

# SCIENTIFIC PROGRAMME OF ICCESEN-2015

## 14 October 2015-Wednesday

11.00-12.30	<b>REGISTRATION-CHECK IN</b>
12.30-13.30	<b>LUNCH</b>
14.00-15.00	<b>REGISTRATION-CHECK IN</b>
16.30	<b>WELCOME COCTAIL</b>
19.30	<b>DINNER</b>

# 15 October 2015-Thursday

09.30-09.45	<b>Room 1: Opening Ceremony</b>					
	Chair: Prof.Dr. Iskender AKKURT					
09.45-10.45	<p><b>Invited Speaker 1:</b> Dr. John R.M. ANNAND Glasgow Univ. Physics Dep. Scotland-UK <i>The Role of Computer Modelling in the Extraction of Experimental Observables in Nuclear Physics</i></p> <p><b>Invited Speaker 2:</b> Prof.Dr. Tomasz STORY- Institute of Physics, Polish Academy of Sciences, Warsaw - POLAND <i>IV-VI Semiconductor Nanocomposites for Thermoelectric Energy Converters</i></p>					
10.45-11.15	<b>Group Photo and COFFE BREAK (Poster Session)</b>					
Session 1 11.15-12.30	<b>Room 1 (Theme 1)</b>	<b>Room 2 (Theme 2)</b>	<b>Room 3 (Theme 3)</b>	<b>Room 4 (Theme 5 civil)</b>	<b>Room 5 (Theme 5 elec)</b>	<b>Room 6 (Theme 6)</b>
	Session chair: Dr. M'Hamed Boulakroune	Session chair: Dr.	Session chair: Dr. Fellaou Soukaina	Session chair: Dr. Cenk Alhan	Session chair: Dr. Vilda Purutçuoğlu	Session chair: Dr. Hassiba Benguergoura
	Abstract # 97-118-243- 257-616-619	Abstract # 7-37-54-61- 68-501-601	Abstract # 119-147-334- 395-578	Abstract # 33-34-39-53- 67-93	Abstract # 4-14-59- -298	Abstract # 410-496-497- 576-577-636
12.30-14.00	<b>LUNCH (Poster Session)</b>					
Session 2 14.00-15.45	<b>Room 1 (Theme 1)</b>	<b>Room 2 (Theme 2)</b>	<b>Room 3 (Theme 3)</b>	<b>Room 4 (Theme 5 civil)</b>	<b>Room 5 (Theme 5 elec)</b>	<b>Room 6 (Theme 6)</b>
	Session chair: Prof.Dr. A. Beril Tuğrul	Session chair: Dr. Ahmed Ghanmi	Session chair: Dr. Abdullateef A. Jadallah	Session chair: Dr. Mohammed Fatah Lakhdari	Session chair: Dr. İ.Serkan Üncü	Session chair: Prof.Dr. Aziz Hassan
	Abstract # 25-131-132- 181-294-319-	Abstract # 58-72-143- 156-165-183	Abstract # 62-63-98- 594-595-640	Abstract # 184-186- 187-255-262	Abstract # 76-207-258 -337-338-486	Abstract # 109-127-166-367- 441-465-
15.45-16.00	<b>COFFE BREAK (Poster Session)</b>					
Session 3 16.00-1730	<b>Room 1 (Theme 1)</b>	<b>Room 2 (Theme 2)</b>	<b>Room 3 (Theme 3)</b>	<b>Room 4 (Theme 5 civil)</b>	<b>Room 5 (Theme 5 elec)</b>	<b>Room 6 (Theme 6)</b>
	Session chair: Dr. H. Duran Yıldız	Session chair: Prof.Dr.Abdelkader Senouci	Session chair: Dr. Zemine Yıldırım	Session chair: Prof.Dr. Mustafa Günal	Session chair: Dr. Mouloud Challal	Session chair: Dr. Azeez Abdullah Barzinjy
	Abstract # 87-200-246-251- 259-261-621	Abstract # 228-277-449- 541-635	Abstract # 154-172-371- 408-412-513-562	Abstract # 173-280-288-306- 317-324	Abstract # 491-538-584-600 604-614-615	Abstract # 45-188-194- 515-533-558-
19.30	<b>DINNER (Turkish Nights)</b>					

**POSTERS LIST #**

**Theme 1:** 17-41-60-133-142-170-185-213-222-230-240-242-276-281-285-313-320-335-352-353-373-385-423-455-456-458-459-460-461-463-464-466-467-468-469-476-477-480-482-608-609-628-629-630-632-633-634-642-646-647-653-654-655

**Theme 2:** 164-397-398-419

**Theme 7:** 36-94-120-126-204-205-206-215-254-260-274-321-339-386-439-446-447-587-602-607-618-623

## **16 October 2015-Friday**

	<b>FREE DAY</b>
10.00-19.00	<b>A NUMBER OF SOCIAL ACTIVITY WILL BE ORGANIZED</b>
19.30	<b>DINNER</b>

# 17 October 2015-Saturday

09.30-10.30	<b>Room 1:</b>					
	<b>Chair:</b> <a href="#">Dr Mitra Djamal</a> --Theoretical High Energy Physics and Instr. Res. Institut Teknologi Bandung-INDONESIA					
	<b>Invited Speaker 3:</b> Prof.Dr. Sevtap KESTEL-- Middle East Technical University, Institute of Applied Mathematics, Ankara-TURKEY <i>Risk Assessment and Pricing of Natural Hazards: Earthquake Case</i>					
<b>Invited Speaker 4:</b> Prof.Dr. Javad Rahighi - Iranian Light Source Facility, ILSF, IPM, Tehran, Iran <i>The Iranian synchrotron Light Source, A New Light on Science in Iran</i>						
10.30-10.45	<b>COFFE BREAK (Poster Session)</b>					
Session 4 10.45-12.15	<b>Room 1 (Theme 1)</b>	<b>Room 2 (Theme 7)</b>	<b>Room 3 (Theme 3)</b>	<b>Room 4 (Theme 5 comp)</b>	<b>Room 5 (Theme 5 mech)</b>	<b>Room 6 (Theme 6)</b>
	<b>Sessionchair:</b> <a href="#">Prof.Dr. Baba Musta</a>	<b>Session chair:</b> <a href="#">Dr. Özdoğan Karaçalı</a>	<b>Session chair:</b> <a href="#">Dr. Rabi Karaali</a>	<b>Session chair:</b> <a href="#">Dr.Michal Krzemiński</a>	<b>Session chair:</b> <a href="#">Dr. Wael Ali Khudhair</a>	<b>Session chair:</b> <a href="#">Dr.Oya Seker</a>
	<b>Abstract #</b> 121-201-238-424-529-593	<b>Abstract #</b> 199-333-379-572-611	<b>Abstract #</b> 32-71-75-86-100-108	<b>Abstract #</b> 113-160-234-235-316-350-388	<b>Abstract #</b> 125-137-151-268-426-557	<b>Abstract #</b> 248-323-343-479-612-631-643-
12.15-13.30	<b>LUNCH (Poster Session)</b>					
13.30-19.00	<b>SOCIAL PROGRAM –TOURS (Poster Session)</b>					
19.30	<b>DINNER (Gala Dinner)</b>					
<b>POSTERS LIST #</b>						
<b>Theme 3:</b> 21-35-315-520-575-610-641						
<b>Theme 4:</b> 191-193-210-360-542-548						
<b>Theme 5:</b> 24-28-90-105-130-176-189-196-217-293-303-305-326-330-354-387-390-391-393-394- 402-411- 413-414-434-437-472-473-487-488-524-549-551-552-553-554-606-620-644						
<b>Theme 9:</b> 116-135-273-336-399-400-453						
<b>Theme 10:</b> 57-104-167-216-241-289-340-342-543						

# 18 October 2015-Sunday

	<b>Room 1:</b>					
	<b>Chair:</b> Prof.Dr. Javad Rahighi-- Iranian Light Source Facility, ILSF, IPM, Tehran, Iran					
09.30-10.30	<p><b>Invited Speaker 5:</b> Prof.Dr. Oleg Burdakov -- Department of Mathematics, Linkoping University, Sweden <i>New network optimization techniques for positioning unmanned aerial vehicles as communication relays for surveillance tasks</i></p> <p><b>Invited Speaker 6:</b> Dr R S Beniwal---CSIR-National Institute of Science Communication and Information Resources,New Delhi 110 012, INDIA <i>Perspectives of Physics in Materials Science Research</i></p>					
10.30-10.45	<b>COFFE BREAK (Poster Session)</b>					
Session 5 10.45-12.15	<b>Room 1 (Theme 4)</b>	<b>Room 2 (Theme 9)</b>	<b>Room 3 (Theme 7)</b>	<b>Room 4 (Theme 5comp)</b>	<b>Room 5 (Theme 5 mech)</b>	<b>Room 6 (Theme 6)</b>
	<b>Sessionchair:</b> Dr. Zuhal ER	<b>Session chair:</b> Dr.Fadi Al -Turjman	<b>Session chair:</b> Dr. Pravin Pawar	<b>Session chair:</b> Dr. Zuhal ER	<b>Session chair:</b>	<b>Session chair:</b> Prof.Dr. Rosiyah Yahya
	<b>Abstract #</b> 55-102-103- 212-266-489	<b>Abstract #</b> 134-155-158- 233-492-	<b>Abstract #</b> 236-239-329- 529-536-627	<b>Abstract #</b> 128-140-416-509- 540-563-565	<b>Abstract #</b> 420-286-318- 381-406	<b>Abstract #</b> 263-265-279- 295-346-347- 374-370
12.15-13.30	<b>LUNCH (Poster Session)</b>					
13.30-19.00	<b>SOCIAL PROGRAM –TOURS (Poster Session)</b>					
19.30	<b>DINNER</b>					
<b>POSTERS LIST #</b>						
<p><b>Theme 6:</b> 12-15-29-38-56-65-66-73-77-82-95-96-101-106-114-123-129-141-148-168-169-171-197-202-203-208-209-224-278-296-297-310-325-372-407-409-428-429-430-432-435-443-451-470-474-475-478-505-506-507-508-515-521-522-523-537-544-550-555-591-592-599-603-613-617-625-626-637-638-639-651-652</p>						

# 19 October 2015-Monday

09.30-10.30	<b>Room 1:</b>					
	<b>Chair:</b> Prof.Dr. Oleg Burdakov-- Department of Mathematics, Linkoping University, Sweden					
	<b>Invited Speaker 7:</b> Dr Mitra Djamal---Theoretical High Energy Physics and Instrumentation Res. Group, Institut Teknologi Bandung-INDONESIA <i>Design and Fabrications of Surface Plasmon Resonance (SPR) on Tapered Fiber Structure for Optical Sensor Applications</i>					
	<b>Invited Speaker 8:</b> Prof.Dr. Gerhard-Wilhelm Weber---Institute of Applied Mathematics, METU, Ankara, Turkey <i>Emerging Operational Research, Finance and Economics: Optimal Control under Regime Switches and Paradigm Shifts</i>					
10.30-10.45	<b>COFFE BREAK</b>					
Session 6 10.45-12.00	<b>Room 1 ( Theme 8-10)</b>	<b>Room 2 ( Theme 9)</b>	<b>Room 3 ( Theme 7)</b>	<b>Room 4 ( Theme 5 chem)</b>	<b>Room 5 ( Theme 5 mech)</b>	<b>Room 6 ( Theme 6)</b>
	<b>Sessionchair:</b> Dr.Arta Januzi-Cana	<b>Session chair:</b> Dr.Anat Goldstein	<b>Session chair:</b> Dr. Seema Dhail	<b>Session chair:</b> Dr.Semin Altuntaş	<b>Session chair:</b> Dr.Zeynep Parlar	<b>Session chair:</b> Dr. Allaoui Laid Abdelkrim
	<b>Abstract #</b> 182-351 226-301	<b>Abstract #</b> 493-494-512- 650	<b>Abstract #</b> 79-249-275- 299	<b>Abstract #</b> 70-88-159- 218-514	<b>Abstract #</b> 332-462-502- 503	<b>Abstract #</b> 6-84-111-146
12.00-	<b>CLOSING -- CHECKING OUT</b>					

