

Editors: Nikos Mastorakis, Valeri Mladenov, Metin Demiralp, Zoran Bojkovic





6th WSEAS International Conference on Cellular
 and Molecular Biology, Biophysics and Bioengineering (BIO '10)

8th WSEAS International Conference on Environment, Ecosystems and Development (EED '10)

International Conference on Bioscience and Bioinformatics (ICBB '10)

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Preface

This year the 6th WSEAS International Conference on CELLULAR and MOLECULAR BIOLOGY, BIOPHYSICS and BIOENGINEERING (BIO '10), the 8th WSEAS International Conference on ENVIRONMENT, ECOSYSTEMS and DEVELOPMENT (EED '10) and the International Conference on Bioscience and Bioinformatics (ICBB '10) were held in Vouliagmeni, Athens, Greece, December 29-31, 2010. The conferences remain faithful to their original idea of providing a platform to discuss biology of cell, metabolism, molecular biology, bioengineering, computer biology, genetics, hydrology, geology and geoinformatics, urban development, energy, biodiversity, city planning, rural development, waste management, transportation, biotechnology, cognitive biometrics, immunological studies, computational physiology, radiobiology, electrophysiology etc. with participants from all over the world, both from academia and from industry.

Their success is reflected in the papers received, with participants coming from several countries, allowing a real multinational multicultural exchange of experiences and ideas.

The accepted papers of these conferences are published in this Book that will be indexed by ISI. Please, check it: www.worldses.org/indexes as well as in the CD-ROM Proceedings. They will be also available in the E-Library of the WSEAS. The best papers will be also promoted in many Journals for further evaluation.

Conferences such as these can only succeed as a team effort, so the Editors want to thank the International Scientific Committee and the Reviewers for their excellent work in reviewing the papers as well as their invaluable input and advice.

The Editors

Table of Contents

Plenary Lecture 1: The Application of External Magnetic Stimulation for Treatment of Parkinson's Diseased Patients Photios Anninos	13
Plenary Lecture 2: Numerical Simulation of Some Ecological Problems of Georgia for Risk Assessment Teimuraz Davitashvili	14
Plenary Lecture 3: Cliques, Quasi-Cliques and Clique Partitions in Graphs Panos M. Pardalos	16
Plenary Lecture 4: Pedestrian Circulation Safety Needs and Opportunities in Greek Cities Eleni Stamatiou	17
3D Reconstructions of Resin Dental Fillings based on En Face OCT Images Florin I. Topala, Cosmin Sinescu, Meda L.Negrutiu, Adrian Bradu, Mihai Rominu, Adrian Gh. Podoleanu	19
Climatic and Tourist Potential of the Subcarpathians between Ialomita and Prahova River Mariana Mihaescu, Radita Alexe	23
Competitiveness of Serbian Agriculture Dragica Tomic, Radovan Tomic, Danilo Tomic	28
How Urban Noise Can Be Influenced by the Urban Form Marta F. Oliveira, Ligia T. Silva	31
The Noise Impact in the Learning-Teaching Process in an Elementary School Bruno Magalhaes, Ligia T. Silva	37
Determining Protein Backbone from H and H-alpha Short Interatomic Distances Pedro Nucci, Loana T. Nogueira, Carlile Lavor	43
New Approach to Treat Uncertainty in Diagnosing Cardiovascular Disease by Using Bayesian Theorem Booma Devi Sekar, Mingchui Dong, Wai Kei Lei, Jun Shi, Jiayi Dou	49
Multiple Proteins Sequence Alignment based on Progressive Methods with New Guide Tree Gamil Abdel-Azim, Mohamed Ben Othman, Z. A. Abo-Eleneen	55
Java-Grid Environment for Bioinformatics Applied Tools (JEBAT) Noor Maizura Mohamad Noor, Ahmad Faiz Ghazali, Md Yazid Mohamad Saman, Zafarina Zainuddin	65
Investigations of Hot Electrons in a Quantum Well M. A. Mehrabova	74

