



TURCMOS

II. International Turkish Congress
on Molecular Spectroscopy **2015**

SEPTEMBER 13-18

Akdeniz University / Antalya / Turkey

Scientific Program

www.turcmos2015.org





ANTALYA TURKEY

SEPTEMBER 13-18

2015

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WELCOME TO TURCMOS 2015

On the behalf of the Scientific Committee and Organizing Committee, we would like to welcome you all to the "International Turkish Congress on Molecular Spectroscopy (TURCMOS2015)". The scope of the congress is to encourage the exchange of ideas and future collaborations all around the world, introduce new techniques and instruments, and present recent developments in this field of research. In the congress, all aspects of spectroscopic methods as well as related computational and theoretical approaches will be considered. Contacts between young researchers (M.Sc. and Ph.D.) and prominent experts will be particularly stimulated, aiming at the development of future collaborations.

We hope that the congress will provide you intellectual and social experience. We wish you enjoyable week in Antalya.

Ozan ÜNSALAN
President

Gülce ÖĞRÜÇ İLDİZ
Vice President

Topics

The congress will include the scientific topics below:

1. Vibrational (IR and Raman) Spectroscopic Techniques
2. Electron Spin Resonance (ESR) Spectroscopy
3. Mössbauer Spectroscopy
4. Fluorescence Spectroscopy
5. Microwave Spectroscopy
6. Applied Spectroscopies (Archaeology, Geology, Astrophysics, Mineralogy, Biology, Arts & History, Environmental Analysis, Food Analysis and Processing, Forensic Sciences)
7. Matrix Isolation Infrared Spectroscopy and Low Temperature Spectroscopy
8. Theoretical and Computational Methods
9. Spectroscopy in Drug Design and Drug Discovery

Organizing Committee:

Ozan ÜNSALAN (*University of Istanbul, Istanbul, Turkey*) **(President)**

Gülce ÖĞRÜÇ İLDİZ (*Istanbul Kültür University, Istanbul, Turkey*) **(Vice President)**

Sevgi BAYARI (*Hacettepe University, Ankara, Turkey*)

Erol EROĞLU (*Akdeniz University, Antalya, Turkey*)

Serpil KILIÇ (*Akdeniz University, Antalya, Turkey*)

Murat KILIÇ (*Akdeniz University, Antalya, Turkey*)

Nuri YORULMAZ (*Akdeniz University, Antalya, Turkey*)

Zekiye Eda BOYLUĞ (*Akdeniz University, Antalya, Turkey*)

Ersin KAYGISIZ (*University of Istanbul, Istanbul, Turkey*)

Hayrunnisa Nur KABUK (*Istanbul Kültür University, Istanbul, Turkey*)

Samet KIZILKAYA (*University of Istanbul, Istanbul, Turkey*)

Furkan Ali KÜÇÜK (*University of Istanbul, Istanbul, Turkey*)

Duhan KULUNÇKIRAN (*Istanbul Kültür University, Istanbul, Turkey*)

Burçay YAVAŞ (*Istanbul Kültür University, Istanbul, Turkey*)

Burkay AYTÜRK (*Istanbul Kültür University, Istanbul, Turkey*)

Sefa SAYLAN (*Istanbul University, Turkey*)

İpek ŞAHİN (*Ege University, Turkey*)

Çisem ALTUNAYAR (*Ege University, Turkey*)

Scientific Committee:

- Rui FAUSTO
(Coimbra University, Portugal)
- Sevgi BAYARI
(Hacettepe University, Ankara, Turkey)
- Weitao YANG
(Duke University, USA)
- Maral SÜNNETÇİOĞLU
(Hacettepe University, Ankara, Turkey)
- Semra IDE,
(Hacettepe University, Ankara, Turkey)
- Alpaslan Hamdi KUZUCUOĞLU
(Yeniüzyıl University, Istanbul, Turkey)
- Juergen POPP
(Institute of Photonics Technology, Germany)
- Michael OSHTRAKH
(Ural Federal University, Russian Federation)
- Cuauhtemoc Araujo ANDRADE
(Autonomous University of Zacatecas, Mexico)
- Mustafa ÇULHA
(Yeditepe University, Turkey)
- Mustafa KURT
(Ahi Evran University, Turkey)
- Sibel TUNÇ
(Akdeniz University, Antalya, Turkey)
- Nihal KUS
(Anadolu University, Turkey)
- Mustafa BÖYÜKATA
(Bozok University, Yozgat, Turkey)
- Eser Ercan ALP
(Argonne National Laboratory, Illinois, USA)
- Jadson C. BELCHIOR
(Universidade Federal de Minas Gerais, BH, BRASIL)
- Nadide KAZANCI
(Ege University, Turkey)

Invited Speakers:

- Prof. Dr. Peter VANDENABEELE**
University of Gent, Belgium
- Prof. Dr. Rui FAUSTO**
Coimbra University, Portugal
- Prof. Dr. Philippe COLOMBAN**
Pierre & Marie Curie University, France
- Dr. Parvez HARIS**
De Montfort University, Leicester, UK
- Prof. Dr. Harold LINNARTZ**
Leiden Observatory, Sackler Laboratory for Astrophysics, Netherlands
- Prof. Dr. H. Michael HEISE**
University of Applied Sciences of South-Westphalia Interdisciplinary Center for Life Sciences, Germany
- Prof. Dr. Mustafa ÇULHA**
Yeditepe University, Turkey
- Dr. Emre ERDEM**
University of Freiburg, Germany
- Prof. Dr. Weitao YANG**
Duke University, USA
- Prof. Dr. Jadson C. BELCHIOR**
Universidade Federal de Minas Gerais, BH, BRASIL