# ORAL PRESENTATIONS IN ICCESEN-2015

## Theme -1: Physical Science and Technology

Abst. #	Authors	Title
25	M'Hamed Boulakroune, Nadia Dahraoui and Djamel Benatia	New Tool for Enhancement of Depth Resolution in Secondary Ion Mass Spectrometry Analysis
87	<u>Slobodan Nedic</u>	Towards Conceiving the Fully Optical Multiplexers, Routers and Synchronizers
97	Nimet Zaim, A. Beril Tugrul and Hakan Atlas	Investigation of Natural Radioactivity for Surface Soil Samples in the Vicinity of Edirne-Turkey
118	<u>Meleq Bahtijari, Labinot Kastrati, Gezim Hodolli, Sehad Kadiri and Gazmend Nafezi</u>	Measurements of radon and thoron concentrations in soil gas in some places in the Republic of Kosovo
121	Saafie Salleh, Fuei Pien Chee, Anand Kumar Tiwari and Haider F. Abdul Amir	Collision Cascade and Spike Effects of X-ray Irradiation on Optoelectronic Devices
131	Hatice Duran Yildiz and Dilaver Porsuk	Cavity and Field Problems at Linear Accelerators
132	Hatice Duran Yildiz, Rasit Cakir and Dilaver Porsuk	Simulation of Main Linear Accelerator Cavities
181	Skender Kabashi, Sadik Bekteshi, Skender Ahmetaj, Valon Veliu, Besnik Saramati and Kushtrim Podrimqaku	Dependence of level density from the parameters in interacting boson-fermion-fermion model (IBFFM) of the odd-odd nucleus $^{196}\text{Au}$
200	Yunus Çelik, Bünyamin Karabulut, Saadet Koç Güler, Nilgün Özdemir, Saim Zeki Bostan and Ahmet Hilmi Çon	EPR Study of Hazelnut Species Irradiated with UV and Gamma Rays
201	Karima Bouakaz and Abdessamad Abada	The Next-to-Leading Order for The Scalars Damping and Energy Hot Scalar QED
238	Sadik Bekteshi, Skender Kabashi, Skender Ahmetaj and Ivo Slaus	Charge independence and charge symmetry breaking of the nucleon-nucleon interaction
243	Sadik Bekteshi, Fisnik Alijaj, Besim Xhafa, Shkurte Kastrati and Bujar Abdullahu	Indoor radon levels in schools and kindergartens in Prishtina, Kosovo
246	Yunus Çelik, Esat Bozkurt, Necmi Dege and Bünyamin Karabulut	Crystal Structure and EPR Investigation of Pyrazinamide Containing Copper(II) Nitrobenzoate Single Crystal
251	Ayhan Usta, Yusuf Ceylan, Keziban Usta, Gulbanu Koyundereli Cilgi, Hasim Yilmaz and Mehmet Birey	Analysis of Poly(2-Hydroxyethyl Methacrylate)-Co-Poly(4-Vinyl Pyridine) Copolymers [COP2,4] irradiated: An ESR study
257	Halil Mutuk, Tuğba Mutuk, Hasan Gümüş and Başak Mesci Oktay	Gamma Radiation Activity and Shielding Behaviors of Cements Containing Nano-sized Powders
259	Keziban Usta, Yusuf Ceylan, Ayhan Usta and Erdal Aras	An EPR study on radiation-induced 2-(piperidin-1-ylmethyl)phenol single crystal

261	Yusuf Ceylan, Keziban Usta, Ayhan Usta, Erdal Aras, Nurufe Ceylan and Nuretdin Eren	Determination of free radicals on the irradiated 2,4-dinitrotoluene by EPR
294	Hüseyin Yıldız, Avni Aksoy and Pervin Arıkan	Effects of Coherent Synchrotron Radiation in Bunch Compressor of TARLA
319	Ahmed Rufa'I Usman, Mayeen Uddin Khandaker, Hiromitsu Haba, Mashashi Murakami and Yukiko Komori	New measurements of alpha induced reactions cross-sections on natural copper up to 50 MeV
424	Neslihan Kaya Kınaytürk and Halil Oturak	Identification of Structural and Spectral Features Of 2-Amino 4-Chlorobenzoic Acid and 4-Amino 2-Chloro Benzoic Acid: A Comparative Experimental and DFT study
482	Çiğdem Ş. GÜÇLÜ, Ahmet Faruk Özdemir and Şemsettin Altındal	Frequency and Voltage-Dependent Dielectric Properties and ac Electrical Conductivity of Au/Ti/Al <sub>2</sub> O <sub>3</sub> /n-GaAs at room temperature
529	Ag Asri Ag Ibrahim, Yiap Shin Yi and Jetol Bolongkikit	Emotion Identification in Sonification Design
593	Yacobus Yulianto and Zaki Su'Ud	Investigation of Nuclear Ground State Properties of Pb-208 Using Skyrme-Extended-Thomas-Fermi Approach Method
616	Yeşim Özcanlı, Fatma Kosovalı Çavuş and Murat Beken	Temperature Effect on Mechanical Properties PP / PET Blends and Artificial Neural Networks
619	Zemine Zenginerler, Filiz Ertuğral, Hakan Yakut, Emre Tabar, Nilüfer Demirci and Kübra Günermelikoğlu	Determination of the Indoor Radon Concentration in The Sakarya University Campus
621	Zemine Zenginerler, Ali Akbar Kuliev, Ekber Guliev, Yasemin Atmaca, Hakan Yakut and Filiz Ertuğral	The Ground-State Nilsson Quantum Numbers of the Odd-Odd 138-140Pr Nuclei

## Theme -2:Mathematical Science and Applications

Abst. #	Authors	Title
7	Ahmed Ghanmi and Gregory van Bavel	A Simulation-Based Economic Model for Military Aircraft Replacement/Overhaul Options Analysis
37	Aysun Tezel Özturan	On an application of generalized semi-infinite optimization
54	Fatma Kanca	Numerical Solution of the Inverse Problem of Finding the Time-dependent Diffusion Coefficient of the Quasilinear Parabolic Equation
58	Nezam Mahdavi-Amiri and Negin Bagherpour	SOLVING POSITIVE DEFINITE TOTAL LEAST SQUARES PROBLEMS BY ORTHOGONAL DECOMPOSITIONS
61	Ahmed Ghanmi	Analysis of Canadian Armed Forces CH149 Aircraft Replacement/Overhaul Options
68	Fatah Cheurfa and Karim Abbas	Non parametric analysis of the probability of ruin
72	Badredine Issaadi, Karim Abbas and Djamil Aïssani	Strong Stability Bounds for Queues
143	Silvia Ghilezan, Jelena Ivetic and Nenad Savic	An optimisation of lambda type assignments via resource control
156	Gül Gözde BİÇer, Yalçın Öztürk and Mustafa GÜlsu	A new approach for solving linear Fredholm integro-differential equations
165	Abdelkader Senouci, Achour Ouslimani, Abed-	Theoretical and experimental investigation of an L-band chaotic oscillator

	Elhak Kasbari and Abdelkrim Boukabou	
183	Fouziah Md Yassin, Ag Asri Ag Ibrahim, Zaturrawiah Ali Omar, Saturi Baco, Nor Azura Zakaria and Edward V. Bautista Jr.	Rounded Off Unsigned Constant Division Using Add-Shifts in Verilog
228	Burim Kamishi, Rasim Bejtullahuand Halil Sykja	Application of Incomplete Cylindrical Functions in the Diffraction of Gaussian Beam by a System of Equiareal Circular Sectors
277	Burcu Gürbüz and Mehmet Sezer	Laguerre polynomial solutions of a class of initial and boundary value problems arising in science and engineering fields
449	Kerim Özbeyaz and Aykut Kentli	SELECTION OF OPTIMUM MASS TRANSPORTATION BY USING AHP, TOPSIS AND VIKOR TECHNIQUES
501	Gerhard-Wilhelm Weber, Emel Savku, N. Serhan Aydın, Azar Karimov and Erdem Kilic	Emerging Operational Research, Finance and Economics:Optimal Control under Regime Switches and Paradigm Shifts
541	Mohamed Salim and Victor Bodi	Group algebras whose groups of normalized units have exponent 4
601	Celal Aydin, Necla Gunduz and Emel BaŞar	Bias Reducing Approach for Some Robust Estimators by Estimating the Roughness in the Case of Kernel Estimation
635	Fatma Bulut	The Z3-graded Quantum Lie Algebra of Vector Fields

### Theme -3: Energy and Applications

Abst. #	Authors	Title
32	Lahcen Boukelkoul	Maintenance strategies of Wind Turbines in Developing countries
62	Fellaou Soukaina and Bounahmidi Tijani	IMPROVING ENERGY EFFICIENCY IN MOROCCAN CEMENT INDUSTRY.
63	Gizem Bakir, Gamze GenÇ and Hüseyin Yapici	Neutonic Analysis of LBE-Uranium Spallation Target Accelerator Driven System Loaded Uranium Dioxide in TRISO Particles
71	Murat Karabacak, Bilal Saraçoğlu, Murat Kale and Yasin Cantaş	Maximum Power Point Tracking Control of Variable Speed Wind Energy Conversion Systems
75	Onur Mahmut Pişirir and Okan Bingöl	Industrial PC Based Heliostat Control For Solar Power Towers
86	Berkay Kiriş, Okan Bingol, Ramazan Şenol and Ahmet Altintaş	SOLAR ARRAY SYSTEM LAYOUT OPTIMIZATION FOR REDUCING PARTIAL SHADING EFFECT
98	Alper Buğra Arslan, Gizem Bakir, Gamze GenÇ and Hüseyin Yapici	Neutron-Induced Medical Radioisotope Production in a Conceptual Accelerator Driven System Fueled with Uranium Carbide
100	N. Tuğbagül Altan Akın	Theory of Relativity, Energy and The Digitization of Human Emotions
108	Zuhal Er	An evaluation of the recent solar energy simulation and modeling systems
119	<u>A. Beril Tugrul and Selahattin Cimen</u>	Importance of Corporate Governance for Energy in Sustainable Development and Evaluation With Quantitative SWOT Analysis
147	Rabi Karaali	Optimization of Heat Exchangers
154	Onur Dağ	EXPERIMENTAL COMPARISON OF SQUARE PLATE TYPE AND HEXAGONAL PLATE TYPE HEAT EXCHANGER' S EFFICIENCY
172	Ramzi Rzig, Nidhal Ben Khedher and Sassi Ben Nasrallah	Three dimensional simulation of heat and mass transfer during facing brick drying
334	Rabi Karaali	Thermodynamic Analysis of Cryogenic Cycles

