

Organized by



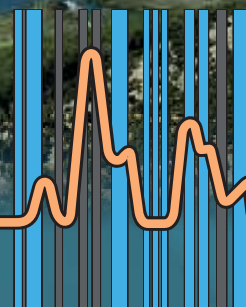
University
of Ioannina



National Technical
University of Athens

20 years

IMA-2019



www.ima2019.gr

11th

International Conference on
Instrumental Methods of Analysis
Modern Trends and Applications

22-25 September 2019

Grand Serai Hotel
Ioannina, Greece

SCIENTIFIC PROGRAM

POSTER SESSION 1 • P1-01 – P1-62

Bioanalytics / Chemometrics / Food Analysis / Foodomics /
Mass spectrometry / Metabolomics / X-ray spectroscopy

- P1-01** PREPARATION OF NANOCERIA CONJUGATES FOR BIOANALYTICAL ASSAYS
I. P. Gkini, T. K. Christopoulos
- P1-02** CHEMICAL COMPOSITION AND EVIDENCE FOR A SELECTIVE ANTICANCER ACTIVITY OF HELLEBORUS CYCLOPHYLLUS BOISS ON A549 CANCER CELL LINE
P. Yfanti, A. Karkabounas, A. Batistatoy, M. E. Lekka
- P1-03** A NOVEL ELECTROCHEMICAL SENSOR BASED ON REDUCED GRAPHENE OXIDE AND MOLECULAR IMPRINTED OVER-OXIDIZED POLYPYRROLE MODIFIED GOLD NANOPARTICLES FOR AMOXICILLINE DETECTION
H. Essousi, H. Barhoumi, S. Karastogianni, S. Girousi
- P1-04** DETECTION OF MYCOBACTERIUM AVIUM SUBSPECIES PARATUBERCULOSIS IN INFANT FORMULAS BY CULTURE, PCR AND COMBINED PHAGE-PCR
G. Botsaris, Maritsa Christodoulou, Catherine Rees
- P1-05** INORGANIC ANALYSIS OF TEA SAMPLES USING ENERGY-DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY AND MULTIVARIATE VARIANCE ANALYSIS
M. Musielak, R. Sitko, B. Walczak
- P1-06** FT-IR SPECTROSCOPY IN COMBINATION WITH CHEMOMETRICS FOR THE DETERMINATION OF THE GEOGRAPHICAL ORIGIN OF EXTRA VIRGIN OIL
E. Kakouri, P.K. Revelou, N.S. Sotiropoulou, Ch. Kanakis, C. Pappas, P.A. Tarantilis
- P1-07** SPECTROSCOPIC-CHEMOMETRIC METHOD FOR THE INVESTIGATION OF HONEY BOTANICAL ORIGIN
N.S. Sotiropoulou, M. Xagoraris, E. Kakouri, P.K. Revelou, C. Kanakis, C. Pappas, P. A. Tarantilis
- P1-08** CHEMISTRY STUDENT'S KNOWLEDGE AND AWARENESS ABOUT BASIC FOOD CONSTITUENTS, THEIR FEATURES AND ROLE
C. Piperidi, K. Akrida-Demertzi, P. Demertzis, G. Tsaparlis
- P1-09** EFFECT OF NATURAL PRODUCTS AGAINST FOODBORNE PATHOGENS
C. Michael, G. Botsaris, A. Chrysargyris, V. Goulas, N. Tzortzakis
- P1-10** APPLICATION OF MYCOBACTERIOPHAGE FOR RAPID DETECTION AND BIOLOGICAL CONTROL OF MYCOBACTERIA IN DAIRY PRODUCTS: THE CASE OF PARATUBERCULOSIS
N. Markantonis, G. Botsaris
- P1-11** IMPROVEMENT OF THE QUALITY OF A GREEK DISTILLATE (TSIPOURO) FROM GRAPES OF THE DEBINA VARIETY WITH THE ADDITION OF SELECTED SUPERFRUITS
K. Gkougkoulis, K. Akrida- Demertzi, P. Demertzis
- P1-12** EFFECT OF IRRIGATION ON THE BIOLOGICALLY ACTIVE COMPONENTS OF TOMATOES
R. Tömösközi-Farkas, B. Schmidt-Szantner, M. Nagy-Gasztonyi, P. Milotay
- P1-13** A REAL-TIME PCR-BASED METHOD FOR THE IDENTIFICATION OF OLEA EUROPAEA var. SYLVESTRIS (WILD-TYPE OLIVE)
C. Kyriakopoulou, D. Kalogianni

