

7. INTERNATIONAL ANTALYA SCIENTIFIC RESEARCH AND INNOVATIVE STUDIES CONGRESS



Antalya, Türkiye

EDITORS

**DR. ERTUĞRUL KIRIÇ
DR. ÖZLEM ÖZKAN ÖNÜR**

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CONTENTS

AUTHOR	TITLE	No
Muhammad Mateen Afzal Awan	REFINING MAXIMUM POWER POINT TRACKING: OPTIMIZING THE PERTURB AND OBSERVE ALGORITHM FOR STANDALONE SOLAR PHOTOVOLTAIC SYSTEMS	1
Mauloddin SHARIFI	11 SEPTEMBER ATTACK AND CRISIS IN AFGHANISTAN	2
Oğuzhan HARMANDAOĞLU Yusuf SEÇGİN Seren KAYA Deniz ŞENOL Zülal ÖNER Ömer ÖNBAŞ	GENDER PREDICTION USING MACHINE LEARNING ALGORITHMS AND ARTIFICIAL NEURAL NETWORKS WITH PARAMETERS OBTAINED FROM SINUS SPHENOIDALES VIA COMPUTED TOMOGRAPHY	3
Eyvazov Taryel Ali Huseynova Gulbeniz Asif Abiyev Huseyn Azizulla Safaraliyeva Leyla Khalid Abaszade Zumrud Amirgulu Karimova Rena Jabbar	PATHOPHYSIOLOGY, DIAGNOSIS AND TREATMENT OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE CAUSED BY RISK FACTORS	5
Mehmet BAKIRCI	GENERAL OVERVIEW OF ADVANCEMENTS IN AIRFOIL DESIGNS: FROM FLOW CONTROL TO OPTIMIZATION	6
Oğuzhan HARMANDAOĞLU Seren KAYA Oğuzhan ÖZTÜRK Deniz ŞENOL	THE RELATIONSHIP BETWEEN 2D:4D RATIO AND FINE MANUAL DEXILITY IN INDIVIDUALS AGED 18-25 YEARS OLD	7
Huseynova Gulbeniz Asif Abiyev Huseyn Azizulla Mammadov Shahmar Ajdar Ibrahimova Narinj Matlab Usubova Nazaket Arif Karimova Rena Jabbar	REFUTATION, TREATMENT AND DIAGNOSTIC STUDY OF PATHOPHYSIOLOGICAL FEATURES OF PHARYNGITIS	8
Mehmet BAKIRCI	GENERAL OVERVIEW OF ADVANCEMENTS IN AIRFOIL DESIGNS: FROM FLOW CONTROL TO OPTIMIZATION	9
Abdalmuhaymen M. A. GHAZAL Mustafa ARSLAN Şakir ALTINSOY	INVESTIGATION OF THE TENSILE STRENGTHS OF PLA AND RE-PLA PRODUCED IN DIFFERENT FILLING PATTERNS WITH A 3D PRINTER	10
Abiyev Huseyn Azizulla Jafarova Nasiba Asgar Mammadov Shahmar Ajdar Usubova Nazaket Arif Jafarova Zemfira Ibrahim Karimova Rena Jabbar	PHYSIOLOGICAL AND PATHOLOGICAL CHARACTERISTICS OF FALSE, IATROGENIC AMENORRHEA	11

Hajiyeva Sevinj Ibrahim Agamaliyeva Ulken Jafar Hasanova Khumar Aliovsat Iskandarova Zulfya Shamil Gafarova Zohra Anvar Karimova Rena Jabbar	PATHOPHYSIOLOGICAL CONDITIONS OF SICKLE CELL ANEMIA, SURGICAL TREATMENT OF SPINAL PATHOLOGY IN SCD	12
Aliyeva Jamila Telman Ibrahimova Jala Sahin Safaraliyeva Leyla Khalid Abaszade Zumrud Amirgulu Shahmammadova Sevinj Osman Karimova Rena Jabbar	PATHOPHYSIOLOGY, TREATMENT, AGE CHARACTERISTICS OF	13
Merve AYDOĞDU ÇELİK	EXAMINING STOIC PHILOSOPHY IN ACTION: A LOOK AT ADDISON'S CATO	14
Beyhan Özge YERSEL Ender DURUALP	A QUALITATIVE STUDY ON MOTHERS' VIEWS ON CHILDREN'S SEXUAL DEVELOPMENT	15
Muhammet DAĞLI Ahmet DEMİRER Esra YUMAT	INVESTIGATION OF THE MECHANICAL AND DIMENSIONAL STABILITY BEHAVIOR OF HDPE O- RING PART UNDER DIFFERENT PROCESS CONDITIONS	16
Leyla İŞBİLEN YÜCEL	MEASURING THE RELATIONSHIP BETWEEN HUMAN DEVELOPMENT INDEX (HDI) AND HAPPY PLANET INDEX (HPI) WITH CANONICAL CORRELATION ANALYSIS	18
Mehmet AKINCI Ömer Faruk ÇETİN	THE EFFECT OF SCHOOL PRINCIPALS' TRANSFORMATIONAL LEADERSHIP BEHAVIOR ON PRIMARY MATHEMATICS TEACHERS' MOTIVATIONS	19
Alican USTA Murat Günaydın Gülay TELATAR	THE EXAMINATION OF THE RELATION BETWEEN VIRTUAL LONELINESS LEVELS OF 12. GRADE HIGH SCHOOL STUDENTS AND THEM BECOMING CYBER BULLIES/VICTIMS	20
Seher KAVAK Yeliz PEKERŞEN	GUERILLA MARKETING STRATEGIES IN FOOD AND BEVERAGE BUSINESSES	21
Seher KAVAK Yeliz PEKERŞEN	NEUROMARKETING STRATEGIES: AN ASSESSMENT FOR THE FOOD AND BEVERAGE INDUSTRY	22
Faiz Muhammad Shaikh Muhammad Zafar Wassan Mazharuddin Keerio Rasool Bux Junejo	IMPACT OF CLIMATE CHANGE AND SMART AGRICULTURE AND IMPACT ON YIELD PERFORMANCE OF DIFFERENT WHEAT VARIETIES IN SINDH PAKISTANI: A CASE STUDY OF SYED KHURSHED AHMED SHAH MODEL FARM SALEH PAT SUKKUR-SINDH	23
Anum Shahzadi Iram Shahzadi	SIZE-CONTROLLED SYNTHESIS OF LA AND CHITOSAN DOPED COBALT SELENIDE NANOSTRUCTURES FOR CATALYTIC AND ANTIBACTERIAL ACTIVITY WITH MOLECULAR DOCKING ANALYSIS	24
Abdelghani Sougrati Mohamed Boumazgour Zakaria Taqui	ABOUT THE NORM EQUALITIES OF ELEMENTARY OPERATORS	25
Priyanshi Goyal	A REVIEW ARTICLE ON RECENT INNOVATION AND FUTURE OBSTACLES IN DRUG DELIVERY SYSTEM TO THE EYE	26

Auwal Haruna Ismail Ahmad Said Abubakar Ali Hussaini Halima Balarabe Ahmed Bushra Lawan Gadanya	A REVIEW ON ENVIRONMENTAL SANITATION AND HYGIENE PRACTICES IN DEVELOPING COUNTRIES: CHALLENGES, IMPACT ON PUBLIC HEALTH AND INTERVENTIONS	27
Isyaku Nike Tawakaltu Suleiman Jafaru Muawuya Ibrahim Tolulope James	A SURVEY ON TICKS AND TICK-BORNE PARASITES IN CATTLE SLAUGHTERED AT JEGA ABATTOIR, KEBBI STATE, NIGERIA	28
Feyza Nur MURAT Sonay BİLGİN	DETERMINATION OF HEALTH LITERACY STATUSES AND INFECTIOUS DISEASE RISK AWARENESS AND PROTECTION LEVELS	29
Usman ABDULLAHI Abba GAMBO Fatima ABUBAKAR	EVALUATION ON BASE LINE SURVEY OF NEWLY DEVELOPED PEARL MILLET VARIETIES SUPER- SOSAT UNDER NATURAL FIELD CONDITIONS IN NORTH EAST NIGERIA	30
El Rhoch Mohamed aazouzi Soukaina Mouden Najoua Sellal Zineb Selmaoui Karima Ouazzani Touhami Amina Douira Alla	TRICHODERMA USE AS SEED TREATMENT FOR PROMOTING THE GROWTH OF YOUNG ARGAN SEEDLINGS	31
Shouket Ahmad Kouchay	ARTIFICIAL INTELLIGENCE: A COMPREHENSIVE ANALYSIS AND ECONOMIC IMPACT	32
Shouket Ahmad Kouchay	ENHANCING IOT SECURITY THROUGH AI- POWERED IMAGE PROCESSING	33
Başak KARAKOÇ ÖZTÜRK B. Erdem DAĞISTANLIOĞLU Cabbar AYDIN	A STUDY ON THE SECONDARY SCHOOL DICTIONARY IN TERMS OF POLYSEMY	34
İrina-Ana DROBOT	LEATHER JACKETS: SYMBOLS AND ASSOCIATIONS	35
Sultan ERDUR Mikail ÖZÇİFTÇİ	EFFECT OF THE DELAY CONSTANT ON EXISTENCE OF PERIODIC SOLUTIONS OF A THIRD ORDER MULTIPLE DELAY NONLINEAR DIFFERENTIAL EQUATION	36
Batuhan KAMADAN Melike ARTAR Oya ERDİL	THE RELATIONSHIP BETWEEN WORK STRESS AND TURNOVER INTENTION AMONG BLUE- COLLAR EMPLOYEES	37
Güneş Rohat SOYSAL Yunus AÇCI	DOES TRADE AND FINANCIAL OPENNESS AFFECT ECONOMIC GROWTH? EMPIRICAL EVIDENCE ON SELECTED OECD COUNTRIES	38
Ahanya Mariam Pokkamthanam Antony Chandy Douglas Ruchit Dhanuka Sagaya Aurelia	HOMEHIVE	39
Wardah Amrillah HASANAH RIA AniSatus SHOLIAH Santi Nailul IZATY	SIGNALS THAT THE ECONOMY WILL BECOME DIFFICULT AFTER THE BI RATE RISES, AND THIS IS UNDENIABLE	40
Nurgül GÜN Songül KARADAĞ Sevilay ERDEN	WITHIN THE DEVELOPING TECHNOLOGY IN THE FIELD OF HEALTH: ELDERLY PEOPLE	41
Osmancan EMİN	THE PLACE OF CONTEXT IN NASAFI COMMENTARY	42
Shubham Kumar Shabir Sidhu	CARROT (Daucus carota) POMACE INCORPORATED MUFFINS: DEVELOPMENT AND QUALITY EVALUATION	43

