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Cappadocia, TURKEY

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Edited by
Dr. Mehriban EMEK
Nurlan AKHMETOV

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CONTENT

CONGRESS ID	i
PHOTO GALLERY	ii-ix
SCIENTIFIC COMMITTEE	x
PROGRAM	xi-xxx
CONTENT	xxxi-xl

ABSTRACTS

Kaffar TUNCER & Uğur BAŞARAN ***INFLUENCE OF DIFFERENT NITROGEN DOSES ON PLANT PROPERTIES AND FORAGE QUALITY OF PHACELIA (Phacelia tanacetifolia Bentham)***	**1**
Medine ÇOPUR DOĞRUSÖZ ***QUALITY CHARACTERISTICS IN DIFFERENT LOCATIONS OF TURKEY ORIGIN GRASS PEA (Latyrus sativus L.) VARIETIES AND POPULATIONS***	**3**
Gülten YILMAZ ***RESEARCH ON CONTROLLER DESIGNS USED IN TRAJECTORY TRACKING CONTROL OF AUTONOMOUS UNDERWATER VEHICLES (AUV)***	**5**
Binyam Zigta ***THERMAL RADIATION, CHEMICAL REACTION AND VISCOUS DISSIPATION EFFECTS ON MHD MICRO POLAR BLOOD FLOW WITH STRETCHING CAPILLARY IN THE PRESENCE OF HEAT GENERATION/ ABSORPTION***	**6**
Asım ÇOBAN ***A DETAILED ANALYSIS OF CLASS TEACHER'S OPINIONS ON THE APPLICABILITY OF DISASTER PLANS IN SCHOOLS***	**7**
Mustafa Özgür YAYLI ***THERMAL BUCKLING ANALYSIS OF A FUNCTIONALLY GRADED TIMOSHENKO BEAM WITH ROTATIONALLY RESTRAINED BOUNDARY CONDITIONS***	**9**
Şule ÖZDEMİR & Hacer ÜNVER ***THE INTERGENERATIONAL TRAUMATIC BIRTH PERCEPTION IN PREGNANT WOMEN***	**10**
Damla ÖZSAYIN ***THE CURRENT SITUATION OF BEEKEEPING (BEEHIVE) INSURANCE IN TURKEY AND ITS IMPORTANCE***	**12**
Şükran TANRIVERDİ & Tülin ÇELİK ***METHODS USED IN REPAIR AND STRENGTHENING HISTORIC BRIDGES***	**13**
Hakan KAVUR, Ozan ARTUN, Gülşah EVYAPAN, Davut ALPTEKİN ***ZIKA VIRUS AND TURKEY***	**15**
Hakan KAVUR, Halil ÖZKURT, Fatma BÜYÜKKATRAN, Gülşah EVYAPAN, Davut ALPTEKİN ***PEDICULOSIS EDUCATION, DETECTION OF HEAD LICE PREVALENCE AND ULTRASONIC SOUND FREQUENCIES EFFECTS***	**17**

ON PEDICULUS HUMANUS CAPITIS IN THREE SCHOOLS IN KARAISALI, ADANA	
Ayşe ELKOCA & Nilgun ULUTASDEMIR	
HEALTHY AND SAFE SCHOOL ENVIRONMENT IN COMMUNICABLE DISEASES	**19**
Pham Ngoc Nhan	
TRANSFORMING PLANT ON RICE LAND: THE STATUS AND POLICY OF SUPPORT - A CASE STUDY IN HAU GIANG PROVINCE, VIETNAM	**20**
Emine BAŞ	
AQUILA OPTIMIZER (AO) FOR CONTINUOUS OPTIMIZATION PROBLEMS	**21**
Cem Güneşoğlu & Öznur Özdinç	
THE EFFECT OF DIFFERENT FIBER CROSS-SECTION SHAPES ON POLIESTERMACHINE-MADE CARPET	**22**
Alev MERAL DÜLGER	**24**
HOMOLOGY GROUPS OF MAPPING CLASS GROUPS	
Aleyna BULUT & Handan ÖZCAN	
EVALUATION OF MENOPOSAL SYMPTOMS WITH THE COVID-19 PROCESS	**25**
Menekşe ŞAKİR & M. Serdar ÖNSES	
NANOSTRUCTURES ON SOLID-SURFACES THROUGH SEED-MEDIATED GROWTH METHOD	**27**
Can BIYIK	
CLIMATE SENSITIVE TRANSPORTATION MANAGEMENT IN TURKEY: OPERATIONS, REGULATION, AND REFORM	**29**
Ouassila Riouchi, Faid El Madani, Ali Skalli, Mustapha Akodad, Abdelmajid Moumen, Hanane Ait Hmeid, Ghizlane Azizi, Hicham Guedari, Yassine EL YOUSFI, Mourad Baghour	**30**
QUALITATIVE AND QUANTITATIVE STUDY OF DINOFLAGELLATE CYSTS IN SURFACE SEDIMENTS OF THE NADOR LAGOON	
Mehmet Nuri YILDIRIM & Abdurrahman KARAMAN	
INVESTIGATIONS THE EFFECTS OF FASTENER, ADHESİVE AND COMPOSITE MATERIAL TYPES ON CREEP PERFORMANCE IN BOOKCASE FURNITURE	**31**
Yüksel DOĞAN	
ONE SURGEON'S EXPERIENCE OF TOTAL THYROIDECTOMY IN BENIGN THYROID DISEASES IN THE ENDEMIC REGION, RETROSPECTIVE ANALYSIS OF 100 PATIENTS	**32**
Ayşe ÜZGÖR ÜN, Zekiye Ayşe EVEREST, Nasip DEMİRKUŞ	
A STUDY ON IDENTIFICATION OF TAXA OF UNIDENTIFIED ASTERACEAE, FABACEAE AND LAMIACEAE FAMILIES IN HERBARIUM OF MERSIN UNIVERSITY	**34**
Nasip DEMİRKUŞ	
A NEW APPROACH TO THE DEFINITIONS AND RELATIONSHIPS BETWEEN EVOLUTION SCIENCE, BASIC SCIENCES AND MATHEMATICS	**36**
Gülpınar ASLAN, Hasret YALÇINÖZ BAYSAL, Ayşe Berivan SAVCI BAKAN	**38**
DETERMINATION OF HEALTH-RELATED PROBLEMS DEVELOPED	

