT as a tool for academic research and teaching
G. Zachariadis, E. Rosenberg
- P2.2-2** 2-fluoro-1-methylpyridinium *p*-toluene sulfonate as a new derivatization reagent for vitamin D3
A. Alexandridou, D. A. Volmer
- P2.2-3** Utilizing ATR-FTIR spectroscopy coupled with PLS-DA to discriminate cashmere hair samples
C. Chrimatopoulos, M. L. Tummino, V. Sakkas
- P2.2-4** Speciation of gold nanoparticles and total gold in environmental samples by dispersive solid phase extraction on a thiol-functionalized Zirconium(IV) metal organic framework and determination with atomic absorption spectrometry
C. Tziasou, A. Pournara, M. J. Manos, D. L. Giokas, A. G. Vlessidis

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Analytical Chemistry and Quality Control in Bioanalytical, Food, Environmental and Archaeometric applications

- P2.2-5** Molecular Rapid Test for Identification of Tuna Species
I. P. Gkini, P. Christopoulos, D. P. Kalogianni, **T. K. Christopoulos**, A. Conides
- P2.2-6** DNA-based Screening Method for Differentiation of Olive Oil from Other Vegetable Oils
N. M. Christopoulou, V. Mamoulaki, A. Mitsiakou, E. Samolada, D. P. Kalogianni, T. K. Christopoulos
- P2.2-7** Ionic-liquid based capsule phase microextraction combined with post-column derivatization for the HPLC determination of Lanreotide in human urine
M. Ntorkou, A. Kabir, K. G. Furton, P. D. Tzanavaras, C. K. Zacharis
- P2.2-8** Mobile Raman as a Useful Tool to Determine Red-Coloured Gems in Rings of Hellenistic Period
M. Nikopoulou, S. Karampelas, E. Tsangaraki, L. Papadopoulou, C. Katsifas, I. Nazlis, A. Touloumtzidou, V. Melfos, N. Kantiranis
- P2.2-9** Development of an LC-QTOF-MS/MS method for the determination of the phenolic content in grapes
C. Karadimou, E. Petsa, U. Menkissoglu-Spiroudi, N. P. Kalogiouri, S. Koundouras
- P2.2-10** Synthesis, characterisation and LC/MS method development for sulfate-conjugated metabolites of AAs
D. Gallou, V. Sarli, G. Theodoridis, H. Gika
- P2.2-11** Detection and Quantitation of 21 PFAS in Meat, Fish, Egg and Milk by LC-MS/MS
S. Talilidou, A. Iakovakis, I. Kaidatzis, G. Theodoridis

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Analytical Chemistry and Quality Control in Bioanalytical, Food, Environmental and Archaeometric applications

- P2.2-12** Speciation of iron using Desferal by simple pH change and a single calibration curve: High-throughput optical sensor based on 96-well plates and an overhead book scanner as detector
D. Baltzis, A. Tsiasioti, C. K. Zacharis, P. D. Tzanavaras
- P2.2-13** Development and validation of a new fluorimetric method based on micro-analytical paper-based devices for the quantitative determination of glutathione in pharmaceutical formulations
M. Tarara, P. D. Tzanavaras, G. Z. Tsogas
- P2.2-14** Lab-in-syringe for automatic mercury determination by cvaas based on polyurethane foam extraction
N. Manousi, **A. Anthemidis**
- P2.2-15** Utilization of switchable-hydrophilicity benzoic acid for the microextraction of statins from urine samples
N. Manousi, P. D. Tzanavaras, C. K. Zacharis
- P2.2-16** Determination of histamine in food samples under the concept of Pulsed – Post Column Derivatization using the naphthalene-2, 3-dicarboxaldehyde reagent
A. Tsiasioti, P. D. Tzanavaras
- P2.2-17** Determination of thiols in yeast samples under the new concept of high performance liquid chromatography – pulsed – post column derivatization
A. Tsiasioti, P. D. Tzanavaras
- P2.2-18** An optimized extraction protocol for the determination of water-soluble and fat-soluble vitamins in fortified crackers analysed by HPLC-DAD
N. P. Kalogiouri, P. Mitsikaris, V. F. Samanidou