Radiation Effect onto Biodiversity of Spiders Sh. A. Topchiyeva, M. A. Mehrabova, N. H. Hasanov	82
Investigation of Electrophysical Parameters of Snake Venom S. A. Topchieva, M. A. Mehrabova, H. Ac. Abiyev	85
A K-means Based Competitive Learning with Text Description Language Features for Practical Botanical Systematics Wen-Sen Lee	90
Biosignal Data Acquisition and its Post-Processing Milan Chmelar, Radim Ciz, Ondrej Krajsa, Jiri Kouril	96
The Application of External Magnetic Stimulation for the Treatment of Parkinson's Diseased Patients Photios A. Anninos, Athanasia Kotini, Adam V. Adamopoulos, Nicholaos Tsagas	102
Some Aspects of the Calculation of the Stress in the Myocardium Rachad M. Shoucri	106
Investigations of Alternative Substitute to Barite as Drilling Weighting Material Bizanti Mohamed, Adsani Ebrahim	114
Simulation and Control of Indoor Air Quality in Buildings Ioan Sarbu, Calin Sebarchievici	119
Vaporization Thermal Power Assurance for Vertical Closed–Loop Ground–Coupled Heat Pump Systems Ioan Sarbu, Horia Bura	125
Applying Mathematical Analysis in Biosciences M. Hadjigeorgiou, V. Gekas	131
Environment Factors to Achieve Strategic Objectives in Companies <i>Lucian Guga</i>	136
Sustainable Solutions for Future Buildings Ruxandra Crutescu, Marin Crutescu	142
Management of Metabolic Side Effects of Antiretoviral Drugs in Patients Infected with Human Immunodeficiency Virus Danoiu Suzana, Bizdoaca Nicu George, Danoiu Mircea, Danciulescu Miulescu Rucsandra	146
Biofuels a Renewable Energy Source for Combined Heat and Power Systems Nicolae Lontis, Trif Tordai, Ioana Ionel, Francisc Popescu	152
Evaluation of Air Quality Monitoring Data Obtained from Parallel Monitoring Francisc Popescu, Ioana Ionel, Constantin Bota, Nicolae Lontis, Camelia Talianu	158
Novel Approach for District Heating and Cooling Technology Ioana Ionel, Francisc Popescu, Luisa Izabel Dungan, Lucia Varga	162
Research Concerning Thermal Stress of Bandages on Block Braking in Case of Braking Stop Luisa Izabel Dungan, Ioana Ionel, Mircea Dungan, Florin Iacobescu	168