Mehmet Mikail YAĞCI Onur SEVLİ	ARTIFICIAL INTELLIGENCE IN FORENSIC SCIENCE, OPPORTUNITIES AND CHALLENGES	44
Amina KHALFAOUI Sihem KECHIDA	CONSENSUS STUDY WITH DIFFERENT TOPOLOGIES AND TIME DELAY IN MULTI-AGENT SYSTEMS	45
Alabi Remilekun. E Omosigho Donatus	COMPARATIVE ANALYSIS OF THE GUBERNATORIAL ELECTION IN EKITI STATE. NIGERIA. (A CASE STUDY OF YEAR 2018 AND 2022)	46
Gözde Yıldız DAŞ GEÇİM	EVALUATION OF ABUSE, LONELINESS AND DEPRESSION IN OLDER ADULTS	47
Serap DURMUŞ	A COMPARATIVE ANALYSIS OF HU'S ECO- TRANSLATOLOGY AND BOURDIEU'S SOCIOLOGY: IMPLICATIONS FOR TRANSLATORS	48
Emre ALTUNTAŞ Muhammed Serdar AVCI Emre ERCAN Ebru ERİŞ	COMPARISON OF LOW-RISE RESIDENTIAL BUILDINGS IN THE CZECHIA EXAMPLE IN CENTRAL EUROPE AND TURKEY IN TERMS OF LEGISLATION, DESIGN, MANUFACTURING AND COST	49
Ishwar Mittal Rosy Dhall Mikul	PRODUCT INNOVATON AND QUALITY: BUILDING BLOCKS OF BRAND LOYALTY	50
Nitika Saini Barinderjit Singh	KINNOW WASTE UTILIZATION: ESSENTIAL COMPOUNDS, EXTRACTION AND UTILIZATION	51
Cihan Emre TANÇ	USE OF ARTIFICIAL INTELLIGENCE IN THE FILM INDUSTRY: MARKETING AND EDITING STAGES	52
Mehmet ARSLAN Hamit ERDEMİ Şevval Gökçe AKDENİZ	POLYSULFIDE-ENE POLYMERIZATION OF BISACRYLAMIDES AND BISMALIMIDES TOWARD SULPHUR-RICH POLYMERS	53
Chiara Bramucci Rosemary Abbagnale Francesco Pagnoni Ippolito Caputo Rodolfo Reda Luca Testarelli	HEATH TREATED NI-TI ENDODONTIC INSTRUMENTS: STEP-BACK TECHNIQUE VS STEP- DOWN TECHNIQUE	54
Rajmonda Oboni Venemin Gega Ilma Toci Albana Sula Eona Dybeli Armelda Teta Gjergji Doko Arkida Skenderi Shqipe Luta Elona Hasalla Ilda Taka Behije Gollobërda	THE LEVEL OF KNOWLEDGE OF WOMEN AND GIRLS ABOUT BREAST CANCER IN THE DISTRICT OF BERAT	55
Sezgi GİRAY KÜÇÜK	EXAMINING THE THEME OF ICOMOS 2024 " DISASTERS & CONFLICTS THROUGH THE LENS OF THE VENICE CHARTER" WITH EXAMPLES FROM TÜRKİYE AND THE WORLD	56
Ishwara P Naod Mekonnen	ETHICAL CLIMATE AND ETHICAL DECISION- MAKING: THE MEDIATING ROLE OF MORAL INTENSITY	57
Büşra ALAN Menekşe Şeden Tapan Broutin	SECONDARY SCHOOL STUDENTS' VIEWS ON INFINITY: HILBERT'S INFINITE HOTEL PARADOX	58

Arzu DEVECİ TOPAL	EXAMPLES OF ARTIFICIAL INTELLIGENCE-SUPPORTED LEARNING ANALYTICS IN EDUCATION: OPPORTUNITIES, PROSPECTS, CHALLENGES AND OBSTACLES	59
Fatima Daissa Belaidi Salah	DISCOVERING NEW ANTIBACTERIAL LEADS THROUGH MOLECULAR COMPUTER-AIDED DESIGN TECHNIQUES FOR NOVEL OXADIAZOLE DERIVATIVES	61
Swabanu Krothapalli Abinaya Kannan Santhosh Manoharan Karthikeyan Elumalai	ADVANCES IN NANOBIOMEDICINE: INNOVATIVE CANCER TREATMENT HELPS ELIMINATE THE NEED FOR SURGERIES AND EASES THE PROCESS FOR PATIENTS	62
Seyedeh Mohsen Khodaei Zahra Esfandiari Ramin Aslani Seyedeh Mahsa Khodaei	INVESTIGATION OF ACRYLAMIDE IN BREAD, PROCESSES OF ITS FORMATION, AND ITS REDUCTION WITH NEW METHODS	63
Zeeshan Asghar	ELECTRO-OSMOTIC EFFECTS ON MICRO-ORGANISMS SWIMMING THROUGH FLUID MEDIUM	64
Bismillah Iftikhar Sumbal Imran Asifa Javaid Saim Naseer Rizwana Raheel Mah Ru Nisa Atif	"EPILEPTIC HEART SYNDROME: CARDIAC COMPLICATIONS IN CHRONIC EPILEPSY"	65
Sushma Shori	DEVELOPMENT OF PIZZA BASE USING FLOUR OF MILLETS	66
Le Thi Hong Nhung	THE PROBLEM OF COMPETITION FOR CLEAN AGRICULTURAL PRODUCTS AND SOLUTION FOR AN INTEGRATED VALUE-ADDED MODEL FOR CLEAN AGRICULTURE IN KHANH HOA, VIETNAM	67
Nguyen Thi Dung Le Thi Hong Nhung	PROPOSING A MODEL OF EXPERIENTIAL EDUCATION THROUGH SOCIAL IMPACT PROJECTS IN VIETNAM	68
Haneen Vasel	UNVEILING CULTURAL INFLUENCES ON PEDAGOGICAL IDEOLOGY: A CASE STUDY OF EDUCATIONAL CHANGE IN AN ARAB SOCIETY IN ISRAEL	69
Suneel Kumar Dashrath Singh	LEVERAGING ARTIFICIAL INTELLIGENCE FOR UROTHIASIS DIAGNOSIS AND DISEASE PREDICTION	70
Haneen Vasel	EXPLORING CULTURAL DYNAMICS IN TECHNOLOGY INTEGRATION: A STUDY OF ARAB AND JEWISH TEACHERS' PERSPECTIVES POST-COVID-19	71
Thanh-Dung Nguyen Thi-Pha Nguyen Huu-Hiep Nguyen Huu-Thanh Nguyen	IDENTIFICATION AND CHARACTERIZATION OF VIETNAMESE MEDICINAL PLANT (<i>Adenosma bracteosum</i> Bonati) BACTERIAL ENDOPHYTES DISPLAYING IN VITRO ANTAGONISTIC ACTIVITIES	72
Çağrı Çağlar SİNMEZ	A NOVEL APPROACH IN FOOD ETHICS: NEW OMNIVORISM AND OMNIVORES	73
ALLYSSA AMU RONNIE VELYNDA VERONICA MICK MARTIN	ECOTOURISM IN EAST MALAYSIA: CULTIVATING LOVE FOR NATURE AND TRAVELLING	74

Shahrukh Samson Wafa Majeed Farooq Azam Akmal Farooq	PREVALENCE OF ERM(C) RESISTANCE GENES EXPRESSION IN STAPHYLOCOCCUS AUREUS IN COMPARISON TO LACTOBACILLI	75
Audrey Georgina Udi	LEARNING THE DIFFERENT DIALECTS OF KOREAN LANGUAGE THROUGH K-DRAMAS	76
Ayşenur ÖZER Sema SALGIN Uğur SALGIN	THE EFFECT OF CHITOSAN NANOPARTICLES ON BIOCATALYST PERFORMANCE IN CARRIER-FREE IMMOBILIZED ENZYME SYSTEMS	77
Muhammad Abdullah Amnah Yusaf Muhammad Usman	MIXED MICELLAR ENCAPSULATION OF NSAIDS FOR ENHANCED SOLUBILIZATION USING SUITABLE SURFACTANTS	78
Ceyda YENER Arif GÖK	THE ROLE OF CREATIVE THINKING TECHNIQUES IN SOLVING CONCEPT PROBLEMS FOR INTERIOR ARCHITECTURE STUDENTS	79
Maimuna Sidi Muhammad Innocent Ojeba Musa Sanjoy Kumar Pal	APPLICATION OF MICROBIAL SYSTEM IN WASTE MANAGEMENT AND USE OF MICROBIAL SYSTEM IN POLLUTION CONTROL	80
Mohamed Rhaya Hicham Abou Oualid Redouane Haounati Hassan Ouachtak Amane Jada Abdelaziz Ait Addi	HIGHLY EFFICIENT PHOTOCATALYTIC DEGRADATION OF ORANGE G DYE UNDER SOLAR LIGHT WITH A NOVEL TERNARY CATALYST	81
Kadir BOZUKLUHAN Oğuz MERHAN	DETERMINATION OF PARAOXONASE-1 AND SOME BLOOD PARAMETERS IN ECTHYMA SHEEP	82
Dexter Erwin Darmawan Necflonessa J. Samiun	POSITIVE AFFIRMATION VIA HANDDRAWN POSTERS TO HELP SPREAD MENTAL HEALTH AWARENESS	83
Özhan ORHAN Mehmet Nur TALAY Murat SOLMAZ	RETROSPECTIVE INVESTIGATION OF CHILDREN PRESENTED WITH FEBRILE CONVULSION	84
Ikechukwu Jacob Okoro Okwor, Collette Onyinye Nwokike, Amarachi Precious Onyia Obumneme Maduka Chinenye Precious Nwafor Amah Christian Chijioke Victor Nwadiogbu Ogugua	EFFECTS OF METHANOL EXTRACT OF ALCHORNEA FLORIBUNDA LEAVES ON THE LIVER AND KIDNEY MARKERS OF TETRACHLOROMETHANE-INDUCED TOXICITY IN EXPERIMENTAL RATS	85
N. O Haastrup A.J Okoiyele S. O Olaoti-Laaro M.O Lawal D.S Muritala W.T Ayanwusi	COMPARATIVE STUDY ON THE GROWTH AND YIELD OF PLEUROTUS SAJOR-CAJU MUSHROOM CULTIVATED ON PENNISETUM PURPUREUM (ELEPHANT GRASS) AND SAW DUST OF TRIPLOCHITON SCLEROXYLON AS AN ENVIRONMENTAL CONTROL MEASURE	87
Asmae Baghouz Rajae El Brahimi Raja Guemmouh	EXPLORATION THE USE OF ESSENTIAL OILS FROM THREE AROMATIC AND MEDICINAL PLANTS AS A NATURAL ALTERNATIVE TO CONTROL COWPEA WEEVIL (CALLOSOBRUCHUS MACULATUS)	88
Priyanka Kumari Meena R. S. Sharma	MANAGEMENT STRATEGIES USING FUNGICIDES AGAINST COLLAR ROT OF CHICKPEA INCITED BY SCLEROTIUM ROLFII UNDER IN VITRO AND IN VIVO CONDITIONS	89

Özhan ORHAN Mehmet Nur TALAY Murat SOLMAZ	RETROSPECTIVE REVIEW OF VISION SCREENING RESULTS	90
GRISELDA GILBERT EMA AMELIA HAILI NURAELEYA AELYANA BINTI BOBBY ZAKARIA	FISHCAKE WITH THE FLAVOUR OF TRADITIONALLY PICKLED FISH BOSOU	91
Zakia Hammou Zakia Guezzen Zouaoui Sereir Yamna Hammou	OPTIMIZATION OF NATURAL FREQUENCIES BY GENETIC ALGORITHM OF FGM SHELLS REINFORCED BY CARBON NANOTUBE	92
HOUNDJJI Pamphile HESSOU Mariano A. N. A.	DYNAMIC FACTORS OF LAND MARKETS IN THE MUNICIPALITIES OF ADJARRA AND AVRANKOU (BENIN)	93
Judd Ryan Marcellinus Ryan Yop	DITCHING & SWITCHING: SUBSTITUTING PLASTIC STRAWS WITH STRAWS FROM BIODEGRADABLE MATERIALS	94
Soumaya KERSENNA Sami ZERARI	RE-THINKING THE ARCHITECTURE OF FERNAND POUILLON: TOWARDS A MODEL OF LOCAL URBAN DEVELOPMENT	95
Pooja Kumari Preet Kumari	SELF EFFICACY AND EMOTIONAL INTELLIGENCE AS PREDICTORS OF PSYCHOLOGICAL WELL-BEING AMONG COLLEGE STUDENTS	96
Nydia Natasha Jefrin	PLANTING TREES TO SAVE THE PLANET & PROMOTE HEALTHIER LIFESTYLE	97
Erhan Arslan Habib Umur	NUMERICAL ANALYSIS OF NEWTONIAN AND NON-NEWTONIAN FLUIDS IN CONCENTRIC AND ECCENTRIC CHANNELS AND COMPARISON WITH EXPERIMENTAL STUDY	98
Muhammad Amjad Syed Makhdoom Hussain Zeeshan Yousaf Muhammad Faisal Adan Naeem Eman Nameem Muhammad Mahmood Shoaib Akhtar	EFFECT OF CORNCOB AND HOUSE WASTE BIOCHAR ON GROWTH PERFORMANCE, AND BODY COMPOSITION OF GRASS CARP (CTENOPHARYNGODON IDELLA) FINGERLINGS	99
Ashraful Amin Amirul Islam Jahid Hasan Rana Abdul Kader Jelane	CURRENCY WARS IN INTERNATIONAL TRADE: IMPLICATIONS FOR FOREIGN DIRECT INVESTMENT AND EXPORT STRATEGIES	100
Obiora Celestine Ugwu Chioma Assumpta Anosike Chidimma Lilian Asadu Chukwuebuka Kingsley Nwokedi Uchenna Emmanuel Obasi	INVESTIGATION OF THERAPEUTIC POTENTIAL OF METHANOL EXTRACT OF EUCALYPTUS GLOBULUS LEAF IN MITIGATING ETHANOL-INDUCED INFERTILITY IN ALBINO RATS	101
Lawal Adetunji N. Adegbesan Ololade O.	INVESTIGATION ON THE PLASTICIZING EFFECT OF LEMON JUICE ON CONCRETE	102
Madan Lal Regar Kriti Sharma Atul	MOJARI CRAFT	103
Priyanshi Goyal	RECENT ADVANCEMENT ON MICROFLUIDIC TECHNOLOGIES FOR CANCER	104
Kadir BOZUKLUHAN Oğuz MERHAN	OXIDATIVE STRESS INDEX IN COENUROSIS DISEASE OF SHEEP	105