DUE TO THE USE OF PERSONAL PROTECTIVE EQUIPMENT IN NURSES DURING THE COVID-19 PANDEMIC PROCESS	
Şükran UYGUN	
BOUNDS FOR THE SPECTRAL NORMS OF GEOMETRIC AND R-CIRCULANT MATRICES WITH BI-PERIODIC JACOBSTHAL LUCAS NUMBERS	**40**
Ömer Osman DURSUN & Suat TORAMAN	
DETERMINATION OF ASPHALT PAVEMENT CRACKS WITH EFFICIENTNET	**41**
HABIB DJOURDEM	
A STUDY OF A NONLINEAR FOURTH-ORDER TWO POINT BOUNDARY VALUE PROBLEM	**43**
Binyam Zigta	
EFFECT OF THERMAL RADIATION AND CHEMICAL REACTION ON MHD FLOW OF BLOOD IN STRETCHING PERMEABLE VESSEL	**44**
Abdul Ademola Olaleye & Adeolu Jonathan Adesina	
PROXIMATE COMPOSITION AND PHYSICO-CHEMICAL PROPERTIES OF TISSUE AND EXTRACTED OIL FROM CLARIAS GARIEPINUS AND SYNODONTIS BUDGETTI OBTAINED FROM KALGWAI DAM, JIGAWA STATE, NIGERIA	**45**
G.P. Ashwinkumar & P. Nanda	
IMPACT OF THERMOPHORESIS AND BROWNIAN MOTION ON MHD FLOW OF CASSON NANOFLUID PAST A STRETCHING SHEET WITH CONVECTIVE BOUNDARY CONDITIONS	**46**
G. P. Ashwinkumar & B. Ranjana	
INFLUENCE OF VISCOUS DISSIPATION AND THERMAL RADIATION ON LIQUID THIN FILM FLOW OF DISSIPATIVE MAGNETIC-NANOFLUIDS OVER A STRETCHING SHEET WITH	**47**
G. P. Ashwinkumar	
IMPACT OF THERMAL RADIATION ON UNSTEADY FLOW OF MHD HYBRID NANOFLUID OVER A FLAT/SLANDERING SURFACE	**48**
Pham Ngoc Nhan, Huynh Quang Tin, Le Tran Thanh Liem	
FARM FIELD SCHOOL (FFS) TRAINING METHODS FOR FARMERS: SOME RESEARCH IN MEKONG DELTA, VIETNAM	**49**
Steve I. Embang	
PRESERVICE TEACHERS' PERCEPTION ON ONLINE TEACHING PREPARATION IN A STATE UNIVERSITY	**50**
Safiye Nur ÖZDEMİR & İmdat TAYMAZ	
A NUMERICAL SIMULATION OF SERPENTINE FLOW CHANNEL PEMFC PERFORMANCE	**51**
Mehmet Ali ERTÜRK	
PRIMARY FINDINGS OF LATE CRETACEOUS PLUTONIC ROCKS OUTCROPPING IN THE NORTHEAST OF MALATYA	**52**
Abdullah SAR	
MINERALOGICAL AND PETROGRAPHIC PROPERTIES OF THE EOCENE PLUTONIC ROCKS OUTCROPPING AROUND GÜLÜMÜSAĞI (MALATYA/TURKEY)	**54**
Ahmet EMİR	
INVESTIGATION OF BIOACTIVE MOLECULES AND ENZYME	**56**