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Analytical Chemistry and Quality Control in Bioanalytical, Food, Environmental and Archaeometric applications

- P2.2-19** The role of bismuth film electrode (BiFE) in the electroanalysis of heavy metals (Cd, Pb) in urban soils; problems and perspectives
V. Keramari, O. D. Kantzou, C. Xagoraris, E. E. Golia, S. Girousi
- P2.2-20** Development and validation of an HPLC-DAD method for the determination of four non-steroidal anti-inflammatory drugs in breast milk samples after solid phase extraction using molecularly imprinted polymers
V. Kapsali, E. Kapsoura, A. Kabir, K. G. Furton, N. Kalogiouri, V. Samanidou
- P2.2-21** Chromatography and Accessibility for individuals with visual impairments using audio-tactile pictures
V. Samanidou, N. Manousi, F. Raptopoulou, L. Isaraj, K. Papadopoulos

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Experimental, Theoretical and Computational Physical Chemistry and Electrochemistry

- P2.3-1** Analytical predictions of random close packing of assembled spherical particles *via* an equilibrium model of crowding
A. Zaccone, C. Anzivino
- P2.3-2** Synthesis, characterization and electrochemical performance of brannerite-type NaVMoO₆
M. Milanova, T. Stankulov, P. Tzvetkov, I. Avramova, I. Piroeva, M. Shopska, L. Aleksandrov, R. Iordanova
- P2.3-3** Artificial saliva in experimental studies. An overview.
I. H. Makrygiannis, A. D. Kouvelas, I. N. Lykakis, G. Venetis, A. K. Nikolaidis
- P2.3-4** Nanostructured ZnSnO₃ for conductometric room temperature gas sensors
E. Mantsiou, E. Gagaoudakis, A. Sfakianou, V. Binas
- P2.3-5** Solar light-induced photocatalytic removal of Methyl Paraben from water using *g*-C₃N₄/CeO₂ photocatalyst
M. Zografaki, S. Stefa, I. Vamvasakis, G. Armatas, A. G. Chaidali, I. N. Lykakis, V. Binas
- P2.3-6** Using the fractal dimension to describe the surface topography of polyaniline-based thin films electrodeposited on stainless steel
A. Tiganouria, E. Marousiadou, C. Papoulia, D. Sazou
- P2.3-7** Construction of an apparatus for the photocatalytic determination of the Dilute Organic Carbon (DOC)
P. Mouratoglou, E. Kazala, I. Poulis

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Poster Session 3.1**Biochemistry, Clinical Biochemistry and Biotechnology**

- P3.1-1** Comparative study of carriers used in covalent immobilization of (S)-selective Amine Transaminases
N. Kaloudis, N. C. Liakouli, E. F. Maridaki, I. V. Pavlidis
- P3.1-2** Contribution of wastewater epidemiology to community COVID-19 surveillance. Case study: The city of Thessaloniki in Greece
M. Petala, T. Karapantsios, C. Dovas, M. Kostoglou, E. Moutou, M. Ziagova, T. Chassalevris, S. Chaintoutis, V. Tsiridis, D. Paraskevis, E. Roilides, A. Koutsolioutsou-Benaki, V. Sypsa, S. Metallidis, A. Papa, E. Stylianidis, A. Papadopoulos, S. Tsiodras, N. Papaioannou
- P3.1-3** Detection of bacterial plant pathogens by xMAP technology
A. Tsianiou, V. Giourieva, R. Papi