- P1-14** ASSESSMENT OF MILK PASTEURIZATION USING A SMARTPHONE OR A CONVENTIONAL DIGITAL CAMERA
A. Sevastou, S. S. Tragoulias, D. P. Kalogianni, T. K. Christopoulos
- P1-15** SIMPLE ANALYTICAL METHODOLOGY FOR THE DETERMINATION OF NEONICOTINOID PESTICIDE RESIDUES IN HONEY SAMPLES
S. Pateras, C. Tsoutsi, T. Albanis
- P1-16** GREEK HONEY AND MILK SPECTROSCOPIC ANALYSIS: BOTANICAL CLASSIFICATION, ORIGIN DISCRIMINATION AND ADULTERATION STUDIES
N. Fragkoulis, E. Orfanakis, M. Markoulidakis, A. Symianaki, A. Zoumi, M. Velegrakis
- P1-17** SPECTROSCOPIC ANALYSIS OF GREEK EXTRA VIRGIN OLIVE OIL: ORIGIN DISCRIMINATION AND ADULTERATION STUDIES
R. Kontzedaki, G. Stavarakakis, G. Sofra-Karanti, E. Orfanakis, N. Fragkoulis, A. Filippidis, S. Mavrakaki, A. Stamataki, M. Velegrakis
- P1-18** FATTY ACID PROFILING IN BLOOD OF HEALTHY INDIVIDUALS AND PATIENTS WITH HYPERLIPIDEMIA AND ASSOCIATION
T. Mouskeftara, A. Goulas, A. Asimopoulou, N. Raikos, G. Theodoridis, E. Gika
- P1-19** PHYSICOCHEMICAL CHARACTERIZATION OF CASEIN MICELLES FOR NANOFORMULATIONS IN FOOD INDUSTRY
A. Papagiannopoulos, M. D. Charavgi, P.F. Karakousi, I. Tseti, E.D. Chrysina, S. Pispas
- P1-20** METABOLOMIC APPROACH FOR GREEK HONEY ORIGIN DISCRIMINATION MAKING USE OF ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED TO HIGH RESOLUTION MASS SPECTROMETRY
G. Koulis, P. Katsianou, E. Panagopoulou, C. Proestos, N. Thomaidis
- P1-21** SINGLE PARTICLE ICP-MS: NEW PEAK IDENTIFICATION APPROACH FOR ULTRAFAST MEASUREMENT
M. Loula, A. Kana, O. Mestek
- P1-22** DETERMINATION OF MACRO- AND MICROELEMENT CONCENTRATIONS IN COAL AND ASH SAMPLE BY ICP-MS
V. Lyubomirova, V. Mihaylova, B. Zlateva, B. Todorov, R. Djingova
- P1-23** PHOTOLYTIC AND PHOTOCATALYTIC DEGRADATION OF FUROSEMIDE: KINETICS, IDENTIFICATION OF TRANSFORMATION PRODUCTS AND REACTION PATHWAYS USING LIQUID CHROMATOGRAPHY-ACCURATE MASS SPECTROMETRY (UPLC-MS/MS-LTQ-ORBITRAP)
G. Koutsikou, I. Konstantinou
- P1-24** PHARMACEUTICAL RESIDUES IN HOSPITAL WASTEWATERS USING LIQUID CHROMATOGRAPHY COUPLED TO HIGH-RESOLUTION MASS SPECTROMETRY
M. Kapsi, P. Konstas, E. Trantopoulos, Ch. Kosma, A. Karkabounas, V. Boti, I. Konstantinou, T. Albanis
- P1-25** COUPLING LIBS TO SSI-MS. INTERFERENCE OF PLASMA FORMATION WITH MASS ANALYSIS
K. Marmatakis, S. A. Pergantis, D. Anglos