INHIBITORY EFFECTS OF Allium guttatum subsp. sardoum	
Mustafa Eren RİZELİ	**58**
MINERALOGICAL and PETROGRAPHIC CHARACTERISTICS of EOCENE ÇALTI and BİZMİŞEN PLUTONS, NW KEMALİYE (ERZİNCAN, TURKEY)	
Mehmet Ali TEMİZ	**60**
EFFECT OF SCORZONERA CINEREA ON KIDNEY FUNCTION TEST PARAMETERS IN DIABETES	
Yasmina Halabi, Chaimae Nasri, Hicham Harhar, Abdelkbir Bellaouchou, Mohamed Tabyaoui	**62**
PHOENIX DACTILIFERA L. SEED: AN ALTERNATIVE SOURCE OF EDIBLE OIL	
Akın ODABAŞI, Hülya KAFTELEN ODABAŞI, Erdoğan KARİP, Mehtap MURATOĞLU	**63**
EFFECTS OF SODA-LIME WASTE GLASS ADDITION ON THE PROPERTIES OF SANITARYWARE CERAMICS	
Rahul Sugandh	**64**
CRYPTOGRAPHY IS CHANGING THE PICTURE OF CLOUD COMPUTING	
Barış ERGÜL & Arzu ALTIN YAVUZ	**65**
INVESTIGATION OF TRAFFIC ACCIDENTS IN ANTALYA PROVINCE WITH SUPPORT VECTOR MACHINES	
Barış ERGÜL & Arzu ALTIN YAVUZ	**67**
ANOMALY DETECTION FOR CATEGORICAL DATA	
Arzu ALAN	**69**
ASSESSMENT OF THE EFFECT OF METAL ARTEFACT ON THE ACCURACY OF CBCT LINEAR MEASUREMENTS IN DIFFERENT VOXEL RESOLUTIONS	
Cüneyt YETKİN, Şerif ÇİTİL, Ali İhsan KAYA	**71**
INVESTIGATION OF MECHANICAL PROPERTIES OF PIPES WITH BUTT CURVED LAP JOINTS SUBJECTED TO TORSION	
Cüneyt ERGEN, Elçin SOYSAL FERDİŞ, Ensar GÜNAYDIN, Ahmet FEYZİOĞLU	**73**
DEVELOPMENT OF A DYNAMIC AND FLEXIBLE INTEGRATION MANAGEMENT PLATFORM FOR LOGISTICS ACTIVITIES	
Bülent BEDİR, Ersin KANAR, Mert ERDOĞAN	**76**
DEVELOPMENT OF ARTIFICIAL INTELLIGENCE PLATFORM FOR SMEs AND IMPLEMENTATION ON TIRE TRACKING	
Utku ÖZTÜRK, İbrahim ÖKMEN, Ahmet FEYZİOĞLU	**78**
16-BLOCK OPTICAL LENS DESIGN COMPATIBLE WITH TEDAŞ STREET LIGHTING SPECIFICATION ME 3 CLASS	
İsmail UĞURDAN & Ayşe AYTAÇ	**80**
INVESTIGATION OF THE EFFECT OF DIFFERENT ALKALINE TREATMENT ON TISSUE PAPER PROPERTIES	
Elvan Öçmen, Hale Aksu Erdost, Osman Yılmaz, Muge Kiray, Necati Gökmen	**82**
THE EFFECT OF SEVOFLURANE ANESTHESIA ON MEDULLA SPINALIS IN NEWBORN RATS	
Rıdvan YAMANOĞLU & Hasan İsmail YAVUZ	**84**