ZERARI Sami RAIS Safa	THE GLOBALISATION OF SAHARAN VERNACULAR HERITAGE. THE CASE OF THE M'ZAB VALLEY IN ALGERIA	106
Rifky RAMADHANI Ade GUNAWAN Santi Nailul IZATY	STRONG LEVEL OF STABILITY IN THE FINANCIAL SERVICES SECTOR AMID CONTINUOUS GLOBAL CHALLENGES	107
Rissy Rachel Richard	EDIFYING HISTORY VIA VIDEO GAMES	108
Yousra Taoudi Hicham Oudghiri Hassani Souad Rakass Mohammed Lachkar	INVESTIGATION OF PHOTOCATALYTIC DEGRADATION OF TOXIC DYE IN AQUEOUS SOLUTION IN THE PRESENCE OF CDMO04 NANOCATALYSTS	109
NATHANAEL TOBIT FRANKE EROWINCENT EDWIN	DRINKING WATER PROMOTES HUMAN WELLNESS WHILE MINIMIZING OUR HARM ON THE ENVIRONMENT	110
Neha Singh	PHYTOCHEMICAL EVALUATION AND PHARMACOLOGICAL USES OF TURMERIC (CURCUMA LONGA)	111
Valeriya LIKHACHEVA	UNVEILING CHARACTER TRAITS IN FAIRY TALES THROUGH LEXICAL AND STYLISTIC DEVICES	112
Nitika Saini Barinderjit Singh	UTILIZATION OF KINNOW PEEL BYPRODUCT FOR PASTA FORTIFICATION	113
Zehra EĞİNKAYA Eda ÇINAROĞLU	OPERATIONAL PERFORMANCE ASSESSMENT OF EUROPE'S BUSIEST AIRPORTS	114
EL BRAHIMI Rajae BAGHOUS Asmae BARI Amina	EXTRACTION OF ESSENTIAL OILS FROM TWO WILD AND DOMESTICATED PLANTS OF THE OREGANO SPECIES COLLECTED IN THE TAZA REGION	115
Imdadul Hossain Molla	PREPARATION OF HYDROGEL BEADS CONTAINING PLANT EXTRACT	116
Ferdi DOĞANAY Rauf GUL	EFFICACY AND SAFETY OF TRAMADOL AND LOW DOSE REMIFENTANIL IN	117
Rauf GUL Aziz YARBİL Metin KILINÇ Ergün MENDES Vahap SARICİCEK	MONITORED ANESTHESIA CARE AND EFFECTIVE DOSE OF REMIFENTANIL IN TRANSURETHRAL RESECTION - RANDOMIZED CONTROLLED STUDY	118
Sultan ERDUR İbrahim SARIER	INVARIANCE OF SOME SPECIAL TYPES OF CURVES UNDER TRANSFORMATION IN ROBOT KINEMATICS	119
SAVARNA. K. SUSHMITHA. B. VAISHNAVI. D. MOHITHAA. M. THANGASHAKTHI. M.	MACHINE LEARNING FOR AIR QUALITY PREDICTION: INSIGHTS FROM DATASET	120
Yakub ANLAĞAN Rauf GUL Saffet KARACA	EVALUATION OF FACTORS EFFECTING POSTOPERATIVE MORTALITY IN FEMUR FRACTURES - RETROSPECTIVE STUDY	121
Ali Sinan ÇABUK	THERMAL MONITORING of SOLAR PANELS with Node-RED	122
Balasubramani G L Rinky Rajput Manish Gupta Pradeep Dahiya Jitendra K Thakur Rakesh Bhatnagar Abhinav Grover	STRUCTURE-BASED DRUG REPURPOSING TO INHIBIT THE DNA GYRASE OF MYCOBACTERIUM TUBERCULOSIS	123

Rani Raudhotul Jannah	BUILDING BRAND AWARENESS THROUGH TIKTOK: THE INFLUENCE OF CREATIVE AND INTERACTIVE CONTENT IN REACHING MILLENNIAL CONSUMERS	124
Durmuş Ali BİRCAN İbrahim ÇETİNKAYA Yılmaz ERBİL	DELAMINATION INVESTIGATION AND OPTIMIZATION IN DRILLING OPERATIONS OF GLASS FIBRE REINFORCED PLASTICS (GFRP) COMPOSITES	125
Hazer TARIMCILAR	READING URBAN CHANGE THROUGH THE ADAPTIVE CYCLE UNDER THE INFLUENCE OF SOCIO-ECONOMIC DETERMINANTS: BURSA-ÇEKİRGE	127
Siham ELMACHRAFI M'hammed EL KOUALI Meryem EL JEMLI	EXTRACTION AND IDENTIFICATION OF THE CHEMICAL CONSTITUENTS OF ESSENTIAL OILS AND AQUEOUS EXTRACTS FROM LAMIACEAE PLANTS	128
Egemen ENGIZEK Neyir OZCAN	ANALYSIS OF USER TYPE ON TOUCH SURFACES AND DETERMINATION OF TOUCH SENSITIVITY ACCORDING TO USER TYPE	129
Fahri Berk BİLBAY Mustafa Cemal ÇAKIR	INVESTIGATION OF THE LEAD TYPES THAT CONNECTING ELECTRONIC COMPONENTS TO PRINTED CIRCUIT BOARDS USED IN AUTOMOTIVE LIGHTING SYSTEMS IN TERMS OF MECHANICAL PERSPECTIVE	130
Ali Berk DEMİR Eylem KORKMAZ YENEN	UNDERSTANDING THE IMPACT OF INORGANIC FILLERS ON SOUND TRANSMISSION LOSS OF POLYPROPYLENE-COATED NONWOVEN POLYMER COMPOSITES	131
Sümeyye ÖZTÜRK Serdar BOZKURT	THE ROLE OF JOB MEANINGFULNESS IN THE RELATIONSHIP BETWEEN TRANSFORMATIONAL LEADERSHIP AND INTENTION TO LEAVE	132
Kübra Nur YİĞİT Oktay BEKTAŞ	PERCEPTIONS OF PRE-SERVICE SCIENCE TEACHERS ABOUT FLIPPED LEARNING	133
Zineb MOUJOUD Abdeslam EL BOUARI Omar TANANE	CLAY BRICKS WASTE-BASED GEOPOLYMER FOAMS FOR THERMAL INSULATION IN BUILDING SECTOR	134
Habil. Cristina Raluca	ENVISIONING INTERNATIONAL TRADE AND LOGISTICS FOR THE SUSTAINABLE DEVELOPMENT GOALS (SDGS): RESPONSIBLE PLANT, TREE, AND LIVESTOCK LOGISTICS FOR GREENING AND CONSERVING THE ENVIRONMENT	135
Habil. Cristina Raluca Gheorghe N. Popescu	FRAMEWORKS FOR CUSTOMER RELATIONSHIP MANAGEMENT (CRM) AND COLLABORATIVE PLANNING, FORECASTING, AND REPLENISHMENT (CPFR) FOR THE SUSTAINABLE DEVELOPMENT GOALS (SDGS): ENVISIONING A QUALITY-ORIENTED MODEL IN TURKEY	136
Orhan Kemal ELÇİ Serdar BOZKURT	A QUALITATIVE STUDY ON THE USE OF DIGITAL TECHNOLOGICAL TRANSFORMATION IN HUMAN RESOURCES AND RECRUITMENT PROCESSES	137
Aulia Isna Shinta Wati Hendri Hermawan Adinugraha	THE DYNAMICS OF THE SHIPBUILDING INDUSTRY IN BATANG, CENTRAL JAVA	138
Faraz Ahmed Muhammad Yasin Naz Shazia Shukrullah	SYNTHESIS AND CHARACTERIZATIONS OF MNTIO ₃ PHOTOCATALYST FOR THE DEGRADATION OF RHODAMINE B DYE IN AQUEOUS SOLUTION	139

Nermin KART Hüseyin BEKTAŞ Şeref Duhan ALTUĞ Filiz ALTUĞ	EFFECTS OF VAGUS NERVE STIMULATION ON THE PARASYMPATHIC SYSTEM	140
Nermin KART Emre BASKAN	ACUTE EFFECTS OF AEROBIC EXERCISE ON COGNITIVE FUNCTIONS IN PATIENTS WITH CHRONIC STROKE	141
Marija Radmilović-Radjenović Branko Kolarić Darko Vasiljević Branislav Radjenović	MATERIAL PLATFORM FOR INTEGRATED QUANTUM LIGHT SOURCES	142
Ahmet Niyazi ÖZKER	GOVERNMENT GROSS DEBTS IN TURKEY AND EVALUATING DEBTS EXPECTED BASED ON MACROECONOMIC PROJECTIONS	143
Emel GELMEZ Hande EREN	EVALUATION ECONOMIC FREEDOM OF G7 COUNTRIES USING THE CRITIC-BASED MULTIMOORA METHOD	144
Koray ÖZŞEKER Tolga COŞKUN Neira Purwanty ISMAIL Bilal ONMAZ	ALERT AT THE NATURAL WONDER UPPER DUDEN WATERFALL: SOLID WASTE POLLUTION	145
Leyla R. Hasanova	INVESTMENT PORTFOLIO'S MANAGEMENT IN POST-CONFLICT ENVIRONMENTS: RISKS, CHALLENGES AND OPPORTUNITIES	146
Marija Radmilović-Radjenović Nikola Bošković Branislav Radjenović	THREE-DIMENSIONAL MODELING OF RADIOFREQUENCY ABLATION THERAPIES	147
Sabba Mehmood	JOURNEY TOWARDS PERSONALIZED MEDICINES AND RARE GENETIC DISEASES MANAGEMENT	148
Reinita ANGGRAENI Ria Anisatus SHOLIAH Santi Nailul IZATY	DYNAMICS OF INDONESIA'S ECONOMIC GROWTH IN 2023 AND PROJECTED CHALLENGES FOR 2024	149
Muhammad Jamil Ade Gunawan Santi Nailul IZATY	BANK INDONESIA PROJECTS INDONESIA'S SHARIA ECONOMY TO GROW 4.7-5.5 PERCENT IN 2024	150
Rashad ABDULLAYEV	UTILIZING ARTIFICIAL INTELLIGENCE (AI) APPLICATIONS FOR ENHANCING TEACHING AND LEARNING PRACTICES IN EDUCATION	151
Ajayi, Olayemi T. Akande-Adedeji Olufunke T.	CARING A NEW NICHE: REJUVENATING ART EDUCATION IN NIGERIAN POLYTECHNICS THROUGH STRATEGIC CURRICULUM DELIVERY AND LEADERSHIP INNOVATIONS	152
Ajayi, Olayemi T. Akande-Adedeji Olufunke T.	ENHANCING THE CURRICULUM DELIVERY IN DIGITAL PHOTOGRAPHY IN NIGERIAN POLYTECHNICS: SMARTPHONE PHOTOGRAPHY AS A VIABLE TOOL	153
Fatmanur AKINCI Handan ÜREK Ayberk BOSTAN SARIOĞLAN	EMPTY WALLS THAT BREATHE: STEM ACTIVITY	155
Shubham Sharma Sunil Gupta	AN ASSESSMENT OF INITIAL CHEMICAL AND PHYSICAL TESTS ON THE FRUIT OF RANDIA DUMETORUM LAMK	156
P.Jeyaprabha G.Saravanan	AN OVERVIEW OF NANOSTRUCTURED LIPID CARRIERS AS A DRUG DELIVERY PLATFORM	157