Theoretical Study Regarding the Importance of Biomass in Obtaining Biogas using the Anaerobic Fermentation Process Adrian Eugen Cioabla, Ioana Ionel, Gavrila Trif-Tordai	172
Pollution Control in Airport Areas by Means of Numerical Simulation Francisc Popescu, Ioana Ionel, Nicolae Lontis, Livio Belegante, Viorica Cebrucean	176
Air Pollution Monitoring in a Town Nearly Power Plant Nisulescu Gheorghe Catalin, Ioana Ionel, Delia Calinoiu, Ion Vetres	181
Low Power Photovoltaic System-Grid Connection, Self Consumption Jana Jirickova, Rostislav Vlk	185
Numerical Simulation of Environment Pollution for Some Regions of Georgia for Risk Assessment Teimuraz Davitashvili	190
Leak Detection in Oil and Gas Transmission Pipelines Teimuraz Davitashvili, Givi Gubelidze, Inga Samkharadze	196
Geoecological Importance of Wetlands Transformation into Agricultural Landscape: Example of Pancevacki Rit in Serbia Dejan Sabic, Miroljub Milincic, Milica Pecelj, Danimir Mandic, Jelena Pecelj, Mila Pavlovic, Dragica Zivkovic, Jovan Plavsa, Milovan Pecelj	202
The Possibilities of Biofuel Production in Terms of Sustainable Development in Serbia Jelena Pecelj, Milovan Pecelj, Danimir Mandic, Milica Pecelj, Dejan Filipovic, Sanja Stojkovic, Vesna Milic, Dusica Pecelj	206
Bioclimatic Assessment of Weather Condition for Recreation in Health Resorts Milica Pecelj, Milovan Pecelj, Danimir Mandic, Jelena Pecelj, Snezana Vujadinovic, Velimir Secerov, Sabic Dejan, Mira Gajic, Miroljub Milincic	211
Pollution Control through Ecopathological Indicators for Nutritional and Metabolic Disorders by Diary Cows from Farm Animals Ecosystems near Industrially Polluted Areas Lucian Ionia, Alexandru T. Bogdan, Carmen Ionia, Violeta Simion, Simona Ivana, Iudith Ipate, George Toba, Amalia—geanina Strateanu	215
Using Typifix Method for Microsatellite Analysis and SNP Assays with using the Genetic Biodiversity Indicator for Identification in Evves of Romania Genotypes Valuable Resistant in Scrapie Iudith Ipate, Alexandru T. Bogdan, G. Brem, Simona Ivana, Adriana Petru, Carmen Ionia, Cornelia Purcarea	220
Biodiversity of the Germs Involved in the Human and Animal Leptospirosis Simona Ivana, Alexandru T. Bogdan, Lucian Ionita, Carmen Ionita, Iudith Ipate, Alexandru Nicolae Popescu	224
Solving River Pollution Problems by Means of Fuzzy Fault Tree Analysis Fragiskos Batzias, Athanasia Bountri, Christina Siontorou	228
Modeling an Adsorption Column for Wastewater Treatment by Using Dimensionless Groups in Scale-Up Procedure Dimitris Sidiras, Athanasia Bountri, Fragiskos Batzias	234

Biology of the Alveolar Bone: Orthodontic Tissue Regeneration (OTR) Alexandru Ogodescu, Cosmin Sinescu, Emilia Ogodescu, Manuela Popescu, Stefan Stratul, Serban Talpos, Darian Rusu			
Biology of Dentofacial Growth and Development: Updating Standards using Digital Imaging Technologies Emilia Ogodescu, Alexandru Ogodescu, Cosmin Sinescu, Kinga Szabo, Elisabeta Bratu	245		
Authors Index	251		

Plenary Lecture 1

The Application of External Magnetic Stimulation for Treatment of Parkinson's Diseased Patients



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Abstract: The aim of the this study was to investigate the influence of external transcranial magnetic stimulation (TMS) in parkinson's diseased (PD) patients using a whole-head 122-channel magnetometer SQUID and Fourier statistical analysis. The examined group consisted of 20 patients (12 males and 8 females; mean age 65 years: range 49-80 years) The TMS was in the order of pico Tesla(pT) and was applied on the above patients with proper field characteristics, which were obtained prior to TMS(magnetic field amplitude: 1-7.5pT, frequency: the a -rhythm of the patient:8-13Hz).

The MEG recordings after the application of TMS was shown a rapid attenuation of the high abnormal activity by an increase of the a-rhythm. The patient's responses to the TMS were a feeling of relaxation and partial or complete disappearance of tremor, muscular ache and levodopa induced dyskinesias as well as rapid reversed visuospatial impairment, which were followed by a corresponding improvement and normalization of the MEG.

Brief Biography of the Speaker: Prof. P.Anninos is Emeritus Prof. of Medical Physics in the Department of Medicine of Democritus University of Thrace, Alexandroupolis, Greece after serving there as a Professor of Medical Physics for many years. His research interests concern Theoretical neural models, experimental Neurophysiology with emphasis in MEG measurements using SQUID's and the use of pTMS(picoTesla Transcranial Magnetic Stimulation) in patients with CNS disorders.

He has published more than 200 scientific papers in reviewed journals and have written several books in his field. He is a scientific reviewer for several international Journals.

