



**8TH INTERNATIONAL BLACK SEA
COASTLINE COUNTRIES
SCIENTIFIC RESEARCH
CONFERENCE**

**AUGUST 29-30, 2022 / SOFIA, BULGARIA
BULGARIAN ACADEMY OF SCIENCES,
INSTITUTE OF ORGANIC CHEMISTRY
WITH CENTRE OF PHYTOCHEMISTRY**

ABSTRACTS BOOK

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ISBN: 978-625-8213-30-0 By
IKSAD Publishing House

**8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC
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CONTENT

Author	Title	No
Iva UGRINOVA	L1 ANTITUMOR ACTIVITY OF DIFFERENT LOW-TOXIC BIOLOGICALLY ACTIVE SYSTEMS (BAS)	1
Zlatina VLAHOVA Maria PETROVA Maria SCHRÖDER Jordana TODOROVA Alexander TZINTZAROV Anastas GOSPODINOV Lyudmila VELKOVA Dimitar KAYNAROV Aleksandar DOLASHKI Pavlina DOLASHKA Prof. Iva UGRINOVA	L2 ANTITUMOR ACTIVITY OF BIOACTIVE COMPOUNDS FROM MARINE SNAIL RAPANA VENOSA AGAINST A PANEL OF HUMAN BREAST CELL LINES	2
Alexander DUSHKOV Maria PETROVA Iva UGRINOVA	L3 INVESTIGATING THE IN VITRO ANTITUMOR AND ANTIPROLIFERATIVE POTENTIAL OF AN AMANITA MUSCARIA EXTRACT AGAINST LUNG AND PROSTATE CANCER CELL LINES	4
Dimitar KAYNAROV Aleksandar DOLASHKI Lyudmila VELKOVA Olga ANTONOVA Pavlina DOLASHKA	L4 SELECTIVE CYTOTOXICITY OF HEMOCYANINS AGAINST BLADDER CARCINOMA T24 PERMANENT CELL LINE AND MECHANISM OF ANTITUMOR ACTION	5
Momchil KERMEDCHIEV Pavlina DOLASHKA	L5 NATURAL AND SURGICAL APPROACH IN THE TREATMENT OF DIFFICULT TO HEAL AND CHRONIC WOUNDS.	6
Yulian VOYNIKOV Yosif BENBASSAT Paraskev NEDIALKOV	L6 HIGH-THROUGHPUT HR-LC-MS ANALYSIS OF NATURAL COMPOUNDS IN COMPLEX MIXTURES	7
Tülay TEKİN YILMAZ	L7 A SOCIOLOGICAL LOOK TO THE THEORY OF LEARNED HELPLESSNESS	8
Kazım BİBER Mehriye KOPUK İLHAN Hülya CANKORUR Ece ERDEM Eylül Beyza ÇİFTÇİ	L8 DEVELOPMENT OF A GRADE SCORING KEY TO DETERMINE THE LEVELS OF PEDAGOGICAL ART CRITICISM OF 5-6 YEARS OLD CHILDREN	9
Reni Kalfin Lyubka TANCHEVA Maria LAZAROVA Lyudmila VELKOVA Diamara UZUNOVA Borislav MINCHEV	L9 MECHANISMS UNDERLYING THERAPEUTIC POTENTIAL OF HELIX ASPERSA EXTRACT IN EXPERIMENTAL ALZHEIMER'S DISEASE	10

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

<p>Polina PETKOVA-KIROVA Krasimira TASHEVA Teodora TASEVA Yordan HODZHEV Miroslava STEFANOVA Ventseslav ATANASOV Albena ALEXANDROVA Elina TZVETANOVA Almira GEORGIEVA Alexander DOLASHKI Pavlina DOLASHKA</p>		
<p>Lyubka TANCHEVA Maria LAZAROVA Lyudmila VELKOVA Miroslava STEFANOVA Diamara UZUNOVA Borislav MINCHEV Polina PETKOVA-KIROVA Alexander DOLASHKI Reni Kalfin Pavlina DOLASHKA</p>	<p>L10 NEUROPROTECTIVE PROPERTIES OF HELIX ASPERSA SNAIL EXTRACT IN PARKINSONS'S DISEASE EXPERIMENTAL MODEL</p>	<p>12</p>
<p>Ventseslav ATANASOV Lyudmila VELKOVA Lubka TANCHEVA Aleksander DOLASHKI Reni KALFIN Pavlina DOLASHKA</p>	<p>L11 PROTEOMIC ANALYSIS ON SCOPOLAMINE RAT MODEL OF ALZHEIMER'S DISEASE WITH APPLICATION OF SNAIL EXTRACT AS NEUROPROTECTIVE AGENT</p>	<p>14</p>
<p>Neda ANASTASSOVA Denitsa STEFANOVA Magdalena KONDEVA-BURDINA Nadya HRISTOVA-AVAKUMOVA</p>	<p>L12 NEUROPROTECTIVE AND ANTIOXIDANT PROPERTIES OF 5- METHOXYINDOLE-HYDRAZONE HYBRIDS AS POTENTIAL MULTI-TARGET DRUGS FOR THE TREATMENT OF NEURODEGENERATIVE DISORDERS</p>	<p>15</p>
<p>Dimitar SERBEZOV Sena KARACHANAK-YANKOVA Dragomira NIKOLOVA Marta MIHAYLOVA Lubomir BALABANSKI Vera DAMYANOVA Olga ANTONOVA Rada STANEVA Mihail GANEV Victoria SPASOVA Blaga RUKOVA Desislava NESHEVA Slavica JOSIFOVSKA Diana BELEJANSKA</p>	<p>L13 MARKEDLY ELEVATED POPULATION FREQUENCY OF TWO RARE VARIANTS ASSOCIATED WITH ALZHEIMER'S AND PARKINSON'S DISEASES IN PRE-CONTACT CARIBBEAN COMMUNITIES</p>	<p>16</p>

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Mariya PETROVA Shima MEHRABIAN Latchezar TRAYKOV Savina HADJIDEKOVA Draga TONCHEVA		
Dragomira NIKOLOVA Draga TONCHEVA	L14 A NECESSITY FOR EXPANDING THE NEWBORNS' SCREENING PANEL IN BULGARIA –COMPARISON WITH OTHER COUNTRIES FROM EUROPE AND WITH USA	19
Yana TOPALOVA team of the Clean&Circle	L15 SCIENTIFIC AND TECHNOLOGICAL ACHIEVEMENTS OF CENTER OF COMPETENCE” CLEAN TECHNOLOGIES FOR SUSTAINABLE ENVIRONMENT – WATER, WASTE, ENERGY FOR CIRCLE ECONOMY”	20
Boyko TSYNTSARSKI Bilyana PETROVA Ivanka STOYCHEVA Georgi GEORGIEV Angelina KOSATEVA Nartzislav PETROV Urszula SZELUGA Teodor SANDU	L16 METHODS FOR ELEMENTAL ANALYSIS OF CARBON MATERIALS	21
Ivanka STOYCHEVA Bilyana PETROVA Angelina KOSATEVA Georgi GEORGIEV Boyko TSYNTZARSKI Pavlina DOLASHKA	L17 TG-DSC ANALYSIS OF VARIOUS ORGANIC MATERIALS	23
Petar PETROV Karina MARINOVA Nartsislav PETROV Angelina KOSATEVA Valentina LYUBOMIROVA	L18 WATER FROM MINERAL SPRINGS – COMPOSITION AND HEALING POTENTIAL	24
G. ISSA M. DIMITROV S. P. MARINOV N. VELINOV I. SPASOVA D. KOVACHEVA T. TSONCHEVA	L19 ACTIVATED CARBON FROM USED MOTOR OILS: SYNTHESIS AND APPLICATION AS SUPPORTS OF NANOSIZED Fe-Cr OXIDES	25
Hristiyana KANZOVA Plamen MITOV Elina TSVETANOVA Almira GEORGIEVA Madlena ANDREEVA Georgi PRAMATAROV Albena ALEXANDROVA	L20 CAPACITY OF THE ALIEN PACIFIC OYSTER TO ADAPT TO THE MARINE ENVIRONMENT OF THE BULGARIAN BLACK SEA AREA	26