Nazish Rashid Muhammad Mazhar Iqbal Tehmena Rashid Maria Gillani	ANALYSIS OF URBAN MOBILITY PATTERNS USING YOLO V8: AN INNOVATIVE APPROACH FOR URBAN PLANNING AND TRAFFIC ANAGEMENT	158
Miguel Gonçalves Ana Ramos Neves Inês Reis Baptista	SOME NOTES ON THE PRECURSOR FIGURE OF ACCOUNTING	159
Miguel Gonçalves	AN INVITATION TO PORTUGUESE ACCOUNTING HISTORY: THE FIRST ACCOUNTING SCHOOL IN THE WORLD AND ITS TEACHERS AND STUDENTS	160
Nuray AŞANTUĞRUL	INVESTIGATION OF EXPERIMENTAL GRADUATE THESIS ON PEER BULLYING AMONG SECONDARY SCHOOL STUDENTS	161
Şerif ÖZLÜ	HAMMING DISTANCE MEASURES BASED ON BIPOLAR VALUED TYPE-2 FUZZY SETS	162
Ali Burak DÖRTKARDEŞ Şima ŞAHİNDURAN	LAMINITIS IN FOALS	163
Yasemin ÇÖLGEÇEN Cansu DENİZ POYRAZ	EFFECTS OF DISASTERS ON MENTAL HEALTH, EXAMINING THE EFFECT OF FOCUS GROUP STUDY WITH YOUNG PEOPLE AFFECTED BY THE FEBRUARY 2023 EARTHQUAKE ON MENTAL HEALTH AND QUALITY OF LIFE	164
P.Thamarai Selvi R.Srinivasan	PHYTOPHARMACOLOGICAL STUDIES OF SOME INDIAN MEDICINAL PLANTS FOR ANTI- HYPERLIPIDEMIC ACTIVITY	165
Osamah Ihsan Ali Gyurika István Taha Hussein Mohammed	IMPROVEMENT CHARACTERIZATION OF CVD COATINGS FOR MACHINING APPLICATIONS	166
Arkida Skender Zamira Çabiri Gjergji Doka Venemin Gega Rajmonda Hida Ilma Toçi Albana Kreçi	GUARDING FUTURE GENERATIONS: THE POWER OF THE HPV VACCINE	167
Anıl ERMİŞ Fatih ERBAŞ Kerem MERTOĞLU	OVERVIEW OF ARONIA AND ARONIA CULTURE IN TURKEY	168
Gentrit SMAKAJ	SAN STEFANO TREATY AND THE BALKAN PEOPLES	169
Azize Arslanhan Metin Başarır	ON MAPS SATISFYING ENRICHED CONDITION C_γ	170
Abdulkerim Ergut Begum Yurdanur Dagli	INVESTIGATION OF THE DYNAMIC BEHAVIOR OF JACKET-TYPE PLATFORMS EXPOSED TO HYDRODYNAMIC FORCES USING REGRESSION ANALYSES	171
K.R.Padma K.R.Don	ENERGY HARVESTING INVESTIGATION OF PIEZOELECTRIC NANOGENERATORS AND ITS POTENTIAL APPLICATION AS SMART MATERIALS IN THE NEAR FUTURE	172
Abdelmoutalib BENFRID Mohammed CHATBI Zouaoui.R HARRAT Mohamed BACHIR BOUIADJRA Abdeljalil BENBAKHTI	THE INFLUENCE OF GLASS POWDER ON THE BENDING OF A REINFORCED CONCRETE BEAM	173

Onur ÇOBAN Seda Eylül ÖZALP	EFFECT OF VOLCANIC PARTICLE REINFORCEMENT ON THE ADHESION PERFORMANCE OF ALUMINUM JOINTS	174
Jale ERDEM Eda ÇINAROĞLU	EVALUATION OF QUALITY PERFORMANCE OF STAR ALLIANCE, SKYTEAM AND ONEWORLD MEMBER AIRLINES	175
Dilek KUL Alper SAĞLIK	VANDALISM OF REINFORCEMENT ELEMENTS IN ÇOMÜ TERZİOĞLU CAMPUS	176
Dilek KUL Alper SAĞLIK	ÇOMÜ TERZİOĞLU CAMPUS APPLICATION RECOMMENDATIONS FOR IMPROVING TRAFFIC SAFETY	177
Ayşe Gülnihal İSLAMOĞLU Celalettin TOPBAŞ	ROOT CANAL CONFIGURATIONS IN MANDIBULAR PREMOLAR TEETH IN A TURKISH SUBPOPULATION	178
Ipek CIMEN BULUT	ETHICAL PROBLEMS IN ROBOTS WITH ARTIFICIAL INTELLIGENCE DURING THE DIGITAL TRANSFORMATION PROCESS OF THE EUROPEAN UNION	179
Yunus Emre AYDIN	BIBLIOMETRIC ANALYSIS OF POSTGRADUATE THESIS STUDIES ON "SUPERVISION" IN TÜRKİYE	180
Yunus Emre AYDIN Binnaz KIRAN	INVESTIGATION OF SUICIDE PROBABILITY AND PSYCHOLOGICAL FLEXIBILITY OF ADOLESCENTS AFTER THE EARTHQUAKE	181
Choayb BOUSNOUBRA Yacine DJEGHADER Hassen BELILA	INVESTIGATING A THREE-PHASE, FOUR-WIRE SHUNT ACTIVE POWER FILTER TO REDUCE HARMONICS	182
Burçak MERİÇ	THE EFFECT OF PROPRIOCEPTIVE SENSE ON SHOOTING ACCURACY IN BASKETBALL	183
Chems Eddine BOUKHEDIMI	ASSESSING THE NEXUS BETWEEN E- SATISFACTION AND E-WOM IN THE ALGERIA CONTEXT	184
Atiya Shaheen Bushra Parveen Iqra Amin, Muhammad Ismaeel Mehwish Amin	BIOACTIVE PENTA- AND HEXA-COORDINATED ORGANOTIN(IV) COMPLEXES WITH TRIDENTATE SCHIFF BASE	185
SABRINA DIVA NUR RAHMADANI AMALIA AYUNINGTYAS SEPTYA WULAN SAVITRI RANI DWI SAPUTRI SALSA SABILA	BUSINESS ETHICS CULTURE IN THE FORMATION OF EMPLOYEE PERFORMANCE MANAGEMENT	186
Olha Bykova	LITERARY REPORTAGE ON TRAVELING TOPICS ON THE PAGES OF PERIODICALS OF THE 20S AND 30S OF THE 20TH CENTURY	187
Odenigbo C. Clifford Momoh Shaibu	FILTRATION EFFICIENCY OF CERAMIC WATER FILTER POT PRODUCED FROM CLAY AND BIOMASS AND BIOMASS AS ALTERNATIVE SOURCE OF WATER PURIFICATION FOR RURAL AREAS	189
Nebahat KAYAER	ACTIO LIBERA IN CAUSA (ALIC) THEORY IN CRIMINAL LAW	190
Hussaini, A. S. Oladimeji, Y. U. Abdulrahman, S. Yusuf, H. O. Afolabi, E. A. Suleiman, R.	CHARACTERIZING THE KEY ACTORS AND ITS FUNCTIONAL ROLES ALONG THE GROUNDNUT VALUE CHAIN IN NIGERIA	191

Andrey Popatanasov Elitsa Petrova	"CHATAK MATAK" - THE HARYANVI HIT THAT INSPIRED THE CHOREOGRAPHERS AND DANCERS OVER THE GLOBAL CYBERSPACE TRENDS AND PSYCHOLOGICAL NOTES	192
Fatma Feyza GÜNGÖR Mehmet SUNAR	THERMALLY-INDUCED VIBRATIONS OF ISO- THERMAL THIN STRUCTURES SUBJECT TO VARIOUS STRUCTURAL BOUNDARY CONDITIONS	193
Sobia Mukhtar Matloob Ahmad Sana Aslam	N-ARYLATION OF CARBAZOLE DERIVATIVES	194
Raza A.Rasheed A.Farid Misbah Yousaf N. Ayub A.I. A. Khan	SYNTHESIS OF BINDER-FREE NANOFIBERS ZNS/MOS2/NIF ELECTRODE MATERIAL FOR ASYMMETRIC SUPERCAPACITOR APPLICATIONS	195
Muhammed, Y Adejoh, S. O. Muhammad, U. H. Aliyu, P. A.	EFFECTS OF INTEREST RATE ON CREDIT ACCESSED BY MAIZE FARMERS IN KUJE AREA COUNCIL OF ABUJA, NIGERIA	196
Samrat Biswas Barinderjit Singh	ULTRASOUND ASSISTED EXTRACTION OF BIOACTIVE COMPOUND FROM PEARL MILLET (PENNISETUM GLAUCUM) AND UTILIZATION FOR PRODUCT DEVELOPMENT	197
Sourav Rana Barinderjit Singh	ULTRASOUND ASSISTED EXTRACTION OF BIOACTIVE COMPOUND FROM SORGHUM (SORGHUM BICOLOR) AND UTILIZATION FOR PRODUCT DEVELOPMENT	198
S. SINDHUJA S. KESHİKA S. PAVAI MADHESWARI R. SUBHASHINI SANTHI M. GEORGE	ADVANCEMENTS IN SMART WASTE MANAGEMENT SYSTEMS: A COMPREHENSIVE OVERVIEW	199
Andaç Batur Çolak	INVESTIGATING THE APPLICABILITY OF MACHINE LEARNING IN PERFORMANCE ANALYSIS OF SOLAR WATER PUMPS	200
Ayhan AYDIN Arzu TAYLAN SUSAN	THE EVALUATION OF URBAN QUALITY OF LIFE IN THE DIVERSE HOUSING AREAS: THE CASE OF ALMERE, NETHERLANDS	201
Sara Badrouss El Mostafa Bachaoui Mohamed Jibril Daia Eddine Hicham Mounicif Mohamed Biniz	IMPROVING EFFICIENCY IN PLANT SPECIES MAPPING AND UAV IMAGE PROCESSING: LESSONS FROM MOROCCO'S HIGH ATLAS MOUNTAINS USING AN ENHANCED U-NET METHODOLOGY	202
Mónika Fekete Andrea Lehoczki Noémi Móze János Tamás Varga	COPD AND NUTRITION: REDUCING HEALTHCARE COSTS AND PROMOTING BETTER NUTRITIONAL STATUS WITH DIETARY SUPPLEMENTS	203
Baiju Thomas	THE ROLE OF CO-TEACHING FACILITATES INCLUSIVE EDUCATION FOR STUDENTS WITH DISABILITY IN THE 21ST CENTURY EDUCATIONAL SYSTEMS	204
Hüseyin ŞİRİN Kerem MERTOĞLU	MATURATION AND STORAGE OF STRAWBERRIES	205
Nuray AŞANTUĞRUL	INVESTIGATION OF PSYCHOLOGICAL COUNSELING THEORIES IN TERMS OF MULTICULTURAL PSYCHOLOGICAL COUNSELING	206