- P1-26** IN-DEPTH INVESTIGATION OF THE OCCURRENCE OF PER- AND POLYFLUORINATED SUBSTANCES IN TOP PREDATORS AND THEIR PREY EMPLOYING HIGH-RESOLUTION MASS Spectrometry
A. Androulakakis, N. Alygizakis, G. Gkotsis, V. Nikolopoulou, M.-C. Nika, A. Cincinelli, R. Dekker, G. Duke, N. Glowacka, B. Knopf, J. Koschorreck, T. Martellini, P. Movalli, H. Ruedel, R. Shore, G. Treu, J. Slobodnik, N. Thomaidis
- P1-27** APPLICATION OF SINGLE PARTICLE INDUCTIVELY COUPLED PLASMA - MASS SPECTROMETRY FOR THE DETECTION AND CHARACTERIZATION OF METAL-CONTAINING NANOPARTICLES IN SEAWATER SAMPLES
M.I. Chronakis, M. Mavrikis, S.A. Pergantis, R.Á. Fernández García, M. Montes - Bayón, J. Bettmer, A. Tsiola, A. Gondikas, M. Tsapakis
- P1-28** EVALUATION OF ADVANCED DRINKING WATER TREATMENT PROCESSES BY A COMBINATION OF POWERFUL MASS SPECTROMETRIC TECHNIQUES AND EPR SPECTROSCOPY
M. Antonopoulou, N. Ioannidis, C. Avagianos, T. Kaloudis, T. Triantis, A. Hiskia
- P1-29** DETERMINATION OF 12 PHTHALATE ESTERS IN GREEK GRAPE MARC SPIRITS BY LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY
D. Diamantidou, O. Begou, H. Gika, E. Tsochatzis, S. Kalogiannis, N. Kataiftsi, E. Soufleros, G. Theodoridis, A. Zotou
- P1-30** BUILDING A LOCAL LIBRARY OF REFERENCE HPLC CHROMATOGRAMS AND QTOF-MS MASS SPECTRA USING THE MSMLS KIT
D. Diamantidou, P. Katechis, E. Lazaridou, H. Gika, G. Theodoridis
- P1-31** ANALYSIS AT TRACE LEVELS OF POLYCHLORINATED BIPHENYLS IN ENVIRONMENTAL WATER SAMPLES BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY
P. Siachoulis, V. Boti, T. Albanis
- P1-32** DETERMINATION OF NITROFURAN METABOLITES IN FISH SAMPLES BY MEANS OF LIQUID CHROMATOGRAPHY COUPLED TO HIGH-RESOLUTION-ORBITRAP MASS SPECTROMETRY
E. Trantopoulos, Ch. Kosma, A. Karkabounas, V. Boti, T. Albanis
- P1-33** NOVEL MALDI-TOFMS-BASED METHODOLOGY FOR RAPID DETECTION OF PDO FETA CHEESE ADULTERATION
A. Kritikou, D. Damalas, I. Barla, C. Baessmann, N. Thomaidis
- P1-34** NON-SPECTRAL INTERFERENCES IN SINGLE-PARTICLE ICP-MS
A. Kaňa, M. Loula, O. Mestek
- P1-35** DETERMINATION OF RARE EARTH ELEMENTS OF HIGH CONTENTS IN RARE EARTH ORE USING 5-ACID DIGESTION BY ICP-MS
W. Myung Choi, C. Hun Eum
- P1-36** DEVELOPMENT AND VALIDATION OF METHOD FOR DETERMINATION OF TREE NUT ALLERGENS WITH LC-MS/MS
K. Rodi, M. Kostakis, N. Thomaidis, G. Siragakis
- P1-37** DEVELOPMENT OF A MULTI-RESIDUE METHODOLOGY FOR THE DETERMINATION OF VETERINARY DRUGS IN ANIMAL FEED BY RP-HPLC-MS/MS
A. Christopoulou, A. Kritikou, M. Dasenaki, N. Thomaidis

- P1-38** MARKERS OF OXIDATIVE STRESS AND AMINOACIDS IN INFANT'S SERUM SAMPLES WITH URETEROPELVIC JUNCTION OBSTRUCTION BY STABLE - ISOTOPE DILUTION GC-MS WITH NEGATIVE CHEMICAL IONIZATION
O. Begou, A. Bollenbach, K. Drabert, A. Pavlaki, H. Gika, N. Printza, G. Theodoridis, D. Tsikas
- P1-39** CHEMOMETRIC APPROACH TO THE OPTIMIZATION OF HS-SPME/GC-MS PARAMETERS FOR THE DETERMINATION OF MULTICLASS PESTICIDE RESIDUES IN FRUITS AND VEGETABLES
E. Ayeni Kikelomo, L. B. Abdulra'uf
- P1-40** A GC-MS METHOD FOR THE DETERMINATION OF FIVE NPS IN WHOLE BLOOD AND THE DETECTION OF SIX NPS IN URINE
A. Alexandridou, T. Mouskeftara, E. Gika, O. Mastrogianni, A. Orfanidis, N. Raikos
- P1-41** DETERMINATION OF ROYAL JELLY FREE FATTY ACIDS BY LIQUID CHROMATOGRAPHY-HIGH RESOLUTION MASS SPECTROMETRY
M. G. Kokotou, C. Mantzourani, R. Babaiti, G. Kokotos
- P1-42** METABOLOMIC PROFILING OF ZEBRAFISH WITH NMR AND LC-MS/MS AFTER EXPOSURE TO NON-DOPED, N-DOPED AND N,S-DOPED CARBON NANODOTS
K. Pliatsika, T. Chatzimitakos, I. Chousidis, I. Leonardos, C. Stalikas
- P1-43** UNTARGETED FECAL METABOLOMICS-BASED ANALYSIS OF CAROB TREATED RATS
O. Begou, O. Deda, H. Gika, I. Taitzoglou, N. Raikos, A. Agapiou, G. Theodoridis
- P1-44** METABOLOMICS ANALYSIS REVEALS THE PARTICIPATION OF EFFLUX PUMPS AND ORNITHINE IN THE RESPONSE OF PSEUDOMONAS PUTIDA DOT-T1E CELLS TO CHALLENGE WITH PROPRANOLOL
A. Sayqal
- P1-45** METABOLOMICS ANALYSIS FOR THE IN VITRO TOXICITY ASSESSMENT OF COCAINE IN HEPG2
A. Krokos, C. Virgiliou, H. Gkika, N. Raikos, E. Aggelidou, A. Kritis, G. Theodoridis
- P1-46** TARGETED AND UNTARGETED METABOLOMICS OF MICE URINE AND FECAL SAMPLES, IN THE DISCOVERY OF ALCOHOL TOXICITY BIOMARKERS
C. Virgiliou, O. Deda, A. Orfanidis, H. Gika
- P1-47** XRD CHARACTERIZATION OF CRYSTALLINITY AND PHASE COMPOSITION OF SUBFOSSIL HOLOCENE REINDEER BONES AND ANTLERS FROM THE UST'-POLUY ANCIENT SANCTUARY (WESTERN SIBERIA, RUSSIA)
A. Ryanskaya, D. Kiseleva, P. Kosintsev, O. Bachura, S. Votyakov, N. Fedorova, A. Gusev
- P1-48** AN X-RAY SPECTROSCOPY STUDY ON THE MECHANISM OF SB(V) AND CR(VI) ADSORPTION BY TIN AND IRON OXY-HYDROXIDES
G. Papadopoulos, T. Asimakidou, D. Karfaridis, F. Pinakidou, K. Simeonidis
- P1-49** EUROPEAN NETWORK FOR CHEMICAL ELEMENTAL ANALYSIS BY TOTAL REFLECTION X-RAY FLUORESCENCE
D. Eichert, L. Borgese

