

SCIENTIFIC PROGRAM

Tuesday, 30th October, 2018

13:00-Registration Opens

14.30-15.00 OPENING CEREMONY

Welcome:

Secretary General for Research and Technology, Dr Matrona Kyprianidou, *GRST*

Professor Ioannis Emmanouil, *Dean of the School of Science*

Professor Christiana Mitsopoulou, *Chair of the Chemistry Department, Co-Chair of ACAC2018*

Professor Nikos Thomaidis, *Vice-Chair of the Chemistry Department, Co-Chair of ACAC2018*

Chair's Award of Excellence

15:00-16:35 SESSION 1a: Chairs: C. A. Mitsopoulou, E. Iatrou

- 15.00-15.45 P. L.: Polyhomologation: A Powerful Tool Towards Well-Defined Polyethylene-Based Polymeric Materials
Nikos Hadjichristidis (*King Abdullah University of Science and Technology (KAUST), Saudi Arabia and NKUA, Department of Chemistry, Greece (Professor Emeritus)*)
- 15.45-16.15 K.N: Molecular materials in nanoelectronics and organic photovoltaics
Panagiotis Argitis (*NCSR "Demokritos", Greece*)
- 16.15-16.35 I.L.: K-index: A Quantitative Correlator of Complex Nanomorphology, Synthetic Conditions and Material Properties
Nicholas Leventis, Tahereh Taghvaei, Suraj Donthula, Chariklia Sotiriou-Leventis (*Missouri University of Science & Technology, Rolla MO, U.S.A.*)

16.35-17.00

COFFEE BREAK

17:00-17:30 SESSION 1b: Chairs: M. Pitsikalis, P. Argitis

- 17.00-17.15 Chiral Molecular Brushes: Synthesis, Thermal and Optical Properties
Ioannis Choinopoulos, Marinos Pitsikalis (*NKUA, Greece*)
- 17.15-17.30 Fluorinated polymers for surface modification via lithography

17:30-18:15 SESSION 2: YOUNG' CAREER Chairs: N. Thomaidis, C. Methenitis

17.30-17.40 Φιλένια Σιδέρη, Πρόεδρος ΕΕΧ

17.40-17.50 Κων/ νος Σερέτης, Προϊστάμενος Τμήματος Παραγωγής Πενικιλίνων, ΕΛΠΕΝ

17.50-18.00 Δημήτρης Ιωσηφίδης (Ph.D., Εκτελεστικός Αντιπρόεδρος της **Μάλβα Α.Ε.**, Πρόεδρος και Διευθύνων Σύμβουλος της Greener than Green Technologies AE)

18.00-18.10 Κωνσταντίνος Βεργανελάκης, MSc Μηχανολόγος Μηχανικός, Διευθυντής Λειτουργιών WATT A.E.

18.15-20.00 WELCOME RECEPTION

Wednesday, 31st October 2018

09:00-10:35 SESSION 3a: Chairs: G. S. Papaefstathiou, P. Paraskevopoulou

- 9.00-9.45** P. L.: Luminescent Nanoparticles for Cell Mapping, Imaging of Blood Flow and Tissues
Zoe Pikramenou (*Univ. of Birmingham, UK*)
- 9.45-10.15** K. L.: Organic chemistry in coordination complexes: Reality or utopia?
Spyros P. Perlepes (*Univ. of Patras, Greece*)
- 10.15-10.35** I. L.: Soft N- and S-Site Ligands for Hg(II) coordination and Sensing and for Actinide(III)/Lanthanide(III) Separations
Ingrid Lehman-Andino, Indranil Chakraborty, Tosin M. Jonah, Raphael G. Raptis, Christopher J. Dares, Konstantinos Kavallieratos (*Florida International University, Miami, USA*)

10.35-11.00

COFFEE BREAK

11:00-14:30 SESSION 3b: Chairs: S. Perlepes, A. Philippopoulos

- 11.00-11.15** Chirality: When instead of one you get two and one is evil· Answers by crystallography.
Vassilis Psycharis (*NCSR "Demokritos", Greece*)
- 11.15-11.30** Advanced theranostic systems based on nanostructure materials
Eleni K. Efthimiadou (*NKUA, Greece*)
- 11.30-11.45** Lessons learnt by applying nickel dithiolene complexes as proton reducing electrocatalysts: hindsight and prospects
Athanasios Zarkadoulas, Martin J. Field, Vincent Artero, Christiana A. Mitsopoulou (*NKUA, Greece*)
- 11.45-12.00** Efficient Planar Perovskite Solar Cells by Incorporating Reduced Graphene Oxide in Absorber and Electron Transport Layers
Nikolaos Balis, Alaa A. Zaky, Chrysa Athanasekou, Athanassios G. Kontos, Polycarpus Falaras (*NCSR "Demokritos", Greece*)
- 12.00-12.15** Magnetostructural correlations in tetrahedral and octahedral Ni(II) complexes
Panayotis Kyritsis (*NKUA, Greece*)
- 12.15-12.30** Slow magnetic relaxation of mononuclear 3d-metal-ion complexes bearing imidodiphosphinato ligands
Eleftherios Ferentinos, Alexios Grigoropoulos, Panayotis Kyritsis (*NKUA, Greece*)
- 12.30-12.45** Ternary Rhodium-Molybdenum/Tungsten-Sulfur Clusters Exhibiting Predictable Properties of Electronic Nature
Nikoletta Xamonaki, Anastasios Asimakopoulos, Anastasios Balafas, Eleni Charalampous, Ioannis Choinopoulos, Emmanuel Simandiras, Spyros Koinis (*NKUA, Greece*)
- 12.45-13.00** Investigating the toxic effects of magnetic nanoparticles
Marios Krokidis, Danai Prokopiou, Eleni Efthimiadou (*NKUA, Greece*)