Zulfiqar Ali Khan	XAMINING THE STRUCTURE AND SENSING PROPERTIES OF A NOVEL AIEE ACTIVE DEFERASIROX-BASED ORGANIC SENSOR USING SPECTROSCOPY AND DFT ANALYSIS	207
Gülsüm Deniz YILMAZ Şima ŞAHİNDURAN	CLINICAL USE OF PARAOXANASE ENZYME IN ANIMALS	208
Ukatu, V.E Usama, A.R	DETERMINATION OF MOSQUITO ABUNDANCE, DIVERSITY AND MALARIA PREVALENCE AMONG THE INHABITANTS OF RIVERINE YAURI LOCAL GOVERNMENT AREA KEBBI STATE, NIGERIA	209
Mahashri balakrishnan Sandhya M Savithri devi V Saitejasri K Sai Chandini R Lalitha Ramachandran	IMPLEMENTATION OF DISCRETE MATHEMATICS IN EPIDEMIOLOGY	210
Yeşim Koç	THE EFFECTS OF STARVATION IN DIFFERENT SIZES OF TENEBRIO MOLITOR L., 1758 (COLEOPTERA: TENEBRIONIDAE) LARVAE ON ADULT DEFORMATION RATE	211
Ali Haider Muhammad Imran Muhammad Ikram Anum Shahzadi	ANTIMICROBIAL POTENTIAL AND RHODAMINE B DYE DEGRADATION USING GRAPHITIC CARBON NITRIDE AND POLYVINYLPYRROLIDONE DOPED BISMUTH TUNGSTATE SUPPORTED WITH IN SILICO MOLECULAR DOCKING STUDIES	212
Raja Mohammad Latif	B*g*-COMPACT AND B*g*-LINDELOF TOPOLOGICAL SPACES	213
Anastasia Dubinets Irina Kopytich	LEXICAL AND PHONETIC FEATURES OF THE NIGERIAN VARIANT OF ENGLISH	214
Ömer AYDIN Erman DOĞAN Ezgi SEVİLMİŞ Çiğdem KARAGÜLMEZ SAĞLAM	EFFECT OF ATTENTION LEVELS ON REACTION TIME IN FENCING	215
NEHA	EFFECT OF FORTIFICATION OF LETTUCE AND GERMINATED CHICKPEA FLOUR ON COOKING, FUNCTIONAL AND TEXTURAL PROPERTIES OF PASTA	216
Ayşegül YÜCEL Musa SARIKAYA	EFFECT OF TEMPERATURE ON LITHIUM RECOVERY FROM BORON WASTE	217
Cihangir KARA Kerem MERTOĞLU	EXHAUST GASES AND PLANT-RELATED IMPACTS OF THEM	219
Zineb ELABOUDI Samira EL AOUIDI Abdelaziz MADINZI Radouan SAADI Azzouz BENKDDAD Abdelmourhit LAISSAOUI Salah SOUABI Zineb EL MOURIDI	SOIL-TO-PLANT TRANSFER FACTORS OF NATURALLY OCCURRING RADIONUCLIDES IN MEKNES SEMI-ARID AGRICULTURAL AREA, MOROCCO	220
ALİ OSMAN İLHAN Celalettin TOPBAŞ	ENDODONTIC-PERIODONTAL LESIONS	221
Saida ID ouaziz Mohammed EL Khomssi	ANALYSIS OF CORRUPTION DYNAMICS WITH THE LANCHESTER MODEL	222
Mustafizur M. Rahman	ENVIRONMENTAL VARIABILITY AS TOOL FOR FISHERIES RESOURCE MANAGEMENT	223

Madan Lal Regar Bhavna Choubisa	ANALYSIS OF ELASTIC PROPERTIES OF ELI-TWIST YARN	224
Büşra AVCI İlkay ATAR Fatih MENGELOĞLU	EFFECT OF THE USE OF CHICKEN FEATHER AND RED PINE WOOD FLOUR IN EPOXY BASED COMPOSITE PRODUCTION ON MECHANICAL AND PHYSICAL PROPERTIES	225
Dia Eddin NASSANI Esra AKYEL	STRENGTHENING REINFORCED CONCRETE STRUCTURE DAMAGED BY THE KAHRAMANMARAŞ EARTHQUAKE	226
Hüseyin BEKTAŞ Şeref Duhan ALTUĞ Nermin KART Filiz ALTUĞ	EVIDENCE-BASED EFFECTS OF DUAL TASK TRAINING IN PATIENTS WITH MULTIPLE SCLEROSIS	227
Raf Raf Shakil Ansari	EX-MACHINA (2015): EXPLORING CYBORG FIGURATION AND FEMINIST POSTHUMANISM	228
Hayriye GÜLER Mustafa Batuhan KURTOĞLU	EXAMINATION OF SOCIAL ANXIETY DISORDER IN TERMS OF SOCIO-DEMOGRAPHIC CHARACTERISTICS	229
Esen ŞAHİN ALIMU AZIGULI	EXPLORING DIFFERENCES IN SOCIAL MEDIA MARKETING PRACTICES BETWEEN B2B AND B2C COMPANIES: A LITERATURE-BASED STUDY AND BIBLIOMETRIC ANALYSIS	230
Mohd Raziq Lee bin Lee Ket Fui, Nurmiza Nazifa binti Mohamad Zahid Hooi Peng Lim	FABRICATION OF ENVIRONMENTAL-FRIENDLY PLASTIC BRICKS: A PROPOSAL STUDY OF RATIO CONTROL OF PLASTIC WASTE TO SAND	231
SHARDA UNIVERSITY GREATER NOIDA	FAKE NEWS DETECTION USING LSTM	232
Mustafa ARSLAN Abdalmuhaymen M. A. GHAZAL Şakir ALTINSOY	INVESTIGATION OF THE FRACTURE BEHAVIOR OF PLA AND RE-PLA SAMPLES MANUFACTURED WITH FUSED DEPOSITION MODELING USING DIFFERENT MANUFACTURING PATTERNS	233
Burak VURAL Kerem MERTOĞLU	EFFECTS OF DIFFERENT CROP LOADS ON FRUIT QUALITY	234
Şeref Duhan ALTUĞ Nermin KART Hüseyin BEKTAŞ Ayşe ÜNAL	INVESTIGATION OF THE COGNITIVE CONTROL AND COGNITIVE FLEXIBILITY LEVELS OF HEALTHY INDIVIDUALS IN DIFFERENT AGE GROUPS	235
Fatima Adamu Yahaya Innocent Ojeba Musa Sanjoy Kumar Pal	AGRICULTURE AND SOIL MICROBIOME AND MICROBIAL INTERACTION WITH THE ENVIRONMENT	236
Figen GÖLCÜK ÖREN Hamit ERDEMİ	INVESTIGATION OF THE MECHANICAL AND PHYSICAL PROPERTIES OF GLASS POWDER AND TALK FILLED POLYPROPYLENE COMPOSITES	237
Dini SYAFA'ATI Ade GUNAWAN Santi Nailul IZATY	FINANCIAL SERVICES SECTOR STRONG IN FACING POTENTIAL SLOWDOWN IN GLOBAL ECONOMIC GROWTH	238
Ebru AYDIN Teslime ÖZTÜRK ÇETİN	FOOD AND NON-FOOD APPLICATIONS OF OPUNTIA SPP. 'OPUNTIA SPP. SNACKS'	239
Ümit YÜZBAŞIOĞLU Tuğçe OKUR Rabia AKBULUT Cansu YILDIRIM	INVESTIGATION OF POSTURAL HABITS AND AWARENESS LEVELS OF ACADEMIC STAFF: PILOT STUDY	240
Ananda Majumdar	FOSTERING INDUSTRIAL SUPPLY CHAIN MANAGEMENT	241

Isyaku, N.T James, Tolulope Olayemi	AGE AND GENDER PREVALENCE OF SCHISTOSOMA HAEMATOBIIUM AMONG SECONDARY SCHOOL STUDENTS IN ALIERO TOWN, KEBBI STATE, NIGERIA	242
Aditya Sharan Aryan Jain	FROM CRISIS TO SOLUTIONS: UNDERSTANDING THE SILENT THREAT OF AIR POLLUTION IN SOUTH ASIA	243
Dwi Suci ANGGRAENI Ade GUNAWAN Santi Nailul IZATY	FULFILLMENT OF ACTUARIAL OWNERSHIP IN THE INSURANCE INDUSTRY	244
Marina Todor STOJANOVA Dragutin DJUKIC Monika STOJANOVA Leka MANDIC Ivana BOSKOVIC	EFFECTS OF SOIL AND FOLIAR FERTILIZING ON AFUS ALI GRAPEVINE BUDS' WINTER TEMPERATURE RESISTANCE AND CLUSTER CHEMICAL COMPOSITION	245
M.Monica R.Saravanan R.Srinivasan	FUNCTIONAL AND NUTRACEUTICAL SIGNIFICANCE OF AMLA (PHYLLANTHUS EMBLICA L.)	246
A.Niveditha B.M.V. Silpa C.V. Sejian	GENETIC APPROCHES TO BREED FOR CLIMATE RESILIENCE IN LIVESTOCK	247
S.Keerthiga V.Varalakshmi R.Devi R.Srinivasan	GENETIC ENGINEERING: ETHICAL CONCERNS VS. BENEFITS	248
Lulu Maulida Zahra Ria Anisatus Sholihah Sinta Nailu Izaty	GOVERNMENT'S SUCCESS IN HANDLING THE PANDEMIC & ACCELERATING ECONOMIC RECOVERY	249
Ceren Ece GÖCEN Meral BALCI	HISTORY AND SECURITIZATION OF MIGRATION: THE CASE OF THE USA	250
B. Pharm R. JOTHILAKSHMI R.SRINIVASAN	NEUROPROTECTIVE AGENTS, NATURAL PLANT HERBS & DRUGS IN ISCHEMIC STROKE: A REVIEW	251
Emet GÜREL İlkay Burak TAŞKIRAN	E-HEALTH LITERACY: A CONCEPTUAL PERSPECTIVE	252
Huma Ali Saba zubair	COMMUNITY PHARMACY IN PAKISTAN. MYTHS, REALITIES AND ASSOCIATED CHALLENGES; STRATEGIES TO OVERCOME BARRIERS	253
Hakan BAYRAK	REPLACEMENT OF THE GEOPOLYMER CONCRETE SECTIONS AS LAYER BY THE STEEL FIBER REINFORCED GEOPOLYMERS: BENDING TEST ON NOTCH PRISMS	254
HALIMATU IBRAHIM Ahmed Lawal Mashi Abubakar sani	A REVIEW ON BIODIESEL PRODUCTION USING EGGSHELL AS CATALYST	255
Aya HAMIOUD Farida BENMEZIANE Lynda DJERMOUNE-ARKOUB	CHICKPEA (Cicer arietinum): NUTRITIONAL ASPECTS AND COMPOSITION	256
Hamza Khan Rehman Khan	SMART ELECTRIC VEHICLE CHARGING SYSTEM INTEGRATED WITH RENEWABLE SOURCES	257
Hande DEMİRTAŞ Serap ALTUNTAŞ	PROBLEMS RELATED TO NURSING RECORDS, THEIR CAUSES AND SOLUTION SUGGESTIONS: A QUALITATIVE RESEARCH	258