COATING OF Ti-HA BIOCOMPOSITE ON Ti6Al4V ALLOY BY PRESSURE ASSISTED SINTERING	
Yunus Emre TOĞAR & Murat ÖZENÇ	
AN ASSESSMENT OF USING MIXED ADHESIVE IN COMPOSITE MATERIALS	**86**
Fahreddin MUHTAROV, Oktay Sh. MUKHTAROV, Kadriye AYDEMİR	
SOLVABILITY OF TRANSFER PROBLEMS WITH AN ABSTRACT LINEAR OPERATOR CONTAINED IN THE EQUATION	**88**
Oktay Sh. MUKHTAROV & Kadriye AYDEMİR	
COMPLETENESS OF THE SYSTEM OF ROOT FUNCTIONS FOR BOUNDARY VALUE PROBLEMS INVOLVING TRANSMISSION CONDITIONS	**89**
Gulay OGUZ	
SOFT SEMI-TOPOLOGICAL HYPERGROUPS	**90**
Münire TURHAN	
AUTUMN STUDIES IN HONEYBEE COLONIES	**91**
Arslan KAPTAN & Fuat KARTAL	
MACHINABILITY OF AISI 304 AUSTENITIC STAINLESS STEEL BY THE ABRASIVE WATERJET PROCESS	**93**
Mutlu Seçer & Özer Zeybek	
SEISMIC ANALYSIS OF GROUND SUPPORTED STEEL LIQUID STORAGE TANKS	**95**
Özgür BİRANT, Emre AŞÇI, Ahmet FEYZİOĞLU	
DESIGN AND DEVELOPMENT OF MOTOR UPPER GROUP PROCESSING TECHNOLOGIES	**96**
Pınar ERECEVİT SÖNMEZ & Uğur ÇAKILCIOĞLU	
ANTIMICROBIAL EFFECTS OF Centaurea urvillei DC. hayekiana Wagenitz, THAT IS AN ENDEMIC PLANT IN TURKEY'S ELAZIG PROVINCE, ON DISEASE -CAUSING MICROORGANISMS	**98**
Bahattin BEKİ & Yalçın AKBULUT	
MACROANATOMIC INVESTIGATION OF EXTERNAL CAROTID ARTERY AND ITS TERMINAL BRANCHES OF TUJ SHEEP	**100**
Kübra DOĞAN & Abdullah HASBENLİ	
ÇANAKKALE / ÇAN KARADAĞ MOUNTAIN BIRDS	**102**
Meryem GÜNAY & Hayri DUMAN	
KARADAĞ MOUNTAIN ÇANAKKALE / ÇAN SOME ENDEMIC AND RARE PLANTS	**103**
Dalal Adnan Maturi	
THE ADOMIAN DECOMPOSITION METHOD FOR SOLVING WAVE EQUATION USING MAPLE	**104**
Ewetola, E. A.	
SOIL COMPACTION INFLUENCED SOIL PHYSICAL PROPERTIES AND SOYBEAN (GLYCINE MAX.) YIELD IN OGBOMOSO, SOUTHWESTERN NIGERIA	**105**
Hanane Ait Hmeid, Mustapha Akodad, Mourad Baghour, Abdelmajid Moumen, Ali Skalli, Hicham Guedarri, Ghizlane Azizi, Yassine El Yousfi	
VALORIZATION OF MOROCCAN BENTONITE DEPOSITS: "PURIFICATION AND TREATMENT OF MARGIN BY THE ADSORPTION PROCESS"	**106**

Julie Mar M. Regis & Ronnel S. Gomez ***CONTEXTUALIZED TEACHING IN MATHEMATICS, PERCEPTIONS AND ATTITUDES TOWARDS PROBLEM-SOLVING***	**108**
Youcef Becheffar, Khaled Chaib, Mohamed Abdi ***INFLUENCE OF THE RECTANGULAR GROOVE AMPLITUDE ON REDUCING THE WIND LOAD OF A STEADY FLOW AROUND A CIRCULAR CYLINDER***	**109**
Tuğçe SARIKOÇ & Mürsel ERDAL ***EARLY ESTIMATION OF MAINTENANCE AND REPAIR COSTS OF PUBLIC SERVICE BUILDINGS WITH REGRESSION METHOD***	**110**
Hatice VURAL ***ELECTRONIC AND MOLECULAR DOCKING STUDIES ON 5-(TRIFLUOROMETHYL)PYRIDINE-2-THIOL***	**112**
Hüseyin DURU ***VITILIGO DEVELOPING AFTER VACCINATION FOR COVID-19, NUMBNESS IN THE ARMS***	**113**
Ümit YURT ***INVESTIGATION OF CARBONATION EFFECT IN CONCRETES PRODUCED USING ALKALINE ACTIVATOR***	**115**
Okan TUTUM, Murat ZENGİN, Sıla TOPÇU, Fatih ÇALIŞKAN ***RESEARCH OF ALTERNATIVE SOILLESS AGRICULTURAL MATERIAL FOR PLANT GERMINATING AND ROOTING***	**117**
Murat ZENGİN, Sıla TOPÇU, Fatih ÇALIŞKAN ***IMPROVEMENT IN POLYURETHANE FOAM SIZING***	**119**
Duygu Y. Aydın ***INVESTIGATION OF FLAME RETARDANT EFFECTS OF BORIC ACID AND BORAX ON CELLULOSIC FABRICS***	**121**
Devanshu Kumar, Khushboo Mishra, Alimul Haque, Anil Kumar Sinha, Binay Kumar Mishra ***THE APPLICATIONS OF MULTIMEDIA AND E-LEARNING TECHNOLOGY IN EDUCATION***	**122**
Levent UĞUR ***INVESTIGATION OF TURNING OF AISI 1040 STEEL AT LOW CUTTING SPEED BY FINITE ELEMENT METHOD***	**123**
Erol ÖTEN & Levent UĞUR ***EVALUATION OF THE EFFECTS OF DIFFERENT WALKING SPEEDS ON THE TIBIA AND TIBIOTAS JOINT: FINITE ELEMENT ANALYSIS METHOD***	**124**
Amirali Boroumand & Azita Farashi ***DISSECTION THREE MAIN CHALLENGES FOR IRANIAN TEACHER TRAINING IN THE FIELD OF ENVIRONMENTAL EDUCATION***	**126**
Amirali Boroumand & Azita Farashi ***PLAYING WITH SOIL; A COMBINATION OF GAME AND NATURE EXPERIENCE***	**127**
Ghanshyam Barman ***DEMOLITION WASTE: AN ALTERNATIVE OF CEMENT***	**128**
Miss Deepa Chandraprakash Chandwani & Gurudutta Japee ***INTEREST RATE RISK OF SELECTED PUBLIC & PRIVATE SECTOR BANKS OF INDIA (WITH REFERENCE OF MATURITY GAP ANALYSIS)***	**129**