- P1-50** NON-INVASIVE COMPOSITIONAL STUDY OF COPPER ALLOY VESSELS FROM THE ARCHAIC CEMETERY OF SINDOS IN THESSALONIKI
C. Katsifas, A. Touloumzidou, G. Zachariadis
- P1-51** DEVELOPMENT AND VALIDATION OF A HPLC-PDA METHOD FOR THE DETERMINATION OF OLMESARTAN MEDOXOMIL.
T. Meikopoulos, E. Andriotis, D. Fatouros, N. Mavriki, C. Pourzitaki, G. Theodoridis, H. Gika
- P1-52** LIQUID CHROMATOGRAPHY COUPLED TO QUADRUPOLE-ORBITRAP MASS SPECTROMETRY TO INVESTIGATE THE OCCURRENCE OF PHARMACEUTICAL RESIDUES IN NATURAL WATERS
V. Boti, D. Kifokeri, C. Nannou, T. Albanis
- P1-53** DETERMINATION OF AMITRAZ, BROMOPROPYLATE, COUMAPHOS AND T-FLUVALINATE RESIDUES IN HONEY BY QUECHERS AND HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-UV/DAD
E. Gotsi, V. Boti, T. Albanis
- P1-54** A GC/MS METHOD FOR THE DETECTION AND QUANTIFICATION OF C12-16 ALKYL DIMETHYLAMINES IN HUMAN BLOOD
E. Brousa, O. Mastrogianni, A. Orfanidis, N. Raikos, H. Zagelidou
- P1-55** VALIDATION AND APPLICATION OF METHOD FOR THE DETERMINATION OF PESTICIDE RESIDUES IN NATURAL WATERS AND SEDIMENTS, COUPLED TO GC-MS DETERMINATION
M. Kapsi, V. Sakkas, T. Albanis
- P1-56** ANALYTICAL METHODS FOR THE DETECTION OF PHARMACEUTICALS AND THEIR METABOLITES IN SURFACE WATERS
A. Kalogeropoulou, Ch. Kosma, T. Albanis
- P1-57** BIORECOVERY OF SCANDIUM AND OTHER RARE EARTH ELEMENTS FROM GREEK RED MUD
K. Kiskira, O. Serifi, G. Lytras, G. Lyberatos, M. Ochsenkuehn-Petropoulou
- P1-58** DETERMINATION OF MAJOR ELEMENTS IN BULGARIAN BOTTLED MINERAL WATER
V. Lyubomirova, V. Mihaylova, B. Zlateva-Rangelova, R. Djingova
- P1-59** A UHPLC-MS/MS METHOD FOR THE DETECTION AND QUANTIFICATION OF 84 DRUGS OF ABUSE AND PHARMACEUTICALS IN HUMAN BLOOD
A. Orfanidis, H. Gika, G. Theodoridis, O. Mastrogianni, N. Raikos
- P1-60** AN EFFICIENT DLLME-GC-MS METHOD DEVELOPED FOR THE DETERMINATION OF MONOHYDROXY AND DIHYDROXY PAHs METABOLITES IN HUMAN URINE
S. Zichová, S. Hrouzková, T. Göen
- P1-61** MODIFIED GRAPHENE OXIDE FOR RARE EARTH METALS' PRECONCENTRATION METHOD AFTER DISPERSIVE SOLID PHASE EXTRACTION AND OPTIMIZATION WITH CENTRAL COMPOSITE DESIGN
N. Manousi, E. Deliyanni, G. Zachariadis
- P1-62** COMPARISON OF THE DATA OBTAINED BY XRF AND ICP-AES FOR ANALYSIS OF BELT ACCESSORIES DATED TO THE GREAT MIGRATION PERIOD IN BULGARIA
B. Zlateva, D. Lesigyarski, V. Mihaylova, V. Lyubomirova, R. Djingova, I. Kuleff, L. Vagalinski