Preethy KR Keerthana SL Ilakiya T Anusha S Kamushree T Chamundeeswari M	HARNESSING STATISTICAL TECHNIQUES FOR SUSTAINABLE WATER PURIFICATION: A FOCUS ON PHOTOCATALYTIC DEGRADATION OF REACTIVE DYES	259
Hasan Kemal KARABUN Kemal Melih TAŞKIN	THE EFFECT OF TRICHOSTATIN A (TSA) ON MORPHOLOGICAL CHARACTERISTICS OF ARABIDOPSIS THALIANA UNDER PHOPSHATE STARVATION	260
Hasan KORKMAZ Ayşegül TERECİ	THE EFFECT OF VENTILATION ON INDOOR AIR QUALITY IN OFFICE BUILDINGS: THE CASE OF KONYA SELÇUKLU MUNICIPALITY BUILDING	261
Hatice DEVECI Sultan BUTUN SENDEL	POLYSACCHARIDE-BASED MICROGELS USED AS A DRUG DELIVERY SYSTEM	262
Hilmi Anıl GÜNDEMİR Murat ERGÜN	OPERATION MAINTENANCE FOR HIGHWAY BUILT WITH BOT (BUILD-OPERATE-TRANSFER) MODEL IN TURKEY	263
Ceren KÖKLÜKAYA Şima ŞAHİNDURAN	(ENDOSCOPIC APPROACH TO INFLAMMATORY BOWEL DISEASE IN CATS AND DOGS)	264
Danae Duana-Ávila Fabiola Martinez Vargas	UNDERTAKING RENEWABLE ENERGIES AS AN ALTERNATIVE FOR MEXICO	265
Mahmut BUYANKARA	EVALUATION OF SCHELLENBERG'S ARGUMENT OF DIVINE HIDDENNESS in THE CONTEXT of GOD'S ONTOLOGICAL STATUS AND HUMAN FREEDOM	266
Nanik Shofiyan Ria Anisatus Sholihah Santi Nailatul Izaty	INDONESIA LACKS PUBLIC ACCOUNTANTS	267
Tatiana Marisel Pizarro	THE NOBODIES: THOSE WHO ARE NOT, EVEN THOUGH THEY ARE. AN EXPLORATORY ANALYSIS OF THE INCLUSION OF THE HOUSEWIFE AS A RETIREE UNDER THE PIP	268
Tolga CENGİZ Başak MESCİ OKTAY	INVESTIGATION OF METAL FOAM MATERIALS AND THEIR PROPERTIES: A REVIEW	269
Halime ERZEN YILDIZ Berna OTO	INVESTIGATION OF PHOTON INTERACTION PARAMETERS OF VINCA ALKALOIDS	270
İrem Ezgi USTAOĞLU Kemal Melih Taşkın	GLYCAN PROFILING OF SOYBEAN PLANTS UNDER ABIOTIC STRESS	271
Emre EREN Emre ERCAN Ercan TUNA Emre KALFA Muhammed Serdar AVCI	İSABEY MOSQUE MINARET RETROFITTING PROJECT: IMPROVING THE SEISMIC RESISTANCE OF THE HISTORICAL BUILDING AND INVESTIGATION OF ITS STRUCTURAL INTEGRITY	272
Ephesus O. Fatunmbi Stephen O. Are	FLOW AND HEAT TRANSFER DYNAMICS OF TANGENT HYPERBOLIC NANOFLUID OVER A RIGA PLATE SUBJECT TO THERMAL RADIATION AND JOULEAN HEATING	273
Fowotade Sulayman. A. Ahmad Fadhila. Murtala Yau. D. Ughanze Joshua U. Ibrahim Salisu N. Adesoye Sodiq A.	ASSESSING THE IMPACT OF NEEM LEAVE EXTRACT ON TERMITES INFECTED NEEM BARK (AZADIRACHTA INDICA) TREE AND WALLS OF BUILDING IN HUSSAINI ADAMU FEDERAL POLYTECHNIC KAZAURE	274

Issa ISSAKA BASSAKOYE Souleymane ISSA MAHAMADOU	AN EXAMINATION OF MIGRATION AND INTEGRATION POLICIES IN THE ERA OF MULTICULTURALISM	275
Elif ÖZMETİN Elif ÇALGAN Yeliz SÜZEN	THE EFFECT OF VARIOUS PARAMETERS ON SULFATE REMOVAL BY ION EXCHANGE	276
Beyza ÇANTAK Serpil ALLUŞOĞLU	EFFECT OF VISUAL ATTENTION ON SPEECH DISCRIMINATION ABILITY IN YOUNG ADULTS WITH NORMAL HEARING: A PILOT STUDY	277
Jenifer Alat Stephen Mirkhamidova Sevara Mirmakhmudovna	SILENT WITNESS: RE-EXAMINING THE EFFICACY OF BOYCOTTING IN GENOCIDE PREVENTION	278
ELİF ÇELEBİ NURİYE ERBAŞ GÜLAY DEMİR	BIBLIOMETRIC ANALYSIS OF STUDIES ON GYNECOLOGICAL CANCERS	279
ARTAN POGONI JUNIDA POGONI	EVALUATION OF COUNTERMOVEMENT JUMP IN 16 YEARS OLD GIRLS VOLLEYBALL PLAYERS	280
Işıl KEÇİK BÜYÜKHATİPOĞLU Kalben ŞAŞMAZ	THE CURRENT LASER SYSTEMS IN DENTISTRY	281
Özgür KAHRAMAN Ceyda ÜNAL	EVALUATION OF İDA MOUNTAINS ENDEMIC PLANT SPECIES IN TERMS OF MEDICINAL AND AROMATIC	282
Özgür KAHRAMAN Aynur KIRTİL	EVALUATION OF THE USE OF PUBLIC HOBBY GARDENS IN ÇANAKKALE CITY CENTER	283
Simge EŞSİZ Muhammed ORDU	EXPONENTIAL SMOOTHING APPROACHES FOR ESTIMATING THE DAILY PRICE OF THE GOLD PARTICIPATION FUND IN THE INDIVIDUAL PENSION SYSTEM	284
Aulia Putri FEBRIANTI Santi Nailul İZATY Ria Anisatus SHOLİHAH	BANKING RESILIENCE REMAINS MAINTAINED AMID STRENGTHENING US DOLLAR AND GLOBAL GEOPOLITICAL PRESSURE	285
Esma GÖKMEN	BASIC PARAMETERS OF IDENTITY CONSTRUCTION OF NEW CONSERVATIVE INSTAGRAM PHENOMENA	286
Sare SAĞLAM Ömer Faruk GÖZÜKİZİL	STABILITY ANALYSIS OF THREE PREDATORS- ONE PREY MODEL WITH FEEDBACK CONTROL AND CAPUTO FRACTIONAL DERIVATIVE	287
Nazlı BAL HATUNOĞLU	DEER SYMBOLISM IN ANTALYA LEGENDS FROM GEYİK MOUNTAIN TO ABDAL MUSA	288
Sevda ÖNEN Ayşe ÇEVİRME	ETHICS SCIENCE AND NURSING	289
Abdulatif Ahmed Ali ABOLUHOM İsmet KANDİLLİ	REAL-TIME FACE RECOGNITION BASED ON MULTI-TASK LEARNING WITH RASPBERRY PI	290
Yağmur AKARSU	HOW DOES THE WAR ECONOMY AFFECT THE TOURISM SECTOR?: ASSESSMENT OF THE RUSSIAN-UKRAINE WAR	291
Yağmur AKARSU	INCOME INEQUALITY AND POVERTY IN TURKEY	292
Buket DAŞTAN	GAS THERAPY AND NURSING IN CANCER	293
Buket DAŞTAN	SONODYNAMIC THERAPY AND NURSING IN CANCER	234
Ömer Fikret YILMAZ Abdullah KAPICIOĞLU	MEETING THE ENERGY NEEDS OF A MILITARY FACILITY LOCATED IN A COLD CLIMATE ZONE WITH RENEWABLE ENERGY RESOURCES	295
Emine YILDIRIM Şima ŞAHİNDURAN	(EFFECTS OF LEPTIN, GHRELIN, INSULIN HORMONES IN GASTRIC DISEASES IN CATTLE)	296

Ayşe Betül KÜÇÜKTÜFEKÇİ İdris VARICI	THE RELATIONSHIP BETWEEN COMPANY TARGETS AND MANIPULATION: A STUDY ON BIST COMPANIES	297
Hikmet ERBIYIK Dastan NURZHANOV	ARTIFICIAL INTELLIGENCE APPLICATIONS IN TOTAL EFFICIENT MAINTENANCE	298
Masauda Muhammad Umar Innocent Ojeba Musa Sanjoy Kumar Pal	DYNAMICS OF MICROBIAL POPULATION IN AIR, WATER AND SOIL	299
Mandana Gharehdaghi	LEVERAGING BLOCKCHAIN FOR TRUST ENHANCEMENT IN SUPPLY CHAIN SOCIAL NETWORKS	300
ARRAJI Maryem CHAHBOUNE Mohamed	MEASUREMENT OF MEDICATION ADHERENCE AMONG TYPE II DIABETES PATIENTS ATTENDING PRIMARY HEALTHCARE FACILITIES IN MOROCCO	301
Mehmet ARATLI Onur SEVLİ	THE USE OF 3D DESIGN PROGRAMS AND 3D PRINTERS IN EDUCATION	302
Ahmadova Akima Amir Muradova Jala Nizami	AZERBAIJAN'S TRANSITION STRATEGY TO THE GREEN ECONOMY	303
Yusuf AKTOP Nevzat Kaan ALEMDAR Fatih ERBAŞ Kerem MERTOĞLU	USE OF AQUAPONIC TECHNIQUES IN FRUIT FARMING	304
Yiğit Ali AKIN Kerem MERTOĞLU	UTILIZING UNMANNED AERIAL VEHICLES IN FRUIT CULTIVATION	305
Selin SANDAL Hüseyin ÖZÇELİK Kerem MERTOĞLU	BENEFITS AND SIGNIFICANCE OF FREEZING IN FRUIT STORAGE	306
Mohamed DODO YACOUBA	INTEGRATING TECHNOLOGY IN NURSING EDUCATION	307
Monica Alina Toma	THE CONSTRUCTION OF SPACE IN PABLO NERUDA'S MODERN LOVE SONNETS	308
Esmâ AYDIN Dilek AYGİN	REDUCTION OF BURN RISKS IN THE USE OF MONOPOLAR ELECTROCAUTERY: SAFETY PROTOCOLS AND PRACTICES FOR OPERATING THEATRES	309
Mustafa KULBAY Eser ÇAKMAK Atakan ERİŞGİN Begüm KORUNUR ENGİZ Birşen BİLGİCİ	THE EFFECTS OF ELECTROMAGNETIC FIELD AT 2- 2.45 GHZ MICROWAVE FREQUENCY ON ER STRESS IN RAT TESTIS TISSUE	310
Mustafa Oğuzhan BERİĞEL Sami KARACAN	THE IMPACT OF INTELLECTUAL CAPITAL ON FIRM PERFORMANCE: A STUDY ON THE BIST BROKERAGE FIRM INDEX	311
PRATTHIKA A T NADELLA GEETHANJALI PONMANI S PRIYADHARSHINI D	MENTALWELLBOT: A COMPREHENSIVE CHATBOT FOR MENTAL HEALTH AWARENESS AND PRELIMINARY MEDICAL ASSESSMENT	312
R. Devi B. Jayanthi M. Komala	NANO-DELIVERY SYSTEMS AS A PROMISING THERAPEUTIC POTENTIAL FOR EPILEPSY	313
MUHAMMAD FAISAL	NAVIGATING WEB 3.0 HARNESSING AI AND BIG DATA FOR THE FUTURE OF VIRTUAL ENTERTAINMENT	314
Nazlı KÜÇÜKTEPE İsmail YARIÇI	RFID BASED INVENTORY MANAGEMENT SYSTEM	315