IMANE RAHIL, WALID BOUARIFI, MUSTAPHA OUJAOURA ***AN INTELLIGENT AUTOMATIC MONITORING SYSTEM FOR VIOLENCE DETECTION***	**130**
Adel Yahiaoui & Abdelhalim Tlemçani ***A NOVEL TECHNO-ECONOMIC ANALYSIS OF HYBRID RENEWABLE ENERGY SYSTEMS USING ARTIFICIAL INTELLIGENCE OPTIMIZATION TECHNIQUES***	**131**
Outemsaa Omar, Hamouti Lahcen, EL Farissi Omar, Hilali Elmokkhtar ***SURFACE ROUGHNESS MODELLING USING ARTIFICIAL INTELLIGENCE THE EFFECT OF THE TOOL TRAJECTORY STRATEGY USING AN ARTIFICIAL NEURAL NETWORK MODEL***	**132**
Paunescu Cosmin ***RESEARCH ON MATERIALS USED FOR PRESSURE VESSELS***	**133**
Vasile Gheorghe ***STUDIES REGARDING COMPOSITE MATERIALS WITH POLYMERIC MATRIX***	**134**
Angie J. Guevara-Muñoz, Diego A. Hincapié-Zuluaga ***NUMERICAL EVALUATION OF AN H-DARRIEUS TURBINE IN CONFIGURATION WITH EXTERNAL ACCESSORIES***	**135**
Hassan Guendouz ***SELENIUM-DOPED SILICON FOR PRODUCING N-TYPE SEMICONDUCTOR***	**136**
Oscar D. Monsalve-Cifuentes & Sebastián Velez Garcia ***NUMERICAL SIMULATION OF A HYDRAULIC SAVONIUS TURBINE FOR IN-PIPE ENERGY HARVESTING***	**137**
Leila Belfarhi, Tahraoui Abdelkrime, Bairi Abdelmedjid, Ibtissem Chouba, Naziha Amri, Nadia Boukris ***COMPARISON BETWEEN TWO METHODS OF EXTRACTING A WILD PLANT FROM THE ALGERIAN SAHARA***	**138**
Alina AMANZHOLOVA & Aysun COSKUN ***ARTIFICIAL INTELLIGENCE IN HEALTH: PERSPECTIVES AND USES***	**139**
Emarti Kumari & Shiv Lal ***STATIC AND DYNAMIC ANALYSIS OF HYBRID TALL STRUCTURAL SYSTEM***	**140**
BLaoui Mohamed Mossaab ***INTERNATIONAL ENGINEERING SCIENCES AND APPLICATION***	**141**
Oussama DJAIDJA, Hemza MEKKI, Samir ZEGHLACHE, Ali DJERIOUI ***EFFECTIVE FAULT TOLERANT CONTROL DESIGN FOR DOUBLE FED INDUCTION GENERATOR***	**142**
Imane Elmeguenni ***NUMERICAL ANALYSIS OF THE TEMPERATURE AND MECHANICAL FIELDS IN A FSW WELDING JOINT***	**143**
Swedha & M. Kasiviswanathan ***EFFECT OF STRESS GRADIENT ON WEB BUCKLING STRENGTH OF FRP BOX-BEAMS***	**144**
Gabriela BOANGIU ***ELEMENTS OF VERNACULAR ARCHITECTURE. CASE STUDIES OLTENIA REGION***	**145**
R. Abbas, A. Harrouz, D. Beltrache, Dumbrava Virgil	**146**