371	<u>Muharrem İmal</u>	A New System Design for Energy Management in HVAC Control Systems for Textile Plants
395	Gazmend Kabashi, Skender Kabashi, Besnik Saramati and Valon Veliu	Steady state analysis of DFIG wind turbine using Matlab
408	Muharrem İmal, Muzaffer Tatlı and Erdem Alıç	Instant Mobil Management System Which Web Based And Optimization With Neural Network For Small Scale Biogas Facilities
412	Muslum Arici, Batuhan Yilmaz and Hasan Karabay	Investigation of Heat Insulation Performance of Hollow Clay Bricks Filled With Perlite
513	Müslüm Arıcı, Su Buse Tunga, Melis İğdebeli and Hasan Karabay	A Numerical Study of Free Convection Heat Transfer of Nanofluids in a Rectangular Enclosure: Effect of Aspect Ratio and Inclination Angle
562	İsmail Serkan ÜncÜ, Safinur Coşkunsu and Can Sönmez	CRI and GAI Areas Comparison in LED Light Sources with Image Processing
578	Neslihan İyit, Harun Yonar and Aşır Genç	Generalized Linear Models (GZLMs) for European Union (EU) Countries Energy Data
594	Zaki Su'Ud and Hiroshi Sekimoto	DESIGN STUDY OF AXIAL-RADIAL COMBINED MODIFIED CANDLE BURNUP SCHEME BASED LONG LIFE GAS COOLED FAST REACTOR WITH NATURAL URANIUM AS FUEL CYCLE INPUT
595	Muhamad Mandela, Zaki Su'Ud and Hiroshi Sekimoto	PRELIMINARY STUDY ON START-UP PROCESS OF PB-BI COOLED MODIFIED CANDLE BURNUP BASED LONG LIFE FAST REACTORS
640	Zohreh Didar	Comparison the Effect of Different Pretreatments on Ethanol Production from Lemon Peel (Citrus × latifolia)

#### **Theme -4: Earth Science and Applications**

<b>Abst. #</b>	<b>Authors</b>	<b>Title</b>
55	Baba Musta, Rasyidah Mooney and Ismail Abd Rahim	Mineralogical Study of Weathered Rock of Sandakan Formation and its Effect to the Potential of Slope Failure
102	Azeddine Guidoum, Abdelmalek Nemouchi and Abdelkade Hamlat	Evaluation by multi-criteria analysis of erosion risk on the southern side of Aurès region (Algeria)
103	Djeddi Mabrouk	THE GEORADAR, TECHNICAL HIGH RESOLUTION GEOPHYSICAL THEORETICAL AND APPLIED
212	Ilan Schwartzman, Stanley Rotman and Dan Blumberg	Improved Covariance Matrix for Target and Anomaly Detection in Hyperspectral Imaging
266	Alaaddin Vural	Assessment of Oak (Quercus L.) Leaf as Bio-indicator for Exploration Geochemistry
489	Lidong Mi, Hanqiao Jiang, Junjian Li, John Kİllough, Shuaiwei Dİng, Ye Tian, Bing Liang and Lin Zhao	The Shale Gas Dynamic Simulation Using Discrete Fracture Model: Coupled Gas Slip-flow, Diffusion and Desorption

## Theme -5:Engineering Science and Applications

Abst. #	Authors	Title
4	<u>Abdelmadjid Recioui</u>	Design and Thinning of Linear and Planar Antenna Arrays using a Binary Teaching Learning Optimizer
14	Mouloud Challal, Mokrane Dehmas, Arab Azrar, Rabia Aksas and Mohamed Trabelsi	Sharp-Rejection, Wide and Deep Stopband Low Pass Filter Design using Open Stubs and DGS Patterns
33	<u>Mustafa Kaya</u>	THE EFFECT OF PREVIOUSLY DEVELOPED OPERATORS ON THE PERFORMACE OF A GENETIC ALGORITHM
34	<u>Mustafa Kaya</u>	THE EFFECT OF A NEWLY DEVELOPED TERMINATION CRITERION ON THE PERFORMANCE OF GENETIC ALGORITHMS
39	Nadia Tebbal and Zine El Abidine Rahmouni	The influence of high temperature on the physical and mechanical characteristics of a high-performance concrete Elaborated with local sands
59	Abdelhamid Daamouche	Building Detection in Remote Sensing Images using Gabor Filters
67	Cenk Alhan and Hatice Gazi	INFLUENCE OF ISOLATION SYSTEM CHARACTERISTIC STRENGTH ON THE EARTHQUAKE BEHAVIOR OF BASE-ISOLATED LIQUID STORAGE TANKS
70	Semin Altuntaş, Hale Hapoğlu, Suna Ertunç and Mustafa Alpbaz	EXPERIMENTAL SELF TUNING PROPORTIONAL INTEGRAL DERITATIVE pH CONTROL APPLICATION TO A BIOPROCESS
76	Marcin Kowalczyk	2x2 MIMO VLC optical transmission system based on LEDs in a double role
88	Abdulmajeed Dabwan, Mohamed Saleh, Adham Ragab and Abdelnaser Daoud	Experimental study for the Effect Parameters of Single Point Incremental Sheet Metal Forming
93	Ivana Sušanĳ and Nevenka Ožanić	Evaluation of quality prediction of the Rainfall-runoff Artificial Neural Network (ANN) model for the small catchment (Slani potok, Republic of Croatia)
113	Damodar Reddy Edla, Vishnu Gondlekar and Vivek Gauns	HK-MEANS: A HEURISTIC APPROACH TO INITIALIZE AND ESTIMATE THE NUMBER OF CLUSTERS IN K-MEANS
125	Nahide Tuten and Erdem Acar	Weight Optimization and Reliability Prediction of an Automobile Torque Arm Subjected to Cyclic Loading
128	Nabi Ibadov	Determination of the risk factors impact on the construction projects implementation using fuzzy sets theory
137	Wael Ali Khudhair	Modeling of Deep Drawing Process for AZ31 Magnesium Alloy Cup to Investigate the Effect of Inclination Angle of the Blank Holder by FEM
140	Michał Krzemiński	KASS v.2.2. scheduling software for construction
151	Mehmet Şahbaz and Aykut Kentli	Solver Selection in Thermal Analysis Using a Multi-Criteria Decision Making Method
159	Kamal Chanane, Samir Chaibi and Omar Bouras	Effect of copper on Toluene adsorption to cetyltrimethylammonium-modified Fe-pillared montmorillonite
160	Mustafa Reşit Tavus, Yunus Çelik, Nurettin Şenyer, Recai Oktaş and Bünyamin Karabulut	A Computational Method for Analysis of EPR Spectra Based on Image Processing
173	Dakhmouche Fatima-Zohra and Chabil Hocine	Comparison of the accelerated carbonation and natural carbonation of the cement paste
184	Adnan Ismael and Mustafa Günal	3D Turbulent Flow Field at Downstream-Facing Round Nosed Pier in Non-Uniform Scour Hole
186	Abdulnaser Ahmed, Mustafa Günal and Hamid Hussein	Investigation of Local Scour and Discharge Characteristics of Single Step Broad Crested Weirs
187	Ayşe Yeter Günal and Aytaç Güven	Derivation of Synthetic Unit Hydrograph of Small Catchments by Using GIS

207	Hüseyin Yanık and Evren Değirmenci	Detection of ECG Characteristic Points Based on Wavelet Transform
218	Müjgan Okur and Filiz Akti	Removal of Violet 90 Metal-Complex Dye by Using Zeolite from Aqueous Solutions
234	Damodar Reddy, Pravin Pawar, Keshavamurthy Bn and Chirag Modi	Improved K-means clustering algorithm using Voronoi diagram
235	Aykut Karakaya and Kerem Erzurumlu	A New Approach to E-Book
255	Fatih Çelik, Hanifi Çanakçı and Muhammet Çınar	An investigation of effect of rice husk ash (RHA) on the rheological and mechanical properties of cement based grout
258	Mustafa Cömert and Ali Yıldız	Palm Vein Authentication and Verification System
262	Muhammet Çınar, Hanifi Çanakçı and Fatih Çelik	Effect of rice husk powder on rheological properties of cement-based grouts
268	Murat Alper Alkan, Zeynep Parlar and Vedat Temiz	Design of a Continuous Transport Machine for Spherical Materials Using Systematical Design Approach
286	İlyas Kacar, Cem Boğa, Cem Korkmaz and Vebil Yıldırım	Exact Elasticity Solutions to Axisymmetric Hollow Rotating Structures Made of an Isotropic and Homogeneous Material for Different Boundary Conditions
288	Hacer Yumurtacı Aydoğmuş, Yusuf S Türkan and İbrahim Çil	Implementing Lean Manufacturing in the Construction Industry of Turkey
298	Dilek Uzer, S. Sinan Gültekin, Özgür Dündar, Emrah Uğurlu and Rabia Çalışkan	Bandwidth Enhancement of Equilateral Triangle Microstrip Patch Antenna with Slot Loading and Dielectric Superstrate
306	Mohammed Fatah Lakhdari, Ali Zaidi and Mohammed Bouhicha	Physical-mechanical performances of a dune-alluvial sand mortar
316	Ali Burak Öncül, Recai Oktaş and Erhan Ergün	The Problems of Programming Languages and Softwares in Turkish Locale
317	Ugur Albayrak and Mehmet Canbaz	Investigation of Fiber Reinforced Plastic (FRP) Bars Utilization instead of Steel Reinforcing Bars in terms of Mechanical Properties
318	Emrah Uysal, Bülent Ekici and Mustafa Çakır	Comparison of 3D Printers according to Mechanical Properties and Manufacturing Time Criteria
324	<u>Gulcag Albayrak and Ugur Albayrak</u>	Comparison between Linear Programming and Genetic Algorithm Approaches for Optimization of Ready-Mixed Concrete Distribution
332	Muhammed Emin Başak and Fırat Kaçar	Ultra-Low Voltage and Ultra-Low Power DTMOS Based VDCC Design
337	Ayhan Özdemir, Zekiye Erdem and Ilona Usuman	State space Modelling of Wheelchair in Discrete Time
338	Zekiye Erdem, Ayhan Özdemir and M.Bilgehan Erdem	Control Method Performance Comparison of the DC-DC Boost Converter for MPPT Systems
350	Remzi Tuntas and Yakup Demir	The Piecewise Modeling and Analyze of Nonlinear Systems Including Hysteresis Looped Inductance Devices with Artificial Neural Network
381	Özdoğan Karaçali	An Investigation on Buckling Analysis of Axially Compressed Long Telescopic Prop by Finite Element Method
388	Antonio Pascau and Victor J Llorente	CFD calculations of MRF in valve mode
406	Murat Yazıcı, Harun GÜÇLÜ, İdris Karen, İbrahim KÜRŞAD Kandirmiş and Sertaç Malkoç	Optimal Design of Light Commercial Vehicle Headlamp for Pedestrian Protection
410	Murat Yazıcı, Salim Yagoub, İdris Karen and Yücel Can	Numerical and Experimental Investigation of Failure Analysis Adhesive Joints Under The Extreme Temperature Conditions
416	Nurettin Gökhan Adar and Recep Kozan	Comparison between Real Time PID and 2-DOF PID Controller for 5-DOF Robot Arm