13.00-14.30

LUNCH

14:30-16:35 SESSION 4a: ECR COMPETITION Chairs: N. Leventis, K. Kavallieratos

- 14.30-15.15** P.L.: Nanophosphor-based contrast agents for deep tissue medical imaging
Kevin Smith, Josephine Garfield, Manos Gkikas (*University of Massachusetts Lowell, Lowell, USA*)
- 15.15-15.25** Mixed cation perovskite for planar and mesoscopic solar cells
Konstantina E. Gkini, Maria Antoniadou, Nikolaos Balis, Athanassios G. Kontos, Polycarpus Falaras (*NCSR "Demokritos", Greece*)
- 15.25-15.35** NMR metabolomic strategy: secondary metabolites from *Calea jamaicensis*
Maria-Eleni Grafakou, George-Albert. Karikas, Mahabir P. Gupta, Helen Skaltsa (*NKUA, Greece*)
- 15.35-15.45** Synthesis, characterization and catalytic properties of Ni(II) and Pd(II) complexes bearing (Ph₂P)₂N(R) ligands, R = ^tBu, (S)-CHMePh, (CH₂)₃Si(OEt)₃
Polydoros-Chrysovalantis Ioannou, Kalliopi Kakridi, Catherine P. Raptopoulou, Vassilis Psycharis, Jan Svoboda, Jiří Vohlídal, Ioannis Kostas, Panayotis Kyritsis (*NKUA, Greece*)
- 15.45-15.55** Nanotextured PMMA surfaces promote enrichment of cancer cells from mixtures with normal ones when used as culture substrates
Anastasia Kanioura, Panagiota Petrou, Dimitris Kletsas, Aggeliki Tserepi, Evangelos Gogolides, Margarita Chatzichristidi, Sotirios Kakabakos (*NCSR "Demokritos", Greece*)
- 15.55-16.05** A computational approach in the drug binding mechanism of candesartan to AT1 receptor using Molecular Dynamics
S.Kiriakidi, E. Chontzopoulou, A.Kolocouris, T.Mavromoustakos (*NKUA, Greece*)
- 16.05-16.15** Water Based Carbon Inks for the Printing Industry
Apostolos Koutsioukis, Vasilios Georgakilas, Vasiliki Belessi (*Univ. of Patras, Greece*)
- 16.15-16.25** Diastereoselective synthesis of phosphinic dipeptides via remote chirality induction during their assembly
Aggelos Lelis, Mirto Papathanasopoulou, Kostas Voreakos, Dimitris Georgiadis (*NKUA, Greece*)
- 16.25-16.36** A novel Ca-MOF for metal sorption from aqueous media
Antigoni Margariti, Sofia Rapti, Anastasia D. Pournara, Athanassios D. Katsenis, Tomislav Friscic, Theodore Lazarides, Manolis J. Manos, Giannis S. Papaefstathiou (*NKUA, Greece*)

16.35-17.00**COFFEE BREAK**

17:00-18:50 SESSION 4b: ECR COMPETITION Chairs: E. Theodorakis, P. Kyritsis

- 17.00-17.10** Synthesis of C-gluco- and carbasugar nucleosides as metabolically stable inhibitors of glycogen phosphorylase with antidiabetic potential
Konstantinos F. Mavreas, Athanasios Gimisis (*NKUA, Greece*)
- 17.10-17.20** Evaluation of NBs@air and NBs@O₂ effect on biological systems: Study of ROS-induced cell toxicity
E. D. Michailidi, G. Mitrikas, M. Krokidis, E. P. Favvas, E. K. Efthimiadou (*NKUA, Greece*)
- 17.20-17.30** Block copolymers with functional groups for emerging nanotechnologies
A. Nika, Th. Manouras, A. Diela, P. Argitis, M. Vamvakaki, M. Chatzichristidi (*NKUA, Greece*)
- 17.30-17.40** Poly (dimethylaminoethyl methacrylate)-*b*-poly (hydroxypropyl methacrylate) copolymers: Synthesis and pH/thermo-responsive behavior in aqueous solutions
Theodoros Sentoukas, Stergios Pispas (*NHRF, Athens, Greece*)