POSTER SESSION 2 • P2-01 – P2-61

Aerosol metrology / Archaeometry / Chemical- and bio- sensors / Chromatography / Environmental analysis / Materials / Mobile analytical instruments / Pharmaceutical analysis / Sample handling / Sensors / Spectrochemical analysis / Thermal analysis

- P2-01** CASCADE IMPACTOR SAMPLING HARMONIZED TO NON-DESTRUCTIVE ELEMENTAL ANALYSIS OF AEROSOL PARTICLES
C. Dian, J. Osan, E. Börcsök, L. Stabile, S. Török
- P2-02** AEROSOL METROLOGY FOR ATMOSPHERIC SCIENCE AND AIR QUALITY
F. Tsopeles, M. Ochsenkuehn Petropoulou, T. Lympelopoulou, L. A. Tsakanika, K. M. Ochsenkuehn, O. Serifi, C. Stergiopoulos, B. Beckhoff
- P2-03** MINERALOGICAL COMPOSITION OF THE BRONZE AGE POTTERY FROM THE KAMENNY AMBAR SETTLEMENT (SOUTHERN URALS, RUSSIA)
A. Ryanskaya, M. Piskareva, D. Kiseleva, S. Panteleeva
- P2-04** MINERALOGICAL AND CHEMICAL COMPOSITION OF PREHISTORIC PIGMENTS FROM CAVE PAINTINGS AND PICTOGRAPHS (SOUTHERN URALS, RUSSIA) BY SEM-EDS AND RAMAN SPECTROSCOPY
D. Kiseleva, E. Shagalov, E. Pankrushina, A. Ryanskaya, V. Shirokov
- P2-05** ALL-SCREEN-PRINTED INTEGRATED PERMANENT BONDED MAGNETS ELECTROCHEMICAL CELLS
A. Papavasileiou, M. Prodromidis, I. Panagiotopoulos
- P2-06** INVESTIGATION OF A MULTIPLEX INJECTOR FOR TIME-RESOLVED GAS CHROMATOGRAPHIC MONITORING
M. Antoniadou, E. Rosenberg, J. Kahr
- P2-07** DETERMINATION OF PESTICIDES IN RIVER WATER SAMPLES BY SOLID PHASE EXTRACTION COMBINED WITH HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY/UV DETECTION (HPLC/UV-DAD)
K. Boushi, V. Boti, T. Albanis
- P2-08** ON-LINE EXTRACTION COUPLED TO LIQUID CHROMATOGRAPHIC ANALYSIS OF HYDROPHOBIC ORGANIC COMPOUNDS IN SOILS
A. Votani, T. Choleva, M. Tarara, C. Tziasiou, G. Tsogas, A. Vlessidis, D. Giokas
- P2-09** OPTIMIZATION AND VALIDATION OF HPLC METHOD FOR SOME PESTICIDES FROM HUMAN URINE AND COMMERCIAL DOSAGE FORM
W. H. Gebrehiwot, C. Erkmen, B. Uslu
- P2-10** BREATH ANALYSIS: A NOVEL NON-INVASIVE TOOL FOR MONITORING RECOVERY AFTER EXERCISE-INDUCED MUSCLE DAMAGE IN HUMANS.
K. Mikedi, E. Moutafis, S. Karma, A. Pappa, A. Krokidas, T. Nomikos
- P2-11** QUECHERS-HPLC METHOD FOR AFLATOXIN DETECTION OF FOODS
L. B. Abdulra'uf, A. Sirhan, G. Huat Tan, R. C. S Wong
- P2-12** GAS CHROMATOGRAPHY AS A TOOL FOR THE OPTIMIZATION OF DOCOSAHEXAENOIC ACID (DHA) RECOVERY FROM CRYPTHECODINIUM COHNII MICROALGA
M. Stramarkou, A. Chalima, V. Oikonomopoulou, E. Topakas, M. Krokida