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Nesho CHIPEV		
Hyusein YEMENDZHIEV Yana MERSINKOVA Valentin NENOV	L21 MODIFIED PROCEDURE FOR IMMOBILIZATION OF ELECTROCHEMICALLY ACTIVE BACTERIA ON CARBON CLOTH ELECTRODES	28
Angelina KOSATEVA Ivanka STOYCHEVA Bilyana PETROVA Boyko TSYNTZARSKI Pavlina DOLASHKA	L22 RAMAN MICROSCOPE AS POWERFUL TOOL FOR THE STUDY OF CARBON MATERIALS, BIOLOGICAL OBJECTS AND MICROORGANISMS FOR WATER PURIFICATION	29
Martin TSVETKOV Maria MILANOVA	L23 MECHANOCHEMICAL SYNTHESIS OF La_{1-x}Ce_xFeO₃ FOR PHOTO-FENTONLIKE ACTIVATION OF PEROXYDISULFATE	30
Olga ANTONOVA Victoria SPASOVA B. GERASIMOVA Savina HADJIDEKOVA D. NAJDENOVA	L24 DISTRIBUTION OF SNPS RELATED TO SOCIALY-SIGNIFICANT DISORDERS IN BULGARIAN POPULATION– A PILOT STUDY	31
Olga ANTONOVA MLADENOV B HAMMOUDEH Z. IVANOVSKI O SAIDI S PETRUSEVSKA G SLAVOV Ch YORDANOVA Z. D. PLASESKA- KARANFILSKA POPOV Zh GALABOV A TONCHEVA D.	L25 STRATEGY AND A FLEXIBLE WORKFLOW FOR BIOMARKER DETERMINATION AND POTENTIAL FOR TARGETED THERAPY IN BLADDER CANCER	32
Radostina ALEXANDROVA	L26 WAR OF THE WORLDS OR SCIENCE STRIKES BACK	34
Karina MARINOVA Petar PETROV Lyudmila VELKOVA Aleksandar DOLASHKI Stela ATANASOVA Bogdan RANGELOV Pavlina DOLASHKA	L27 METAL NANOPARTICLES FROM MEDICINAL PLANTS WITH ANTIBACTERIAL EFFECT	35
Lyudmila VELKOVA Aleksandar DOLASHKI Dimitar KAYNAROV Ventseslav ATANASOV Pavlina DOLASHKA	L28 NEW PEPTIDES FROM THE CORNU ASPERSUM MUCUS AND MECHANISM OF ANTIBACTERIAL ACTION - PROTEOME ANALYSIS	36
Nikolay G. VASSILEV Svetlana SIMOVA Miroslav DANGALOV Lyudmila VELKOVA	L29 COMPARATIVELY STUDY OF METABOLITES PROFILING OF HELIX ASPERSA MUCUS, HELIX LUCORUM HEMOLYMPH AND RAPANA VENOSA	37

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Venceslav ATANASSOV Aleksandar DOLASHKI Pavlina DOLASHKA	HEMOLYMPH USING 1H NMR AND MASS SPECTROMETRY	
Mihaela BELOUHOVA Nora DINOVA Ivaylo YOTINOV Irina SCHNEIDER Yovana TODOROVA Reni Kalfin	L30 FLUORESCENCE SYSTEMS FOR CONTROL OF THE MICROBIOLOGICAL PROCESSES IN THE CLEAN TECHNOLOGIES	38
Albena ALEXANDROVA Elna TSVETANOVA Almira GEORGIEVA Madlena ANDREEVA Hristiyana KANZOVA Georgi PRAMATAROV Nesho CHIPEV	L31 OXIDATIVE STRESS INDICES AS INTEGRATIVE TOOLS FOR ASSESSMENT OF THE ECOLOGICAL STATE OF BLACK SEA COASTAL ECOSYSTEMS: THE BIVALVE EXAMPLE	40
Delka SALKOVA Mariana PANAYOTOVA- PENCHEVA	L32 SITUATION AND CONTROL OF ECHINOCOCCOSIS IN BULGARIA OVER THE LAST TWENTY YEARS	41
Anika ALEXANDROVA Iskra PIROEVA Stela ATANASOVA- VLADIMIROVA	L33 INVESTIGATION OF MORPHOLOGICAL PROPERTIES OF ERYTHROCYTES IN EXPERIMENTAL MODELS OF BLOOD CLOTS IN PATIENTS WITH TYPE 2 DIABETES MELLITUS, USING SCANNING ELECTRON MICROSCOPE	42
Anika ALEXANDROVA Maria KYULAVSKA Nadia ANTONOVA	L34 EXAMINATION OF MORPHOLOGICAL AND MECHANICAL PROPERTIES OF ERYTHROCYTES IN PATIENTS WITH TYPE 2 DIABETES MELLITUS, USING ATOMIC FORCE MICROSCOPE	43
Aleksandar DOLASHKI	L35 PRODUCTS WITH SNAIL EXTRACT – WHEN SCIENCE MEET BUSINESS	44
Dessislava GERGINOVA Svetlana SIMOVA	P1 SUGAR PROFILE OF BULGARIAN HONEYS FROM BLACK SEA REGION BY NMR	45
Ekaterina KRUMOVA Pavlina DOLASHKA Kalina ALIPIEVA Tsvetelina DONCHEVA Radoslav ABRASHEV Aleksander DOLASHKI Lyudmila VELKOVA Jeny MITEVA-STALEVA Nadezda KOSTOVA Vladislava DISHLIJSKA Maria ANGELOVA	P2 SYNERGISTIC ANTIFUNGAL EFFECT OF ERIPIA VERRUCOSA FRACTIONS COMBINED WITH EXTRACTS FROM GENTIANA SP AND THYMUS VULGARIS	46