Plenary Lecture 2

Numerical Simulation of Some Ecological Problems of Georgia for Risk Assessment



Professor Teimuraz Davitashvili

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&

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Abstract: The Transport Corridor Europe-Caucasus-Asia (TRACECA) using railways, highways and oil-gaspipelines, is conveyed oil, gas, coal and cotton, across Georgia from central Asia and Azerbaijan to other countries. At Present there are already functioning six main oil and gas transportation lines on the territory of Georgia. According to the experience of transit countries the convey of oil and gas by railway and pipelines causes great losses regarding the ecological situation thus counteracting the intended political and economical benefits. In addition to ordinary pollution of the environment it is possible that non-ordinary situations like pipeline and railway accidents arise. As foreign experience with pipelines shows, the main reasons of crashes and spillages are the destruction of pipes as a result of corrosion, defects of welding and natural phenomena (floods, landslides, earthquakes et. c). Also terrorist attacks and sabotage may occur.

It is obvious that safety of the neighbourhood of oil and gas pipelines is an urgent problem for many countries and for the Caucasus. The TRACECA routes crosses a multitude of surface water flows. Ground water along the route is also abundant and generally of high quality. In Georgia there are frequent cases, when flooded river undermines the bridges, bases and sometimes even take away the bridges. So eventually it can happen the erosion of the soil, decreasing to the minimum of the protective layer of the soil, damaging of the protective coverage of the pipeline by the broken stones brought by the flooded river, and leakage of the oil. In addition, if we take into account, that Georgia is placed in the seismically active zone, it increases the possibility of getting of the spilled oil on soil, surface and under-surface waters and in the rivers. As oil transportation by TRACECA and pipelines goes through the densely populated areas, so for solving the problem of protecting the population and the environment the important subject is the prognosis and modeling of possible emergency situations. So with the help of numerical integration of nonlinear filtration equation of a liquid, we have studied a penetration of oil into the rivers ,soils underground water in case of their emergency spilling.

In the present work we have investigated the hydrological specifications of Georgian rivers. By Numerical model we have calculated Georgian the largest rivers Mtkvari's and Rioni's possible pollution by oil in the period of flooding. With the purpose of to study under ground water pollution by oil, oil penetration into soil with flat surface containing pits and slopping surface are studied by numerical modeling. Some analytical and numerical solutions of the diffusion and filtration equations are given and analyzed. Results of numerical calculations of oil propagation in soil under high pressure and possible under-surface water pollution earthquake dangerous regions of Georgia also are presented.

The problem of the forthcoming climate change resulting from natural and growing anthropogenic factors acquires a particular importance for Georgia. Georgia's climate oscillates from subtropical conditions on the Black Sea coast to continental conditions, with cold winters and hot summers, in the extreme east, with dry lands. The result of such a diversity of Georgian climate is that the statistical processing of the data of mean climatic temperature of the last ninety years exposed the regularity of the climate cooling in the West Georgia and warming in the East Georgia. There were also elicited those micro-regions where mean climatic temperature does not change in time.

In the present paper the specific properties of regional climate cooling process in the Western Georgia is studied by mathematical modelling. The effect of thermal and advective-dynamic factors of atmosphere upon the changes of the West Georgian climate is investigated. The specific peculiarities of the thermodynamic model of desertification

process are discussed. Some recommendations for halting the desertification process and restoration of soil active layer are given.

Brief Biography of the Speaker: Teimuraz Davitashvili, born in 1949, graduated from Tbilisi State University (TSU) in 1972, receiving the 5 years Diploma in Mathematics, specialization Hydro-air Mechanics. In 1985 he received the Ph.D and in 1997 the Doctor of Physics and Mathematics upon the doctorol thesis "Numerical Modelling of Some Problems of Atmosphere Physics for Mountain Regions". Since 1972 researcher, senior researcher, head of department, head of laboratory "Mathematical Modelling and Numerical Analyses" at I.Vekua Institute of Applied Mathematics of TSU. 1994-1998 Assoc.Prof. of TSU, 1999-2006 Full Prof. of TSU. Since 2006 head of department "Weather Forecast, Modelling of Natural and Teqnogen.Catastrophic Events" at the Hydrometeorological Institute of Georgia. He published 1 book, more then 100 research papers in various scientific journals and international conference proceedings. His general research interests are: applied mathematics, numerical modelling, environmental pollution, numerical methods of weather forecast.