ENERGY MODELING AND OPTIMIZATION OF A WIND POWER SYSTEM IN THE ADRAR REGION	
Youssef MOURDI & Hasna ELALAOUI ELABDALLAOUI	**147**
ARTIFICIAL INTELLIGENCE AND AUTO-DIAGNOSIS OF ALZHEIMER'S DISEASE: STATE OF THE ART AND NEW RESEARCH DIRECTIONS	
Hasna ELALAOUI ELABDALLAOUI & Youssef MOURDI	**148**
HOW CAN BLOCKCHAIN AND MACHINE LEARNING TECHNOLOGIES BE COMBINED TO BENEFIT E-GOVERNMENT SERVICES? A LITERATURE REVIEW	
Fethi Boudahri, Abderazzak Baba Ahmed, Rabab Boukli Hacene	**149**
MODELLING AND OPTIMIZATION OF THE REAL AGRI-FOODS SUPPLY CHAIN WITH THE MINIMIZATION OF CO2 EMISSION	
JOSE KANETI, SNEZHANA BAKALOVA, IVAN ANGELOV, MELIHA SYULEYMAN, VANYA MANTAREVA	**150**
FLUORESCENCE DETECTION OF METAL ION COMPLEXES WITH QUINAZOLINE DERIVATIVES	
Hadji chaabane	**151**
OUTPUT VOLTAGE CONTROL OF DOUBLY FED INDUCTION GENERATOR (DFIG) USING AN ADAPTIVE BACKSTEBBING CONTROL APPROACH	
Baba Ahmed Abderrazzak, Boudahri Fethi, Tabti Affaf	**152**
ENVIRONMENTAL RISK ASSESSMENT OF THE IMPACT OF NICKEL ON AGRICULTURAL SOIL AND ON DURUM WHEAT	
S. BENTOUATI, A. TLEMÇANI, N. HENINI, H. NOURI	**153**
A NEW APPROACH TO ADAPTIVE CONTROL BASED ON FUZZY SYSTEMS: APPLICATION TO THE PERMANENT MAGNET SYNCHRONOUS MACHINE	
Eteri HART, Oleksii SEMENCHA, Bohdan TEROKHIN	**154**
INFLUENCE OF INCLUSIONS AROUND A RECTANGULAR HOLE ON THE STRESS CONCENTRATION FACTOR IN A TRAPEZOIDAL PLATE	
Houssam SABBABI	**156**
REVIEW OF FATIGUE STRENGTH EVALUATION OF LOCAL STRESSES IN WELDED JOINTS	
Vadim HUDRAMOVICH, Eteri HART, Oleg MARCHENKO	**157**
NUMERICAL ANALYSIS OF THE INFLUENCE OF MECHANICAL PARAMETERS OF THE INCLUSION REMOTELY LOCATED FROM ELLIPTICAL HOLE ON THE STRESS CONCENTRATION IN SPHERICAL SHELL	
Devanshu Kumar, Khushboo Mishra, Alimul Haque, Anil Kumar Sinha, Binay Kumar Mishra	**159**
INTERNET OF THINGS APPLICATIONS ENHANCED E – LEARNING	
Hanna KARAKURKCHI, Mykola SAKHNENKO, Iryna STEPANOVA, Svitlana ZYUBANOVA	**160**
SYNTHESIS AND RESEARCH THE COMPOSITE ELECTROCHEMICAL COATINGS OF EXTENDED FUNCTIONALITY	
Juan Steven TORRES JIMENEZ & Daniel SANIN VILLA	**162**
KPI FOR ENERGY MANAGEMENT IN AIR COMPRESSOR SYSTEMS	
Kamalee & M Kasiviswanathan	**163**