420	Vedat Yegin and Durmus Karayel	Design and Prototype Manufacturing of a Torque Measurement System
426	Yasin Durgut, Eyüp Bilgiç, Ertan Akşahin, Sinan Fank, Eyüp Bağcı, Ahmet T. İnce and Bülent Aydemir	Uncertainty Evaluation for Dynamic Pressure Measurements
462	Sinan Fank and Bulent Aydemir	NEED OF TRACEABLE FORCE MEUREMENTS IN STEEL INDUSTRY IN MEGANEWTON LEVEL FORCES
486	Mehmet Bilgehan Erdem and Zekiye Erdem	A Fuzzy Analytical Hierarchy Process Application on Personnel Selection in IT Companies: A Case Study in a Spin-Off Company
491	Ahmet Aksu, S. Sinan Gültekin and Dilek Uzer	Openings for Flashing Solar System Sync in Microstrip Antennas Study Design Problems and Applications
502	Sami Doner, Abdullah Demir, Murat Emre Ozturk, Ahmet Cagatay Cilingir and Ibrahim Kutay Yilmazcoban	Ballistic Protection Evaluation of Sequencing The Composite Material Sandwich Panels for The Reliable Combination of Armor Layers
503	Chao Zhou, Xiaodong Wu and Hui Li	Influence of In-situ Stress Distribution on Selection of Fracturing Fluid Backflow Technology
509	Serik Zhuzbaev, Zhanar Akhmetova and Tleukenov Sadriten	Optimization of parameters of programs for research of distribution of dynamic waves in elastic medium
514	Mohamed Kheireddine Ben Taeib Aroua	Enzyme Catalysis for the Production of Glycerol Carbonate
538	K. Abdelouahab, C. Bensmail, Mouloud Challal and Rabia Aksas	Design and Implementation of Electronic Scanning Antenna Array with Programmable Control Phase
540	Dae-Soon Chang and Sang-Chul Park	Improvement of the production performance in a semiconductor packaging process operation based on computer simulation
557	Mehmet Avcar	EFFECTS OF MATERIAL NON-HOMOGENEITY AND TWO PARAMETER ELASTIC FOUNDATION ON THE FREQUENCY PARAMETERS OF TIMOSHENKO BEAMS
563	İsmail Serkan ÜncÜ and Oguzcan Ozullerİgİden	Image Processing-Based Autonomous Wall Painting Robot
565	Sadi Fuat Çankaya and İsmail Serkan ÜncÜ	Determination in HD camera image quality with Image Processing
584	Tuncay Aydoğın, Ibrahim Ozcelik, Ismail Erturk and Huseyin Ekiz	Performance Analysis of CoS of Bridged WorldFIP and ATM Networks for Real Time Communication
600	Murat Tören and Cebraİl çİflikli	COMPARISON OF REDUCTION METHODS FOR PEAK-TO-AVERAGE-POWER-RATIO (PAPR) IN MIMO-OFDM SYSTEMS WITH A NEW APPROACH
604	Mustafa Tumbek, Yusuf Oner and Selami Kesler	Design and Optimization of Low Voltage Induction Motor for Standalone PV Systems by FEM
614	Selahaddin Batuhan Akben	A Novel Clustering Method Suitable for Clustering of Biological Signal Datasets Containing Batched Outliers
615	Selahaddin Batuhan Akben	A New Method for Selection of Neighborhood Parameter in Distance – Weighted K-Nearest Neighbors Classifier (DWKNN): Circular Attribute Neighbors

## Theme -6:Material Science and Applications

Abst. #	Authors	Title
45	Alper Sezer, Ali Mardani-Aghabaglou, Asli Boz and Nazar Tanrıman	Effect of Lignosulphonate on Unconfined Compressive Strength and Permeability of Bentonite
84	Haddad Boumediene, Dahmani Karima, Didier Villemin, Moumene Taquyedine, El-Habib Belarbi and Mustapha Rahmouni	Preparation, characterization of nano-adsorbents based on clay-ionic liquids for removal of both contaminants pollutants from wastewater
109	Allaoui Laid Abdelkrim and Allaoui Omar	Corrosion resistance of borided layers obtained on XC38 steel
111	Mustafa Alhyal, Saqib Anwar, Abdulaziz Al-Tamimi and Saied Darwish	Parameters Optimization of Rotary Ultrasonic Machining of BK7 Glass for Exit chipping, Cutting Force and Surface Roughness
127	Khalida Boutemak, Aicha Chekirine and Ghania Tail	Phytochemical screening, antioxidant and insecticidal activities of <i>Ajuga iva</i>
146	Hassiba Benguergoura	Use of inverse gas chromatography to the measurements of thermodynamic properties of various SBR-solvent systems
166	Laslouni Ouarda and Azzaz Mohamed	Electromagnetic Properties In Nanostructured Alloy Cu70 Co30 Obtained By a Non-Equilibrium Method
168	Nadjet Taoualit, Fatima-Zohra Azzazi, Naceur-Eddine Benkadi and Djamel-Eddine Hadj-Boussaad	Extraction and transport of humic acid using supported liquid-membrane containing Trioctyl phosphine oxide (TOPO) as the carrier
188	Aziz Hassan and Javad Heidarian	Thermal and Mechanical Properties of Fluoroelastomer Filled With Acidic Surface Modified Carbon Nanotubes
194	Şemsi Yazıcı, Gözde İnan Sezer and Alper Sezer	Modeling properties of SRFC by unsupervised clustering algorithms
248	Mehmet Şahbaz, Aykut Kentli, Ahmet Eren and Cangül Bilik	Selection of Insulation Material for External Walls of Residential Buildings by AHP and TOPSIS Methods
263	<u>Alimurtaza Rutci</u>	Determination of Suspension Ball Joint Pull Out Force Based on FEA Method
265	<u>Nabil Khelifati, Djoudi Bouhafs, Seddik-El-Hak Abaidia, Ayache Mebarek-Azzem and Baya Palahouane</u>	Adequate Method for Decoupling Bulk Lifetime and Surface Recombination Velocity in Silicon Wafers
279	Basak Otsukarci and Yasemen Kalpakli	Effect of Dye Type on the Photocatalytic Performance of Montmorillonite Supported Pr Doped TiO <sub>2</sub> Photocatalyst
295	Mahmood Wan Ahmad Kamil and Mohammad Hossein Azarian	Electrical,surface, nanomechanical and XPS studies of epoxidized natural rubber/Pani/zirconia ternary composite films
323	Zahra Alhalafi and Dr.Shashi Paul	Organic Ferroelectric Non- volatile Memory Devices - Exploiting Ferroelectricity in Two Terminal Memory Devices.
343	Ahmad Mukifza Harun and Huzaikha Awang	Molarity, Temperature and Time Dependency Parameters in Synthesize of Titanium Dioxide from synthetic rutile waste
346	Alaeddine Kaouka, Khedidja Benarous and Omar Allaoui	Tribological study and corrosion resistance of boride layers on carbon steel
347	Alaeddine Kaouka, Khedidja Benarous and Omar Allaoui	Microstructure and mechanical properties of Titanium alloy (Ti-6Al-4 V) and pur Titanium prepared by PM
367	Azeez Abdullah Barzinjy and Masoud Muhammed Zankana	A novel application of the quartz crystal microbalance for determining the rheological properties of the highly viscous liquids
370	Oğuz Koçar, Durmuş Karayel, Osman Eldoğan, Sinan Serdar Özkan and Ferit Fiçici	Optimization of Process Parameters for Minimization of Wrinkle and Tearing in Deep Drawing Process Using Taguchi Approach
374	Hasan Satılmış, Mehmet Özkan, Şükrü Taktak	An influence of deposition power on ALN film roughness by RF magnetron sputtering

	and Ömer Faruk Emrulloğlu	technique
441	Murat Yazici, Hakki Özer, Kürşad Kandirmiş, Harun GÜÇLÜ and İdris Karen	Experimental Determination of Mechanical Properties of 2D Cross Ply Glass Fiber Reinforced Thermoplastic Laminated Composite Materials and Finite Element Model Validation
465	Bülent Aydemir and Sinan Fank	Calculation of measurement uncertainty for E-modulus of elasticity for automobile deadening panel
479	Nacira Saoudi, Brahim Saoudi, Hayet Cherfa and Boudjema Bezzazi	LOCAL MATERIALS AND INFLUENCE OF THE STEEL FIBERS ON THE PROPERTIES OF CONCRET
496	Oya Seker, Behiye Bolgöl and Osman şahin	Heat application dependence of the vickers microhardness behaviour of two different dental filling materials
497	Oya Seker, Behiye Bolgöl and Osman şahin	Effect of heat application on the nanohardness properties of widely used two different glass ionomer cements
516	Sedat Sert, Cyrille Prosper Ndepete and Ahmet Beycioğlu	Estimation of Undrained Shear Strength of Basalt Fiber Reinforced Silty Soils by using Fuzzy Logic Approach
533	Hayet Cherfa, Nacera Saoudi, Khedidja Ait Mokhtar, Amar Nechnech and François Duhaim	Study of mechanical properties of dune sand treated with blast furnace slag
558	Irida Markja, Thomas Bier, Mirco Wahab and Ylli Shehu	CHARACTERIZATION OF PORE STRUCTURE OF BINDER SYSTEM
576	Zeki Arslanoğlu, Halenur Altan, Ediz Kale, Fundagul Bilgic and Osman Sahin	Evaluation Of Nano Hardness And Elastic Modulus Of Carbomer Based And Four Different Dental Fissure Sealants By Using Triboindenter
577	Halenur Altan, Fundagul Bilgic, Zeki Arslanoğlu, Ediz Kale, Aslihan Kale, Ahmet Altan and Osman Sahin	Nanomechanical Properties Of Different Dental Restoration Materials
612	Şemsettin Kılınçarslan and Buket Akyol	Investigation of Selection Construction Materials Effect In Radiotherapy Centre's
631	Dr. Omar Surkhi, Dr. Raid Maali, Areen Lissoun, Khulood Abuhussen and Nancy Yaman	Characterization of Materials Coating Using Impulse Excitation Technique
636	Amer Al Abdel Hamid	Effect of Halogens Attached to Carbon-Carbon Triple Bond Substituent on Electron Donating Efficacy of Pyridine: DFT-Study
643	Rosiyah Yahya, Li Na Sim and Abdul Kariem Arof	Mobility and number density of lithium ions in solid polymer blend electrolytes based on poly(ethyl methacrylate) and poly(vinylidene fluoride-co-hexafluoropropylene) incorporated with lithium trifluoromethanesulfonate