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08:00 - 08:50	Registration
09:00 - 09:30	OPENING CEREMONY
	Session Chair: Rui Fausto
09:30 - 10:20	PL-01 - Philippe Colombar On-site Raman analysis of Cultural Heritage artefacts and materials with mobile instruments: drawbacks and success
10:20 - 11:10	PL-02 - Harold Linnartz The Molecular Universe - Spectroscopy as a tool to unravel interstellar chemistry
11:10 - 11:30	COFFEE BREAK
11:30 - 12:20	PL-03 - Mustafa Çulha Surface-enhanced Raman Scattering from Protein Detection to Cancer Diagnosis
12:20 - 14:00	LUNCH BREAK
	Session Chair: Peter Vandenabeele
14:00 - 14:20	O-01 - Calculation of transient absorption spectra for the intramolecular electron transfer / Vladislav V. Yudanov, Serguei V. Feskov
14:20 - 14:40	O-02 - Measurement of air quality from greenhouses based on photoacoustic spectroscopy / Ioana Ruxandra Ivascu, Consuela Elena Matei, Mihai Patachia, Ana Maria Bratu, Dan Constantin Dumitras, Ovidiu Jerca
14:40 - 15:00	O-03 - Theoretical calculation of the optical and spin-hamiltonian parameters for the rhombic cu ²⁺ center in [Cd(sac) ₂ (HydEt-en) ₂] powders / Emel Kalfaoğlu
15:00 - 15:20	COFFEE BREAK
	Session Chair : Emre Erdem
15:20 - 15:40	O-04 - The challenge of static corrections in high dune areas / Wesam Elboaisi Elboaisi, Ziad Siad Aiob
15:40 - 16:00	O-05 - Comparison of Photo Physical Properties of 7-diethylamino-3-thenoyl coumarin and 7-diethylamino coumarin / Sanjay Kumar
16:00 - 16:20	O-06 - Interaction of 6-methoxyquinoline with anionic sodium dodecylsulfate micelles: Photophysics and rotational relaxation dynamics at different pH / Tej Varma Yenupuri, Debi D Pant
18:00 - 22:00	COCKTAIL - (WELCOME PARTY)

	Session Chair : Harold Linnartz
09:00 - 09:50	PL-04 - Rui Fausto An Excursion on Molecular Conformational Landscapes: Discovering Rare Species in the Highlands
09:50 - 10:40	PL-05 - Peter Vandenabeele Raman spectroscopy in archaeometry: in situ and in vitro investigations of art and archaeology objects
10:40 - 11:00	COFFEE BREAK
11:00 - 11:50	PL-06 - Jadson C. Belchior Genetic algorithms coupled with quantum mechanical calculations applied to parametrize force fields to describe ribonucleosides - glycosidic energies as a case study
	Session Chair : Erol Eroğlu
11:50 - 12:10	O-07 - Multi-Electron Transfer in Ruthenium-4H-Imidazole based Black Absorbers / <u>Stephan Kupfer</u>, Linda Zedler, Ying Zhang, Julien Guthmuller, Benjamin Dietzek
12:10 - 12:30	O-08 - Near-Infrared Fluorescence Studies of Long Wavelength Carbocyanines / <u>Gabor Patonay</u>, Maged Henary, Gala Chapman, Erica Lewis, Kyle Emer, Sidney Crow
12:30 - 14:00	LUNCH BREAK
	Session Chair : Maral Sünnetçioğlu
14:00 - 14:20	O-09 - Using of egyptian greensand in drinking water purification (removal of iron and manganese) / <u>Khaled Abdel Aal Selim</u>, Mohamed Abdel Maguid Youssef, Nagui Aly Abdel Khalek, Samah Saleh Abdallah
14:20 - 14:40	O-10 - New pyrano[2,3-d:6,5-d']dipyrimidine derivatives - Synthesis, in vitro cytotoxicity activity and computational studies / <u>Suresh Maddila</u>, Sridevi Gorle, Singh Moganavelli, Sreekanthbabu Jonnalagadda
14:40 - 15:00	COFFEE BREAK
	Session Chair : Sevgi Bayari
15:00 - 15:20	O11 - Relativistic DFT Study of Highly Selective N-Ligands for Lanthanides(III)/Actinides(III) Separation / <u>Belkhir Lotfi</u>, Ephritikhine Michel, Boucekkine Abdou
15:20 - 15:40	O12 - Interaction of protonated 6-methoxyquinolone with anionic micelles: Effect of hydrophobic chain length / <u>Tej Varma Yenupuri</u>, Debi D Pant
16:00 - 18:00	POSTER SESSION 1 P-001 - P-067

Session Chair : H. Michael Heise	
09:00 - 09:50	PL7 - Weitao YANG Fractional Perspectives of DFT and Local Scaling Corrections
09:50 - 10:40	PL8 - Parvez HARIS Application of FTIR spectroscopy in proteomics and metabolomics - potentials and challenges
10:40 - 11:00 COFFEE BREAK	
Session Chair : Mustafa Çulha	
11:00 - 11:20	O-13 - Calculation Of The EPR and Ground State Wavefunction for VO ²⁺ ion in KH ₂ PO ₄ and KH ₃ C ₄ O _{8.2} H ₂₀ Powders by Theoretical Methods / Emel Kalfaoğlu
11:20 - 11:40	O-14 - Use of Fluorescence, Synchronous Fluorescence and Circular Dichroism Spectroscopic Techniques in Protein-Herbicide Interactions: Binding of Dichlorprop and Diquat Dibromide to Human Serum Albumin Sibel Tunç, Osman Duman, Inanç Soylu, Bahar Kancı Bozoğlan
11:40 - 12:00	O-15 - A New Developing Spectroscopy Software and Constructing a Database / Sefa Saylan, Murat Gezer, Ozan Unsalan
12:00 - 13:00 LUNCH BREAK	
EXCURSION	

	Session Chair : Philippe COLOMBAN
09:00 - 09:50	PL-09 - H. Michael Heise Recent advances in ATR-sensor development based on silver halide fibers for infrared spectrometric process analysis and applications in microbiology and medicine
09:50 - 10:40	PL-10 - Emre Erdem Advanced EPR studies in functional nano-materials: From ferroelectrics to semiconductors
10:40 - 11:00	COFFEE BREAK
	Session Chair : Cuahtëmoc Araujo-Andrade
11:00 - 11:20	O-16 - Accounting for Environment and Dynamics in Modeling of Vibrational Spectra in Condensed Phase / <u>Valery Andrushchenko, Petr Bour</u>
11:20 - 11:40	O-17 - Raman Spectroscopy of Carbonates / <u>Kaabar Wahiba</u>
11:40 - 12:00	O-18 - General Non-Markovian Dynamics of Open quantum systems and spectral density of complex systems using Exceptional Orthogonal Polynomials / <u>Mahmoud Mahdian</u>
12:00 - 13:30	LUNCH BREAK
	Session Chair : Hamit Yurtseven
13:30 - 13:50	O-19 - Bioremoval of crystal violet dye from egyptian textile effluent <u>Samah Saleh Abdallah, Khaled Abdel Aal Selim, Nagui Aly Abdel Khalek, Samah Mohamed El Sayed</u>
13:50 - 14:10	O-20 - The Kinetic of Biogas Production Rate from Dairy Wastewater in Batch Mode «Effect of Starting pH in mesophilic Phase » <u>Bani Kheiredine, Derbal Kerroum, Benchikhlehoucine Mosaab</u>
14:10 - 14:30	O-21 - Comparative study of liver and spleen tissues from healthy human and patients with some hematological malignancies using magnetization measurements and Mössbauer spectroscopy / <u>Irina V Alenkina, Michael I Oshtrakh, Israel Felner, Alexander V Vinogradov, Tatyana S Konstantinova, Vladimir A Semionkin</u>
14:30 - 14:50	O-22 - Variation of the iron-bearing mineral content and the ⁵⁷Fe hyperfine parameters in Chelyabinsk LL5 meteorite fragments revealed using the high velocity resolution Mössbauer spectroscopy <u>Alevtina A Maksimova, Michael I Oshtrakh, Zoltan Klencsár, Andrey V Chukin, Evgeniya V Petrova, Victor I Grokhovsky, Erno Kuzmann, Zoltan Homonnay, Vladimir A Semionkin</u>
14:50 - 15:10	COFFEE BREAK