- P2-13** MICELLAR CHROMATOGRAPHY USING TWEEN-20 AS SURFACTANT: ELUTION MECHANISM AND QUANTITATIVE RETENTION- ACTIVITY RELATIONSHIPS FOR ESTIMATION OF BIOPHARMACEUTICAL PROPERTIES OF STRUCTURALLY-DIVERSE DRUGS
F. Tsopelas, K. Vasileiou, E. Leventaki, A. Tsantili- Kakoulidou
- P2-14** THE POTENTIAL OF IMMOBILIZED PLASMA PROTEIN HIGH PERFORMANCE LIQUID CHROMATOGRAPHY TO ESTIMATE ECOTOXICITY OF PESTICIDES
C. Stergiopoulos, F. Tsopelas, M. Petropoulou-Ochsenkuehn
- P2-15** INITIATING EFFICIENT SB(V) REMOVAL FOR DRINKING WATER BY A MECHANISM OF REDUCTION/ADSORPTION SEQUENCE
T. Asimakidou, G. Vourlias, K. Kalaitzidou, M. Mitrakas, K. Simeonidis
- P2-16** SYNTHESIS AND CHARACTERIZATION OF Ag, ZnO AND AgZnO DECORATED GRAPHENE OXIDE FOR ENVIRONMENTAL APPLICATIONS
N. Adamopoulos, A. Ntziouni, A. Zourou, K. Kordatos
- P2-17** GRAPHENE OXIDE/ATTAPULGITE AND GRAPHENE OXIDE/ZEOLITE COMPOSITE HYBRID MATERIALS AS ADSORBENTS IN DYES WASTEWATER TREATMENT
P. Koukakis, N. Adamopoulos, A. Zourou, K. Kordatos
- P2-18** SYNTHESIS AND CHARACTERIZATION OF MAGNETIC GRAPHENE OXIDE FOR ENVIRONMENTAL APPLICATIONS
A. Zourou, N. Adamopoulos, A. Ntziouni, K. Kordatos
- P2-19** SYNTHESIS AND CHARACTERIZATION OF GRAPHENE OXIDE-CERIA NANOHYBRID MATERIAL
A. Zourou, A. Koniaris, A. Ntziouni, K. Kordatos
- P2-20** GRAPHENE OXIDE/ β -CYCLODEXTRIN NANOHYBRID AS AN ADSORBENT FOR DYES REMOVAL
A. Zourou, N. Adamopoulos, A. Ntziouni, K. Kordatos
- P2-21** MICRO-LIBS MAPPING OF MARINE MOLLUSK SHELLS ENABLES RELIABLE USE OF Mg/Ca AS A TEMPERATURE PROXY
N. Hausmann, I. Malegiannaki, A. Lemonis, P. Siozos, D. Anglos
- P2-22** DETERMINATION OF THREE ANTIDEPRESSANT DRUGS BY FABRIC-PHASE SORPTIVE EXTRACTION (FPSE) COUPLED TO HPLC-UV/DAD
C. Chrimatopoulos, C. Jimenez-Holgado, M. Kalampoka, V. Sakkas
- P2-23** SILICON LEACHABILITY FROM BAUXITE RESIDUE-THE CASE OF GEL FORMATION
L.A. Tsakanika, T. Lympelopoulou, M. Ochsenkuehn Petropoulou
- P2-24** MAGNETIC GRAPHENE OXIDE SOLID-PHASE EXTRACTION OF SELECTED PHARMACEUTICALS FROM ENVIRONMENTAL WATERS
M. Kalampoka, T. Chatzimitakos, C. Stalikas, V. Boti, T. Albanis, V. Sakkas
- P2-25** FLUORESCENT CARBON NANODOTS FROM OLIVE OIL PRODUCTION RESIDUES: PREPARATION, CHARACTERIZATION AND ANALYTICAL APPLICATION
N.M. Christopoulou, D. Kalogianni, T. Christopoulos
- P2-26** EFFECT OF CARBON ADDITIVE ON SINTERING OF ZIRCONIA CERAMICS
S. Ghyngazov