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Jeny MITEVA-STALEVA Alexander NIKOLOV Ekaterina KRUMOVA	P3 ANTIFUNGAL ACTIVITIES OF NATURAL AND MODIFIED ZEOLITES	48
Hedzhnan HADZHIISMAIL Olya STOILOVA	P4 ELECTROSPUN POLY (3- HYDROXYBUTYRATE) MATERIALS FOR REGENERATIVE MEDICINE	49
Kuentin RADEV Neda ANASTASSOVA Nadya HRISTOVA- AVAKUMOVA Denitsa YANCHEVA	P5 MODULATING THE OXIDATIVE STRESS DURING FE-INDUCED OXIDATIVE DEGRADATION OF LECITHIN AND DEOXYRIBOSE USING INDOLE-3- PROPIONIC ACID HYDRAZONE DERIVATIVES AND STUDY ON THEIR CHELATING PROPERTIES	50
Bilyana PETROVA Ivanka STOYCHEVA Angelina KOSATEVA Chemist Georgi GEORGIEV Boyko TSYNTZARSKI	P6 INVESTIGATION OF THE POROUS TEXTURE OF CARBON MATERIALS OBTAINED FROM DIFFERENT RAW MATERIALS AND TREATMENT CONDITIONS	51
Yuliana RAYNOVA Adriana KAZAKOVA Svetlana MOMCHILOVA	P7 RESEARCH ON THE INFLUENCE OF GAMMA-IRRADIATION ON ALMOND NUTS	52
Svetlana MOMCHILOVA Marina MARCHEVA Sabina TANEVA Ivan Aleksiev	P8 FAT CONTENT, FATTY ACIDS COMPOSITION AND QUALITY OF 52 GENOTYPES OF CAMELINA SATIVA GROWN IN BULGARIA	53
Antoaneta TRENDAFILOVA Zhanina PETKOVA Plamena STALEVA Viktoria IVANOV Georgi GERGINOV Vladimir DIMITROV	P9 PHENOLIC COMPOUNDS AND ANTIOXIDANT ACTIVITY OF DRY ROSE EXTRACT, A NEW BY-PRODUCT FROM ROSE CONCRETE PRODUCTION	54
Viktoria IVANOVA Boryana TRUSHEVA Mariana KAMENOVA- NACHEVA Sava TABAKOV Svetlana SIMOVA Antoaneta TRENDAFILOVA	P10 CHEMICAL COMPOSITION AND ANTIOXIDANT CAPACITY OF THE FRUIT SKINS OF EUROPEAN PLUM CULTIVAR “ČAČANSKA LEPOTICA” INFLUENCED BY DIFFERENT ROOTSTOCKS	55
Elena STOYANOVA Antoaneta TRENDAFILOVA Viktorya IVANOVA Ina ANEVA Kalina DANOVA	P11 ANTICANCER POTENTIAL AND MAIN PHYTOCHEMICAL COMPONENTS OF WILD COLLECTED HYPERICUM SPECIES FROM BULGARIA	56

**8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC
RESEARCH CONFERENCE**

<p>Adriana SLAVOVA-KAZAKOVA Magdalena KARAMAĆ Katarzyna SULEWSKA Petko DENEV Ryszard AMAROWICZ Michał ADAM JANIĄK</p>	<p align="center">P12 BUCKWHEAT (FAGOPYRUM ESCULENTUM MOENCH) BY-PRODUCTS AS A SOURCE OF ANTIOXIDANT COMPOUNDS</p>	<p align="center">57</p>
<p>Marina MARCHEVA Mariana PETKOVA Tanya PETROVA Vladislav POPOV</p>	<p align="center">P13 MICROBIAL CONSORTIUM WITH NITROGEN-FIXING AND MINERAL SOLUBILIZING ACTIVITIES FOR THE GROWTH OF CAMELINA (CAMELINA SATIVA L. CRANTZ)</p>	<p align="center">58</p>
<p>Marina MARCHEVA Vladislav POPOV Mariana PETKOVA Jordan JORDANOV Atanas SEVOV Nesho NESHEV Plamen ZOROVSKI Slaveya PETROVA Rada POPOVA Georgy STANCHEV Milena DIMOVA Pavlin VASILEV Petar BORISOV</p>	<p align="center">P14 DEVELOPING INTERCROPPING SYSTEMS WITH CAMELINA TO INCREASE THE YIELD AND QUALITY PARAMETERS OF LOCAL UNDERUTILIZED CROPS – BULGARIAN PARTICIPATION IN NEW CORE ORGANIC PROJECT</p>	<p align="center">59</p>
<p>Lubomir Petrov Elina Tsvetanova Almira Georgieva Albena Alexandrova Georgi Pramatarov Hristiyana Kanzova Madlena Andreeva Olya Stoylova Lyudmila Velkova Aleksandar Dolashki Pavlina Dolashka</p>	<p align="center">P15 BIOLOGICALLY ACTIVE SUBSTANCES ISOLATED FROM MARINE ORGANISMS WITH POTENTIAL ROLE IN THE THERAPY OF PATHOLOGICAL CONDITIONS WITH OXIDATIVE STRESS ETIOLOGY</p>	<p align="center">61</p>
<p>Elina TSVETANOVA Almira GEORGIEVA Madlena ANDREEVA Georgi PRAMATAROV Hristiyana KANZOVA Yordan RAEV Konstantin PETROV Dimitar DIMITROV Violin RAYKOV Albena ALEXANDROVA Nesho CHIPEV</p>	<p align="center">P16 OXIDATIVE STRESS AS A MEASURE OF THE ADAPTIVE CAPACITY OF ECONOMICALLY IMPORTANT FISH TO DIFFERENT ENVIRONMENTAL CONDITIONS OF THE BULGARIAN BLACK SEA</p>	<p align="center">63</p>
<p>Dragomira NIKOLOVA Sena KARACHANAK-YANKOVA</p>	<p align="center">P17 RARE EXOME VARIANTS ASSOCIATED WITH FRONTOTEMPORAL DEMENTIA IN BULGARIAN PATIENTS</p>	<p align="center">65</p>

**8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC
RESEARCH CONFERENCE**

<p>Dimitar SERBEZOV Marta MIHAYLOVA Diana BELEZHANSKA Shima MEHRABIAN Maria PETROVA Latchezar TRAYKOV Savina HADJIDEKOVA Draga TONCHEVA</p>		
<p>Marta MIHAYLOVA Dimitar SERBEZOV Lubomir BALABANSKI Sena KARACHANAK- YANKOVA Dragomira NIKOLOVA Mihail GANEV Vera DAMYANOVA Desislava NESHEVA BLAGA RUKOVA Diyana BELEZHANSKA S. MEHRABIAN M. PETROVA L. TRAYKOV Savina HADJIDEKOVA Draga TONCHEVA</p>	<p align="center">P18 THE GENETIC ARCHITECTURE OF UNSPECIFIED DEMENTIA - RARE EXOME VARIANTS</p>	<p align="center">67</p>
<p>Sena KARACHANAK- YANKOVA Dragomira NIKOLOVA Marta MIHAYLOVA Dimitar SERBEZOV Lubomir BALABANSKI Vera DAMYANOVA Olga ANTONOVA Rada STANEVA Mihail GANEV Victoria SPASOVA Blaga RUKOVA Desislava NESHEVA Slavica JOSIFOVSKA Diana BELEJANSKA Mariya PETROVA Shima MEHRABIAN Latchezar TRAYKOV Savina HADJIDEKOVA Draga TONCHEVA</p>	<p align="center">P19 DETECTION OF PATHOGENIC VARIANTS IN ALZHEIMER'S DISEASE RELATED GENES IN BULGARIAN PATIENTS BY POOLED WHOLE EXOME SEQUENCING</p>	<p align="center">69</p>
<p>Irena ZAGRANYARSKA Ivaylo SLAVCHEV Ivanka NIKOLOVA Petar GROZDANOV Igljika LESSIGIARSKA</p>	<p align="center">P20 DIARYLEETHERS AND THEIR ANALOGUES AS POTENTIAL ANTIVIRAL AGENTS – SYNTHESIS AND COMPUTATIONAL STUDIES</p>	<p align="center">71</p>