LATERAL TORSIONAL BUCKLING OF SINUSOIDALLY CORRUGATED STEEL WEBS: A NUMERICAL STUDY	
Andres Felipe Burbano Hernández	**164**
NUMERICAL INVESTIGATION OF THE OPENING RATIO IN THE UPPER ZONE OF A VAWT H-DARRIEUS	
OLANREWAJU, Sunday Samuel	**165**
PERFORMANCE EVALUATION OF STUDENTS IN MATHEMATICS USING MACHINE LEARNING ALGORITHMS	
Shiva Eshaghi	**166**
ON STABILITY OF NONLINEAR FRACTIONAL DYNAMICAL SYSTEM	
Noureddine EL HASBAOUI, Abdelouahab EL HADRAMI, Rachid BRAHMI	**167**
RECYCLING OF USED INDUSTRIAL CATALYSTS, USED IN THE OXIDATION REACTION OF SO2 TO SO3, BY ACID LEACHING	
César Bautista & Gyula Mester	**168**
SAFETY ANALYSIS IN AUTOMOTIVE PERCEPTION	
Afaq Ahmad, Joseph Jervase, Mohammed Bait Suwailam, Hassan Al-Lawati, Razzaqul Ahsan, Ghulam Dastagir khan	**169**
TEACHING CIRCUIT ANALYSIS USING GRAPH THEORY – SOLVING PROBLEMS OF COMPLEX CIRCUITS	
Daniel SANIN VILLA & Yeny Patricia ARBOLEDA URREA	**170**
USE OF WASTE HEAT AS AN ENVIRONMENTAL IMPACT MITIGATION PROPOSAL	
Mhamed Elhodaibi, Soufiane Elouazzani, Somaya Saber	**171**
NONLINEAR MAPS PRESERVING CERTAIN SUBSPACES OF LIE PRODUCT OF OPERATORS	
Mohammad Jafar Chamankar & Ali Aghayari	**172**
THE ARCHITECTURE OF TABRIZ INDUSTRIAL FACTORIES IN THE FIRST PAHLAVI PERIOD	
Qasim J. Tarbool, Hawraa Hashim Abbas, Mayyadah J. Tarbool, Ali Abid Abojassim	**173**
STUDY SUFRACE SURFACE DIFFUSENESS OF INTER-NUCLEUS POTENTIAL WITH QUASI-ELASTIC SCATTERING AT DEEP SUB-BARRIER ENERGIES FOR THE $O^{16} + Zr^{90}, Mg^{24} + Zr^{90}$ *and* $Ca^{48} + Cm^{248}$ *REACTIONS*	
Ibrahim inusa	**174**
BLOCK-CHAIN TECHNOLOGY AND CRYPTO-CURRENCY, DISTINCTION AND APPLICATIONS	
Hadjira Maouz & Salah Hanini	**175**
ANN MODEL FOR PREDICTING DEGREE OF DETERIORATION DURING THE PHOTOSTABILIZATION OF POLYMERS	
Nina Rashkevich	**177**
INFORMATION TECHNOLOGIES EMERGENCIES PREVENTION AT SOLID WASTE LANDFILL WITH LIQUIDATION ENERGY-INTENSIVE TECHNOLOGICAL EQUIPMENT	
Preeti Singh Bahadur	**179**
SPECIFIC HEAT CAPACITY OF MIXED (KCN)0.3(KBR)0.7 CRYSTAL	
Soumya Rani Mestha & Pinto Pius A.J	**180**
RELIABILITY ASSESSEMENT OF POWER ELECTRONICSSYSTEMS	

USING MACHINE LEARNING TECHNIQUES	
Vladislav Shershnyov & Nina Rashkevich	
STATEMENT OF TASKS OF SCIENTIFIC RESEARCH ON DEVELOPMENT OF METHODS OF FIRE PREVENTION AND EXPLOSION SAFETY OF SOLID HOUSEHOLD BUILDING OBJECTS	**181**