Neki Barokah	ANALYSIS OF GHARAR IN THE PRACTICE OF BUYING AND SELLING TRANSACTIONS USING THE TEBASAN SYSTEM FOR RICE HARVESTS (Study Case Klairan Kaibahan Village Kesesi Subdistrict)	316
B.Pharm A.DINESH BABU R. JOTHILAKSHMI Dean R.SRINIVASAN	NEUROPROTECTIVE AGENTS, NATURAL PLANT HERBS & DRUGS IN ISCHEMIC STROKE: A REVIEW	317
Neytullah SALMİ Burak ÖZTÜRK Deniz TUZ	EXAMINATION OF FACTORS AFFECTING MUSICAL PERCEPTION SKILLS IN INDIVIDUALS WITH COCHLEAR IMPLANTS A PRELIMINARY STUDY	318
Nihan TURAN Metin BAŞARIR	A STUDY ON THE SOLUTIONS OF THE Q-INITIAL VALUE PROBLEM WITH FIXED POINT THEORY	319
Priyam Sarmah Nitul Ali	ENVIRONMENTAL DETERMINATES OF GUT MICROBIOTA DIVERSITY: A CROSS CULTURAL STUDY	320
Nguyen Thanh Binh Ly Minh Kha	PROS AND CONS OF MANGROVE CO- MANAGEMENT IN THE MEKONG DELTA OF VIETNAM	321
Binyam Zigta	NUMERICAL STUDY OF PHYSIOLOGICAL BLOOD FLOW WITH STRETCHING CAPILLARY ON MHD MICROPOLAR FLUID	322
Ivan PAVLOVIC BSc Stanko MINIC Marija PAVLOVIC Aleksandra TASIC	OCCURENCE OF RAILLIETINA TETRAGONA IN FARM BREEDING PHEASANTS IN BELGRADE AREA	323
Novidhoh KAHAR Ria Anisatus SHOLIHAN Santi Nailul IZATY	OJK: FINANCIAL SERVICES REMAIN RESILIENT AND CONTRIBUTE TO SUPPORTING GROWTH	324
Olca Mutlu DERİCİ Hatice KARAER	REVIEW OF THE STUDIES CONDUCTED RELATED TO THE ZERO WASTE PROJECT	325
R. Devi B. Jayanthi M. Komala	OPTIMIZATION OF PHARMACEUTICAL FORMULATION USING BOX BEHNKEN DESIGN	326
Sinta ALIFTINA Ade GUNAWAN Santi Nailul IZATY	OPTIMIZING COORDINATION STRATEGIES FOR COMBATING ILLEGAL FINANCIAL ACTIVITIES: A FOCUS ON SPECIAL TASK FORCES	328
Orkhan Akif oglu Nabiye	ENERGY DIPLOMACY IN THE SOUTH CAUCASUS: POST-SECOND KARABAKH WAR DYNAMICS AND U.S. ROLE	329
Mahirou ABDOURAZAKOU SEYNI Oumarou AMADOU BOUBACAR	THE GIG ECONOMY AND THE FUTURE OF WORK: AN ANALYSIS OF TRANSFORMATIVE LABOR LANDSCAPES	330
Oumarou AMADOU BOUBACAR Mahirou ABDOURAZAKOU SEYNI	THE EVOLUTION OF CONSUMER BEHAVIOR IN THE DIGITAL AGE	331
P. Nithin Kumar K. Masilamani	OVERVIEW OF NANOPARTICLES FOR THE TREATMENT OF EPILEPSY	332
Sinem MAVİLER	INVESTIGATION OF GREEN HYDROGEN PRODUCTION AND USE BY SWOT ANALYSIS	333
Mustafa ÖNLEN Mustafa ULU	EXAMINING THE EFFECT OF MATHEMATICAL REASONING SKILLS ON PROBLEM SOLVING SKILLS IN ELEMANTY 4TH GRADE STUDENTS'	334
Seher DÖNER Nuray ŞİMŞEK	CHILD ABUSE ON THE INTERNET AND MENTAL RESULTS	335

Ceren ÖZDEMİR Elifcan CESUR	THE EFFECT OF EMOTION REGULATION- ORIENTED CREATIVE WRITING ACTIVITIES IN ADOLESCENTS WITH SPECIFIC LEARNING DISORDER: CASE STUDY	336
Beytullah BOZALI Ahmad Saleh Ahmad ALshamaileh	ARDUINO AND ARTIFICIAL INTELLIGENCE BASED HUMAN AND OBJECT TRACKING ROBOT	337
Aydın SELLİOĞ	THE EFFECT OF ACTIVITIES BASED ON PROJECT- BASED LEARNING APPROACH ON THE MATHEMATICS LEARNING PROCESS OF SECONDARY SCHOOL STUDENTS	338
Elif ATICI TEKTAŞ	SUSTAINABILITY OF URBAN MEMORY THROUGH DIGITAL TECHNOLOGIES	339
Nazlı Nisa GÜNEY Ümit Turgay ARPACIOĞLU	THE INFLUENCE OF ADAPTABILITY ON ARCHITECTURE AND FACADES	340
Mehmet Can BÜYÜKDÖĞERLİOĞLU Haydar LİVATYALI	DIMENSIONAL CONTROL IN SHEET METAL FORMING USING MACHINE LEARNING	341
Berkant DİNDAR Mithat ŞİMŞEK Muhammet Talha KARTAL Emine Nur DEMİR	MANUFACTURING OF EPOXY/CNT AND EXPERIMENTAL INVESTIGATION OF THEIR COMPRESSIVE STRENGTH	342
Melisa GÜLTEKİN Esra PEHLİVAN	THE ROLE OF PELVIC FLOOR MUSCLE TRAINING IN PELVIC ORGAN PROLAPSE SURGERY: A REVIEW OF RECENT RANDOMIZED CONTROLLED TRIALS	343
Neriman ARAL Gül KADAN	INVESTIGATION OF CHILD REPRESENTATIONS IN NEWSPAPERS AFTER KAHRAMANMARAŞ EARTHQUAKE	344
Sergen GÜRSOY	A SOLUTION PROPOSAL FOR THE IDLE STATE OF HUMAN CAPITAL NEET: FLEXIBLE WORKING	345
Songül ÖZEL	PURPOSE OF SHARIA PROVISIONS IN ISLAMIC LAW	346
Murat FİDAN Sevgi YÜCEL	THE IMPORTANCE OF MONEY FOUNDATIONS IN MEETING FINANCIAL NEEDS	347
Aynur ŞAHİN Zeynep KALKAN	SOME FIXED POINT RESULTS FOR GENERALIZED NONEXPANSIVE MAPPINGS IN HYPERBOLIC METRIC SPACES	348
Selen Görkem EFEOĞLU Berkay KAYKIN	DIFFERENCES OF USE WITH SUPERCAPACITORS AND BATTERIES IN ELECTRIC VEHICLES	349
Ayşenur YILMAZ	GENDER, MARRIAGE, AND INDEPENDENCE: ‘JANE EYRE’ IN THE CONTEXT OF SECOND-WAVE FEMINISM	350
Barış AĞIR	. SEXUALITY AND VIOLENCE: TOXIC MASCULINITY AS A FORM OF HEGEMONY IN RAYMOND CARVER’S SHORT STORIES	351
Ahu Çelebi Hilal Yüce Emine İrem Kaya	PRODUCTION OF AUXETIC STRUCTURES WITH SLA AND INVESTIGATION OF THE EFFECT OF CURING TIMES	352
Abdulkadir YAĞIZ İsmail USTA Metin YÜKSEK	IMPROVEMENT OF SHIELDING PROPERTIES OF MILITARY VEHICLE CAMOUFLAGES AGAINST ELECTROMAGNETIC WAVES PRODUCED BY WARP KNITTING TECHNIQUE	353
Murat UYSAL Ahmet FEYZİOĞLU Uğur ÖLMEZ Hüseyin HALİLOĞLU	COMPRATIVE EVALUATION OF LITHIUM BATTERY ALTERNATIVES FOR ENERGY STORAGE SYSTEMS USING THE ANALYTIC HIERARCHY METHOD	354

Selda IŞKIN ÇOLAK Damla BULUT	OPINIONS OF SECONDARY SCHOOL STUDENTS ON TECHNOLOGY-ENHANCED MUSIC EDUCATION	355
Ahmet Serdar ÇOBAN İhsan Tolga MEDENİ Tunç Durmuş MEDENİ Mehmet Serdar GÜZEL Fatih EKİNCİ	OPTIMAL APPROACH TO THE EMPLOYMENT OF OFFICE PERSONNEL IN THE PUBLIC SECTOR: A STUDY ON MANAGEMENT INFORMATION SYSTEMS AND LABOR PEACE	356
Keziban ALTUN ERDOĞDU	THE EFFECT OF WATCHING TELEVISION ON HAPPINESS: THE CASE OF TURKEY	358
Serap Nur DUMAN	TEACHER CANDIDATES' MOTIVATIONS FOR LEARNING ENGLISH	359
BUSE İLİ Mehmet Serkan YATAĞAN	PERFORMANCE EVALUATION OF WOOD-GLASS COMPOSITE FACADE MATERIAL UNDER ATMOSPHERIC CONDITIONS	360
Palwinder Preet	EVALUATION OF THE NUTRITIONAL AND SENSORY OF GLUTEN-FREE COOKIES MADE FROM RICE FLOUR, RAGI FLOUR, OATS FLOUR & GREEN BANANA FLOUR	361
Abdul-Azeez Toyeeb Abdulmumini Baba Alfa Abubakar Alhaji Sadiq	THE IMPACT OF MONETARY POLICY ON DOMESTIC PUBLIC INVESTMENT	362
Hafsa Naeem	PRODUCTION OF BIO-PLASIC AND ITS CHARACTERIZATION USING BANANA PEEL	363
Anyasi, Raymond Oriebe Eze, Nnamdi Callistus Anyasi Raymond Joyce Onyenaturuchi Ifechukwu Paul Emeka	A REVIEW ARTICLE PROFILING ENDOPHYTES AND ITS APPLICATIONS	364
Sibel SİZAR Umran TEZCAN ÜN	CARBON DIOXIDE EMISSION CALCULATION IN CEMENT FACTORY	365
Ashraful Amin Jahid Hasan Rana Abdul kader Jelane Ashraful Amin	RED SEA SECURITY: SAFEGUARDING MARITIME ROUTES AND ENSURING STABILITY IN A VITAL GEOSTRATEGIC REGION	366
Sheila Arisonya Mulyani	RELIGIOUS MODERATION IN ADDRESSING DIVERSITY IN INDONESIA	367
I.A. Aderibigbe S.A. Daud A.B. Omotoso O.I. Sulaimon	INFRASTRUCTURAL DEVELOPMENT ESTIMATION: A SCHOCHASTIC FRONTIER OF SMALLHOLDER FARMERS IN OGUN STATE	368
Regina SILFIANA Ria Anisatus SHOLIAH Santi Nailul IZATY	RISING ECONOMIC GROWTH IN SOUTHEAST ASIA	369
Mesude Bengisu Yılmazbaş Nuriye Erbaş Gülây Demir	BIBLIOMETRIC ANALYSIS OF STUDIES ON RISKY PREGNANCY AND PREECLAMPSY	370
Gupta Swati Sanjaykumar Rishabha Malviya	ROLE OF ARTOFOCOAL INTELLOGENCE ON NEUROLOGOCAL DOSORDERS	371
E. Binuni Rebez G. Ilavarasi M. V. Silpa V. Sejian	ROLE OF MOLECULAR CHAPERONES IN INDUCING CLIMATE RESILIENT POTENTIAL TO GOAT	372