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Ivanka TSAKOVSKA Georgi M. DOBRIKOV		
Inna SULIKOVSKA Ivan ILIEV Rossitsa HRISTOVA Mashenka DIMITROVA Anelia VASILEVA Ivaylo IVANOV	P21 EXTRACTION AND ANTITUMOR ACTIVITY OF HIGH-MOLECULAR HYDROLYZABLE GALLOTANNINS FROM COTINUS COGGYGRIA SCOP.	73
Zhanina PETKOVA Ivaylo SLAVCHEV Yavor MITREV Violeta VALCHEVA Georgi M. DOBRIKOV	P22 SYNTHESIS OF NEW ARYLIDENECAMPHORS AND PYRIMIDINES WITH CAMPHANE SKELETON – STRUCTURAL CHARACTERIZATION AND COMPLEX EVALUATION OF THEIR ANTIBACTERIAL ACTIVITY AND CYTOTOXICITY	74
Spartak Yanakiev Stefan Velikov Nadejda Kostova- Kamburova Mila Moskova Elina Micheva	ATTITUDES OF THE STUDENTS OF THE "DENTAL TECHNICIAN" SPECIALTY AT MEDICAL COLLEGE "Y. FILARETOVA" ON THE USE OF CAD/CAM TECHNOLOGIES.	75
Svetlana Məmmədova	POSSIBILITIES OF PROCESSING MODAL VERBS IN ENGLISH	76
Seçil Özdemir	THE PRACTICES OF MOHAMMAD REZA SHAH: THE INFRASTRUCTURE OF A REVOLUTION	78
Cengiz CEYLAN	IMPORTANCE OF LAPAROSCOPIC SURGERY IN PEPTIC ULCER PERFORATIONS	80
Öznur Biricik Burcu Aytekin Ali Mardani	UTILIZATION OF WASTE POWDER IN CEMENTITIOUS SYSTEMS	82
İhsan ÇAPCIOĞLU Aygün ALİYEVA	A SOCIOLOGICAL ASSESSMENT ON THE CONCEPTIONS OF VIOLENCE, WAR AND TERROR	83
Aslıhan KORKMAZ Yusuf Kağan KADIOĞLU	RAMAN CHARACTERISTICS OF MINERALS IN METAMORPHISM PROCESSES: FILLOSILICATE MINERALS	85
Aylin GEÇER	INTERPRETATION OF CLAY, GRAIN SIZE, PETROPHYSICAL PARAMETERS, AND ATR-FTIR SPECTRA IN SANDSTONE RESERVOIR, NORTHWEST OF THRACE BASIN, TURKEY	87
Adirek Vajrapatkul Piyasiri Ruangsrimum	MODELING AND FORECASTING THE TOP 5 CRYPTOCURRENCIES' RETURN	88
Adirek Vajrapatkul Pithak Srisuksai	THAILAND'S EFFICIENCY AND PRODUCTIVITY IN DRIVING GDP	89

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Elizaveta Sagajdachnaya Abrossimova Larissa Martinenko Elena	THE INTERCONNECTION OF INTERNAL MOTIVATION OF STUDENTS AND THE PREFERRED TYPES OF THE TASKS IN A DIGITAL ENVIRONMENT OF AN ENGLISH CLASS	90
Svetlana MIHOVA Valentina DONCHEVA Kremena STEFANOVA Violin RAYKOV Mariela DAMYANOVA Elitsa STEFANOVA Mariya YANKOVA Dimitar DIMITROV	PLASTIC INGESTION BY MULLUS BARBATUS FROM THE BLACK SEA	91
Alsu SHAKMAEVA	MATHEMATICS AND EMOTIONS: MATHEMATICS ANXIETY AND AN EXPLORATION OF INTERVENTION STRATEGIES	92
Kamar ZAIEM Hichem BOURAS Mohamed Faouzi RACHEDI	A GEAR FAULT DIAGNOSIS USING A COMPARISON OF EMPIRICAL SIGNAL TECHNIQUES WITH ANFIS	93
İsmühan POTOĞLU ERKARA Okan SEZER	PALYNOMORPHOLOGICAL CHARACTERIZATION OF THE KAZDAĞI RARE ENDEMIC ARMERIA TROJANA BOKHARI & QUÉZEL	94
İsmühan POTOĞLU ERKARA Okan SEZER	COMPARATIVE POLEN MORPHOLOGY OF SOME JASMINUM L. (OLEACEAE) TAXA GROWING IN ESKİŞEHİR	95
Bircan ÇALIŞIR	INVESTIGATION OF DL PERFORMANCE FOR OFDM AND NOMA SYSTEMS	96
Abbas KARAAĞAÇLI Aleyna BİNAY	SURPRISING ARCHITECTURAL FEATURES AND VITAL FUNCTIONS OF IMERA MONASTERY AND SIMILAR HISTORICAL REMAINS IN GÜMÜŞHANE HELL CREEK VALLEY CANYON	98
Şükrü KARATAŞ	TEMPERATURE-DEPENDENT ANALYSIS OF THE IDEALITY FACTOR AND BARRIER HEIGHTS OF AL/GO/p-TYPE SI METAL SEMICONDUCTOR STRUCTURES	100
Şükrü KARATAŞ	TEMPERATURE-DEPENDENT ANALYSIS OF THE IDEALITY FACTOR AND BARRIER HEIGHTS OF AL/(GO:PTCDA)/p- TYPE SI METAL SEMICONDUCTOR STRUCTURES	101
Ralitzza KOLEVA Gergana PEEVA Hyusein YEMENDZHIEV Valentin NENOV	STRUVITE FROM WASTE. TECHNOLOGY AND PRODUCT IMPROVEMENT	102

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Güldane AKILLI Yusuf Kağan KADIOĞLU	DETERMINATION OF GRAPHITE MINERAL PROPERTIES BY RAMAN SPECTROSCOPY: KIRKLARELİ DEMİRKÖY, TÜRKİYE	104
Fatma Nur ERCAN Yusuf Kağan KADIOĞLU	INVESTIGATION OF KARSTIFICATION AND CAVE FORMATIONS BY RAMAN AND SEM METHODS: TULUMTAŞ CAVE, ANKARA, TÜRKİYE	106
Ömer AKSOY Rahmi BAKİ	FACTORS AFFECTING USERS' BEHAVIORS FOR ONLINE HOTEL BOOKING	108
Ahmet TUNA Serap YİĞİT GEZGİN Yasemin GÜNDOĞDU Hamdi Şükür KILIÇ	SIMULATION AND DESIGN OF A HG/CD/TE HOMOJUNCTION INFRARED PHOTODETECTOR	110
Sedat AKTAŞ Egemen ULUSOY Remzi YILDIRIM	TACTICAL: RAM IMAGE RETRIEVAL IN LINUX USING PROTECTED MODE ARCHITECTURE'S PAGING TECHNIQUE	111
Büşra ÇELİK Kıymet DENİZ	PROPERTIES AND USAGE OF PERLITES OF CUBUK (ANKARA-TURKEY) AS INDUSTRIAL RAW MATERIAL	114
Seda SABAH Soner ÇANKAYA	INVESTIGATION OF SELF FEAR LEVELS OF AMATEUR AND PROFESSIONAL ATHLETES	116
Çiğdem YEL	DIGITALISATION IN THE FIELD OF HEALTH	118
Müberra YILDIZ Aslı YİĞİT	NUTRIGENETIC AND NUTRIGENOMIC APPROACHES TO IMPROVE CARDIOMETABOLIC HEALTH	120
Aslı YİĞİT Müberra YILDIZ	EFFECTS OF TIME-RESTRICTED FEEDING MODEL IN OBESITY TREATMENT	122
Öznur DÜLGER KUTLU	SYNTHESIS, CHARACTERIZATION AND PHOTOPHYSIOCHEMICAL INVESTIGATION OF MAGNESIUM PHTHALOCYANINE WITH QUINOLINE FUNCTIONAL GROUPS	124
Fırat AKAT Yakup TATAR Hümeyra ÇELİK Hakan FIÇICILAR Ali Doğan DURSUN Metin BAŞTUĞ	THE EFFECT OF EXERCISE ON ISCHEMIA/REPERFUSION INJURY AND MYOKINE PROFILE IN DIABETIC CARDIOMYOPATHY	126
Okan UÇARLI	INVESTIGATION OF CATALYTIC EFFECT OF NITRITE ON COBALT HYDROXYNAPHTHOL BLUE COMPLEX WITH GRAPHITE AND GRAPHENIZED ELECTRODE BY ELECTROCHEMICAL METHODS	127