### Theme -7: Biological and Medical Science and Applications

Abst. #	Authors	Title
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79	Mehmet Cevri and Dursun Ustundag	Bayesian Predictions of Genetic Traits
199	Alpaslan Dayangaç, Hurrem Turan Akkoyun, Sevinç Aydın, Mahire Bayramoğlu Akkoyun, Muammer Bahşi, Gülistan Akbaş, Taylan Aktaş and Ökkeş Yılmaz	Investigation of Protective Effects of Astaxanthin on Prevention of Liver and Kidney Tissues Damage in Rats which Exposed to Nicotine
236	Arzu Çilli, Kıvanç Ergen and Ercüment Akat	Comparisons of Various Mathematical Models for Predicting the Effects of Epidemic Diseases
239	Su Na Chin	Skill Retention in Cardiopulmonary Resuscitation Among Laypersons and Healthcare Professionals
249	Pravin Pawar, Damodar Reddy Edla, Vijay Shinde and Bert-Jan van Beijnum	Quality of Service Considerations in Mobile Patient Monitoring Systems
275	Talha Siddik Akkaya, Ozge Kozgus Guldu, Volkan Tekin, Perihan Unak and Iskender Ince	In Vitro Evaluation of 18F Grayanotoxin (GTX) Conjugated Gadolinium (Gd) Nanoparticles
299	Ruzhdi Kuqi and Esad Dauti	FAUNA OF AMPHIPODES IN SURROUNDING RIVERS OF KOSOVO
329	<u>Vilda Purutçuoğlu and Derya Altıntan</u>	Comparison of Performances for Stochastic Simulation Algorithms of Biochemical Networks with/without Impulses
333	Yunus Babacan and Firat Kacar	Harmonic Generation Analyses of Memristor with Different Barriers and Neuron
379	Özdoğan KaraÇali	Cardiovascular Stent Analysis During Laminar Flow by Finite Element Analysis in Computational Medical Engineering
536	Neslihan İyit and Kumru Urgancı	Mixed-Effects Modeling of Organisation for Economic Co-operation and Development (OECD) Member Countries Repeated Measurements Health Data
572	Mehmet Kumartaşli, Ismail Serkan ÜncÜ and Murat AkyÜz	Investigation Of The Effect Of The Hit Force On The Moving Targets In Taekwando
611	Asiye Tok, Mehmet Bektaşoğlu and Halil Arslan	Dependence of the Depth-Dose Distributions and Ranges of Proton Beams in Water Medium on Geant4 Parameters
627	Seema Dhail, Dr. Tanmoy Chakraborty and Prof. Hanoch Senderowitz	QSAR Models for Human Carbonic Anhydrase inhibitors: A Comparison between QM and Classical Descriptors

### Theme-8: Education Technologies and Applications

Abst. #	Authors	Title
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182	Ag Asri Ag Ibrahim, Alter Jimat, Ryan Macdonell Andriasand Soffri Yussof	The Effectiveness of Parameter Mapping in Sonifying 3D Body Movements
351	Halil Mutuk	To be or not to be in physics

### Theme-9: Agricultural Science and Technology

Abst. #	Authors	Title
134	Abdullah Kadayıfçı and Halit Yıldız	Examination of Design and Operating of Drip Irrigation Systems Used in Irrigation of Sweet Cherry Orchards in Isparta-Uluborlu Region
155	Kutalmış Turhal, Ümit Çiğdem Turhal and Ahmet Tuna Cömert	Automatic determination of the amount of fertilizer will be buried by Artificial Neural Networks
158	Anat Goldstein, Chen Karmona, Adi Shemesh, Anna Chernov, Lior Fink, Gilad Ravid, Orit Raphaeli and Amots Hetzroni	A Cloud-based Service for Analyzing Red Palm Weevil Spread
233	Kutalmış Turhal and Ahmet Tuna Cömert	The Use of Ram Pump System for Agricultural Irrigation
492	Kahraman Kepenek	The Researches on Improvement of New Types by Mutation Breeding of Sweet Cherry Variety '0900 Ziraat'
493	Kahraman Kepenek	Effects of gamma ray irradiation and NaCl on induced somaclonal variation in Arnavutköy strawberry cultivar
494	Kahraman Kepenek and Zuhul Karoglu	Micropropagation of Walnut ( <i>Juglans regia</i> L.)
512	Odo Jones Bassey, John Odiyo, Luke Chimuka and Ochieng Aoyi	Application of mucilage from <i>Dicerocaryum eriocarpum</i> plant as biosorption medium in the removal of selected heavy metal ions
650	Fadi Al-Turjman	On Wireless Sensor Networks for Plant Phenotyping: An Overview

### Theme -10: Forestry and Environmental Science and Engineering

Abst. #	Authors	Title
226	<u>Arta Januzi-Cana</u>	Sustainable Forestry as Local Potential for Development of Timber Architecture - Case of Kosovo
301	Ruzhdi Kuqi and Ewald Spitaler	WASTE ANALYZE WITHIN REGION OF PRIZREN

# POSTER PRESENTATIONS IN ICCESEN-2015

## Theme -1: Physical Science and Technology

Abst. #	Authors	Title
17	Djamila Benlemdjaldi, Abdellatif Tahraoui, Naima Fouial and Samir Chekour	The trap of dust particle in electronegative plasma sheath with dust size distribution
41	Mohamed Maoudj, Djoudi Bouhafis and Bourouba Nacer Eddine	A Comparative study of etching silicon wafers with NaOH and KOH solutions
60	Lebba Ghenam and Amal Ait El Djoudi	Thermodynamics of the deconfinement phase transition
133	Hatice Duran Yildiz, Rasit Cakir and Esra Demirhan	Design Optimization for X-Ray Free Electron Lasers
142	<u>Gezim Hodolli, Sehad Kadiri, Gazmend Nafezi, Meleq Bahtijari and Kostandin Dollani</u>	EXTERNAL INDIVIDUAL MONITORING OF RADIATION WORKERS IN KOSOVO
170	Embarka Boutalbi, Leila Ait Gougam, Mouloud Tribeche and Fawzia Mekideche-Chafa	Neural networks applied to non-analytic pseudo-potentials in a charge-varying dusty plasma
185	Souad Wassila Rachedi and Mokhtar Kemal Inal	Relative Intensities of the 3d-2p Lines Emitted by Ar <sup>13+</sup> Ions after Impact Excitation by an Electron Beam
213	Fatima Benrachi, Ghania Bouhila and Mourad Ramdhane	Evaluation of natural radioactivity and assessment of radiation hazard indices in some sediment samples from streams of east Algeria
222	Nour El Houda Benmansour and Mammar Bouamoud	the theoretical study of atomic excitation by impact of protons in the variational formalism
230	Karima Benchallal, Abdessamad Abada and Karima Bouakaz	The Transverse Gluons Self-Energy In Hot QCD Using the Real-Time Formalism
240	Dorota Kalisz and Paweł Leszek Żak	PSG method for simulating agglomeration of Al <sub>2</sub> O <sub>3</sub> inclusions in liquid steel
242	Dorota Kalisz and Paweł Leszek Żak	Computer simulation techniques in modeling of non-metallic precipitates formation during CCS process
276	Gazmend Nafezi, Gezim Hodolli, Sehad Kadiri and Meleq Bahtijari	Correlation between instantaneous and average radon activity concentrations
281	Karima Mezouar and Amal Ait El Djoudi	Effect of Different SU(3) Color Representations on the Nucleation of Quark-Gluon Plasma Droplets from a Hadronic Gas
285	Muhitdin Ahmetoglu, Ali Kara and Banu Kucur	Poly(Ethylene glycol dimethacrylate-co-1-Vinyl-1,2,4-triazole/carbon nanotube, single-walled) /n-GaAs Diode Formed by Surface Polymerization
313	Kenza Zaibak and Samira Biskri	Application of Continuous Wavelet Transform to the Signal of Turbulent Flows
320	Nadjet Laouet and Fatima Benrachi	Nuclear Structure Properties of the N=81 Odd-Odd Isotones in <sup>132</sup> Sn mass region
331	Naima Fouial and Abdelatif Tahraoui	Study of dusty plasma –Sheath structure containing two species of positive ions
335	Boudhar Karima and Debieche Mahdi	Evolution of elastic constants during the transition in K <sub>1</sub> -xRbxAlF <sub>4</sub>
352	Ürkiye Akar Tarım	Evaluation of multiple backscattering and saturation thickness of gamma-rays

353	Orhan Gürler and Ürkiye Akar Tarım	Determination of radiation shielding properties of some polymer and plastic materials for gamma-rays
373	Dilan Alp	Generation attosecond pulse: Using floquet method by a two-color laser field
385	Selena Grujić, Miodrag Milosević and Ivana Maksimović	<sup>90</sup> Sr and <sup>137</sup> Cs activity determination in spent fuel storage basins water using Monte Carlo simulation
423	Halil Oturak, Neslihan Kaya Kınaytürk and Muhammed Ahmet Topuz	Experimental (FT-IR and FT-Raman) and DFT Study of Vibrational Frequencies of 2-Amino-4,5,6,7- Tetrahydrobenzo[b] Thiophene-3-Carbonitrile
455	Nurdan Karpuz and Betül Mavı	Theoretical Production of Radiopharmaceuticals Used in Myocardial Perfusion Scintigraphy
456	Nurdan Karpuz	Effects of the Level Density Parameter Rate to Cross Sections Fission of Uranium Isotopes
458	Arzu Çoşkun and Betül Mavı	Determination of The Natural Radioactivity Level of Amasya Şeyhçui Region
459	Nurdan Karpuz, Betül Mavı and İskender Akkurt	Calculations of Double Differential (n,p,α,d,t,He) Emission Cross Sections for <sup>209</sup> Bi Nuclei.
460	Arzu Çoşkun and Betül Mavı	Measurement of the Radioactivity of Tc-99m Radiopharmaceuticals
461	İskender Akkurt and Betül Mavı	SEM Image Analysis Of Concrete As A Result Of Chemical Action and Radiation
463	Sibel Özavcı and Betül Mavı	Experimental Investigation of Radiation Shielding Effect in Different Doped Slag Concretes
464	Fatma KilinÇ, Nurdan Karpuz and Betül Mavı	Obtaining Theoretically Of In-111, Tc-99m And Co-60 Radioisotopes Used For Kidney Imaging
466	Nurdan Karpuz, Betül Mavı and İskender Akkurt	Investigation of Double Differential Cross Sections (g,p) Reaction for <sup>12</sup> C Nuclei.
467	Sibel Özavcı and Betül Mavı	Determination of Radiation Attenuation Coefficients in Concretes Containing Different Wastes
468	Fatma KilinÇ, Nurdan Karpuz and Betül Mavı	The Calculation Of The (p,n) Reaction Cross Section Of Some Radionuclides Used For PET Applications
469	Betül Mavı	Determination of Natural Radioactivity Concentrations in Surface Soils in the Yeşilırmak River in Amasya-Turkey
476	Mustafa Cevat Boz, Nurdan Karpuz and Betül Mavi	A Comparative Study of Proton-induced Reaction on Sn İsootopes
477	Mustafa Cevat Boz, Nurdan Karpuz and Betül Mavi	Theoretical Calculation of Neutron Reaction Cross Section in the Energy Range of 5–40 MeV for Mo
480	Samir Chekour, Abdellatif Tahraoui and Djamila Benlemdjaldi	Effects of dust particles on the electrostatic potential sheath in the presence of an oblique magnetic field
608	Hüseyin Ozan Tekin, Kaan Yıllancioğlu and İskender Akkurt	Estimation of Energy Spectrum from Co-60 and Cs-137 by using Artificial Neural Networks (ANN)
609	Hüseyin Ozan Tekin, Kaan Yıllancioğlu, Umit Kara and İskender Akkurt	Estimation of Nuclear Resonance Fluorescence (NRF) Excitations Photopeaks and Energy Levels in 63-1874 keV Energy Range by Using Artificial Neural Networks (ANN)
628	Aynur Öztürk, H. Muzaffer Şağban and Özge Tüzün Özmen	The analysis of frequency dependent capacitance and conductance characteristics of the Au/P3HT:F4-TCNQ/n-Si (MPS) Schottky barrier diodes
629	Aynur Öztürk, H. Muzaffer Şağban, Özge Tüzün Özmen, Oğuz Köysal, Ahmet Demir, Arif Kösemen and Zühal Alpaslan Kösemen	The frequency dependent dielectric properties of the Au/P3HT:F4-TCNQ/n-Si (MPS) Schottky barrier diodes
630	Serpil Karasu, H. Muzaffer Şağban, Aynur	Frequency effects on the electric and dielectric properties of the Au/P3HT:PCBM/n-Si