Poster Session 3.2**Computational Chemistry and Molecular Modelling**

- P3.2-1** Rationalizing Activity Thresholds for Drug Repurposing
A. Borota, S. Avram, R. Curpan, L. Halip, **A. Bora**, C. G. Bologna, T. I. Oprea
- P3.2-2** DrugCentral: A Comprehensive and Publicly Accessible Online Database of Approved Drugs and Therapeutic Uses
R. Curpan, L. Halip, A. Borota, A. Bora, S. Avram, C. G. Bologna, T. I. Oprea
- P3.2-3** Using Chemical Similarity and Drug Therapeutic Classification to Identify Drug Repurposing Opportunities
R. Curpan, **S. Avram**, T. I. Oprea
- P3.2-4** Protein-Ligand Docking guided by B-factor indices
L. Halip, R. Curpan, A. Borota, A. Bora, S. Avram

Poster Session 3.2**Computational Chemistry and Molecular Modelling**

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- P3.2-5** 2D-QSAR Study of a Series of substituted Imidazole Derivatives as Anti-fungal Agents
S. EM. Beghdadi, R. Menacer, S. Halilem, I. Hamel, O. Bensaid, Y. Dellaoui
- P3.2-6** PyMAF: A Software Tool for the Analysis and Visualization of the Induced Magnetic Field
R. Lingas, N. Charistos, M. P. Sigalas
- P3.2-7** Global optimization methods in chemistry: particle swarm optimization and genetic algorithms
E. Gounari, C. Garoufalis, E. Koukaras
- P3.2-8** $\text{Si}_n\text{Ge}_m\text{XkL}_l$ ($n, m=24-186; l=1-4$) Quantum Dots: Effects of Ligand Termination and Halogen Passivation on optoelectronic properties
G. K. Emmanouilidis, M. Hadjinicolaou, M. P. Sigalas, P. Karamanis, E. N. Koukaras
- P3.2-9** Functional Oxides for Integrated Photonics: A DFT Study on the Nonlinear Optical Properties of Doped Ytria-Stabilized Zirconia
E. Papasouli, C. S. Praveen, E. Koukaras, M. Rérat, P. Lecoeur, P. Karamanis

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Poster Session 3.3

Organic Synthesis of Bioactive Molecules and Natural Products

- P3.3-1** Investigation of CO₂ Extract of *Tagetes erecta* for antifungal activity from raw materials grown in Kazakhstan
M. Alimzhanova, Y. Syrgabek, N. Meirbekov, K. Ashimuly, S. Yegemova
- P3.3-2** Photochemical Synthesis of Lactones: Revealing the Role of Sodium Ascorbate
C. S. Batsika, M. Rrapi, I. Triandafillidi, C. G. Kokotos
- P3.3-3** Photocatalytic C-H Alkenylation and Alkynylation of Alkanes
N. A. Stini, P. L. Gkizis, C. G. Kokotos
- P3.3-4** Rapid one-pot access to functionalized benzothiazines
X. Lei, C. V. Tomza, C. Stoumpos, C. G. Neochoritis
- P3.3-5** Bisalkyne Modulators (BAM): The molecular tools for selective inhibition and detection of 15-LOX-1
A. Louka, D. Spacho, E. E. Kalaitzaki, M. Stratakis, N. Eleftheriadis
- P3.3-6** One-pot scalable synthesis of fused tetrazolo piperazinones and 1, 4-diazepanones *via* IMCRs
E. Fotopoulou, A. Vasilakis, C. Neochoritis
- P3.3-7** Metal-Free Synthesis of Carbamates through CO₂ Trapping
M. Fragkiadakis, P. K. Anastasiou, I. Volyrakis, A. Pantousas, C. Stoumpos, C. G. Neochoritis
- P3.3-8** Instant synthesis of artificial macrocycles
M. Fragkiadakis, P. K. Anastasiou, M. Zingiridis, M. E. Triantafyllou-Rundell, A. Reyes Romero, C. Stoumpos, C. G. Neochoritis
- P3.3-9** Design and synthesis of covalent inhibitors
M. Zingiridis, C. Neochoritis