	Session Chair : Sibel Tunç
15:10 - 15:30	O-23 - Calculation Of The Soft-Mode Frequency For The α - β Transition In Quartz / <u>Hamit Yurtseven, Ozlem Tari</u>
15:30 - 15:50	O-24 - The effect of Ni ²⁺ in the Fe ³⁺ local microenvironment in both tetrahedral and octahedral sites on the ⁵⁷ Fe hyperfine field in NiFe ₂ O ₄ nanoparticles / <u>Mikhail V Ushakov, Baskar Senthilkumar, R. Kalai Selvan, Michael I Oshtrakh</u>
16:00 - 18:00	POSTER SESSION 2 P-068 - P-135
19:00 - 23:30	CONFERENCE DINNER

	Session Chair : Nihal Kuş
09:00 - 09:20	O25 - Structural investigations of Some Sb ₂ O ₃ - Na ₂ O- ZnO glasses by mean of FTIR, Raman and Er ³⁺ probe / Toufik Mohamed Soltani, Majda Hamzaoui, Ronan Lebullenger, Alain Moreac, Marcel Poulain
09:20 - 09:40	O26 - Pressure Dependence Of The Raman Frequency Of An Optical Mode In Cubic Gauche Nitrogen / Hamit Yurtseven, Ozgecan Tiryak
09:40 - 10:00	O27 - Phonon spectral density of the FMO light-harvesting complex with associated and generalized jacobi polynomials / Mahmoud Mahdian
10:00 - 10:20	COFFEE BREAK
	Session Chair : Mustafa Büyükata
10:20 - 10:40	O28 - Spectoscopic Study of Zinc(II) Tributylphosphine Chalcogenides Complexes / Salima Boughdiri, Zied Gouid, Ridha Ben Said, Mohamed Abderrahmane Khouna Sanhoury
10:40 - 11:00	O29 - Electronic Properties of the Transition Metal (1-phenylazo-2-naphthol) complexes: A TD-DFT Electronic Spectra Study / Bachir Zouchoune, Lakhdar Mansouri
11:00 - 11:20	O30 - How Does Hyperforin (HYP) Interact with DPPC Membranes?: EPR Spin Labeling and DSC Study / Dilek Yonar, Maral M. Sünnetçioğlu
11:30 - 11:40	CLOSING CEREMONY



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POSTER LIST

16:00 - 18:00	POSTER SESSION 1 P-001 - P-069
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Abs-Ref	Pub-Num	Abstract Title
0001	P-001	TD-DFT Calculations of Visible Spectra and Structural Studies of Ibuprofen Inclusion Complex With β -Cyclodextrin <u>Madi Fatiha</u>
0004	P-002	The Redox Behavior of Uranium Complexes. A relativistic DFT /ZORA study <u>Belkhiri Lotfi</u> , Khireche Moncef, Zaiter Abdellah, Ephritikhine Michel, Boucekkine Abdou
0005	P-003	Measurement of Heavy Gases and Vapors by Means of a Conventional RGA <u>Jamshid Soltan Mohammadi</u> , Rudolf Dobrozemsky
0008	P-004	Theoretical and Experimental Vibrational Spectroscopic Studies of Sulphur Containing Diketopiperazines <u>Ahsan Ali Khan</u> , Babur Zahurridin Chowdhry, Andrew Paul Mendham, Trevor John Dines, Perry Devo
0010	P-005	Impact of Iron-complex (Fe(III)-Malonate) on Photoinduced Degradation of Ibuprofen in Aqueous Solution <u>Debbache Nadra</u> , Dekiche Besma, Ghoul Imene, Ars Khadidja, Adala Amina
0011	P-006	Total Cross Sections for the Double Ionization of Water Molecule <u>Dahbia Oubaziz</u> , Christophe Champion, Michele Arcangelo Quinto, Zakia Aitelhadjali
0012	P-007	Computational Investigation of Trans-Pt(II) Oxime Complexes <u>Koray Sayin</u> , Duran Karakaş
0013	P-008	Spectroscopic Characterization of Carburized Surface of Fe20MnCr5 steel <u>Fatima Zohra Benlahreche</u> , El Amine Nouicer, Lazhar Yahia
0014	P-009	Corrosion Behaviour of Titanium Alloy in Alkaline Solution Using Spectroscopic Techniques <u>El Amine Nouicer</u> , Fatima Zohra Benlahreche, Lazhar Yahia
0015	P-010	A New Preconcentration Procedure to Quantify Total Acid Hydrolyzed Fluoride in Selected Beverages and Foods by Spectrophotometry <u>Nail Altunay</u> , Ramazan Gürkan, Ulaş Orhan, Emre Yıldırım, Sema Korkmaz
0017	P-011	Double Ionization of the Hydrogen Sulfide Molecule by Electron Impact: Influence of The Target Orientation on the Fivefold Differential Cross Sections <u>Noura Imadouchene</u> , Hocine Aouchiche, Christophe Champion
0019	P-012	Modeling of Photocatalytic Removal of Cresol Red Using Box-Behnken Experimental Design <u>Razika Zouaghi</u> , Roumayssa Zerti, Narimène Hadj Brahim
0022	P-013	Photochemical Degradation of the Phenol Red Induced by Goethite in the Aqueous Solution <u>Debbache Nadra</u> , Belattar Sara, Ghoul Imene, Seraghni Nassira
0025	P-014	Crystal Structure, Spectroscopic (FT-IR and UV-Vis) and DFT studies on (E)-N-[4-bromo-2-(trifluoromethoxy)phenyl]-1-(5-nitrothiophen-2-yl)methanimine <u>Hasan Tanak</u> , Figen Koçak, Erbil Ağar
0026	P-015	Photodegradation of Paracetamol (PC) Induced by Goethite (α -FeOOH) In Aqueous Solution Up On Irradiation at 365 nm and by Solar Light <u>Yazid Mameri</u> , Nadra Debbache, Sarah Belattar, Tahar Sehili
0027	P-016	Spectroscopic Characterisation of 6-Phosphogluconate Dehydrogenase Enzyme Purified from the Van Cat Erythrocytes <u>Serpil Kiliç</u> , Fikret Karataş
0028	P-017	Investigation of Solvent Effect on Biological Reactivity, UV-VIS and NMR Analyses of Zn(II) Complexes with Pentaaza Macrocyclic Schiff-base Ligand <u>Koray Sayin</u> , Duran Karakaş, Nihat Karakaş, Sultan Erkan Kariper, Tuba Alagöz Sayin