	Öztürk and Özge Tüzün Özmen	(MPS) Schottky barrier diodes
632	Nilgün Demir and Asuman Aydın	Monte Carlo Simulations of RPC for 0.511 MeV Photon with FLUKA
633	Nilgun Demir	Monte Carlo Studies for Micro Mesh Gaseous Structure Performance
634	Nilgun Demir and Ayse Kivrak	The Energy Levels Studies of $^{153}\text{Eu}$ ( $\gamma, n$ ) Reactions
642	Betül Mavİ, Feda Öner and İskender Akkurt	Determination of Natural Radioactivity and Associated Radiological Hazard in Excavation Field Soils in Turkey (Oluz Hoyuk)
645	Mohamed Saleh Benlatreche, Hocine Karbouaa and M'Hamed Boulakroune	An Experimental Investigation of the Formation of thin Films Ni Silicide by Energy Dispersive X-ray Dpectroscopy and Scanning Electron Microscopy
646	Susan Shukur Noori, Nurdan Karpuz and İskender Akkurt	Excitation Functions of Deuteron Induced Reactions on Some Light Nuclei
647	Serpil Eryılmaz, Emel Pelit and Zuhul Turgut	Quantum Chemical Computational Studies on 1-((R)-(2,4-dimethylphenyl)((R)-1-phenylethylamino)methyl)naphthalen-2-ol
653	Hakan AKYILDIRIM <sup>✉</sup> , İskender AKKURT <sup>1</sup>	Estimation of photon attenuation coefficients of concrete containing olivine mineral for several energies by FLUKA code
654	Hakan AKYILDIRIM <sup>✉</sup> , İskender AKKURT <sup>1</sup>	Photon shielding properties of concretes containing zeolite mineral by FLUKA MC and XCOM codes
655	Tuğçe Sevinç TÜRKMEN, Metin YILMAZ	Design of RF Cavities for Industrial Electron Accelerator (IEA)

## Theme -2: Mathematical Science and Applications

Abst. #	Authors	Title
164	Farida Ouslimani, Achour Ouslimani and Zohra Ameer	Rotation Invariant Features Based on Regional Rank for Texture Classification
397	Abide Tuna Aksoy	Null Quaternionic Bertrand Curves in Minkowski Space $\mathbb{R}_1^4$
398	Abide Tuna Aksoy	Pseudo-Spherical Null Quaternionic Curves in Minkowski space $\mathbb{R}_1^4$
419	Kazizat Iskakov, Zhanar Oralbekova and Ainur Kussainova	Optimization method of the solution of the inverse problems at the discrete level

## Theme -3: Energy and Applications

Abst. #	Authors	Title
21	Sinan ÖztaŞ, Adnan SÖzen, Metin GÜRÜ and Engin ÖzbaŞ	The Influence of Absorbents on the Cooling Performance of Diffusion Absorption Mini-Refrigeration Systems
35	Toufik Smail, Hocine Belmili, Salah Hanfoug and Naoual Seddaoui	Modeling and Simulation of Buck-Boost DC-DC Converter for wind turbine (WT) and photovoltaic (PV) applications
315	<u>Ozan Toprakci and Hatice Aylin Karahan Toprakci</u>	Electrochemical performance of $0.3\text{Li}_2\text{MnO}_3 \cdot 0.7\text{LiCo}_1/3\text{Ni}_1/3\text{Mn}_1/3\text{O}_2$ nanocomposites by solvothermal route for rechargeable lithium-ion batteries
520	Lubomír Musálek, Zdeněk Novák and Lukaš Žák	Possibilities of energy efficiency increase in annealing processes

575	Yasmina Si Ahmed, Toufik Hadjersi and Rachid Chaoui	Fabrication of pyramid/nanowire binary structure on n-type silicon using chemical etching
610	Abdullateef Jadallah, Dhari Mahmood and Zuhair Er	HYBRIDIZATION OF SOLAR/WIND ENERGY SYSTEM FOR POWER GENERATION IN RURAL AREAS
641	Erdem Elibol, Özge Tüzün Özmen, Nedim Tutkun, H. Muzafer Şağban and Oğuz Köysal	Performance Comparison of Three Different Types PV Panels

#### Theme -4: Earth Science and Applications

191	Sabiha Anas, Abdelkrim Kheloufi, Naima Boutarek and Fouad Kerkar	Valorization of Algerian Sand for Carbothermic Process
193	Mohamed El Tokhi, Bahaa Eldin M. Amin and Sulaiman Alaabed	Trace metals contaminations of bottom sediments of Abu Dhabi area, UAE.
210	Bahaa Eldin M. Amin, Amna Faqeer, Samieh Afroz and Aisha Hader	GEOCHEMICAL EXPLORATION OF MINERAL DEPOSITS IN THE CARBONATE ROCKS IN Masafi-Ismah Metamorphic Window, UNITED ARAB EMIRATES.
360	Ali Al-Hashmy and Hanifi Çanakci	Prediction of Consolidation and Strength Parameters of Soil Around Tigris River From Simple In-Situ and Laboratory Tests
542	Chuanbin Liu and Haoqiao Jiang	Decline Curve Analysis for shale gas wells Theory and Application
548	Chuanbin Liu, Haoqiao Jiang, Lidong Mi and Junjian Li	The research of shale gas multi-scale percolation mechanism

#### Theme -5: Engineering Sciences and Applications

Abst. #	Authors	Title
24	Zine El Abidine Rahmouni, Nadia Tebbal, Khadidja Djenai, Wafa Saci and Belouadah Messaouda	Influence of super plasticizers on the mechanical properties of high performance concretes subjected to elevated temperatures
28	Salim Kahveci	The Effects of Segment Length on Zigzag Code Performance
90	Nuri Akkaş, Erdiñ İlhan, Salim Aslanlar and Erman Ferik	THE EFFECT OF NUGGET SIZES ON MECHANICAL PROPERTIES IN RESISTANCE SPOT WELDING OF S235JR(CU) STEEL SHEETS USED IN RAILWAY VEHICLES
105	Fatiha Atmani and Nacera Yeddou Mezenner	Treatment of bilge water by hybrid adsorption and photocatalytic processes
130	Nacera Yeddou Mezenner, Fatiha Atmani and Zohra Bensaadi	Photocatalytic degradation of natural seawater Organic matter
176	<u>Abdelkader Mouhab, Djamel Bentaieb, Abdelaziz Lachemet and Salah Belaadi</u>	Theoretical Studies of the ejector refrigeration cycle in critical operating conditions
189	Jana Lipkovski and Florian Weinmann	A comparative analysis of force-density based form-finding software to minimal surface equation

196	Nuri Akkaş, Erman Ferik, Erdinç İlhan and Salim Aslanlar	THE EFFECT OF WELDING CURRENT ON NUGGET SIZES IN RESISTANCE SPOT WELDING OF SPA-C STEEL SHEETS USED IN RAILWAY VEHICLES
217	<u>Kamel Lebchek</u>	Study of a Simply Supported Hollow Shaft in Dynamics – Campbell Diagram, Dynamic Stresses and Modes in Rotation
293	Hatice Aylin Karahan Toprakciand Ozan Toprakci	Electronic Textiles
303	Mehmet ÖZDEMİR1, Mehlika ÖZDEMİR ALP2, Ayşe AYTAÇ Veli DENİZ	SURFACE PROPERTIES STUDY OF PAPERS SIZED WITH STYRENE-BUTYLA CRYLATE COPOLYMERS
305	Fouziyah Md Yassin, Salamah Samsu, Mysyarah Shamsudin, Jedol Dayou and Fauziah Sulaiman	Analysis of Variable Pulse Generator by Using LMC555CM and LM741
326	Fisnik Aliaj, Naim Syla andArlinda Bytyqi-Damoni	Thermodynamic properties of methanol+water and ethanol+water liquid mixtures deduced from speed of sound, density and viscosity measurements
330	Amara Atika and Khalaf Hussein	Modification of the structure of the montmorillonite and its application to the hydrocarbon mercury removal
354	Lakehal Brahim, Lakhdar Nacereddine and Dibi Zohir	Modeling of solar cell using genetic algorithms
387	<u>Ahmet Gurhanli</u>	Accelerating Processors with Simple Touches
390	Kamel Kara and Mohamed Laid Hadjili	Approximate Neural Generalized Predictive Control (ANGPC)
391	Mohammed Ouali, Adel Zemirline and Ali Mahieddine	Effect of various parameters on delaminated actuators with piezo-beams
393	Ghellal Kamel and Ouali Mohammed	Modeling and dynamic study of a biped robot
394	Magraoui Rabah, Ouali Mohammed and Temmar Mustapha	Vibration Diagnosis of Rotating Machine. Study and modification of a wheat filtering machine
402	Mustapha Temmar, Nesrine Melzi and Mohamed Ouali	Using the stability lobes method to study the influence of induced phenomena in a facing operation of the turning process
411	Sinem Taviloglu and Zuhul Er	Arduino Application on a Solar Tracking System
413	Dhafer Alhalafi	Privacy Policy-Based Framework for distributed systems using privacy disambiguation.
414	Ainur Kussainova, Kazizat Iskakov and Zhanar Oralbekova	Development of intelligent system for analyzing big data using graphics processing unit (GPU).
434	<u>Murat Ozsoy</u>	Computer Aided Structural Analysis and Fatigue Life Prediction of a Cardan Joint
437	Samiha Daoudi, Chemssedine Zebiri and Fatiha Benabdelaziz	Spectral-domain analysis of finline printed on chiral and ferrite substrates using the generalized exponential technique combined with Galerkin's method
472	Bakhtiyar Issin, Kazizat Iskakov and Valery Starovoitov	Research of cells segmentation methods
473	Kazizat Iskakov, Samat Boranbayev, Zhadyra Garifullina and Bakhtiyar Issin	Experimental data of researches using ground-penetrating radar "Zond-12c" and interpretation radarograms
487	Ainur Zhumadillayeva andAnarbay Kudaykulov	Numerical simulation of temperature distribution field in beam bulk in the simultaneous presence of heat insulation, heat flux and heat exchange
488	Makpal Zhartybayeva, Mikhail Tatur, Kazizat Iskakov and Ainur Zhumadillayeva	Principles of development of robotic systems based on the chassis SERIAL minitractors
524	Boussiala Boubakr, Kahla Sami, Boutaghan Amar, Amraoui Rachid, Nezli Lazhari andMahmoudi Mohand	Study and control of PWM arc welding inverter based on a microcontroller