**8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC
RESEARCH CONFERENCE**

Yasemin OYACI Mehmet BEKERECİOĞLU Sacide PEHLİVAN	INVESTIGATING THE rs33989964 VARIANT AND THE PROMOTER REGION METHYLATION STATUS OF SOCS-1 GENE IN TURKISH PATIENTS WITH MICROTIA	129
Sacide PEHLİVAN Seda TURAL ÖNÜR Yasemin OYACI Neslihan Boyracı Mustafa Pehlivan	INVESTIGATED THE IL-1 RECEPTOR ANTAGONIST (IL-1RN) AND INTERLEUKIN-4 (IL-4) VNTR PROFILES IN PULMONARY EMBOLISM PATIENTS	131
Yıldırım İsmail Tosun	SYNGAS H₂ REFORMING IN DOUBLE COLUMN WASTE GASIFIER WITH MICROWAVE CHAMBER THERMOCATALYTIC TAR CRACKING USING FE₂O₃-SUPPORTED PBO/ZNO CATALYST	133
Yıldırım İsmail Tosun	MICROWAVE BUBLING SYNGAS REFORMING ON BIOMASS PYROLYSIS TAR BY SERPENTINITE GRANULES IN SALT/CHAR/CARBON SEMI-MOLTEN SALT	134
Sibel BÖLEK	DETERMINATION OF BIOACTIVE COMPOUNDS IN TRABZON PERSIMMON PITS AND INVESTIGATION OF POTENTIAL USES IN FUNCTIONAL FOOD PRODUCTION	136
Sibel BÖLEK	EFFECTS OF FLUIDIZED BED ROASTING ON BIOAVAILABILITY AND ANTINUTRITIONAL FACTORS OF SACHA INCHI (<i>Plukenetia volubilis</i>)	138
Husni Muhammed Hasan Suad Yousif Alkass Kajeen Hassan Jasim Yousif Ali Daniele Suzete Persike de Oliveira	INTERNALLY DISPLACED YAZIDE WOMEN IN NORTHERN IRAQ: PTSD AND PHYSIOLOGICAL DISTURBANCE	140
Viswan M.G. Sreeja Sukumar K	KEY DETERMINANTS OF IPO INITIAL RETURNS IN INDIA	141
AnaMaria BACIU Corina ORHA Sergiu VASILIE Mircea Nicolaescu Florica MANEA	COMPARATIVE ASSESSMENT OF POROUS UNDOPED AND DOPED (Sb, La, F) TIN OXIDES FOR DEGRADATION AND MINERALIZATION OF DOXORUBICIN FROM WATER	142
Mohammad Owais Farooqui Mohd Imran Siddiquei	A SOCIO-LEGAL STUDY ON VACCINE TOURISM IN THE CONTEXT OF CURRENT COVID-19 TRAVEL RESTRICTIONS	143

**8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC
RESEARCH CONFERENCE**

Aniela POP Mina Ionela POPESCU Corina ORHA AnaMaria BACIU Florica MANEA	ASSESSMENT OF COMMERCIAL GRANULAR ACTIVATED CARBON FOR SORPTION OF CAPECITABINE FROM WATER	144
Özcan SEZER Leyla UMA	AN ASSESSMENT OF THE FUNCTION OF CITY COUNCILS IN THE DEVELOPMENT OF LOCAL POLITICAL PARTICIPATION	145
Arif Ertuğ TAŞKIN Selda ÇELİK Feride TAŞKIN YILMAZ	THE EFFECT OF THE COVID-19 PANDEMIC ON THE PROCESS OF APPLICATION TO HEALTH INSTITUTION OF PATIENTS WITH ACUTE MYOCARDIC INFARTUS	147
Feride TAŞKIN YILMAZ Selda ÇELİK	THE RELATIONSHIP WITH EMERGENCY SERVICE ADMISSION AND HOSPITALIZATION OF DIABETES EDUCATION IN PATIENTS WITH TYPE 2 DIABETES	149
Anatolii Bezpalenko	DISTRIBUTION OF VOWELS IN INDO- EUROPEAN ROOT IN PROBABILISTIC ASPECT. BAYES'THEOREM	151
Shanu M A Mbochi C. A Labbo Z	COMPARATIVE ASSESSMENT OF GESTATIONAL WEIGHT GAIN, SUPPLEMENT USED AND IRON STATUS AMONG PREGNANT WOMEN FROM PUBLIC AND PRIVATE HOSPITALS IN KADUNA STATE, NIGERIA	152
Sophio Demetrashvili Mariam Jikia	THE CORRELATION OF DISPROPORTIONALITY OF ELECTORAL DISTRICTS AND EQUALITY PRINCIPLE IN PARLIAMENTARY ELECTIONS OF GEORGIA	154
Uğur DURAN	ON GOULD-HOPPER BASED FULLY DEGENERATE TYPE2 POLY- FROBENIUSGENOOCHI POLYNOMIALS WITH A q PARAMETER	155
Ahmet FEYZİ Oğuzhan Şafak KURT	A FIELD STUDY ON THE DETERMINATION OF BAĞLAMA PLAYING TERMS USED IN BAĞLAMA EDUCATION BUT NOT IN THE LITERATURE	156
Ahmet FEYZİ Oğuzhan Şafak KURT	AN EXAMPLE FIELD STUDY ON THE DETERMINATION OF BALGING TERMS THAT HAVE THE SAME MEANING BUT WITH DIFFERENT NOMINATIONS	158
Aleksandra SANCANIN Sofija SANCANIN Branislav SANCANIN	THE SIDE EFFECTS OF BREAST CANCER RADIOTHERAPY	160

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Rodolfo Reda Alessio Zanza Dario Di Nardo Marco Seracchiani Luca Testarelli	CYTOTOXICITY ANALYSIS OF TWO DIFFERENT TREATED PORCINE DERMAL MATRICES	161
Ophelia KANEVA	HORIZONTAL SUPPORT FOR TEACHERS THROUGH MODERN APPROACHES	162
Felicia ANDREI Simona DRAGAN Dan GAITA	ANTITHROMBOTIC AND ANTICOAGULANT PROPERTIES OF LOCAL CULTIVATED FRUITS USED IN CARDIOPREVENTION	163
László, TÖRÖK	THE ROLE OF HOUSEHOLDS AND NON- PROFIT ORGANIZATIONS IN HELPING THEM FINANCING THE STATE'S GROSS CONSOLIDATED DEBT IN THE EUROPEAN UNION	164
Kajeen Hassan Jasim Suad Yousif Alkass Husni Muhammed Hasan Yousif Ali Daniele Suzete Persike de Oliveira	INTERNALLY DISPLACED YAZIDE WOMEN IN NORTHERN IRAQ: PTSD AND HORMONAL EVALUATION	165
Vanya MANTAREVA Ivan ILIEV Inna SULIKOVSKA Ivan ANGELOV	COBALT PORPHYRINOID COMPLEX (B12) WITH OPTIONAL NONPHOTODYNAMIC ANTICANCER ACTIVITY	166
Pavlo SELEZEN	FEATURES OF DOMESTIC REGULATION OF SPECIFIC CASE MUTUAL AGREEMENT PROCEDURE ON THE BASIS OF DOUBLE TAXATION TREATIES IN UKRAINE	167
MOMOZOKU, Umaru Salihu TIJJANI, Ahmed Asabe	PROBLEMS INHIBITING MATHEMATICS EDUCATION IN PRIMARY SCHOOLS	168
Herbert Tumusiime Alex Barakagira Amos Ronald Kalukusu	IMMUNIZATION COVERAGE AGAINST DISEASES AMONG CHILDREN AGED FIVE YEARS AND BELOW IN MAWOGOLA HEALTH SUB-DISTRICT, SEMBABULE DISTRICT, UGANDA.	169
İsmail BAKAN Halil İbrahim OLUCAK	IS ORGANIZATIONAL CITIZENSHIP BEHAVIOR EFFECTIVE IN INNOVATIVE WORK BEHAVIOR?	170
Tacettin GEÇKİL Mehmet Mahmut TANYILDIZI Ceren Beyza İNCE	THE EFFECT OF BLAST FURNACE SLAG- ADDITIVE CONCRETES ON ROAD PAVEMENT THICKNESS FOR DIFFERENT BASE SOILS	172
Sultan ACUN Hülya GÜL	ANTIOXIDANT ACTIVITIES AND TOTAL PHENOLIC CONTENTS OF KARAKILÇIK WHEATS GROWN IN DIFFERENT REGIONS OF TURKEY	174