0029	P-018	Spectroscopic Characterization and DFT Study of Copper(II), Cobalt(II) and Nickel(II)-Selenadiazoloquinolone Complexes <u>Sandra Dorotíková, Peter Herich, Michaela Králová, Dana Dvoranová, Lukáš Bučinský</u>
0030	P-019	Azo-Hydrazone Tautomerism of Some p-Phenylazo- α -Naphthol Compounds and Their Cyclotriphosphazene Derivatives <u>Günseli Turgut Cin, Mustafa Odabaşoğlu</u>
0031	P-020	"Molecular Conformational Analysis and Vibrational study of Linoleic Acid" <u>Tugba Göcen, Sevgi Haman Bayarı, Mehmet Haluk Güven</u>
0032	P-021	Structural Characteristics of Wood-polymer Green-composites by FTIR Spectroscopy <u>Elif Hilal Şen, Sevgi Haman Bayarı, Erdem Bodur</u>
0034	P-022	Two New Nickel (II) Chelidamate Complexes Containing 2, 2'-dipyridylamine Ligand: An Agreement Between Theoretical and Experimental Studies <u>Hatice Vural, Ibrahim Uçar</u>
0035	P-023	Analysis of Normal and Rickets Human Skeletal Remains by FT-IR Spectroscopy and SAXS <u>Sevgi Haman Bayarı, Kameray Özdemir, Semra Ide, Yılmaz Selim Erdal, İlghar Orujalıpoor</u>
0036	P-024	Diagenic Alterations in the Anthropological Bone Mineral Structure: FTIR Spectroscopy and SAXS Studies <u>Sevgi Haman Bayarı, Semra Ide, Kameray Özdemir, Yılmaz Selim Erdal, İlghar Orujalıpoor, Elif Sen</u>
0037	P-025	A New Eco-friendly and Rapid Ultrasound Assisted Cloud Point Extraction to Preconcentrate and Determine Sulfite from Vegetables and Dried Fruit Matrices <u>Naıl Altunay, Ramazan Gürkan, Ulaş Orhan, Emre Yıldırım</u>
0038	P-026	DFT Computational and Spectroscopic Investigations on (E)-N-(3-fluorophenyl)-1-(5-nitrothiophen-2-yl)methanimine <u>Şadiye Karataş, Hasan Tanak, Aysen Alaman Açar, Meryem Evenen</u>
0039	P-027	A Combination of Spectroscopic Methods in Determination of a New Cyanogenic Glycoside Compound Structure from Centaurea Microcarpa <u>Ramdane Seghiri, Baatouche Samia, Chriet Thameer, Mekkiou Ratiba, Boumaza Ouahiba, Sarri Djamel, Benayache Samir, Benayache Fadila</u>
0040	P-028	NMR Spectroscopy in the Elucidation of Isolated Flavonoids from Aerial Parts of Astragalus Genus (Fabaceae) <u>Ratiba Mekkiou, Amina Bougandoura, Brigida D'abroska, Ouahiba Boumaza, Ramdane Seghiri, Antonio Fiorentino, Djamel Sarri, Samir Benayache, Fadila Benayache</u>
0041	P-029	Determination of New Flavonoids Using Spectroscopic Methods Isolated from Genista Aspalathoides <u>Ouahiba Boumaza, Rabia Boukaabache, Ratiba Mekkiou, Ramdane Seghiri, Fadila Benayache, Samir Benayache</u>
0042	P-030	Computational Study on Intermolecular Charge Transfer Complex of 2,2-bipyridine with Picric Acid <u>Samia Amirat, Abd El Hak Gueid, Amel Zaboub, Rachid Merdes, Fatiha Madi</u>
0048	P-031	Comparative Study of Adsorption and Photocatalytic Degradation of Two Dyes in Aqueous Solution in the Presence of TiO ₂ P25 and TiO ₂ PC500 <u>Seyfeddine Bendjabeur, Razika Zouaghi, Bachir Zouchoune, Tahar Sehili</u>
0052	P-032	Molecular Structure, Vibrational Spectral Investigation and the Confirmation Analysis of 1-(Diphenylmethyl)piperazine <u>Semran Sağlam, Ahmet Güvenir, Mehmet Tahir Güllüoğlu, Yusuf Erdoğan</u>
0055	P-033	Nanoscope Analysis of Sugar Beet Seeds <u>Begüm Çınar, İlghar Orujalıpoor, Semra Ide, Dilek Başalma, Ayşegül Boyacıoğlu</u>
0058	P-034	On-line Screening and Identification of Antioxidant Phenolic Compounds of Salsola Aegyptiaca (L.) <u>Benayache Samir, Mohamadi Sabrina, Minjie Zhao, Amrani Amel, Marchioni Eric, Zama Djamil, Benayache Fadila</u>
0059	P-035	Isostructurality of Single Component Crystals. The Case of 2-aminobenzimidazole, 2-aminobenzothiazole and 2-aminobenzoxazole Crystals <u>Tomasz Misiaszek, Jakub Warachim, Katarzyna Piela</u>