ZİKA VİRÜSÜ VE TÜRKİYE

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Özet

Zika virüsü Flaviviridae ailesinde yer alan bir RNA virüsüdür. Semen, vagina salgısı, kan, idrar, amniyon sıvısı, beyin-omurilik sıvısı (BOS), anne sütü, tükürük gibi vücut sıvılarında, beyin ve medulla spinalis'te saptanmıştır, kuluçka süresi 3-14 gün arasında değişmektedir. Ayrıca, Zika virüsünün neden olduğu hastalık, *Aedes* (*Ae*.) *albopictus* (Asya kaplan sivrisineği) ve *Ae*. *aegypti* (sarı humma sivrisineği) türü sivrisinekler aracılığıyla insanlara bulaşmaktadır. Enfekte olan kişilerde genel olarak herhangi bir belirti bulunmaz. Nadir olmakla birlikte, belirtileri akut başlangıçlı ateş, makülopapüler döküntü, artralji veya nonpürülan konjonktivitle nitelenir. Zika virüsü dişi sivrisineğin kan emmesi ile anneye ondan da transplasental yol ile fetüse geçerek mikrosefali başta olmak üzere fetal anomalilere ve nadir de olsa nörolojik komplikasyonlara neden olur. İlk kez 1947 yılında Uganda'da maymunlardan izole edilmiştir. Dünya Sağlık Örgütü Zika virüsü epidemiyoloji verilerine göre 2019 yılı itibariyle dünyada 84 ülkede, yaklaşık 1,62 milyon insanın Zika virüsünden etkilendiği düşünülmektedir. Asya, Afrika, Amerika ve Pasifik ülkelerinde virüslü insanın kanını emen infekte dişi sivrisineklerinin hastalığı insanlara bulaştığı bildirilmiştir. Türkiye'den bildirilmiş olgu bulunmamasına rağmen, virüsün yayılımından sorumlu *Aedes* cinsi sivrisinekler Türkiye faunasında bulunmaktadır. Özellikle ülkemizde Akdeniz (*Ae*. *aegypti*) Marmara ve Karadeniz (*Ae*. *albopictus*) bölgelerinin sahile yakın kesimlerinde saliniteye toleranslarından dolayı tespit edilmişlerdir. Ülkemizde 50 türün endemik olarak kabul edildiği toplam 64 sivrisinek türü, 8 cins (*Anopheles, Aedes, Ochlerotatus, Culex, Culiseta, Coquillettidia, Orthopodomyia* ve *Uranotaenia*) altında sınıflandırılmıştır. Konu ile ilgili tarafımızca ve diğer araştırmacıların yürüttüğü çalışmaların derlendiği bildiride hastalığın ülkemizde görülme ihtimalinin irdelenmesi amaçlanmıştır. Sonuç olarak sivrisinekler, yaygın ilaçlama programlarına rağmen Zika virüsünü, Lâtin Amerika başta olmak üzere dünyadaki bir çok yerde insanlara bulaştırmaktadırlar. Zika virüsü hastalığını önlemek için en etkili halk sağlığı önlemleri, biyolojik, kimyasal ve fiziki önlemler ile sivrisinek populasyonlarının kontrolü ve insanların sivrisineklere maruz kalmasının önlenmesidir. Türkiye'den henüz vaka rapor edilmemesi ancak hastalığı taşıyan vektör sivrisineklerin mevcut fauna içerisinde bulunması söz konusu virüsün gelecekte ülkemizin özellikle sahil kesimlerinde görülme ihtimalini arttırmaktadır.

Anahtar Kelimeler: Zika vürüsü, Sivrisinek, *Aedes*, Vektör Kontrol, Türkiye.

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Abstract

Zika virus is an RNA virus in the Flaviviridae family. It has been detected in body fluids such as semen, vaginal secretions, blood, urine, amniotic fluid, cerebrospinal fluid (CSF), breast milk, saliva, brain and spinal cord. The incubation period varies between 3-14 days. In addition, the disease caused by the Zika virus, *Aedes* (*Ae*.) *albopictus* (Asian tiger mosquito) and *Ae*. *aegypti* (yellow fever mosquito) species is transmitted to humans through mosquitoes. In general, people who are infected do not have any symptoms. Although rare, its symptoms are characterized by acute onset fever, maculopapular rash, arthralgia, or nonpurulent conjunctivitis. Zika virus passes from the mother to the fetus by the blood-sucking female mosquito and from it to the fetus via the transplacental route, causing fetal anomalies, especially microcephaly, and rare neurological complications. It was first isolated from monkeys in Uganda in 1947. According to the Zika virus epidemiology data of the World Health Organization, as of 2019, approximately 1.62 million people in 84 countries around the world are thought to be affected by Zika virus. It has been reported that the disease is transmitted to humans by infected female mosquitoes sucking the blood of infected people in Asia, Africa, America and Pacific countries. Although there are no cases reported from Turkey, Aedes mosquitoes responsible for the spread of the virus are found in the fauna of Turkey. Especially in our country, they have been detected in the Mediterranean (*Ae*. *aegypti*) Marmara and Black Sea (*Ae*. *albopictus*) regions close to the coast due to their tolerance to salinity. A total of 64 mosquito species, of which 50 species are considered endemic in our country, are classified under 8 genera (*Anopheles*, *Aedes*, *Ochlerotatus*, *Culex*, *Culiseta*, *Coquillettidia*, *Orthopodomyia* and *Uranotaenia*). In this presentation, in which the studies carried out by us and other researchers on the subject are compiled, it is aimed to examine the possibility of the disease in our country. As a result, mosquitoes transmit Zika virus to people in many places in the world, especially in Latin America, despite widespread spraying programs. The most effective public health measures for preventing Zika virus disease include controlling the mosquito populations via insecticides and preventing humans from direct exposure to mosquitoes. The fact that no cases have been reported from Turkey yet, but the presence of vector mosquitoes transmitting the disease in the existing fauna increases the possibility of the virus being seen in the future, especially in the coastal areas of our country.

Keywords: Zika virüs, Mosquito, *Aedes*, Vector Control, Turkey.

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