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Hüseyin CİHAN	HEMATOLOGIC PARAMETERS OF WILD BUZZARDS (BUTEO BUTEO, B. RUFINUS) IN TURKIYE	176
Burçin SALTIK Mehmet YENİOCAK	DETERMINATION OF SOME MECHANICAL PROPERTIES OF WOOD MATERIALS DRY WITH MICROWAVE TECHNOLOGY	178
Nurten ELKİN Emel ÖNAL Bedia A. ÖZYILDIRIM Gülbin GÖKÇAY	RESEARCH ON SERVICES REQUESTS AND UTILISATION STATUS AND SATISFACTION IN A FAMILIY HEALTH CENTER IN ISTANBUL	180
Mohammed ISA ISA Çilen ERÇİN	EVALUATION OF QUALITY OF PUBLIC OPEN SPACES FOR THE ELDERLY PEOPLE: A CASE STUDY OF BARIŞ MANÇO PARK, TRNC	182
Arif PARMAKSIZ	PHYLOGENETIC ANALYSIS OF CARASO BARBUS LUTEUS (HECKEL, 1843)	184
Merve KAPLAN Bülent DEMİR AĞ Sinan ÇAVUŞOĞLU	EXAMINING THE RELATIONSHIP BETWEEN BRAND IMAGE, BRAND PERSONALITY, BRAND TRUST AND BRAND LOYALTY: A RESEARCH FOR CONSUMERS USING DOMESTIC CAR BRANDS MANUFACTURED IN TURKEY	185
Ahmet KÜÇÜK Erkan TOPKAN	HIGH PRE-CHEMORADIO THERAPY PAN - IMMUNE- INFLAMMATORY VALUE MEASURES INDICATE DIMINISHED SURVIVAL OUTCOMES IN LOCALLY ADVANCED NASOPHARYNGEAL CANCERS	187
Muzaffer ASLAN Ömer Faruk ALÇİN	CLASSIFICATION OF HOUSEHOLD APPLIANCES BY STATISTICAL FEATURES	189
Yelda EGELİ	THE PROCESS OF BUILDING A DESIGNER BRAND THE EXAMPLE OF BARBAROS APAYDIN AND GÖKHAN SLOW	191
Akın TEMÜR	SAMSUN-VEZİRKÖPRÜ NEOKLAUDIOPOLIS ANCIENT CITY AND TERRITORY SURVEYS AND RESULTS	193
Ahmet Niyazi ÖZKER	ISSUES AND POST CORONA-19 FISCAL PROJECTIONS TO GLOBAL FISCAL RISK MANAGEMENT IN EMERGING ECONOMIES	195
Juanita GOICOVICI	LEGAL ASPECTS CONCERNING THE HYBRID PRODUCT CONFORMITY ASSESSMENT SYSTEM: OBJECTIVE CONFORMITY VS. SUBJECTIVE CONFORMITY	196
NAMAZOV NIZAM RZA	ANTIMICROBIAL PROPERTIES OF COMPOSITION OF ESSENTIAL OILS OF DIFFERENT ESSENTIAL PLANTS WITH DIFFERENT MAJOR COMPONENTS AND WHITE NAFTALAN (NAPHTHALANE) OIL	197

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Iskra Sainova Iliana Ilieva	CHANGES IN THE LEVELS OF ANTI- OXIDANT PEPTIDE GLUTATHIONE IN VARYING IN VITRO CONDITIONS	199
Mariam Jikia Khatia Vasadze	CHALLENGES OF THE CONFLICT IN ABKHAZIA IN NEGATIVE PEACE CONDITIONS	200
Lili Petriashvili	APPLICATION OF ARTIFICIAL INTELLIGENCE IN BIOINFORMATICS	201
Özkan YAVAŞ Senem Esin YAVAŞ Elif Rana YILDIZ	A CASE OF POST-INFECTIOUS EXTERNAL HYDROCEPHALY DUE TO BACTERIAL ENCEPHALITIS IN A KITTEN	202
Uğur DURAN	ON HERMITE-BELL BASED STIRLING NUMBERS OF THE FIRST AND SECOND KINDS	204
Ivaylo Slavchev Maria Schröder Maria Petrova Zlatina Vlahova Georgi M. Dobrikov Evdokia Pasheva Iva Ugrinova	IN VITRO ANTICANCER ACTIVITY OF TWO CAMPHOR DERIVATIVES AGAINST LUNG CANCER CELLS	206
Mert Kutluk	REDEFINING THE PHOTOGRAPHER IN THE AGE OF COMPUTATIONAL PHOTOGRAPHY. CASE STUDY ON SMARTPHONE PHOTOGRAPHY APPLICATIONS	208
Mina Abdulaal Abdulazeez ABDULAZEEZ Ayşe Elif BÜYÜKBAYRAM	EXTRACTION AND PURIFICATION OF POLYPHENOL OXIDASE ENZYME FROM SIRTIGÖKÇE MUSHROOM (<i>Russula Cyanoxantha</i>, L.)	209
Ensar YILMAZ	A SOCIOLOGICAL ASSESSMENT OF THE RELATIONSHIP BETWEEN URBANIZATION AND CRIME	211
Esen DURMUŞ Müşerref Kübra KINACI Dilan KURUYER	THE OPINIONS OF TEACHER CANDIDATES ON SUSTAINABLE ECOLOGICAL RESPONSIBILITY	213
Vesile YALÇIN Hülya TORUN	THE PROTECTIVE EFFECT OF INDOLE-3- ACETIC ACID AGAINST CADMIUM STRESS IN REDROOT PIGWEED (<i>Amaranthus retroflexus</i> L.)	215
Vesile YALÇIN Hülya TORUN	THE EFFECTS OF EXOGENOUS MELATONIN ON DROUGHT TOLERANCE IN SUNFLOWER (<i>Helianthus annuus</i> L.)	217