0060	P-036	Spectroscopic Characterization of I-motif Forming Oligonucleotide pH probes containing Fluorescent Cytosine analog tC <u>Bernard Juskowiak, Patrycja Rzepecka</u>
0063	P-037	Optical and Magnetic Properties of Ferromagnetic Co-Ni co-doped TiO ₂ Thin Films <u>Rabah Bensaha, Baddreddine Toubal, Fahrettin Yakuphanoglu</u>
0064	P-038	Analysis of B Vitamins in Food Matrix by Surface Enhanced Raman Spectroscopy (SERS) <u>Andreea Radu, Andreea Radu, Maria Thum, Martin Jahn, Martin Jahn, Uwe Huebner, Karina Weber, Karina Weber, Dana Cialla May, Dana Cialla May, Jürgen Popp, Jürgen Popp</u>
0065	P-039	Designing a Raman Cell For Frequency Shift of Laser Radiation <u>Ayhan Altun, Karl Kleiner, Ayhan Altun, Ayhan Altun</u>
0067	P-040	Spectroscopic Determination of the Oxygen Reactive Species Photosensitized by the Irradiation of the Antibiotic Ciprofloxacin with UVA Radiation <u>Jamil Ahmed</u>
0068	P-041	Rapid Determination of Palladium by a New Spectrofluorimetric Determination in Environmental Samples Using Acriflavine as a Reagent <u>Sultan Başak Şimşek, Şerife Saçmacı, Ahmet Ülgen</u>
0070	P-042	Fluorimetric Determination of Aluminium in Water and Food Samples Using New Fluorescence Reagent <u>Esra Yıldız, Şerife Saçmacı, Mustafa Saçmacı, Ahmet Ülgen</u>
0072	P-043	Raman, Optical Absorption, Thermal and Elastic Characterization of TM Doped 90TeO ₂ -10K ₂ O Glasses <u>Toufik Mohamed Soltani, Doris Moncke, Ali Erçin Ersundu, Miray Çelikkbilek, Lothar Wondraczek</u>
0074	P-044	XRF Spectroscopy and Imaging Investigations on Two Icons with Double painting Layers from R.Macedonia <u>Svetlana Mamučevska Miljkovič, Angelina Popovska, Zivko Kokolanski, Saso Cvetkovski, Liljana Kovacevska</u>
0075	P-045	Photo-oxidation of Amoxicillin by α FeOOH/H ₂ O ₂ Effect of Operating Conditions <u>Mohamed Mehdi Bencherine, Yazid Mameri, Besma Dekkiche, Nadra Debbache</u>
0081	P-046	Vibrational Spectra, non-linear Optical Properties, NBO Analysis Properties of Acetylcholine by Density Functional Method <u>Boutasta Amel, Benosman Abdelhakim</u>
0084	P-047	Spectroscopic Investigations and DFT Calculations on 3-(diacetylamino)-2-ethyl-3H-quinazolin-4-one <u>Yusuf Sert, Fatih Uçun</u>
0085	P-048	Highest-Lowest Occupied Molecular Orbital Analysis of 4-Bromomethyl-6-tert-butyl-2H-chromen-2-one <u>Yusuf Sert, Fatih Uçun</u>
0086	P-049	Kinetic Calculations of Phase Transformation in Magnetic Cu-based Alloy <u>Emine Aldırmaz, Nevzat Karakaya, S. Cansel Cücü, Eren Koyuncuoğlu</u>
0087	P-050	A Comparative Study on Vibrational Spectra of Free Indapamide and its DMSO Solution <u>Y. Alat, O. Bölükbaşı, A. Yılmaz, B. İlhan Ceylan</u>
0088	P-051	Development and Validation of Sensitive Spectrofluorimetric Method for The Determination of Tamsulosin in Spiked Human Urine, in Pure and Pharmaceutical Preparations <u>Ayça Karasakal, Sevgi Tatar Ulu</u>
0089	P-052	Molecular Dynamic Study of A Chiral Schiff Base Derivative Using R1/R2 Ratio Method and Quantum Chemical Investigation for Geometric Properties <u>Arzu Ekinçi, Mehmet Zafer Köylü, Mustafa Büyükat</u>
0090	P-053	Secondary Metabolites and Antioxidant Activity of Limonium Duriusculum (de Girard) Kuntze Extracts <u>Fadila Benayache, Messaoud Kerkatou, Azzedine Salah Redouane, Francisco León, Ignacio Brouard, Ahmed Menad, Djamel Sarri, Souad Ameddah, Samir Benayache</u>
0091	P-054	Molecular Dynamic and Complexation Study of A Chiral Schiff Base Derivative by 400 MHz ¹ H-NMR <u>Aliye Araç, Arzu Ekinçi, Mehmet Çolak, Nadir Demirel, Mehmet Zafer Köylü</u>

0093	P-055	The Use of X Fluorescence to Characterize Sludge of Treatment Plants Wassila Cheurfi, Hassina Bougherara, <u>Brahim Kebabi</u>
0094	P-056	Structural Determination of Secondary Metabolites Using UV and NMR Spectroscopy of <i>Vitex Agnus-castus</i> <u>Ratiba Mekkiou</u> , Hanane Aïssaoui, Samia Mezhoud, Fadila Benayache, Samir Benayache
0097	P-057	Visible Fluorescence from Pr3+ Doped KYF4 Single Crystal <u>Adel Bitam</u>
0099	P-058	Computational Studies on Structure and Spectroscopic Properties of 1',3'-Dihydrospiro[cyclohexane-1,2'-(2H)imidazo[4,5-b]pyridine] <u>Hatice Vural</u> , Mehmet Kara
0100	P-059	Experimental and Theoretical Studies of (FTIR, FT-NMR, UV-Visible, X-ray and DFT) 2-(4-Allyl-5-pyridin-4-yl-4H-[1,2,4]triazol-3-ylsulfanyl)-1-(3-methyl-3-phenyl-cyclobutyl)-ethanone <u>Cigdem Yuksektepe Ataol</u> , Öner Ekici
0101	P-060	Synthesis, Crystal Structure, Spectroscopic and Electronic Properties of (E)-Trans-2-(2-(Biphenyl-4-ylmethylene)Hydrazinyl)-4-(3-Methyl-3-Phenylcyclobutyl)Thiazole <u>Cigdem Yuksektepe Ataol</u> , Nezihe Caliskan, Ibrahim Yilmaz, Alaaddin Cukurovali
0104	P-061	Spectroscopic Investigation, Structural and Electronical Analysis of 2-(4-ethoxyphenyl)isoindoline-1,3-dione by Experimental and Theoretical Approach <u>Gülcan Duru</u> , Meryem Evecen, Hasan Tanak, Erbil Ağar
0105	P-062	Study on Molecular Structure, Spectroscopic Behavior, HOMO–LUMO and NMR Analysis of 2-(3-o-Tolyl-4-oxo-3,4-dihydroquinazolin-2-ylthio)acetohydrazide using theoretical approaches <u>Meryem Evecen</u> , Murat Karabolut
0107	P-063	First Principles Study of Magnetic, charge, and orbital ordering in LuFe2O4 <u>Hayet Si Abdelkader</u> , Houda Imane Faraoun
0109	P-064	Spectroscopic (IR, Raman, NMR), Thermal and Theoretical (DFT, AIM) Study of Alkali Metal Dipicolinates (2,6-pyridinedicarboxylates) and Quinolinates (2,3-pyridinedicarboxylates) <u>Grzegorz Swiderski</u> , Slawomir Wojtulewski, Leszek Siergiejczyk, Agnieszka Zofia Wilczewska, Iwona Misztalewska, Renata Swislocka, Włodzimierz Lewandowski
0110	P-065	Physico-chemical (spectroscopic: FT-IR, Raman and UV) Studies of Caffeic Acid and Fe(III), Cu(II), Zn(II), Ni(II) Caffeinates <u>Renata Swislocka</u> , Mariola Samsonowicz, Malgorzata Kowczyk Sadowy, Grzegorz Swiderski, Włodzimierz Lewandowski
0111	P-066	Determination of Some Metals in Honey Samples with a New Synthesized Resin by Flame Atomic Absorption Spectrometry <u>Teslima Daşbaşı</u> , Şerife Saçmacı, Nevin Çankaya, Cengiz Soykan
0112	P-067	Botanic Origin, Total Phenol- Flavonoid Amount and Antioxidant Activities of Propolis Samples From Trabzon <u>Ümit Ceylan</u> , İlginç Kızılpınar Temizer, Aytaç Güder, Ömür Gencay Çelemlı
0113	P-068	Synthesis, Characterization and Application of a New Chelating Resin fFor Solid Phase Extraction, Preconcentration and Determination of Trace Metal Ions in sSome Dairy Samples by Flame Atomic Absorption Spectrometry <u>Teslima Daşbaşı</u> , Şerife Saçmacı, Nevin Çankaya, Cengiz Soykan
0114	P-069	Spectroscopic (IR, Raman, NMR), Theoretical and Biological Study of Cnamic, Coumaric, Caffeic and Chlorogenic Acids and Their Complexes with Copper(II) <u>Włodzimierz Lewandowski</u> , Renata Swislocka, Grzegorz Swiderski, Monika Kalinowska, Mariola Samsonowicz, Hanna Lewandowska