- 17.40-17.50** Fast, sensitive and selective determination of herbicide Glyphosate in water samples with a White Light Reflectance Spectroscopy biosensor
Eleftheria Stavra, Panagiota Petrou, Anastasios Economou, Konstantinos Misiakos, Ioannis Raptis, Sotirios Kakabakos (NCSR "Demokritos", Greece)
- 17.50-18.00** Alkaline Earth Metal-Organic Frameworks and Sorption Properties
Georgios D. Tarlas, Semina Aggeli, Pantelis N. Trikalitis, Anastasios J. Tasiopoulos, Manolis Manos, Giannis S. Papaefstathiou (NKUA, Greece)
- 18.00-18.10** Hybrid iron oxide/gold nanoflowers (GIONFs) for theranostic applications in cancer
Maria Theodosiou, Simona Miclaus, Beata Kalska-Szostko, Michael Pissas, Eleni Efthimiadou (NKUA, Greece)
- 18.10-18.20** ²³⁸U can work it out: An inorganic chemistry model approach
Sokratis T. Tsantis, Catherine P. Raptopoulou, Vassilis Psycharis, Demetrios I. Tzimopoulos, Spyros P. Perlepes (Univ. of Patras, Greece)
- 18.20-18.30** Development of enzyme immunoassays for the determination of C-reactive protein, procalcitonin, and interleukin-6 in human serum for sepsis diagnosis
Dimitra Tsounidi, Panagiota Petrou, Ioannis Raptis, Sotirios Kakabakos (NCSR "Demokritos", Greece)
- 18.30-18.40** Geochemical study of settled dust in Athens public buses and its implications on human health
Ipek Yildirim, Spyridoula Dalaina, Tatiana Ntamkarelou, Eirini Vrettou, Fotini Botsou (NKUA, Greece)
- 18.40-18.50** Metallocene -Mediated Cationic Polymerization of Vinyl Ethers. A New Route for the Synthesis of Statistical, Block and Graft Copolymers
Stavros Zouganelis, Eleftheria Batagianni, Arkadios Marathianos, Ekaterini Koraki, Ioannis Choinopoulos, Marinos Pitsikalis (NKUA, Greece)

18.30-20.00 POSTER PRESENTATION No 1-66

Thursday, 1st November 2018

09:00-10:35 SESSION 5a: Chairs: A. Koutselos, G. Souliotis

- 9.00-9.45** P.L.: Real-Time Path Integral Methods for Simulating the Quantum Dynamics of Condensed Phase Processes
Nancy Makri (*University of Illinois at Urbana-Champaign, Illinois*)
- 9.45-10.15** K.L.: Polymer and colloids go hypersonic
George Fytas (*Max Planck Institute for Polymer Research, Mainz, Germany an IESL-FORTH, Heraklion, Greece*)
- 10.15-10.35** I.L.: H₂O as a structural probe of mineral surfaces and reactions thereon
Georgios D. Chryssikos (*NHRF, Athens, Greece*)

10.35-11.00

COFFEE BREAK

11:00-12:15 SESSION 5b: Chairs: G.D. Chryssikos, J. Samios

- 11.00-11.15** Distribution of molecular structures away from equilibrium
Andreas D. Koutselos (*NKUA, Greece*)
- 11.15-11.30** Neutron-rich nuclei and the nucleosynthesis of the elements beyond iron
George A. Souliotis (*NKUA, Greece*)
- 11.30-11.45** The nature of the chemical bond in Be_{2,3} and B₃N₃H₆
Apostolos Kalemios (*NKUA, Greece*)
- 11.45-12.00** Spontaneous polarization of cryo-deposited thin films
Athanasios A. Tsekouras (*NKUA, Greece*)
- 12.00-12.15** Molecular logic gates and sensors
Demeter Tzeli (*NHRF, Greece*)

12:15-14:30 SESSION 6: Chair: P. Markaki, H. Proestos

- 12.15-12.45** K.L.: Food Composition Data Bases as an important tool in food and nutrition research and policy making
Maria Kapsokefalou (*AUA, Greece*)
- 12.45-13.00** Target, Suspect and Non-Target HRMS Screening Approaches for Food Authenticity and Quality: from Research to Industrial Applications
Marilena E. Dasenaki, Nikolaos S. Thomaidis (*NKUA, Greece*)

13.00-14.30

LUNCH

14:30-16:15 SESSION 7: Chairs: A. Economou, A. Calokerinos

- 14.30-15.15** P. L.: Designing Sensing Architectures
Leonidas Bachas (*College of Arts and Sciences, University of Miami, Coral Gables FL, U.S.A.*)
- 15.15-15.30** Liquid Biopsy: The potential of CTC molecular characterization and clinical applications
Evi Lianidou (*NKUA, Greece*)
- 15.30-15.45** MicroRNAs as potential cancer biomarkers: evaluation of miRNAs expression in clinical

samples of cancer patients

Athina Markou, E.S. Lianidou (NKUA, Greece)