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- P3.3-10** Development of a new route suitable for an industrial synthesis of Tazobactam
I. Zgouleta, T. Koftis, G. Rassias
- P3.3-11** Design, Synthesis and Biological evaluation of multifunctional hybrids
I. Fotopoulos, C. Eirini, I. C. Tsopka, V. Noti, C. Lapsiou, L. Anogeiati, M. Galani, V. Chioti, C. Tsambika, D. Dosis, D. Hadjipavlou-Litina
- P3.3-12** CuI-catalyzed synthesis of coumarin-triazole hybrids with biological interest
M. D. Douka, D. J. Hadjipavlou-Litina, K. E. Litinas
- P3.3-13** Synthetic quinolino-boron heterocycles and their antioxidant activity
A. Maniadaki, I. Fotopoulos, E. Kotali, A. Kotali, D. Hadjipavlou-Litina
- P3.3-14** Design and Synthesis of *N*-Acylhydrazone Derivatives as Anti-Inflammatory & Antioxidant Agents
A. Drakontaeidi, E. Pontiki
- P3.3-15** Tweaking acetyl and butyryl cholinesterase inhibitory selectivity in two series of compounds, 4-aminoquinolinones & 2, 4-diaminoquinolines
S. Katsamakos, G. Nigianni, A. Katopodi, A. Detsi, K. C. Prousis
- P3.3-16** The divergent logic towards the synthesis of sesquiterpenoids
K. Kelesidis, M. Mazaraki, K. Kourgiantaki, K. Gennaiou, A. L. Zografos

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Organic Synthesis of Bioactive Molecules and Natural Products

- P3.3-17** 3-acyltetramic acids as biomimetic scaffolds to access polyketide natural products: Oxidative ring expansion to 2-pyridones and investigation of PKS mimics
B. Kakarikas, A. Zografos
- P3.3-18** Design and Synthesis of Proteolysis Targeting Chimeras (PROTACs) against Myc
C. Siokatas, A. Lampropoulou, A. Smina, C. Tamvakopoulos, V. Sarli
- P3.3-19** Synthesis of selected analogs of the natural cytotoxic meroditerpenoid chabrolonaphthoquinone B
V. Y. Charalambous, K. A. Ouzounthanasis, A. E. Koumbis
- P3.3-20** Synthesis of ent-Aquilanols A and B *via* Retro-Cycloisomerization of (-)-Caryophyllene Oxide
A. Maliori, T. Athanasiadou, V. Psomiadou, G. G. Bagkavou, **C. I. Stathakis**
- P3.3-21** Synthesis of Fused *N*-heterocyclic Scaffolds Structurally Similar to Natural Product Luotonin A
M. Zarpeteas, K. C. Fylaktakidou

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Polymer and Colors Chemistry and Technology

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- P3.4-1** Effect of MWCNTs amount on the polymer nanocomposites surface properties
K. Terpiowski, I. Sulym, O. Goncharuk, E. Pakhlov, Z. Valdez-Nava
- P3.4-2** PET recovery from plastic wastes and its valorization by dyeing it.
S. Mpika, N. Nikolaidis, D. Bikiaris, **E. C. Vouvoudi**, N. Lazaridis
- P3.4-3** A Reactive Dye with One Vinylsulfone Reactive Group on Cotton Substrates
S. Lykidou, E. Gitsouli, **E. C. Vouvoudi**, N. F. Nikolaidis
- P3.4-4** Textile fibers technology and fiber structures: A Hands-On Approach
E. G. Andriotis, A. Korlos, M. Karypidis
- P3.4-5** Eco-sustainable composites based on poly(lactic acid) and waste products from the coffee industry
A. I. Petaloti, E. M. Varka, D. Achilias
- P3.4-6** Synthesis of poly (ethylene 2, 5-furan dicarboxylate) based nanocomposites by in-situ polymerization technique for food packaging applications.
J. Stanley, D. A. Lambropoulou, L. F. Zemljič, D. N. Bikiaris
- P3.4-7** Effect of Structure of Coupling Agent on the Properties of Dental Nanocomposite Materials
S. Karkanis, A. K. Nikolaidis, E. A. Koulaouzidou, D. S. Achilias