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Abs-Ref	Pub-Num	Abstract Title
0116	P-070	Electron Paramagnetic Resonance (EPR) study of nano sized emulsions <u>Dilek Killar</u>
0117	P-071	Structural Properties of Neutral 2D Aun (n=4-13) Clusters: A Comparative Study of MD and DFT Calculations <u>Sertan Kurnalı, Meral Eryürek</u>
0118	P-072	The Spectroscopic and Micro-tomographic Analysis of Calcifications in Spinal Ligaments <u>Sylwia Natalia Orzechowska, Andrzej Wróbel, Eugeniusz Rokita</u>
0119	P-073	Electron Impact Double Ionization of Methane Molecule <u>Aitelhadjali Zakia, Quinto M. A, Champion Christophe, Oubaziz Dahbia, Kessal Salem</u>
0120	P-074	Investigation of The Effects of Polymerization Temperature on The Latex Properties <u>Sedef Sismanoglu, Ayfer Sarac</u>
0121	P-075	The Comparative Vibrational Spectroscopic Study of Diphenylpyraline Hydrochloride and Cyproheptadine Hydrochloride <u>Seda Güneşdoğdu Sağdıç, Aybüke Diler, Dilek Erdaş</u>
0122	P-076	Quantum Chemical Investigations of (E)-2-[(4-chlorophenyl)iminomethyl]-4-(trifluoromethoxy)-phenol <u>Ümit Ceylan, Yelda Bingöl Alpaslan, Nuri Öztürk, Gökhan Alpaslan, Halil Gökce, Mustafa Macit</u>
0125	P-077	Synthesis, Experimental Techniques, Spectroscopic Investigations and Quantum Chemical Computational Study of (Z)-N-(2-bromo-3-methylphenyl)-1-(5-nitrothiophen-2-yl) methanimine <u>Gonca Özdemir Tarı, Sümeyye Gümüş, Erbil Ağar</u>
0126	P-078	Synthesis, Crystal Structure, Spectroscopic Characterization and Theoretical Calculations of (Z)-N-(naphthalen-2-yl)-1-(5-nitrothiophen-2-yl)methanimine <u>Gonca Özdemir Tarı, Sümeyye Gümüş, Erbil Ağar</u>
0127	P-079	Preconcentration of Trace Metals on Amberlite XAD-7 Resin and Determination by X-ray Fluorescence <u>Hassina Bougherara, Somia Zerouel, Brahim Kebabi</u>
0128	P-080	Experimental and Computational Investigations of Indium Doped Gold Clusters: InAu ₆ - <u>Ahmet Guvenir, Kahraman Çetin, Tuğçe Bahceci, Mustafa Decelioğlu, Ömer Dereli, Mehmet Tahir Güllüoğlu, Yusuf Erdoğdu</u>
0130	P-081	Investigations of Neutral and Singly charged Phosphorus doped Gallium Nanoclusters by DFT <u>Ahmet Guvenir, Kahraman Çetin, Tuğçe Bahceci, Mustafa Develioğlu, Ömer Dereli, Mehmet Tahir Güllüoğlu, Yusuf Erdoğdu</u>
0131	P-082	A Spectroscopic Study of the Degradation of the Antibacterial Drug Cycloserine <u>Andrew Paul Mendham, Ahsan Ali Khan, Babur Zahuriddin Chowdhry, Trevor John Dines, Dominic Kariuki, Daniel Jordan</u>
0133	P-083	Phytochemical Investigation of the n-Butanol Extract of <i>Linaria tingitana</i> <u>Ramdana Seghiri, Thamere Cheriet, Samia Baatouche, Ines Mancini, Ratiba Mekkiou, Ouahiba Boumaza, Djamel Sarri, Samir Benayache, Fadila Benayache</u>
0136	P-084	A New Spectrofluorometric Determination of Bismuth in Some Pharmaceutical Samples <u>Nur Öksüz, Şerife Saçmacı, Mustafa Saçmacı, Ahmet Ülgen</u>
0139	P-085	A new Fluorescence Reagent: Synthesis, Characterization and Application for Speciation of Chromium Ions Using Fluorimetry System <u>Esra Özyol, Mustafa Saçmacı, Şerife Saçmacı, Ahmet Ülgen</u>