549	Erdogan Kanca, Volkan Cem Taşkın, Mehmet Demir and Faruk Çavdar	Prediction of Dimensional Accuracy and Surface Quality of Spinneret Mold Machined by Wire EDM Using Genetic Expression Programming
551	Erdogan Kanca, Mehmet Demir and Faruk Çavdar	Investigation of the Effect of Cutting Parameters on the Cutting Force and Energy in the Bar Cutting Process
552	<u>Ali Günen, Erdoğan Kanca, Gürel Çam, Mehmet Demir and Faruk Çavdar</u>	Weldability of Pure Lead Metal by Friction Stir Welding
553	Erdogan Kanca, Faruk Çavdar and Mehmet Demir	Prediction of Mechanical Properties of Cold Rolled Steel Using Genetic Expression Programming
554	Erdoğan Kanca, Ömer Eyerçioğlu, İsmail Hakkı Karahan, Ali Günen and Kürşad GÖv	Effects of Blanking Speed on the Shear Surface of Mild Steel (St37)
606	Ismail Altunhan, Muhammet Cinar and Hanifi Canakci	Investigating geotechnic properties of materials gypsum and anyhdrite that developing depending on geological structure in sivas basin hafik formation
620	Murat Koru and Orhan SerÇe	THE EXPERIMENTAL AND NUMERICAL ANALYSIS OF CASTING-MOLD INTERFACIAL HEAT TRANSFER COEFFICIENT DEPENDING ON INJECTION THERMAL PARAMETERS AND VACUUM APPLICATION IN THE HIGH PRESSURE DIE CASTING OF A-360 ALUMINUM ALLOY
644	Recep Kiliç	Effect of The Pressure on Burst in Drinking water Network
648	Recep Kiliç	Determination Of Imbalance Problem With Vibration Analysis In Electric Motors And Centrifugal Pumps

## Theme -6: Material Sciences and Applications

Abst. #	Authors	Title
12	<u>Khelifa Hocine</u>	Numerical investigation of materials damage for nuclear fuel containment (cladding tube) in pressured water reactors PWR.
15	Zerroug Samir	Optic and electronic properties of ZnO with a vacancies sites of oxygen
29	<u>Nathir Al-Rawashdeh</u>	Magnetic Field Effect on the Inhibition of Aluminum Corrosion with Surfactants in Acidic Solution
38	Faiza Tiour, Bedra Benyahia andNoureddine Brihi	Optical and structural characterization of silicon-rich SiNx:H films – Effect of annealing temperature
56	Chafiaa Yaddaden and Aissa Keffous	Enhanced sensitive nonenzymatic H2O2 sensor based Porous SiNWs
65	Othmani Boubaker and Boucetta Said	INVESTIGATION ON MECHANICAL PROPERTIES OF MN3SB INTERMETALLIC COMPOUND
66	Moussa Anoune and Zeroual Aouachria	The second-order phase transitions by cluster variation method (CVM) using the natural iteration method by congruence (NIM-C)
73	Boucetta Said, Othmani Boubakeur and Chihi Tayeb	STRUCTURAL AND MECHANICAL PROPERTIES OF Zr4N3 COMPOUND: AN AB INITIO STUDY
77	<u>Lamri Zeggar Meryem</u>	Optoelectronics proprieties of copper oxide thin films deposition by spray pyrolysis
82	Hamza Serrar, Rebiha Labbani and Chawki Benazzouz	Experimental characterization of antimony dopant in silicon substrate
95	Beata Zielinska, Xiaoze Shi, Marcin Biegun, Ryszard Kalenczuk and Ewa Mijowska	Graphene/magnetic nanoparticles composite for glucose sensing

96	Ryszard Kalenczuk, Beata Zielinska and Ewa Mijowska	Metal particles deposited on carbon spheres for energy applications
101	Noureddine Bentaieb, Salah Belaadi, Zineelabidine Benarima, Relida Zirour and Djamel Touil	Cement Analysis with coal of date pits
106	<u>Bourfaa Fouzia</u>	Zinc oxide thin films deposition by spray pyrolysis
114	Naim Sylva, Fisnik Aliaj and Bashkim Dalipi	The law of growth of nitrated layer in 31CrMoV9 steel
123	Mehmet Ustundag, Battal Gazi Yalcın and Metin Aslan	The Optoelectronic Properties of Sb Doped BBi Compounds
129	Nacéra Yeddou Mezener, Fatiha Atmani, Zohra Bensaadi and Zahra Sadaoui	Equilibrium and kinetics study of phosphate removal from natural seawater by adsorption on pretreated eggshell
141	<u>Isma Bozetine, Mohamed Trari, Yacine Boukennous, Naima Moudir, Samira Kaci and Aissa Keffous</u>	Silver particles synthesized and organic vehicle preparation for solar cell metallization
148	<u>Oyku Bilgin</u>	The evaluation of characteristics technological test of zeolites Balıkesir-Bigadiç
169	Chemat Zoubida and Aissout Mohamed	Green extraction of D-limonene followed by transformation into high added-value compound using iron supported catalysts
171	Rafik Makhloufi and Mourad Brioua	Development of a programme to simulate the energy stored in a nanoscale materials in the case of anisotropic elasticity
197	Malika Berouaken, Lamia Talbi, Rezak Alkama, Katia Chebout, Badis Rahal, Hamid Menari and Noureddine Gabouze	Quartz crystal microbalance VOCs sensor based on thermal evaporation coated vanadium oxide thin film
202	Katia Ayouz-Chebout, Razika Tala Ighil, Kawther M'Hammedi, Sabrina Sam and Noureddine Gabouze	Sensing application of V2O5 thin films.
203	Fisnik Aliaj, Naim Sylva and Heinrich Oettel	Thermal Treatment in Air of (Ti,Al)N Coatings Deposited on Unheated Stainless Steel Substrates by d.c. Magnetron Sputtering
208	Lamia Talbi, Malika Berouaken, Khadidja Khaledi, Hamid Menari, Aissa Keffous, Noureddine Guabouze and Mohamed Trari	Chemical etching of silicon carbide in HF-V2O5 solution
209	Nabila Redjda	Structural Orientation and Residual Stress in AlN Thin Films Deposited at different Nitrogen Ratio
224	Filiz Akti and Filiz Boran	Preparation and Swelling Properties of Zeolite-Poly(2-hydroxyethyl methacrylate-co-acrylic acid) Hydrogel Composites
278	Fellahi Ouarda, Hadjersi Toufik and Boukherroub Rabah	Preparation and Characterization of Silicon Nanowires modified by graphene nanocomposites: Application in Photodegradation of Rhodamine (B)
296	<u>Kawther M'Hammedi, Noureddine Gabouze, Nacereddine Haine and Sabrina Sam</u>	Synthesis and characterisation of thin nickel oxide film onto porous silicon by Dip coating method
297	<u>Ghania Fortas, Laurent Cagnon, Sabrina Sam, Naser Haine, Mourad Zergoug, Yasmin Bennedjoue, Noureddine Gabouze, Mohamed Boudjelab and Souad Ouir</u>	Effect of sodium acetate on electrochemical behavior and magnetic properties of CoFeCu nanowires electrodeposited in self-assembled mesoporous silicon
310	<u>Sinan Sen, Ekmel Helvacioğlu, Nihan Nugay, Turgut Nugay and Bilge G. Uluocak</u>	HIGH STRENGTH POLY(ACRYLAMIDE)-CLAY HYDROGELS

325	Mohammed Boulesbaa and Ramdane Mahamdi	Annealing thermal effect on optical and physico-chemical proprieties of amorphous SiO <sub>x</sub> Ny:H thin films
372	Serdar Halis, Buğra Yiğit Çetin, Serdar Karaoğlu and Hasan Satılmış	Effect of post-rolling process on the mechanical and micro-structural properties of Al/SiCp metal matrix composites produced by powder metallurgy
407	Ibtissem El Mahdi and Rachid Belal	Preparation and characterization of tripodal iron complexes of Tren and isophthaldehyde
409	Ibtissem El Mahdi and Rachid Belal	Complexes of divalent transition metal chlorides with the tetradentate Schiff base ligand
428	İsmail Hakkı Karahan and Ferhat Tiltıl	Electrodeposition and Corrosive Properties of Environmental ZnFe/Polyaniline on low-carbon steel
429	İsmail Hakkı Karahan	Corrosion Properties of AISI 4140 Industrial Steels Coated With Anilin in Different Storage Conditions
430	Kadir Öztekin and Osman Şahin	Effect of milling time on the mechanical properties of biodegradable AZ31 Magnesium alloy
432	Osman Şahin, Faris Haluk Ertsak and Kadir Öztekin	Influence of rare earth element on the mechanical properties of ZE41 magnesium alloys produced by mechanical alloying
435	<u>Neslihan Özsoy, Murat Ozsoy and Abdullah Mimaroglu</u>	Mechanical Properties of Chopped Carbon and E-Glass Fiber Reinforced Epoxy Composites
443	Basak Otsukarci and Yasemen Kalpaklı	PHOTOCATALYTIC OXIDATION OF BY28 AND BB41 DYES UNDER UV-A LIGHT IRRADIATION BY ND DOPED TiO <sub>2</sub> - MONTMORILLONITE NANOCOMPOSITE
451	Fahima Boudjada, Abdelghani Djebli, Boubaker Boudine, Asma Belhoul, Zeineddine Oouli and Hocine Chorfi	Preparation and characterization of pur and doped Ps/SnO <sub>2</sub> thin layers by soft chemistry
470	Benayache Sihem, Safia Alleg, Saida Souilah, Hazem Meradi and Fayçal Aouidja	Structural and microstructural characterization of Algerian diatomite
474	Nezar Malika and Nezar Djemaa	Interest Of The Thermal Signatures In The Diagnosis Of Defects
475	Nezar Malika and Nezar Djemaa	Detection of the internal defects (cracks) by using an experimental and a numerical simulation tests
478	Soltani Nouara and Rahal Samir	Three-dimensional unsteady convection in a simulated Czochralski growth system
505	Nalan Çiçek Bezir, Atilla Evcin, Refik Kayalı, Gamze Balyacı and Mürivet Kaşıkçı Özen	Characterization of Eu, Ce and Dy Doped TiO <sub>2</sub> Nanofibers Prepared by Electrospinning Process
506	<u>Nalan Çiçek Bezir, Atilla Evcin, Refik Kayalı, Mürivet Kaşıkçı Özen, Kamer Esen and Erdal Bedrettin Cambaz</u>	Characterization of ZrO <sub>2</sub> Nanofibers Prepared by Electrospinning System
507	<u>Oğuz Evcin, Atilla Evcin, Nalan Çiçek Bezir, Iskender Akkurt, Kadir Günoğlu and Bahri Ersoy</u>	Production of Barite and Boroncarbide Doped Radiation Shielding Polymer Composite Panels
508	<u>Atilla Evcin, Nalan Çiçek Bezir, Iskender Akkurt, Kadir Günoğlu and Bahri Ersoy</u>	Production of Radiation Shielding Polymer Composite Panel containing Eu, Dy and Ce doped Boroncarbide
515	Cyrille Prosper Ndepete and Sedat Sert	The Use of Basalt Fibers for Soil Improvement
521	<u>Osman Sahin and Mehmet Boztas</u>	Indentation size effect study of biodegradable AZ63 magnesium alloys
522	<u>Osman Sahin and Mehmet Boztas</u>	Influence of CaO on the nanohardness behaviour of AZ63 magnesium alloys produced by mechanical alloying
523	Mehmet Ustundag and Metin Aslan	Electronic and Magnetic Properties of Ca Doped Mn Ferrite