15.45-16.00 Development, analytical and clinical validation of a novel multiplex RT-qPCR assay for the simultaneous quantification of AR splice variants (*AR-FL*, *AR-V7*, *AR-567es* and *AR-total*) in circulating tumor cells of mCRPC patients

Areti Strati, Martha Zavridou, Ilias Angelidis, Evangelos Bournakis, Evi Lianidou (NKUA, Greece)

16.00-16.15 *ESR1* methylation: a liquid biopsy-based epigenetic assay for the follow up of patients with metastatic breast cancer receiving endocrine treatment

Sophia Mastoraki, Areti Strati, Eleni Tzanikou, Maria Chimonidou, Eleni Politaki, Alexandra Voutsina, Amanda Psyrris, Vassilis Georgoulis, Evi Lianidou (NKUA, Greece)

16.15-16.45

COFFEE BREAK

16:45-17:30 SESSION 8: Chairs: E. Lianidou, E. Bakeas

16.45-17.00 Low-cost electrochemical biosensors based on nanolabels

Christos Kokkinos (NKUA, Greece)

17.00-17.15 Microfabricated devices for the voltametric determination of trace metals

Anastasios Economou (NKUA, Greece)

17.15-17.30 Automatic HRMS Screening of Environmental Samples Based on Regulatory Databases

Reza Aalizadeh, Nikolaos S. Thomaidis (NKUA, Greece)

17.30-19.00 POSTER PRESENTATION No 67-133

20:00- CONFERENCE DINNER

Friday, 2nd November 2018

09:00-10:45 SESSION 9a: Chairs: G. Kokotos, P. Moutevelis-Minakakis

- 9.00-9.45** P.L.: Drug discovery through the eyes of an organic chemist
Emmanuel A. Theodorakis (*University of California, San Diego, La Jolla, USA*)
- 9.45-10.15** K.N.: Gold Nanoparticle-Catalyzed Addition of Heteroelement σ Bonds to Functional Groups
Manolis Stratakis (*Univ. of Crete, Greece*)
- 10.15-10.45** K.L.: Intracellular antigen processing and adaptive immunity: opportunities for potentiating cancer immunotherapy approaches
Efstratios Stratikos (*NCSR "Demokritos", Greece*)

10.45-11.15 **COFFEE BREAK**

11:15-12:15 SESSION 9b: Chairs: T. Mavromoustakos, M. Stratakis

- 11.15-11.30** Sustainable Catalysis in Useful Organic Transformations
Georgios C. Vougioukalakis (*NKUA, Greece*)
- 11.30-11.45** Photocatalysis: Shedding Light to Organic Transformations
Christoforos G. Kokotos (*NKUA, Greece*)
- 11.45-12.00** Biodegradable hydroxylammonium-based protic ionic liquids and their role as versatile tools for green chemistry applications
Andromachi Tzani, Dimitris Skarpalezos, Anastasia Detsi (*NTUA, Greece*)
- 12.00-12.15** A Potent Inhibitor of Glycogen Phosphorylase Reveals the Basicity of the Catalytic Site
Thanasis Gimisis (*NKUA, Greece*)
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12:15-13:00 SESSION 10a: Chairs: M. Dassenakis, S. Karavoltsos

- 12.15-12.45** K.L.: Plastic pollution of our seas: facts and open questions
Christina Zeri (*HCMR, Greece*)
- 12.45-13.00** Addressing Contaminants in the Implementation of the EU Marine Strategy Framework Directive in Mediterranean
Th. Paramana, O. Chalkiadaki, G. Katsouras, E. Ladakis, M. Dassenakis (*NKUA, Greece*)

13.00-14.30 **LUNCH**

14:30-15:30 SESSION 10b: Chair: C. Zeri

- 14.30-14.45** Complexing capacity of Zn and Cu ions in the sea surface microlayer of coastal areas
Sotirios Karavoltsos, Aikaterini Sakellari, Marta Plavšić, Vassiliki Galanaki, Ioannis-Alexios Ioannidis, Nick Kalogeropoulos, Emmanouil Dassenakis, Michael Scoullas (*NKUA, Greece*)
- 14.45-15.00** Determination of Polycyclic Aromatic Hydrocarbons in ambient air of Greece and evaluation of their emissions sources
K. Koukoulakis, G. Kanellopoulos, E. Chrisohou, B. Koukoulas, E. Bakeas (*NKUA, Greece*)
- 15.00-15.15** Operational optimization of an MBR/RO sewer mining unit
A. Plevri, C. Noutsopoulos, D. Mamais, C. Makropoulos, A. Andreadakis, E. Lytras, S.