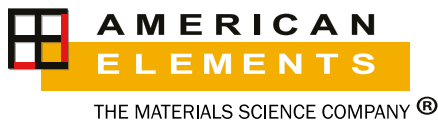
0140	P-086	Investigation of the Interaction between Anti-Cancer Drug and Human Serum Albumin depending on temperature by 400 MHz NMR Spectrometer <u>Sibel Korunur, Bilgin Zengin, Ali Yilmaz</u>
0141	P-087	Investigation of the Interaction between 5- Fluorouracil (5-FU) and Human Serum Albumin depending on protein concentration by 400 MHz NMR Spectrometer <u>Sibel Korunur, Bilgin Zengin, Ali Yilmaz</u>
0144	P-088	Synthesis, Crystal Structure, EPR Studies of Doped VO ₂ + ION in [Co(Him) ₆] 2Br 4H ₂ O <u>Ilkay Yildirim, Bünyamin Karabulut</u>
0145	P-089	X-ray Structure and Spectroscopic Characterization of [Cu(1-meim) ₄ (H ₂ O) ₂]+2(sac) COMPLEX <u>Ilkay Yildirim, Bünyamin Karabulut</u>
0146	P-090	Crystal Water Behavior in MgSO ₃ .6H ₂ O:Co <u>Petya Nikolaeva Petkova, Youri Tzoukrovsky, Todor Dimov, Ilia Iliev, Ismail Ismailov</u>
0147	P-091	Structural, Spectroscopic and Quantum Chemical Studies of (Z)-N'-((E)-2-(hydroxyimino)-1-phenylethylidene)isonicotinohydrazide <u>Aysin Zulfikaroglu, Çiğdem Yüksektepe Ataol, Hümeyra Batı</u>
0148	P-092	The EPR Study of Cu ²⁺ , Mn ²⁺ and VO ₂ ⁺ Ions Doped l-alanine Powder Crystals Produced under High Temperature <u>Deniz Kurt, Ümit Ceylan, Recep Tapramaz</u>
0149	P-093	Theoretical Studies on [(2,4-Dinitrophenyl)hydrazono](phenyl)acetaldehyde oxime monohydrate <u>Aysin Zulfikaroglu, Çiğdem Yüksektepe Ataol, Hümeyra Batı</u>
0150	P-094	The EPR Study of Cu ²⁺ and VO ₂ ⁺ Ion Doped Ca(H ₂ O ₈ PO ₄) ₂ H ₂ O Powder Crystals Produced Under High Temperature <u>Deniz Kurt, Ümit Ceylan, Recep Tapramaz</u>
0151	P-095	Label-free Surface-enhanced Raman Spectroscopic Detection of Mycobacterium Smegmatis Using Silver Nanoparticles <u>Melisew Tadele Alula, Jonathan Blackburn</u>
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0153	P-097	A New Dispersive Liquid-Liquid Microextraction Method for Determination of Cobalt in Some Vitamin Tablets <u>Tuba Ceviz, Şerife Saçmacı, Ahmet Ülgen</u>
0156	P-098	Anharmonic Behavior in BaTiO ₃ : Investigation by Raman Spectroscopy <u>Bejaoui Ouni Ines, Fontana Marc, Chapron David, Aroui Hassen</u>
0157	P-099	Raman Spectroscopy of BaCaTiO ₃ <u>Bejaoui Ouni Ines, Fontana Marc, Chapron David, Aroui Hassen</u>
0158	P-100	Impact of the Sign on the Optical Properties of a Product <u>Trufka Dimitrova, Petya Nikolaeva Petkova, Darina Bachvarova, Veselina Lalova</u>
0160	P-101	Investigation of Structural, Energetic and Vibrational Properties of 2-Deoxy-2-([methyl(nitroso)amino]carbonylamino)-β-D-glucopyranose <u>Mustafa Böyükata, Dilek Pandır, Meryem Evcen, Hatice Arı</u>
0163	P-102	Experimental, Theoretical Investigation and Intramolecular Proton Transfer of Two Tautomers: (E)-4-(((2-methyl-3-nitrophenyl)imino)methyl)benzene-1,2,3-triol and (Z)-2,3-dihydroxy-6-(((2-methyl-3-nitrophenyl)amino)methylene)cyclohexa-2,4-dienone <u>Ersin Temel, Can Alaşalvar, Erbil Ağar</u>
0165	P-103	Self-healing Mechanism of Metallopolymers Investigated by QM/MM Simulations and Raman Spectroscopy <u>Stephan Kupfer, Linda Zedler, Julien Guthmuller, Stefan Bode, Martin D. Hager, Ulrich S. Schubert, Jürgen Popp, Stefanie Gräfe, Benjamin Dietzek</u>

0168	P-104	The Theoretical and Crystallographic Studies on (E)-2-(((4-bromo-2-(trifluoromethoxy)phenyl)imino)methyl)-4-nitrophenol <u>Güneş Demirtaş, Ömer Tamer, Necmi Dege, Davut Avcı, Yusuf Atalay, Mustafa Macit, Songül Şahin</u>
0169	P-105	Structural, Elastic, Electronic and Optical Properties of BeSiN2 from first-principles <u>Fahima Arab, Fahima Arab, Ferhat Ali Sahraoui, Khelifa Haddadi, Layachi Louail</u>
0170	P-106	Application of FTIR Spectroscopy in Microbial Ecology: Studying Different Ecological States of the Rhizobacterium Azospirillum Brasilense <u>Anna V. Tugarova, Andrei V. Schelud'ko, Yulia A. Dyatlova, Alexander A. Kamnev</u>
0172	P-107	Raman Spectroscopy Applied to the Chemical Characterization of mono- and multi- Species Biofilms <u>Cuaubtemoc Araujo Andrade, Ana María González Amaro, Claudio Frausto Reyes, Adriana Jacome Espadas, Gulce Ogruc Ildiz, Rumen Ivanov Tsonchev</u>
0173	P-108	Effect of Interstitial Atom X on Structural, Elastic and Electronic Properties of NbRu3, NbXRu3 (X= B or C) <u>Ali Benamer, Abd Ekarim Roumili, Youcef Medkour</u>
0175	P-109	Spectroscopic Studies to Clarify the Interactions of Chloroquine Diphosphate and Phenelzine Sulfate Drugs with Human Serum Albumin <u>Bahar Kancı Bozoğlan, Sibel Tunç, Osman Duman</u>
0176	P-110	Effects of Sodium Dodecyl Sulfate (SDS) on Fluorescence Lifetime Distribution of Bovine Serum Albumin Modified With N-(1-Pyrenyl)maleimide (PM-BSA) <u>Ibrahim Ethem Özyiğit</u>
0178	P-111	Temperature-Dependent Photoluminescence of Cu, Mn, Co, Zn and Cd Complexes with heptafluorobutanoic Acid and Bipy/Phen <u>Yalcin Kilic, Ibrahim Kani</u>
0179	P-112	Nicolae Grigorescu - Researches on Modern Art Works <u>Maria Geba, Lacramioara Stratulat, Daniela Salajan, Valentina Drutu, Minola Iutis, Lenuta Chirita</u>
0180	P-113	XRF Spectrometric Studies on Metallic Decorations from Romanian Heritage Textiles <u>Angelica Olaru, Maria Geba, Cristina Marta Ursescu, Ana Maria Vlad</u>
0183	P-114	Theoretical Study of Phosphazenes: Cation $-\pi$ (Li+, Na+, K+, Be+2, Mg+2, and Ca+2) Interaction <u>Fatmagül Tunç, Ahmet Tokatlı</u>
0184	P-115	Investigation of Energetics, Structural Stability and Metallic Impurities of Water Clusters: HF and DFT Study of (H2O)n for n=3-7 and (H2O)12 <u>Salih Cınaklı, Mustafa Büyükkata, Yılmaz Dağdemir</u>
0185	P-116	Authentication of Meteorites by Raman Spectroscopy and Multivariate Analysis <u>Alejandro Gonzalez Sanchez, A. Magallanes Lujan, C. Frausto Reyes, H. Hernández Cocolotzi, E. Esparza Ibarra, D. Valls Gabaud</u>
0187	P-117	A Calorimetric Comparison of the Effects of Cholesterol, Desmosterol and 7-Dehydrocholesterol on Zwitterionic DPPC Model Membranes <u>Cisem Altunayar1</u>
0188	P-118	Waste Liquid Embryo Samples' Measurements and Analysis with Raman Spectroscopy <u>Tuğçe ÖZTÜRK</u>
0189	P-119	Spectroscopic studies on Cu(II) coordination compound of Sudan Red G [1-(2-methoxyphenylazo)-2-naphthol] <u>Asli Esmé, Seda Güneşdoğdu Sağdıç, Salih Zeki Yıldız</u>
0190	P-120	FT-IR Spectroscopic and Thermal Study of M(Fumaric Acid)Ni(CN)4.2(1,4-dioxane) Clathrate (M = Mn, Ni and Cd) <u>Zeki Kartal, Adülkerim Yavuz</u>
0191	P-121	Photophysical Properties of Octatosylamido-Substituted Metal-free and Ni(II) Phthalocyanines: A Density Functional Theory Study <u>Elif Türker Acar, Hatice Can, Ayşe Gül Gürek</u>