537	Nusret Bozkurt and Muhammed Fatih KuluÖztürk	Determination of Photon Attenuation Coefficients of Lightweight Concretes Containing Barite Powder
544	Salah Madani and Ahmed Boussaha	Anisotropic effect on the elastic fields generated by a square network of screw dislocations, at the free surface of a finite layer bonded onto a semi infinite substrate
550	Ali Günen, Mehmet DemİR and Faruk Çavdar	Micro-Abrasion Wear Behavior of Thermal Spray Coated Steel Tooth Drill Bits
555	<u>Lounis Kahina</u>	Study of Ni-O system with a charge transfer potential implemented in the LAMMPS code
591	Abdelghani Boucheham, Djoudi Bouhafs, Nabil Khelifati, Yacine Kouhlane and Azzeddine Mokadem	Improvement of multicrystalline silicon wafers performance after phosphorous diffusion gettering with a sacrificial porous silicon layer
592	<u>Abdelghani Boucheham, Ahcene Karaali and Malika Berouaken</u>	Influence of tungsten content on electrochemical and tribological properties of Co-Cr based biomaterials for dental application
599	<u>Abdelghani Boucheham and Ahcene Karaali</u>	Characterization of anodized titania layer formed on Ti6Al4V alloy for odontological application
603	Abdelghani Boucheham, Ahcene Karaali and Malika Berouaken	Semiconducting properties of Cr2O3 oxide layers formed on CoCrMo alloys during electrochemical tests
613	<u>Alexey Shubin, Yuri Kontsevoi, Anna Meilakh and Eduard Pastukhov</u>	Multi-Phase Alloys of Transition Metals with Layered Structures: Synthesis and Properties
617	M-Ali Al-Akhras, Subhi Saq'An and Zeinab Ghadieh	AC Electrical Properties of Polystyrene / Ferroelectric Barium Stannate Titanate Ba (Ti0.9Sn0.1) O3 Ceramic Composite.
625	Kaci Samira, Keffous Aissa and Bozetine Isma	Influence of growth conditions of hydrogenated Amorphous Silicon Carbide on Optical Properties of the interfacial layer in SiC-based Photodevice
626	Borhan Albiss, Mohammad Al-Fandi and Rami Oweis	UV detector based on hybrid reduced graphene oxide /ZnO-nanorods on PDMS substrate
637	Metin Davraz, Şemsettin Kılınçarslan, Murat Koru and Fatih Tuzlak	Research of Relation of Between Ultrasonic Pulse Velocity and Thermal Conductivity Coefficient in the Foam Concretes
638	Zegrar Farida, Boucetta Said and Othmani Boubakeur	HIGH PRESSURE BEHAVIOUR OF NiGa INTERMETALLIC COMPOUND
639	Zerroug Samir, Ali Sahraoui Ferhat and Beldjoudi Karim	Optic and electronic properties of ZnO with vacancies sites of Zn
651	Feyza AKARSLAN, Şemsettin KILINÇARSLAN, Iskender AKKURT, I.Serkan ÜNCÜ, K.Gunoglu, Safinur Coşkun	DETERMINATION OF RADIATION SHIELDING PROPERTIES OF FABRICS WITH IMAGE PROCESSING METHOD
652	Esraa AL-SARRAY, İskender AKKURT, Kadir GÜNOĞLU, Atilla EVCİN, Nalan Çiçek BEZİR	Production of Polymer Composite Panel for Radiation Protection

### Theme -7: Biological and Medical Science and Applicatons

Abst. #	Authors	Title
36	Toufik Smail, Salah Hanfoug and Hocine Belmili	Modeling and simulation of 8-bit Current-Mode Successive Approximation Registers ADC by using Simulink
94	Ewa Mijowska, Magdalena Perużyńska, Mateusz Kurzawski, Krzysztof Cendrowski, Ryszard J	Size dependent biocompatibility of mesoporous silica spheres with solid core

	Kalenczuk and Marek Drożdżik	
120	<u>Gulten Yılmaz, A. Beril Tugrul, Mustafa Demir, Dogan Yasar and Bayram Demir</u>	Assesment of Dose Determination for Positron Emission Tomography (PET) and Evaluation With MIRD Method
126	Volkan Tekin, Fazilet Zümrüt Biber Muftuler, Ozge Kozgus Guldu, Ayfer Yurt Kilcar, Emin İlker Medine and Perihan Unak	In vitro Evaluation of <sup>131</sup> I Radiolabeled Lawsone Compound
204	Youcef Bouchedoub and Ali Meghlaoui	Association between HLA Antigens and SLE in Algeria: report of 40 cases followed at The Hospital University of Blida
205	Kadriye Özcan, Atac Uzel and Erdal Bedir	Isolation and screening antimicrobial activity of actinomycetes from Lake of Van and Ercek
206	Kadriye Özcan	Actinomycetes isolation of sediment samples from Blacksea
215	Elhadj Makrachi	Exceptional complication of severe acute pancreatitis revealed by transverse colon fistula externalized in the root of the left thigh.
254	Özge Kozgus Güldü, Volkan Tekin, Canan Özyurt, Emin İlker Medine, Perihan Unak, Fazilet Zümrüt Biber Müftüler, Serap Evran and Suna Timur	In Vitro Evaluation of <sup>125</sup> I Labeled Zinc Oxide Nanoparticles
260	Belgin Erdem, Merve GÜnaydin and Şener Tulumoğlu	Effect of Heavy Metals and Antibiotics on Siderophores Producing Bacterial Isolates
274	Hasan Gumus and Tuba Namdar	Positron stopping power in low atomic number targets and in some biological compounds for intermediate energies with generalized oscillator strength model
321	Belgin Erdem, Eyup Bagci, Gulden Dogan, Ekrem Aktoklu and Alpaslan Dayangac	Analysis of essential oils of <i>Cyperus fuscus</i> L.'s tubers collected from Ankara
339	Hakim Bellaghma, Abdesselem Brihmat and Rebiha Labbani	Error sources verification for linear accelerator commissioning in Algeria
386	Nazime Mercan Doğan and Dicle Arar	Antibiofilm activity of Exopolysaccharide from Methicilline Resistance <i>Staphylococcus aureus</i> strains (MRSA) M10 and M20
439	Nazan Demir, Begüm Pınar Demirkent and Tolga Göktürk	DETERMINATION OF SOME BIOACTIVE COMPOUNDS OF <i>Chrysanthemum coronarium</i> AND INVESTIGATION OF USAGE ON DRUG AND COSMETIC INDUSTRY AS RAW MATERIAL
446	Nazan Demir, Yaşar Demir, Duygu Mert, Ayşe Demiray and Tolga Göktürk	Investigation Of Usage Of <i>Passiflora Incarnata</i> as Raw Material for Drug Industry
447	Nazan Demir, Ceyhun Işık, Sedef Aşık and Tolga Göktürk	Determination Of Some Bioactive Compounds Of <i>Lavandula Stoechas</i> And Investigation Of Usage in Cosmetic Industry as Raw Material
587	<u>Gökçe Tuncer and Vilda Puruçuoğlu</u>	Bifurcation Analyses in Biochemical Networks via Simulation Tools
602	Riyadh Muhaidat, Rami Alkhatib, Maha Mheidat, Zakariya Bani Domi and Athena McKown	Kranz anatomical and biochemical characterization of C4 photosynthesis in NAD-ME subtype <i>Zygophyllum simplex</i> L. ( <i>Zygophyllaceae</i> ) from Jordan
607	Kaan Yılcıoğlu and Hüseyin Ozan Tekin	Nitrogen source, an important determinant of fatty acid accumulation and profile in <i>Scenedesmus obliquus</i>
618	Rami Alkhatib, Batool Alkhatib, Nour Abdo, Laith Al-Eitan, Nisreen Al-Quraan and Riyadh Muhaidat	Impact of Exogenous Caffeine on the Physiological, Biochemical, and Ultrastructural Characteristics in Tobacco ( <i>Nicotiana tabacum</i> var. Turkish)
623	Laith Al-Eitan, Basima Almomani, Nesreen	A Case-Control study for Genetic Susceptibility Genes of Type 2 Diabetes with Histroy

	Saadeh and Hatem Aman	of Obesity in Jordanian of Arab Descent
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### Theme -8: Education Technologies and Applications

Abst. #	Authors	Title

### Theme -9: Agricultural Science and Technology

Abst. #	Authors	Title
116	Tuba Acet and Asım Kadioğlu	Physiological and Biochemical Effects of Abscisic acid on Arabidopsis thaliana sos5 Mutant Under Salt Stress
135	Abdullah Kadayıfçı, Ulaş Şenyiğit, Atılğan Atılğan and Hasan Öz	Determination of the Performance of Existing Irrigation Systems in Parks in Isparta City Center
273	<u>Gazmend Nafezi, Mergim Mestani, Gezim Hodolli and Ibrahim Mehmeti</u>	Comparison of bacteriocins against radiation into different pathogens
336	Sibel Kacmaz, Thomas Wenzl and Franz Ulbert	Analysis of Polycyclic Aromatic Hydrocarbons (PAHs) in Retail Breakfast Cereals
399	Sabrina Darem, Fouzi Benbrahim, Bouchra Dahmane and Mohammed Benslama	État de la salinité dans la palmeraie de Zelfana (Sahara Septentrional Algérien)
400	Fouzi Benbrahim, Sabrina Darem, Nacira Gabani, Bouchra Dahmane and Mohammed Benslama	Impact de l'intensification agricole (céréaliculture sous pivot) sur la variation du pH et du taux de calcaire total du sol dans la région de Ghardaïa (cas de HASSI EL F'HEL).
453	<u>Sofiane Kherrou</u>	Mathematical modelling of mint solar drying in the Arid and Semi-arid areas

### Theme -10: Forestry and Environmental Science and Engineering

Abst. #	Authors	Title
57	Hassiba Laribi- Habchi, Amel Bouanane-Darenfed and Naima Bouzar	Chitinases extracted from chitinolytic bacteria: application as bio-insecticide and fungicide
104	Fatiha Atmani and Nacera Yeddou Mezenner	Equilibrium and kinetics study of nitrate removal from natural seawater by adsorption eggshell
167	Houria Hamitouche	Corrosion inhibition of aluminum by petroleum fraction ammonium chloride in HCl solution
216	Khalida Boutemak	Production and physico-chemical characterization of a biosurfactant from "Pseudomonas aeruginosa".
241	Su Na Chin and Jedol Dayou	Variation Over Time of Perez Calibration Algorithm for Ground-Based Spectrometer
289	Djamel Daoud, Tahar Douadi, Hanane Hamani, Djillali Ghobrini and Kamal Aiboud	Investigation of two new N-heterocyclic compounds extracted from biodiesel as green environmental inhibitors for mild steel in hydrochloric acid
340	Nadjet Taoualit, Zoubida Chemat and Djamel-	Batch Kinetic, Isotherm and Thermodynamic Studies of Copper (II) Removal from

	Eddine Hadj-Boussaad	Wastewater using HDL as Adsorbent
342	Wafa Benraouane	Reduction of Haloacetic acids (HAAs) in natural surface water by double treatment: Coagulation and Membrane processes.
543	Boudjema Nouara	Indigenous bacteria resistance to heavy metals and antibiotics isolated from the oued El harrach