Samios, M. Despotidou (NTUA, Greece)

15.15-15.30 The multidisciplinary use of the marine CO₂-carbonate system parameters: from the lab to policy

Louisa Giannoudi, Evangelia Krasakopoulou, Gianni Michele, Martina Kralj, Giuseppe Civitarese, Katerina Souvermezoglou (HCMR, Greece)

15.30-15.45 Peak Estimation of a Spectrum from Noisy Measurements by Least Squares Piecewise Monotonic Data Approximation

Ioannis C. Demetriou (Dept. of Economics, NKUA, Greece)

15:45-16:30 CLOSING CEREMONY

PRIZES AND AWARDS

ECR oral competition

(Sponsored by Revival S.A.)

Posters' Awards

(Sponsored by EEX)

POSTER PRESENTATIONS

Wednesday, 31st October 2018

18:30-20:00 POSTER SESSION 1: POSTERS P1-P66

Polymer Chemistry

- P1** Novel Thermo Responsive Polymer-Drug Conjugates for Triggered Drug Delivery for Cancer Therapy
Maria Kourti, Marios Kouspis, Charalampos Flampouraris, Charalampos Triantis, Maria Rikkou-Kalourkoti (*Frederick Univ., Nicosia, Cyprus*)
- P2** Amphiphilic graphene derivatives self-assembled to 3D superstructures
Sofia Georgitsopoulou, Vasilios Georgakilas (*Univ. of Patras, Greece*)
- P3** Surface modification for bio-applications using fluorinated polymers
F. Machairioti, P. Bilalis, A. Nika, M. Milidis, P. Petrou, S. Kakambakos, P. Argitis, M. Chatzichristidi (*NKUA, Greece*)
- P4** Modern polymerizable clay nanoparticles for dental applications: synthesis and structural characteristics
Alexandros K. Nikolaidis, Elisabeth A. Koulaouzidou, Dimitris S. Achilias (*Aristotle Univ. of Thessaloniki, Greece*)
- P5** Surface Modification with Polymers for Covalent Attachment of Biomolecules via Azide Photochemistry
Fotini Vrettou, Panagiotis Argitis, Margarita Chatzichristidi (*NKUA, Greece*)
- P5a** Preparation of polymeric quaternary ammonium-containing hydrogels and coatings with released-based antimicrobial activity.
Theoni Dimitra, Nikos D. Koromilas, Georgios Bokias (*Univ. of Patras, Greece*)

Inorganic Chemistry

- P6** Synthesis, characterization and DNA interaction properties of the novel water soluble Zn(II) and Ru(II) asymmetric phthalocyanines complexes with peripherally quaternary ammonium substituent.
A. Aggelopoulou, A. Thimiopoulos, C. Methenitis, N. Psaroudakis (*NKUA, Greece*)
- P7** Structural, spectroscopic and magnetic properties of Ni(II) complexes bearing $\{\text{Ph}_2\text{P}(\text{O})\text{NP}(\text{E})\text{Ph}_2\}$, E = O, S, Se and (N, N) = diimine as ligands
Catherine Antonopoulou, Eugenia Oikonomidou, Konstantina Nano, Polydoros C. Ioannou, Eleftherios Ferentinos, Catherine P. Raptopoulou, Vassilis Psycharis, Panayotis Kyritsis (*NKUA, Greece*)
- P8** Nickel-Diimine Complex Synthesis and Characterization. An Eco-friendly Asset in the Photocatalytic Reduction of Water
S. Balou, X. Georgiou, X. Dima, C.A. Mitsopoulou (*NKUA, Greece*)
- P8a** Nickel-Diimine-Dithiolate Complex Synthesis, characterization, DNA binding and cell viability
S. Balou, E. Efthimiadou, C.A. Mitsopoulou (*NKUA, Greece*)
- P9** Synthesis of TiO₂ nanoparticles with antimicrobial effect at their application in mortars
Vasilios Bousis, Eleni Efthimiadou, Efstratios Badogiannis, Christina-Anna Mitsopoulou (*NKUA, Greece*)
- P10** Hydrosilylation of Unsaturated Substrates with Modified Forms of Wilkinson's Catalyst

Eleni Charalampous, Ioannis Choinopoulos and Spyros Koinis (NKUA, Greece)