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

SURESH KUMAR SUBBARAYALU MURALIDHAR MANAPURAM	MATERIAL SELECTION FOR LIGHT MOTOR VEHICLE PISTON FOR 3 DIMENSIONAL PRINTING BY ANALYTICAL HIERARCY TECHNIQUE	219
Margaretha MONALISA Mada Triandala SIBERO Agus SABDONO	GORGONIAN <i>Ellisella</i> sp.-ASSOCIATED BACTERIA AS A PROMISING ANTIPATHOGENIC AGENT AGAINST SKIN DISEASES IN HUMANS	220
Shabab Sarvar	ASIAN SECURITY PARADIGM: A CASE OF COMPETING INTERESTS OF INDIA AND CHINA	221
Ivan PAVLOVIC Violeta CARO PETROVIC Jovan BOJKOVSKI Narcisa MEDERLE Aleksandra Tasic	PREVALENCE OF GASTROINTESTINAL HELMINTS IN CATTLE IN NORTHEASTERN PART OF SERBIA (BANAT)	222
Vera Renta Siahaan Yeyen Damanik Renny Sinaga	DIFFERENCES IN THE KNOWLEDGE OF PREGNANT WOMEN ABOUT EXCLUSIVE BREASTFEEDING IN THE HEALTH DEVELOPMENT CLINIC IN SIMALUNGUN DISTRICT	223
Priti Chaudhari Bhumika Sharma Sanskriti Mishra	PARIS AGREEMENT IN INDIA: EFFORT TOWARDS MITIGATING CLIMATE CHANGE	224
Rui J.C. FERNANDES Raul D.S.G. CAMPILHO Rui B.P.M. MARQUES B. AUGUSTO	DEVELOPMENT OF A TESTING SETUP TO ESTIMATE THE PERMEABILITY OF COMPOSITE MATERIALS	225
Surayya BABIROVA	SOME SPECIFICS OF TRANSPORTATION OF ILL AND INJURED	226
Huzur DEVECİ	ESTIMATION OF WHEAT YIELD UNDER COMBINATIONS OF DIFFERENT CLIMATE PARAMETERS WITH THE LINTUL MODEL IN THE THRACE REGION	227
Sevil Aliyeva	EAST AND WEST: ROUTES OF CROSSING IN MODERN FASHION	229
Latika Choudhary	THE BLACK SEA AND NUCLEAR SECURITY -GAUGUNG THE CONCERN OF TRAFFICKING IN CONTESTED SPACES AND THE MULTINATIONAL POTENTIAL	231
Emine Sernur DURSUN Kıymet DENİZ	THE PROPERTIES OF THE IGNEOUS GRAVELS WITHIN THE ASMABOĞAZI FORMATION (AKSARAY), CENTRAL ANATOLIA, TURKEY	232
Fidan NƏSİROVA	FATHER OF IRANIAN CHILDREN'S POETRY – MOSTAFA RAHMANDOOST	234

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Mouad MOUHSIN Mustapha OUBENALI Samir CHTITA Mohamed MBARKI	QSAR AND DRUG-LIKENESS STUDIES OF THIADIAZOLE DERIVATIVES AGAINST LUNG CANCER	236
İsmail NANELİ	DETERMINATION OF ENGINEERING CHARACTERISTICS OF SOME VARIETIES OF DENT CORN (ZEA MAYS INDENTATA)	237
İNÇİ ERDOĞDU	THE IMPORTANCE OF CHINA'S "ONE BELT AND ROAD" PROJECT FOR BLACK SEA COUNTRIES: THE ROLE OF CONFUCIUS INSTITUTES IN THIS PROJECT	238
Məmmədova Əsmətəxanım Bəyəhməd qızı	HOMOPHONES – IN PHONETIC, DISTRIBUTIVE RESEARCHES	240
Gvantsa Geliashvili	LABOR RIGHTS AND CORPORATE SOCIAL RESPONSIBILITY IN GEORGIA DURING COVID PANDEMIC	242
Awaleh Djama ILTIREH Yusuf Kağan KADIOĞLU	PETROGENESIS OF INKI-GARAYTO BASALTS OF ASAL-GHOUBBET AREA, REPUBLIC OF DJIBOUTI.	243
Aleksandra Tasić Ivan Pavlović Milan Stevanović	THE INFLUENCE OF HMF FORMATION IN HONEY	245
Mediu Ridvana Ntovolis Konstantinos	THE ROLE OF MARKETING FOR EDUCATION SECTOR.	247
Oualid Rholam	HERMITE-HADAMARD INEQUALITIES FOR CONVEX STOCHASTIC PROCESS VIA FRACTIONAL INTEGRAL	248
Ben Ahmed Raja BOURIGA Nawzet Gammoudi Mehrez	EMBRYONIC DEVELOPMENT OF THE TURTLE BLOODFEEDING LEECH: PLACOBDELLA SP. (HIRUDINEA: GLOSSIPHONIIFORMES) FROM TUNISIA	250
S.N. Okey I.C.Okoli O.N. Okey	PERFORMANCE AND CARCASS CHARACTERISTICS OF BROILER CHICKENS FED DIETS SUPPLEMENTED WITH AGRICULTURAL WASTE-DERIVED ACTIVATED CHARCOAL	251
Zeynep Bilge ESEN	THE IMPORTANCE OF BOSPHORUS IN TERMS OF BLACK SEA COASTAL STATES AND THE EVALUATION OF THE TRANCID PASSAGE REGIME	252
Mehmet Emin KALGI	RELIGIOUS LIFE IN TERMS OF SOME VARIABLES (AGE AND GENDER)	253

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Radu KUNCSE Maria PARASCHIV Septimiu VALASUTEAN Marius ENACHE Malina PRISECARU	ALTERNATIVE BIOFUELS OBTAINED THROUGH PYROLYSIS OF PREPROCESSED MSW FROM URBAN LANDFILL	254
Radu KUNCSE Maria PARASCHIV Ana CRACICA Marius ENACHE Malina PRISECARU	HALOPHYTE PLANTS FOR SUSTAINABLE BIOENERGY PRODUCTION	256
Nedjla Khelfa Salah Belaidi Fatima Soaulmia Samir Chtita	DEVELOPMENT AND VALIDATION OF A PREDICTIVE QSAR-BASED ON ARTIFICIAL NEURAL NETWORK FOR EFFECTIVE DESIGN OF PFDHFR INHIBITORS	257
Maria PARASCHIV Carmen Gabriela CONSTANTIN Corina ITCUȘ Laura POPA Manuela SIDOROFF	EVALUATION OF THE WATER QUALITY OF THE DANUBE RIVER (THE SECTION CĂLĂRAȘI - BORCEA BRANCH – HÂRȘOVA - VADU OII, ROMANIA) - INITIAL STUDY	258
Carmen Gabriela CONSTANTIN Aurora DOBRIN Andrei PETRE Mugurași CONSTANTIN Maria PARASCHIV	FESTUCA ARUNDINACEA – A POTENTIAL CANDIDATE FOR RENEWABLE ENERGY	259
Mehrez GAMMOUDI Nawzet BOURIGA Raja BEN AHMED	FIRST DESCRIPTION FROM TUNISIAN WATERS OF BASEODISCUS DELINEATUS (DELLE CHIAJE, 1825) (NEMERTEA, PILIDIOPHORA)	260
Andrey POPATANASOV Asen ASENOV	CANOPY EFFECTS ON THE DISTRIBUTION OF ORCHIS PURPUREA HUDS. IN COAST AREAS NEAR PRIMORSKO	261
Andrey POPATANASOV Asen ASENOV	ORCHID FLORA OF THE SOUTHERNMOST BULGARIAN BLACK SEA COAST FLORISTIC REGION – CURRENT STATUS AND THREATS	262
Okafor Nestor Chika Ugwuoti, Amos Iloabuchi	COASTAL SURVEY AND MAPPING FOR THE SHORELINE RECLAMATION OF OBOLO- CREEK, AKWA-IBOM STATE, NIGER DELTA, NIGERIA	263
Daniele Suzete Persike de Oliveira	TYPE 2 DIABETES MELLITUS: CHOLINESTERASE ACTIVITY AND	264