Plenary Lecture 3 Cliques, Quasi-Cliques and Clique Partitions in Graphs



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Abstract: Given a graph, the maximum clique problem asks for a clique of maximum cardinality. Computationally equivalent problems are the maximum independent set problem and the minimum node cover problem. During the last decade, many problems in social, biological, and financial networks require finding cliques, or quasi-cliques. Cliques or clique partitions have also been used as clustering or classification data mining tools in data sets represented by networks. These networks can be very large and often massive and therefore external (or semi-external) memory algorithms are needed. We discuss applications, exact algorithms, heuristics, and computational approaches for all types of problems.

Brief Biography of the Speaker: Dr. Panos Pardalos is Distinguished Professor of Industrial and Systems Engineering at the University of Florida. He is also affiliated faculty member of the Computer Science Department, the Hellenic Studies Center, and the Biomedical Engineering Program. He is also the director of the Center for Applied Optimization. Dr. Pardalos obtained a PhD degree from the University of Minnesota in Computer and Information Sciences. He has held visiting appointments at Princeton University, DIMACS Center, Institute of Mathematics and Applications, FIELDS Institute, AT&T Labs Research, Trier University, Linkoping Institute of Technology, and Universities in Greece. He has received numerous awards including, University of Florida Research Foundation Professor, UF Doctoral Dissertation Advisor/Mentoring Award, Foreign Member of the Royal Academy of Doctors (Spain), Foreign Member Lithuanian Academy of Sciences, Foreign Member of the Ukrainian Academy of Sciences, Foreign Member of the Petrovskaya Academy of Sciences and Arts (Russia), and Honorary Member of the Mongolian Academy of Sciences. Dr. Pardalos received the degrees of Honorary Doctor from Lobachevski University (Russia) and the V.M. Glushkov Institute of Cybernetics (Ukraine), he is a fellow of AAAS, a fellow of INFORMS, and in 2001 he was awarded the Greek National Award and Gold Medal for Operations Research. Dr. Pardalos is a world leading expert in global and combinatorial optimization. He is the editor-in-chief of the Journal of Global Optimization, Journal of Optimization Letters, and Computational Management Science. In addition, he is the managing editor of several book series, and a member of the editorial board of several international journals. He is the author of 8 books and the editor of several books. He has written numerous articles and developed several well known software packages. His research is supported by National Science Foundation and other government organizations. His recent research interests include network design problems, optimization in telecommunications, e-commerce, data mining, biomedical applications, and massive computing. Dr. Pardalos has been an invited lecturer at many universities and research institutes around the world. He has also organized several international conferences.

Plenary Lecture 4

Pedestrian Circulation Safety Needs and Opportunities in Greek Cities



Professor Eleni Stamatiou Architect NTUA, MSc in Regional Development Dr. Town and Regional Planner Professor-Consultant at the Hellenic Open University Greek representative to the Architects' Council of Europe (ACE) Greece

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Abstract: This presents the historical retrospection and the international experience, the operation of circulation in the city, questions of circulatory safety and free access, citizens with moving disabilities (elderly, handicap, pregnant, parents with children, etc.), in designing models (heights of pavements, ``of pavements with indicators" individuals with sight disabilities of pavements, endings of pavements, crossings of pedestrians, ramps for access in public spaces, spaces of quartering of the disabled, foot walk, accesses in public means of mass transport, etc), legislative forecasts and needs, the international and European Community legislation., the administrative pathogen behavior and problems relative to the application of these rules and violations of legislation, infringements and identification of problems, the role of state and local self-government, examples from overseas, arising needs and proposals for improvement and further exploitation.