- P11** Structural and vibrational properties of the AlX_3 and Al_2X_6 ($X = F, Cl, Br, I$) molecular species: a combined experimental and computational study
G.D. Zissi, C. Bessada and G.N. Papatheodorou, A. Chrissanthopoulos, G. Maroulis (FORTH, Greece)
- P12** Polydicyclopentadiene/polynorbornadiene aerogels *via* ring opening metathesis polymerization catalyzed by a ditungsten cluster
Despoina Chriti, Grigorios Raptopoulos, Maria Papastergiou, Patrina Paraskevopoulou (NKUA, Greece)
- P13** Organic aerogels with high degree of crosslinking via polymerization of dendritic monomers
Eleni Effraimopoulou, Maria Papastergiou, Despoina Chriti, Grigorios Raptopoulos, Patrina Paraskevopoulou (NKUA, Greece)
- P14** Metal Compounds as Catalysts for the Synthesis of Polyurea Aerogels – Comparison with Organocatalysts
Maria Papastergiou, Despoina Chriti, Grigorios Raptopoulos, Patrina Paraskevopoulou (NKUA, Greece)
- P15** Polydicyclopentadiene gels *via* ROMP Comparison between Catalytic Systems of Ru and W Applications in Environmental Remediation
Grigorios Raptopoulos, Despoina Chriti, Patrina Paraskevopoulou (NKUA, Greece)
- P16** Diastereoisomers in the family of six-coordinate complexes $[Ni(A-B)_2X_2]$
Panagiota Danelli, Sokratis T. Tsantis, Catherine P. Raptopoulou, Vassilis Psycharis, Athanasios Tsipis, Spyros P. Perlepes (Univ. of Patras, Greece)
- P17** Small Molecule Crystallography at the Institute of Nanoscience and Nanotechnology of NCSR “Demokritos”
Catherine P. Raptopoulou, Despina Dermitzaki, Sophia Tzani, Aris Terzis, Vassilis Psycharis (NCSR “Demokritos”, Greece)
- P18** Substituted pyridyl-quinoline based Ru(II) complexes as efficient catalysts for the transfer hydrogenation of aromatic ketones
V.A. Dritsopoulos, K. Koukoulakis, E. Bakeas, A.K. Andreopoulou, J.K. Kallitsis, A.I. Philipopoulos (NKUA, Greece)
- P19** Dye-sensitized solar cells with copper(I) complexes as dyes
Maria Drosou, George Syrokostas, Sofia Stefa, Spyros N. Yannopoulos, Christiana A. Mitsopoulou (NKUA, Greece)
- P20** Highly stable trimethyl sulfonium tin halide defect perovskites and their use in dye-sensitized solar cells
Mohamed M. Elsenety, Andreas Kaltzoglou, Maria Antoniadou, Athanassios G. Kontos, Athanassios I. Philippopoulos, Christiana A. Mitsopoulou, Polycarpos Falaras (NCSR “Demokritos”, Greece)
- P21** Photocatalytic reduction of 4-nitrophenol using cobalt ferrite-nanotubular titania composites
Islam Ibrahim, Andreas Kaltzoglou, Fotios Katsaros, Athanassios G. Kontos, Eamonn Devlin, Chrysoula Athanasekou, Georgios Manolis, Nektarios K. Nasikas, Christiana A. Mitsopoulou, Athanassios I. Philippopoulos, Polycarpos Falaras (NCSR “Demokritos”, Greece)
- P22** Application of Copper-Diimine Complexes as Eco-friendly Water Reduction Catalysts
G. Ioannidis, C.A. Mitsopoulou (NKUA, Greece)
- P23** A thieno[2,3-d]pyrimidine Rh(I) complex with potent anti-inflammatory and anti-cancer activity
Alexandros Kalampalidis, Constantinos Demopoulos, Eleni Efthimiadou, Athanasios Papakyriakou, Athanassios I. Philippopoulos (NKUA, Greece)
- P24** Novel Rh(I) complexes with thieno[2,3-d]pyrimidine ligands. Synthesis, spectroscopic characterization and evaluation of their antibacterial activity

Alexandros Kalampalidis, Eleni Efthimiadou, Athanassios I. Philippopoulos (NKUA, Greece)