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Hussein Mohammed Rashid Fouad Kasim Mohammad	OXIDATIVE STRESS	
Nahide DAKHCH	CONTRIBUTION TO A STUDY OF THE DETERMINANTS OF LOGISTICS PERFORMANCE: DEFINITION AND MEASUREMENT AN INVESTIGATION IN THE FOOD RETAILING SECTOR	265
Maria PARASCHIV Carmen Gabriela CONSTANTIN Aurora DOBRIN Andrei MOȚ Radu KUNCSE Ana CRACICA Marius ENACHE	SALICORNIA HERBACEA – PLANT SPECIES THAT CAN BE PRODUCED ON LANDS UNSUITABLE FOR TRADITIONAL AGRICULTURE	266
Maria PARASCHIV Carmen Gabriela CONSTANTIN Radu KUNCSE Ana CRACICA Marius ENACHE Malina PRISECARU	GREEN OPTION FOR MANAGING SALTED SOILS	268
Fattouche Maroua Belaidi Salah Soualmia Fatima Samir Chtita	DRUG DESIGN OF ISOTHIAZOLE DERIVATIVES AGAINST HCV IN A QSAR STUDY USING ARTIFICIAL NEURAL NETWORKS	270
I. AMEZIANE EL HASSANI H. ASSILA, K. KARROUCHI F. LAZRAK Y. RAMLI M. ANSAR	SYNTHESIS AND DESIGN OF NEW PYRAZOLE DERIVATIVES WITH POTENTIAL PHARMACOLOGICAL ACTIVITIES.	271
Musa Avni AKÇE Yusuf Kağan KADIOĞLU	RAMAN SPECTROSCOPIC CHARACTERISTICS OF MELANITE BEARING FOID SYENITES: YOZGAT INTRUSIVE COMPLEX	272
Nural Merve ERTEKİN Yusuf Kağan KADIOĞLU	EFFECTS OF HYDROTHERMAL ALTERATION OF ULTRAMAFIC ROCKS ON BIODIVERSITY: BEYNAM FOREST, ANKARA, TURKIYE	274
Yusuf Kağan KADIOĞLU Kiyemet Deniz Tamer Koaralay Bahattin Güllü	COMPARISON OF COARSE AND FINE CRYSTALLINE PYROXENES WITHIN THE KARAKAYA GABBRO, CENTRAL ANATOLIA	276
Cem GÜLER Sena Esen BAYER KESKİN	A NOVEL TWO-ELEMENT ARRAY WITH DGS FOR 5G APPLICATIONS	278

8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE

Muhammed SAMANCI	IMPORTANCE OF PUBLIC FINANCE IN EXTRAORDINARY PERIODS: CASE OF TURKEY	280
Elizaveta Sagajdachnaya Elizaveta Sagajdachnaya Ryabikina Elena	THE USE OF NEURO-LINGUISTIC PROGRAMMING TECHNOLOGIES IN EDUCATIONAL PODCASTS AND ADVERTISING TITLES OF EDUCATIONAL PLATFORMS	282
Elizaveta Sagajdachnaya Elizaveta Sagajdachnaya Victoria Cheremina	FEATURES OF THE SPEECH STRATEGIES OF THE RUSSIAN PRESIDENT V.PUTIN	285
Gülşah ÖZDEMİR	THE CHANGE OF DETECTION AND EDUCATION OF GIFTED/TALENTED CHILDREN IN THE VISUAL ART FROM THE RENAISSANCE TO THE PRESENT	287
Lyubka PASHOVA Liliya DIMITROVA Emil OYNAKOV Davis DINKOV	REVIEW OF TSUNAMI RESEARCH ON THE BULGARIAN BLACK SEA COAST	289
Esen DURMUŞ Dilan KURUYER Müşerref Kübra KINACI	THE ANALYSIS OF THE STUDIES CONDUCTED IN TURKEY ON EVIDENCEBASED EDUCATION	290
Cüneyt TAŞKIN Umut CANLI	ADAPTATION STUDY OF THE LEISURE ATTITUDE SCALE TO THE FIELD OF SPORTS SCIENCES	292
Cüneyt TAŞKIN Umut CANLI	ATTITUDES OF SPORTS SCIENCES STUDENTS ABOUT LEISURE TIME ACTIVITIES	294
Caner GÜNERBÜYÜK Ali Fahir ÖZER	CLINICAL OUTCOMES FOLLOWING CERVICAL OPEN-DOOR LAMINOPLASTY FOR 24 PATIENTS WITH CERVICAL SPONDYLOTIC MYELOPATHY	296
Tacettin GEÇKİL Mehmet Mahmut TANYILDIZI Ceren Beyza İNCE	INVESTIGATION OF THE USAGE OF FIBER CONCRETE WITH BLAST FURNACE SLAG (BFS) ADDITIVES AS ROAD PAVEMENT ON VERY WEAK BEARING STRENGTH SOIL	298
Carmen Gabriela LĂZĂREANU Candidate Vlad LEONTIE	VIOLENCE PHENOMENON, CAUSES AND MANIFESTATION FORMS. ASPECTS FROM THE DRAMATIC STRUGGLE OF WOMEN FOR STATUS IN SOCIETY	300
Svetlana KUNSKAJA	INNOVATIVE ENERGY TECHNOLOGIES: TOWARDS SUSTAINABLE ENERGY	301
Kamilova Nigar Mamedova Gulshan S.	MACRONUTRIENT LEVELS IN PREGNANT WOMEN WITH DIFFERENT TYPES OF ARTERIAL HYPERTENSION	302

INNOVATIVE ENERGY TECHNOLOGIES: TOWARDS SUSTAINABLE ENERGY

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ABSTRACT

Renewable energy sources are gaining increasing attention around the world. The main reasons for this are to increase the security of energy supply and to mitigate the dangerous climate change associated with the emission of greenhouse gases into the atmosphere. Fossil fuel resources are limited and unevenly distributed. Some countries have large quantities of them, while others are forced to import fuel and thus become dependent on fuel-exporting countries. The energy sector occupies one of the most important roles in terms of economic, social and environmental protection in order to achieve sustainable development. However, the energy sector is one of the most polluting sectors of the economy, causing such unbalanced effects of energy development as such as CO₂ and air emissions, waste accumulation, water pollution, deforestation and soil degradation. Therefore, sustainable energy is one of the EU's priority policy areas in implementing sustainable development goals. Sustainable energy is the production and consumption of energy that ensures the long-term goals of human development in all social, economic and environmental aspects. This could be equated to an effort to reconcile a country's economic growth and social progress without wasting non-renewable energy resources and without endangering the ecological balance. Sustainable energy uses innovative energy technologies from renewable energy sources such as hydropower, solar, wind, waves, tides, geothermal energy, bioenergy. These innovative energy technologies also improve energy efficiency. Renewable energy sources such as biomass, solar, wind, geothermal and hydropower are indigenous sources of energy, reducing the need for fuel imports and increasing energy security. When using renewable energy sources, significantly lower amounts of greenhouse gases are emitted into the atmosphere. Innovative energy technologies can play an important role in the development of sustainable energy, taking into account the economic, social and environmental indicators of sustainable development. The objective of this paper is to systematically review the literature on the importance of innovative energy technologies in the development of sustainable energy. Methods of the research – systematic scientific literature analysis. In conclusion it could be added, that innovative energy technologies can accelerate the transition to sustainable energy. Sustainable energy is an integral part of sustainable development, and it is important to take into account economic, social and environmental aspects when implementing sustainable energy.

Keywords: innovative energy technologies, sustainable energy technologies, sustainable energy, clean energy, sustainable development.