- P2-27** THE EFFECT OF pH ON THE STRUCTURAL AND OPTICAL PROPERTIES OF CARBON QUANTUM DOTS
P. Tsintavi, A. Segos, A. Ntziouni, N. Adamopoulos, L.A. Tsakanika, E. Alexandratou, C. Tsamis, K. Kordatos
- P2-28** UV-FEMTOSECOND DOUBLE-PULSE LIBS FOR THE IN-SITU CHARACTERIZATION OF ITO-BASED THIN FILMS
N. Giannakaris, P. Siozos, S. P. Banerjee, M. Sentis, D. Anglos
- P2-29** SYNERGISTIC EFFECTS OF SOLID-PHASE INTERACTIONS IN FERRITE POWDER SYSTEMS UNDER COMPLEX HIGH-ENERGY MECHANICAL AND ELECTRON-BEAM IMPACTS
A. Surzhikov, E. Nikolaev
- P2-30** FLUORESCENCE INSTRUMENTATION FOR RAPID, IN SITU DETERMINATION OF DISSOLVED ORGANIC MATTER IN WATER
É. Kónya, M. Berki, S. Klátyik, D. Lázár, D. Csősz, S. Lenk, A. Barócsi, T. L. Csőke, A. Csákányi, L. Domján, G. Szarvas, L. Kocsányi, N. Adányi, A. Székács
- P2-31** FLUORESCENCE INSTRUMENTATION FOR RAPID, IN SITU DETERMINATION OF ALGAL DENSITY IN WATER
D. Lázár, B. Gémes, S. Klátyik, É. Kónya, M. Berki, D. Csősz, S. Lenk, A. Barócsi, T.L. Csőke, A. Csákányi, L. Domján, G. Szarvas, L. Kocsányi, N. Adányi, A. Székács
- P2-32** FLUORESCENCE INSTRUMENTATION FOR RAPID, IN SITU DETERMINATION OF PAHS IN SURFACE WATER
M. Berki, É. Kónya, B. Gémes, S. Klátyik, D. Csősz, S. Lenk, A. Barócsi, T. L. Csőke, A. Csákányi, L. Domján, G. Szarvas, L. Kocsányi, N. Adányi, A. Székács
- P2-33** APPLICATION OF ANALYTICAL QUALITY BY DESIGN PRINCIPLES FOR THE DETERMINATION OF ALKYL P-TOLUENESULFONATES IMPURITIES IN APREPITANT BY HPLC. VALIDATION USING TOTAL-ERROR CONCEPT
C. Zacharis, E. Vastardi
- P2-34** INSTRUMENTAL ANALYTICAL METHODS AS A TOOL FOR THE EVALUATION OF DEOXYCHOLIC ACID ENCAPSULATION EFFICIENCY IN NATURAL MATRICES USING ELECTROHYDRODYNAMIC PROCESS
M. Panagiotopoulou, S. Papadaki, M. Krokida
- P2-35** OCCURRENCE, REMOVAL AND ENVIRONMENTAL RISK ASSESSMENT OF PHARMACEUTICALS IN HOSPITAL AND URBAN WASTEWATERS
P. Martinaiou, E. Trantopoulos, C. Kosma, T. Albanis
- P2-36** CHARACTERIZATION OF THE ANTIMICROBIAL ACTIVITY OF HERBAL EXTRACTS FOR REPLACING ANTIBIOTICS IN LIVESTOCK
M.S.G. Kafyra, A. Anastasiadis, M. Krokida
- P2-37** DEVELOPMENT AND VALIDATION OF AN RP-HPLC METHOD FOR THE ANALYSIS OF GUAIACOL IN A PHARMACEUTICAL DOSAGE FORM
A. Addoun, C. Chelghoum

- P2-38** MAGNETIC MOLECULARLY IMPRINTED POLYMER NANOPARTICLES AS SOLID PHASE EXTRACTION MATRIX IN THERAPEUTIC DRUG MONITORING
M. Nebesen, M. Al-Ghobashy, O. Attallah
- P2-39** SYNTHESIS OF MAGNETIC BIMETALLIC Fe-Cu NANOPARTICLES FOR THE DISPERSIVE MICROEXTRACTION OF EMERGING POLLUTANS
A. Vasilas, T. Chatzimitakos, C. Stalikas
- P2-40** A NOVEL APPROACH: pH CONTROLLED DISPERSIVE LIQUID-LIQUID MICROEXTRACTION (DLLME) OF PAHS METABOLITES FROM HUMAN URINE
S. Hrouzková, T. Göen, S. Zichová
- P2-41** RHODIUM NANOPARTICLES AS PEROXIDASE-MIMETICS FOR THE DETERMINATION OF GLUCOSE
T. Choleva, V. Gatselou, G. Tsogas, A. Vlessidis, D. Giokas
- P2-42** DISPERSIVE LIQUID-LIQUID MICROEXTRACTION METHOD FOR HPLC DETERMINATION OF PHENOLIC COMPOUNDS IN CAROB SYRUP
V. Goulas, C. Kalogirou
- P2-43** APPLICATION OF DISSOLVABLE LAYERED DOUBLE HYDROXIDES AS AN EXTRACTION MEDIUM OF GOLD NANOPARTICLES PRIOR TO THEIR DETERMINATION BY ATOMIC ABSORPTION SPECTROMETRY
T. Choleva, D. Giokas
- P2-44** DETERMINATION OF HYDRAZINE BY ON-LINE SOLID PHASE EXTRACTION AND DERIVATIZATION USING ZONE FLUIDICS
P. Tzanavaras, C. Zacharis, S. Themistokleous
- P2-45** PAPER-BASED DNA BIOSENSOR FOR VISUAL DETECTION OF MILK ADULTERATION
E. Bougadi, D. Kalogianni
- P2-46** SYNTHESIS, CHARACTERIZATION AND ANALYTICAL UTILITY OF FREE-STANDING PH RESPONSIVE POLYMER FILMS IN SENSING APPLICATIONS
E. Tzianni, A. Lazanas, M. Trachioti, A. Florou, M. Prodromidis, I. Moutsios, D. Moschovas, M. Karabela, A. Avgeropoulos
- P2-47** MICROFLUIDIC PLATFORM FOR FUNCTIONALISATION, EXTRACTION AND DETECTION OF PHOSPHORYLATED AMINO ACIDS USING FLUORESCENT SENSORY PARTICLES
S. C. Burnage, J. Bell, W. Wan, K. Rurack
- P2-48** ADVANCED SENSORS FOR HEAVY METALS BASED ON MONOELEMENTAL 2D BISMUTHENE AND GRAPHENE NANOCOMPOSITES PRODUCED BY SHEAR-FORCE LIQUID EXFOLIATION
A. Lazanas, A. Paipetis, M. Prodromidis
- P2-49** qNMR AS A POWERFUL TOOL FOR PROVIDING PURITY ASSESSMENT AND METROLOGICAL TRACEABILITY
C. Alexopoulos, A. Georgopoulou, P. Giannikopoulou, E. Kakoulides, E. Stathoudaki, V. Schoina, A. Panagiotopoulou
- P2-50** NOVEL ¹H NMR METHOD FOR THE DETERMINATION OF ANTHOCYANINS IN FRUIT EXTRACTS
V. Goulas, I. Gerathanassis, G. Manganaris