- P25** Three novel Thiolate Complexes of Ni(II): Synthesis, Characterization and applications in photocatalytic hydrogen evolution
Fotios I. Kamatsos, Christiana A. Mitsopoulou (NKUA, Greece)
- P26** Synthesis and catalytic action of an heteroleptic diamine-thiolate complex of Ni(II) in water photosplitting
Fotios I. Kamatsos, Alexandra Exarchakou, Christiana A. Mitsopoulou (NKUA, Greece)
- P27** Synthesis, Characterization and applications of Diimine-Thiolate Complexes of Ni(II) in photoreduction of water
Fotios I. Kamatsos, Eirini Danopoulou, Christiana A. Mitsopoulou (NKUA, Greece)
- P29** Synthesis and characterization of Cu(II) complexes with glycosylated derivatives of 1,10-phenanthroline as potential new anticancer agents. In vitro studies of their biological activity.
T. Konstantopoulos, G. Bergele, K. Kintis, V. Mavroidi, M. Pelecanou, M. Paravatou-Petsotas, C. Methenitis (NKUA, Greece)
- P30** Synthesis, characterization and evaluation of multi sensitive microspheres by using the layer by layer method
Theodora S. Koutsikou, Marios G. Krokidis, Nikos Boukos, Eleni Efthimiadou, George Mitrikas (NKUA, Greece)
- P31** Photocatalytic Hydrogen Production with Alkylated Nickel bis-Dithiolene Complexes
Eugenia Koutsouri, Athanasios Zarkadoulas, Christiana A. Mitsopoulou (NKUA, Greece)
- P32** Comparing the effectiveness of Fe-Mg clays in removing Pb and Cu from aqueous solutions under static and dynamic sorption conditions
Zacharenia Kypritudou, Ariadne Argyraki, Georgios Chryssikos, Michael Stamatakis (NKUA, Greece)
- P33** Water Oxidation by Molecular Ruthenium Catalyst
Irene Ligielli, Marcos Gil Sepulcre, Marta Ventosa, Md. Asmaul Hoque, Nataliia Vereshchuk, Carolina Gimbert-Suripach, Antoni Llobet (NKUA, Greece)
- P34** Structural and magnetic properties of the $S = 3/2$ octahedral Co(II) complexes $[\text{Co}\{\text{PhC}(\text{O})\text{NP}(\text{O})\text{Ph}_2\}_2(\text{thf})_2]$, $[\text{Co}\{(\text{OPPh}_2)_2\text{N}\}_2(\text{dmsO})_2]$ and the 1D-coordination polymers $[\text{Co}\{(\text{OPPh}_2)(\text{EPPH}_2)\text{N}\}_2(4,4'\text{-bipy})]_n$, E = S, Se
Irene Ligielli, Eleftherios Ferentinos, Polydoros C. Ioannou, Catherine P. Raptopoulou, Vassilis Psycharis, Mykhaylo Ozerov, Jurek Krzystek, Panayotis Kyritsis (NKUA, Greece)
- P35** Characterization of Cu (II) and Zn (II) complexes with derivative of tetramic acid and study of their interaction with CT-DNA.
R. Pappa, A. Magiakos, C. Methenitis, J. Markopoulos, V. Mavroidi, M. Pelecanou, D. Matiadis, O. Igglessi-Markopoulou (NKUA, Greece)
- P36** Strategies for lanthanide(III) single-ion magnets based on Schiff bases
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- P37** Synthesis and Characterization of Fe_3O_4 Nanoparticles Stabilized by a Polyelectrolyte Derived from L alanine. In vitro studies of the biological activity.
I. Koulis, C. Methenitis, C. Aspiotis, M. Paravatou-Petsotas (NKUA, Greece)
- P38** A novel hydrodynamic method for bulk nanobubbles production; characterization and evaluation of wetting properties
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- P39** Coordination polymers based on oxalamide metallo-ligands
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- P40** Mononuclear, dinuclear, polynuclear and polymeric lanthanide(III) complexes based on *N*-(2-carboxyphenyl) salicylideneimine
Konstantinos Pantelis, Nikolaos C. Anastasiadis, Catherine P. Raptopoulou, Vassilis Psycharis, Spyros P. Perlepes (*Univ. of Patras, Greece*)
- P41** Crystal structures of Ru(II) and Ru(III) anticancer compounds binding to model proteins
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- P42** Synthesis, characterization and studies of carnosine complexes with transition metal ions
D. Pavlos, D. Hatzipanayioti (*NKUA, Greece*)
- P43** Heteroleptic Ru(II) complexes based on 2,6-bis-(pyrazolyl)-pyridine ligands. Synthesis, characterization and application in Dye-Sensitized Solar Cells
A. Peppas, V.-A. Dritsopoulos, D. Perganti, E.A. Pavlatou, P. Falaras, A.I. Philippopoulos (*NKUA, Greece*)
- P44** Heteroleptic Cu(I) complexes incorporating sterically demanding diazabutadiene ligands. Synthesis and structural characterization
A. Peppas, E. Papadaki, V. Magrioti, A. I. Philippopoulos (*NKUA, Greece*)
- P45** Coordination properties and metal ion-assisted transformations of organic ligands derived from picolinic acid hydrazide
Evangelos Pilichos, Evangelos Spanakis, Ioannis Mylonas-Margaritis, Stavroula Dionyssopoulou, Vassilis Psycharis, Spyros P. Perlepes (*Univ. of Patras, Greece*)
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- P47** Modified iron oxide magnetic nanoparticles for biological applications
Danai Prokopiou, Anna Laurenzanna, Marios G. Krokidis, Eleni K. Efthimiadou (*NKUA, Greece*)
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M. Roulia, G. Panagopoulou, K. Chassapis (*NKUA, Greece*)
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Maria Roulia, Alexandros A. Vassiliadis (*NKUA, Greece*)
- P50** Radiolabeled magnetic nanoparticles for cancer theranostics: carrier design and preliminary stability studies
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- P51** Characterization of molecular inorganic materials by magnetic and spectroscopic methods.
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- P52** Asymmetric phthalocyanines (A3B type): Synthesis and characterization of novel complexes
A. Thimiopoulos, E.D. Simandiras, N. Psaroudakis (*NKUA, Greece*)
- P53** Structural, spectroscopic and DNA cleavage properties of Cu(II) complexes bearing [Ph₂P(O)NP(O)Ph₂]⁻ and 2,2-bipyridine as ligands
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Nikolaos Zacharopoulos, Evgenia Kolovou, Athanassios I. Philippopoulos (*NKUA, Greece*)
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- P56** Tweaking hydrogen evolution catalysts: alkylated nickel dithiolene complexes for the electrocatalytic proton reduction
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- P57** Homoleptic and Heteroleptic Complexes of Cu(I) bearing dipyrrophenazine (dppz) ligands: interaction with DNA and cytotoxic studies
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Z. Diamanti, A. D. Koutselos (NKUA, Greece)
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- P60** A Theoretical Study of the Behavior of DMSO/Water Mixture at various Concentrations and Temperatures close to the corresponding Curve of the Freezing Points: Exploration of the Freezing Point Depression as a Function of the Mixture's Composition
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- P61** Molecular Dynamics Study of Water H₂O and HOD dissolved in the Room Temperature Ionic Liquid Emim⁺ Tf₂N⁻ Dynamical and Structural properties.
Leonidas Spyrogiannopoulos, Emmanouil Kainourgiakis, Ioannis Skarmoutsos, Jannis Samios (NKUA, Greece)