0193	P-122	Investigation of Surface, Textural and Adsorptive Properties of Brown Sepiolite: Adsorption Kinetics and Mechanism of Cationic Dye (Basic Red 9) Adsorption onto Brown Sepiolite <u>Tülin Gürkan Polat, Osman Duman, Sibel Tunç</u>
0194	P-123	FT-IR Spectroscopic Study of M(Adipic Acid)Ni(CN) ₄ (1,4-dioxane) Clathrate (M = Co and Cu) <u>Abdülkerim Yavuz, Zeki Kartal</u>
0197	P-124	Low Temperature Magnetic Properties of "Space Stones" <u>Gizem Kaban, Afif Siddiki</u>
0198	P-125	The Cyanide-Bridged Heteronuclear Polymeric Complexes: Syntheses, Spectroscopic and Thermal Properties of [Zn(hmpH) ₂ M(μ-CN) ₂ (CN) ₂] _n (hmpH = 2-pyridinemethanol, M = Pd(II) or Pt(II)) <u>Güneş Süheyla Kürkcüoğlu, Elvan Sayın</u>
0199	P-126	Vibrational Spectra and Electronic Transition Energies from MP2 and DFT Calculations of 1-Ethylimidazole and 2-Ethylimidazole <u>Ilkan Kavlak, Güneş Süheyla Kürkcüoğlu</u>
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0201	P-128	Sensitive and Selective Determination of Trace Amounts of Azin Dyes in Multi – Component Systems Using First-Order Derivative Spectrophotometric Technique <u>Elif Türker Acar, Gülten Atun</u>
0202	P-129	Spectroscopic and Calculated Thermodynamic Properties of 3-Phenyl-4-(3-Cinnamoyloxybenzylidenamino)-4,5-Dihydro-1H-1,2,4-Triazol-5-one Molecule <u>Murat Beytur, Haydar Yüksek</u>
0204	P-130	Gaussian Calculations of New 3-(P-Methylbenzyl)-4-[3-(3-Methoxybenzyloxy)-Benzylidenamino]-4,5-Dihydro-1H-1,2,4-Triazol-5-One <u>Hilal Medetalibeyoğlu, Haydar Yüksek</u>
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0207	P-132	An Investigation of Keto-enol Tautomerism in 2,4-di-tert-butyl-6-(Z)-[(2-or 4-fluorophenyl)imino]methylphenol by Spectroscopic and Quantum Chemical Calculation Methods <u>Erol Eroğlu, Murat Kılıç, İhsan Burak Çam, Timur Tongur</u>
0208	P-133	Effect of Fluoro- and Chloro- substitution of the Phenyl Ring on Enol-keto Tautomeric equilibriums of 2,4-di-tert-butyl-6-(Z)-[(2,5-fluorophenyl or 2,5-Chlorophenyl)imino]Methylphenol: A Spectroscopic and DFT Study <u>Erol Eroğlu, Nuri Torulmaz, Zekiye Eda Byluğ, Mehmet Murat Yaşar</u>
0209	P-134	Vibrational Spectroscopic Analyses of Pollutants in Soil Samples Collected from Historical Libraries' Environments. <u>Ozan Unsalan, Alpaslan Kuzucuoğlu, Ersin Kaygısız</u>
0210	P-135	Raman Spectroscopic Investigations on Rare Books' Covers and Pages from Historical Libraries. Case Study: Recai Mehmet Efendi Library <u>Ozan Unsalan, Alpaslan Kuzucuoğlu</u>
0212	P-136	Micro-Raman, Mid-IR and DFT studies on 2-[4-(4-Ethylbenzamido)phenyl]benzothiazole <u>K. Bolelli, H. Ari, M. Boyukata, I. Yalcin, O. Unsalan</u>
0213	P-137	FT-IR Spectroscopy and Multivariate Analysis as an Auxiliary Tool for Diagnosis of Mental Disorders: Bipolar and Schizophrenia Cases <u>G. Ogruc İldiz, O. Unsalan, C. Araujo-Andrade, M. Arslan, E. Kurt, H.T. Karatepe, A. Yilmaz, O.B. Yalcinkaya, H. Herken</u>
0214	P-138	Crystal Structure of 4-fluoro-N-(2-hydroxy-4-nitrophenyl)benzamide <u>Janina Karolak-Wojciechowska, Malgorzata Szczesio, Tugba Ertan-Bolelli, Esin Aki, Ismail Yalçın</u>

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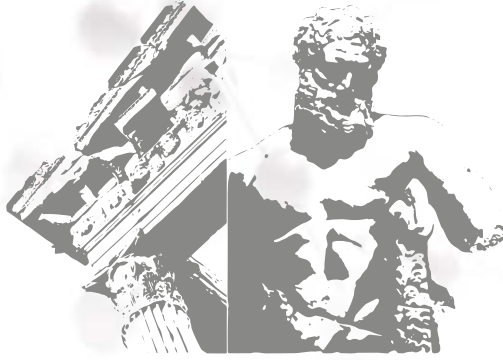


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Fax: +90 (212) 296 66 71

E-mail: alen.demirel@brosgroup.net