- P2-51** RAPID AND SENSITIVE NMR AND MOLECULAR DYNAMICS MAPPING OF SELECTIVE BINDING SITES OF FATTY ACIDS WITH ALBUMIN
I. Gerothanassis, E. Alexandri, A. Primikyri, G. Papamokos
- P2-52** FLUORESCENCE SPECTROSCOPY – AN EFFECTIVE TOOL FOR CHARACTERIZATION OF GOLD NANOPARTICLES-PROTEINS CONJUGATES – THE COMPONENTS OF BIOANALYTICAL SYSTEMS
D. Sotnikov, E. Zvereva, A. Zherdev, B. Dzantiev
- P2-53** PHOTOCHEMICAL REDUCTION OF SILVER HALIDES FOR THE COLORIMETRIC DETERMINATION OF BIOTHIOLS WITH CONSUMER ELECTRONIC IMAGING DEVICES AS DETECTORS
F. Kappi, M. Tarara, G. Tsogas, A. Vlessidis, D. Giokas
- P2-54** HYPER-SPECTRAL RAMAN MAPPING OF MODERN HUMAN ENAMEL AND DENTIN
E. Pankrushina, D. Kiseleva, A. Ryanskaya, A. Lyogkih, N. Ozhgikhina, Y. Mandra
- P2-55** ANALYTICAL AND STRUCTURAL STUDIES OF LIPIDS AND RELATED COMPOUNDS WITH THE USE OF NMR AND DFT CALCULATIONS
T. Venianakis, M. Siskos, I. Gerothanassis
- P2-56** OPTICAL SCREENING OF BIOTHIOL LEVELS BASED ON ABSORBANCE QUENCHING OF GOLD-COATED SURFACTANT MICELLAR ASSEMBLIES
E. Akrivi, N. Kourkoumelis, A. Vlessidis
- P2-57** THERMAL ANALYSIS STUDY OF g-C₃N₄ PREPARATION USING Al, Al₂O₃, Pt/Rh COVERED AND UNCOVERED CRUCIBLES
F. Bairamis, T. Vaimakis, I. Konstantinou, D. Petrakis
- P2-58** INVESTIGATIONS OF BIOMATERIALS WITH VIDEO PARTICLE TRACKING MICRORHEOLOGY
A. Papagiannopoulos
- P2-59** APPLICATION OF THE QUECHERS TECHNIQUE FOR THE PRE-CONCENTRATION OF MALATHION PESTICIDES IN FRUIT SAMPLES
L. Chimuka, H. Musarurwa, N. Tavengwa
- P2-60** MONITORING OF ANTIBIOTICS IN THE PYRENEAN RIVER WATERS USING SOLID-PHASE EXTRACTION UPLC-MS/MS
E. Avramiotis, S. Gozzo, S. Godin, M. Peña Ormad, J. Szpunar
- P2-61** ASSESSMENT OF EXPOSURE TO ENDOCRINE DISRUPTING COMPOUNDS USING GAS CHROMATOGRAPHIC-MASS SPECTROMETRIC ANALYSIS OF COMPOSITE FOOD SAMPLES IN A TOTAL DIET STUDY
A. Karakitsou, D. Hela