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- P63** DNA methylation analysis in liquid biopsy: a detailed study on quality control, sample storage and whole genome amplification procedures for downstream applications.
Sofia Mastoraki, Maria Chimonidou, Eleni Tzanikou, Evi Lianidou (NKUA, Greece)
- P64** Fluorescence in situ hybridization analysis in CTCs of non-small cell lung cancer patients isolated with the PARSORTIX platform
A. Ntzifa, M. Zavridou, P. Pollakis, G. Bardi, V. Georgoulas, A. Kotsakis, E. Lianidou (NKUA, Greece)
- P65** Gene expression analysis of circulating tumor cells in patients with head and neck squamous cell carcinoma; directed comparison of CTC-enrichment based on the EpCAM-independent PARSORTIX microfluidic device with EpCAM-based CTC isolation
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- P66** Evaluation of pre-analytical conditions for gene expression studies in CTCs
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- P69** Oxidative degradation of metformin using laboratory and pilot scale reactors
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- P70** Comparison of different sample preparation methods for the multi-residue detection and quantification of pesticides in fruit juices by LC-MS/MS and GC-MS/MS
H. Botitsi, B. Papaioannou, S. Antoniou, D. Tsipi, A. Economou (NKUA, Greece)
- P72** A new colorimetric reaction for the quantitative measurement of oleocanthal and oleacein in extra virgin olive oil. Comparison with the qNMR and Folin- Ciocalteu methods
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- P73** Development and Validation of an Automated Gradient Elution Flow Injection Chromatography Method using a Monolithic Column for the Determination of Two Synthetic Dyes
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- P74** Determination of VOCs in the exhaled breath of normal, smoking and vaping individuals
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- P76** Phytochemical investigation and Antimicrobial activity of isolated sesquiterpene lactones from *Crepis incana* Sm
Christina Barda, Ana Ciric, Marina Sokovic, Michael Tsoukalas, Helen Skaltsa (NKUA, Greece)
- P77** Design and synthesis of new benzothiazole derivatives as potent BRAF^{V600E} inhibitors
Yakinthi Batsi, Georgia Antonopoulou, Ioannis D. Kostas (NHRF, Greece)
- P78** An Improved Formal Synthesis of Abyssomicin C
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- P79** Interactions between candesartan and its prodrug candesartan cilexetil in complex with HP- β -cyclodextrin

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- P81** Phytochemical analysis and biological activity of *Cedrus brevifolia* needles
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- P82** Synthesis of N^4 -aryl- β -D-glycopyranosylcytosines as Glycogen Phosphorylase Inhibitors: A New Approach
Eirini Emmanouil, Thanasis Gimisis (NKUA, Greece)
- P83** Optically active derivatives of pyrrolidine and 2-pyrrolidinone: Synthesis, in vitro evaluation and computational study.
T. D. Gerokonstantis, A. Nikolaou, E. Kaffe, I. Ninou, A. Afantitis, V. Aidinis, G. Kokotos, P. Moutevelis-Minakakis (NKUA, Greece)
- P84** 3-aryl-coumarins and coumarin-chalcone hybrids possessing dual bioactivity
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- P86** Functional electrospun micro/nanofibrous systems
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- P87** Design, synthesis and chemical modification of new phenolic esters with enhanced photoprotective characteristics
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- P88** Synthesis of a novel, non-symmetrical, fluorinated fluorescein analog
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- P89** Molecular rotors as fluorescent probes of glycogen phosphorylase
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