Saadaoui Driss Elyaqouti Mustapha Assalaou Khalid Choulli Imade Lidaighbi Souad Arjdal Elhanafi Ben Hmamou Dris Elhammoudy Abdelfattah Abazine Ismail	A NOVEL HYBRID ANALYTICAL AND GENETIC ALGORITHM APPROACH FOR ACCURATE PARAMETER DETERMINATION IN SOLAR PHOTOVOLTAIC SYSTEMS	373
SATYAM PATEL SWATI BANSAL	IMPACT OF SOCIAL MEDIA ON YOUTH	374
Selahattin Furkan ÖZTÜRK Adnan AKKURT	NUMERICAL ANALYSIS OF PHASE CHANGE OF PHASE CHANGE MATERIAL IN THERMAL ENERGY STORAGE SYSTEM UTILIZING COMPRESSOR WASTE HEAT	375
Utami Nur Fadhilah Ria Anisatus Sholihah Santi Nailul IZATY	SHARIA FINANCIAL LITERACY AND INCLUSION ARE STILL NOT OPTIMAL	376
Sibel CANAKÇAY Kemal GÖZ	GAZALI'S VIEW ON THE CONCEPTS OF AHISM, FUTUWWAT AND UHUVWAT	377
İbrahim Can KAÇAR Gökhan COŞKUN	THE ASSESSMENT OF THE SHOP NO. 1 IN AZANOI IN THE LIGHT OF COINS	378
B. Pharm A. DINESH BABU R. JOTHILAKSHMI R. SRINIVASAN	SOME NATURAL ISOLATED COMPOUNDS AS ANTICANCER AGENTS	379
Talha MERCİMEK Özgür TONKAL	SOCIAL MEDIA CRIMINALS	380
Souleymane ISSA MAHAMADOU Issa ISSAKA BASSAKOYE	LEGAL RESPONSES AND THE ROLE OF DIGITAL EVIDENCE IN CRIMINAL JUSTICE SYSTEMS	381
Ayşegül TUNA İlknur AKKUŞ Serdar GÜL Birgül KAÇMAZ	PYURIA, BACTERIURIA, AND EMPIRICAL ANTIBIOTIC SELECTION IN PREGNANT WOMEN	382
Mahashri balakrishnan Sandhya M Savithri devi V Saitejasri K Sai Chandini R Sai Chandini R	IMPLEMENTATION OF CONFIDENCE INTERVALS IN FINANCIAL ANALYSIS	384
Subhashish Dey	STRENGTH AND DURABILITY PROPERTIES OF HIGH STRENGTH CONCRETE BY REPLACING SAND WITH ROBO SAND AND CEMENT WITH FLY- ASH AND USING MINERAL ADMIXTURES	385
Jenalyn B. Boctot Alicia P. Cabatingan Mark Anthony N. Polinar	CAREER INTEREST AND READINESS AMONG GRADE 10 STUDENTS OF A PRIVATE UNIVERSITY IN CEBU CITY, PHILIPPINES	386
Nestle Zuri P. Garcia Keneth John Fuentes Christine Gel L. Cionelo Charlene A. Casinillo Mark Anthony N. Polinar	FINANCIAL KNOWLEDGE, BEHAVIOR, AND ATTITUDE OF ACCOUNTANCY, BUSINESS, AND MANAGEMENT (ABM) SENIOR HIGH SCHOOL STUDENTS OF MABOLO NATIONAL HIGH SCHOOL	387
Betül ACAR	THE IMPACT OF SUSTAINABILITY CONCEPT ON LUXURY BRAND STRATEGIE	388

S.A. Daud A.B. Omotoso I.A. Aderibigbe O.I. Sulaimon	SYNERGY BETWEEN TRANSPORTATION INFRASTRUCTURE AND ARABLE CROP PRODUCTION IN OYO STATE	389
Tuğçe ANTEPLİOĞLU Şerafettin KURTOĞLU	BIOMARKERS WITH POTENTIAL FOR THE DETECTION OF RENAL DISEASE IN DOGS AND CATS	390
Fatma KILIÇ URFALI Ali İhsan ÇELİK	ANALYSIS OF HISTORICAL ARCH STRUCTURES USING THE FINITE ELEMENT METHOD: THE CASE OF TEKGOZ BRIDGE	391
Mustafa Kemal KAYA Kerem MERTOĞLU	THERMAL POWER PLANTS' IMPACT ON FRUIT GROWING	392
Emad A. Abood Amer Al-Hammood Noralhuda M. Azize	THE EFFECT OF METAKAOLIN ON MODULUS OF ELASTICITY OF CONCRETE	393
Asma Idris Mohammed Alfassi	THE IMPACT OF TURKISH LANGUAGE ON THE LIBYAN DIALECT	394
Lailatul Fadhilah Ria Anisatus Sholihah Santi Nailul Izaty	THE INFLUENCE OF INDONESIA'S FUNDAMENTAL ECONOMIC STRENGTHS ON DAMPENING THE MIDDLE EAST CONFLICT	395
MUHAMMAD FAISAL	THE MOST EFFECTIVE METHOD TO BREAK DOWN THE DATUM ASSUMING IN MANUALLY WRITTEN STRUCTURE DEVICES' EXPECTATION'S	396
Alice Sisinnio	THE RIGHT TO SELF-DETERMINATION SEEN THROUGH ARTWORK: THE MONUMENT OF THE FIVE DAYS OF MILAN	397
SAVARNA. K. SUSHMITHA. B. VAISHNAVI. D. MOHITHAA. M. THANGASHAKTHI. M.	THE ROLE OF DISCRETE MATHEMATICS IN ADVANCING BIOINFORMATICS RESEARCH	398
Mustafayev Agil Gulmammad	THE ROLE OF THE DEVELOPMENT OF SERICULTURE IN SOLVING THE POPULATION'S EMPLOYMENT PROBLEM IN THE SHEKI- ZAGATALA ECONOMIC REGION	399
Indah Aura SALSADILA Ade GUNAWAN Santi Nailul IZATY	THE TASK FTORCE WILL DEFINITELY STRENGTHEN COORDINATION IN ERADICATING ILLEGAL FINANCIAL ACTIVITIES	400
Ljiljana Simonović Grujić Natalija Jovanović	THE TYPES OF ADOLESCENT STRESSFUL EVENTS AS A BASIC FOR MENTAL-HYGIENIC MEASURES TO MAINTAIN AND STRENGTHEN PHYSICAL AND MENTAL HEALTH	401
Alexandrov V.S.	A NEW METHOD FOR MONITORING AND DIAGNOSING THE TECHNICAL CONDITION OF SENSOR DEVICES BASED ON THEIR NOISE CHARACTERISTICS	402
Tülü OLAK Abdullah TURAN Duygu ALPASLAN Tuba ERŞEN DUDU Nahit AKTAŞ	INVESTIGATION OF PARACETAMOL RELEASE FROM THYME OIL-CONTAINING ORGANO- HYDROGELS AT DIFFERENT PHS AND THE EFFECT OF KINETIC MODELS	403
Muhamad SUBAGIYO Ade GUNAWAN Santi Nailul IZATY	ANALYSIS OF BANK INDONESIA'S INTEREST RATE HIKE POLICY IN 2024	404
Latif PINAR Askar ACHYLOV	INTERNATIONAL RELATIONS AND FASHION	405

Latif PINAR Askar ACHYLOV	INTERNATIONAL RELATIONS AND SCRIPT WRITING	406
Ufuk GÖR Eser ÇAKMAK Atakan ERİŞGİN Begüm KORUNUR ENGİZ Birşen BİLGİCİ	THE EFFECTS OF ELECTROMAGNETIC FIELD AT 2- 2.45 GHZ MICROWAVE FREQUENCY ON ER STRESS IN RAT BRAIN TISSUE	407
Bakhtawar Arshad Wafa Majeed Farooq Azam Akmal Farooq	UNDERSTANDING THE EXPRESSION LEVEL OF NF1 AND TIN GENES IN LUNG CANCER	408
Meisa Kurnia NATA Ria Anisatus SHOLIAH Santi Nailul IZATY	USES OF ACCOUNTING INFORMATION FOR BANKS	409
Fatima Ezzahra Atmani Meriem Kasbaji Safaa Adim Aziz Hasib	USING FISH SCALES AS A NEW BIOSORBENT FOR THE ADSORPTION OF METHYLENE BLUE FROM WASTEWATER: OPTIMIZATION, EFFECT OF PHYSICOCHEMICAL PROPERTIES, KINETIC MODELS AND THERMODYNAMIC PARAMETERS	410
Sunny Chauhan Ajesh Chauhan Chetan Vashist Shivam Rajput	UTILISING MICRORNAS AS A THERAPEUTIC APPROACH FOR CANCER	411
Mykola Vaskiv	LYRICS OF MAGTYMGULY PYRAGY IN HUNGARIAN TRANSLATIONS	412
Yarkın ÇELİK	MOBILE MEDIA CONSUMPTION AND RESPONSIVE DESIGN IN NEWS WEBSITES: IMPORTANCE AND IMPACT	413
Yarkın ÇELİK	RISING MARKET SHARE OF WEARABLE TECHNOLOGY AND CONSUMER PREFERENCES	414
İlkay ATAR Büşra AVCI Fatih MENGELOĞLU	EFFECT OF THE USE OF AMMONIUM POLYPHOSPHATE ON CERTAIN MECHANICAL, PHYSICAL AND COMBUSTION PROPERTIES OF PARTICLEBOARD	415
Kamil YAVUZ Kerem MERTOĞLU	FACTORS AFFECTING OLIVE OIL QUALITY	416
Nubar TÜMÜR Gülşah BENGİSU Mustafa OKANT	DETERMINATION OF SILAGE QUALITY CHARACTERISTICS OF FEEDING PEAS AND TRITICALE SİLAGES SILOED AT DIFFERENT RATIOS UNDER ŞANLIURFA CONDITIONS	417
Mehmet POLAT Gülşah BENGİSU Mustafa OKANT	DETERMINATION OF SILAGE QUALITY CHARACTERISTICS OF FODDER PEAS AND OATS GROWN IN ŞANLIURFA CONDITIONS BY ENSILING AT DIFFERENT RATES	418
Barış ŞANLI İrem ÇOKSERT	SYSTEMATIC ANALYSIS OF THESES IN THE FIELD OF SCIENCE EDUCATION RELATED TO EDUCATION INFORMATICS NETWORK (EBA)	419

ENVIRONMENTAL VARIABILITY AS TOOL FOR FISHERIES RESOURCE MANAGEMENT

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Environments play a significant role in shaping different aspects of animals' lives on Earth, such as their behavior, physiology, development, and overall well-being. Aquatic environments typically have a greater influence on aquatic animals compared to terrestrial environments on terrestrial animals. Certain environmental parameters, such as water temperature, dissolved oxygen, turbidity, and food availability, can influence fish movement, with fish generally moving towards areas with higher food availability. To understand the importance of environmental factors on the fish (*Labiobarbus festivus* and *Osteochilus hasseltii*) catching efficiency of gillnets, a 12-month (January and December 2016) study was conducted at three sampling sites in Lake Kenyir, northern Malaysia. Fish were caught once in every month using gillnets (each 200 m long, 2 m deep) of three different mesh sizes (38-, 51-, or 76-mm mesh), each of which was deployed in duplicate at the surface of one of three randomly selected sites, concurrent with measuring various environmental parameters and the abundance of phytoplankton and benthic macroinvertebrates. Data were analyzed statistically using the redundancy analyses (RDA) and permutational multivariate analysis of variance (PERMANOVA). Results indicated that the catches of *L. festivus* were positively influenced by water turbidity with no seasonal effects, while the density of phytoplankton positively influenced the catches of *O. hasseltii*. The catches of *O. hasseltii* were somewhat size specific with positive and negative effects of the monsoon on small and large fish, respectively. Such species-specific differences were attributed to life histories, and although *L. festivus* might be best sought during any period of turbidity. In contrast, larger *O. hasseltii* might be best sought during non-monsoon period concurrent with greater catches. The observed results can be valuable for ecological monitoring and adjusting gillnet fishing efforts in management plans related to these fishes, particularly in response to climate change.

Keywords: Aquatic environment; *Labiobarbus Festivus*; *Osteochilus hasseltii*; Gillnet; Fish catch; Fish movement