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Advanced and Sustainable Synthetic Methodologies in Organic Chemistry

Advanced and Sustainable Synthetic Methodologies in Organic Chemistry

- P3.5-1** X-ray Crystallographic and Spectroscopic Studies of Heterocyclic *o*-Quinone Derivatives
A. Gaile, S. Belyakov, V. Rjabovs, N. Batenko
- P3.5-2** Photochemical Aminochlorination of Alkenes Under Near-UV Irradiation
C. T. Constantinou, P. L. Gkizis, O. T. G. Lagopanagiotopoulou, E. Skolia, N. F. Nikitas, I. Triandafillidi, C. G. Kokotos
- P3.5-3** Upconverting biomass-derived furfural: Direct Diels-Alder reaction with maleimides in a bio-based green solvent
E. Skolia, C. G. Kokotos
- P3.5-4** N-Heterocyclic Iod(*az*)olium Salts as the Halogen-Bonding Catalyst for the Synthesis of Bis-indolyl Methanes (BIMs)
E. M. Galathri, T. Kuczmera, B. J. Nachtsheim, C. G. Kokotos
- P3.5-5** Catalyst-Free Light-Driven Michael Addition of Indoles to β -Nitroolefins in Aqueous Medium
P. Kolagkis, E. M. Galathri, C. G. Kokotos
- P3.5-6** Green Azoarene Reduction: Au-Nanoparticle-Catalyzed Hydrazoarene Synthesis with Ammonia Borane
D. Malliotaki, E. M. Zantioti-Chatzouda, M. Stratakis
- P3.5-7** Ring-Opening Hydrosilylation or Dehydrogenative Hydrosilylation of Cyclopropyl Carbonyl Compounds Catalyzed by Au-Nanoparticles
I. Zachilas, M. Stratakis
- P3.5-8** Alkynes to Heterocycles: Gold Nanoparticle or Amine-Catalyzed Synthesis of 4-Pyrones and 4-Pyridones
E. M. Zantioti-Chatzouda, M. Stratakis

- P3.5-9** Stereospecific Mizoroki-Heck Arylation of *cis*-1,2-Disilylarylethylenes Catalyzed by Pd Nanoparticles
G. Kyriakakis, M. Kidonakis, A. Louka, M. Stratakis
- P3.5-10** Nitroalkenes as versatile building blocks for the synthesis of five-membered *N*-Heterocycles
I. N. Lykakis
- P3.5-11** Visible Light-Driven Approach to *N*-Arylhydroxylamines: An Efficient Route for Indole Synthesis
K. Nikopoulos, M. G. Kallitsakis, I. N. Lykakis
- P3.5-12** Dual Synthetic Approaches to [5, 5] Bicyclic Lactams and Pyrroles starting with Nitrostyrenes
A. D. Kouvelas, I. N. Lykakis
- P3.5-13** Dual Synthetic Transformation of α -Iminonitriles to Imidates and Amides
A. G. Chaidali, Z. C. Sidiropoulou, I. N. Lykakis
- P3.5-14** Green one-pot synthesis of 3-amino, 3-benzensulfonamide and 3-urea 2-Me quinazolinone derivatives
C. Mikra, K. C. Fylaktakidou
- P3.5-15** Photoinduced metal-free synthesis of quinolines from anilines and aldehydes
C. Triantafyllidis, I. N. Lykakis
- P3.5-16** Photo-induced vs Dark C-H Allylic Oxygenation of Terpenoids
M. G. Kallitsakis, D. K. Gioftsidou, P. A. Angaridis, M. A. Terzidis, I. N. Lykakis

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