Brief Biography of the Speaker: Dr Eleni N. Stamatiou, Architect-Engineer NTUA, MSc Regional Development, Dr. in Town & Spatial Planning (PHD, PPHD). Completed her studies with Scholarships of the Greek State (IKY). Professional Experience (since 1989), Scientific, Teaching and Research Experience (since 1997) from overseas and in Greece (Assoc Professor at the University of Thessaly, Professor-Consultant at the Hellenic Open University / Post Graduate program, National School of Public Administration, etc.), Vice President of the Greek Regionalists Association(OA?).

She has lectured at several Greek Universities (National Technical University of Athens, Harokopeio University, National School of Public Administration, etc.) and was invited to speak in several overseas Universities (in France, Russia, U.K. and USA) has been and continues to oversea Masters and Doctors degrees in addition to being a member of the professors exams committee (National School of Public Administration, Hellenic Open University, etc.). She has taught numbers of training seminars to adults with a degree, for higher company and Ministerial executives etc. She has overseen and published several books and published articles in Greek, English, Russian and French. Member of the Editorial Board of scientific publications and journals. Participation and co-authorship in the creation of university graduate study programs. Member of Greek, French, European and International Associations (UIA, SFA, ECTP, ERSA, etc.). Fundamental and instrumental active participation in International scientific committees in Europe and the USA (INRECON, ENVIRON, etc.). Member of Scientific organizations and representative for Greece in International forums and programs (with the Russian Research Institute of Land Planning, The Russian Academy of Social Sciences, etc.). Co-editor and session-chief in International conferences of the Greek Regionalists Association. National Representative for Greece of OAAAO (Association of Greek Architects) at the European Council of Architects (ACE) / "Urban issues". Participation as principal member of scientific organizations and committees (Evaluation of European town-planning awards ECTP, etc.). Member of work groups, Member of the Permanent Arbitration Committee (2006-2007) and Domain Expert of the Technical Chamber of Greece (OAA). Her Scientific and professional Interests concern subjects of architecture, spatial and regional planning and related legislation, regional development, environmental management, cultural and built environment, sustainable development, etc., these principles she applied and promoted successfully throughout her professional career through her many held managerial positions (as member of the board, senior scientist, etc.). She is married to the IT Consultant / International Researcher Richard-Nicolas LACROIX and they have two sons.

Authors Index

Abbiger, H. A. 85 Ionel, I. 176, 181 Rominu, M. 19	Abdel-Azim, G.	55	lonel, I.	168, 172	Purcarea, C.	220
Abo-Eleneen, Z. A. 55 Ionia, C. 215, 220, 224 Rusu, D. 240 Adamopoulos, A. V. 102 Ionia, L. 224 Sabic, D. 202 203 Ionia, E. 224 Sabic, D. 202 203 Ionia, E. 228, 234 Ijrickova, J. 185 Samkharadze, I. 196 Isbelegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Isbelegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Isbelegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Isbelegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Isbelegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Isbelegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Isbelegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Isbelegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Isbelegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Isbelegante, L. 140 Isbelegante, L. 140						
Adamopoulos, A. V. 102 Ionia, L. 215 Rusu, D. 240 Alexe, R. 23 Ionita, L. 224 Sabic, D. 211 Anninos, P. A. 102 Ipate, I. 215, 220 224 Sabic, D. 211 Batzias, F. 228, 234 Jirickova, J. 185 Samkharadze, I. 196 Belegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Bedogante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Bedogante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Bedogan, A. T. 215, 220, 224 Lex Cev. C. 43 Sekar, B. D. 49 Boda, C. 188 Lee, WS. 90 Shi, J. 49 Bountri, A. 19 Lontis, N. 152, 158, 176 Sidiras, D. 234 Bradu, E. 245 Magalhaes, B. 37 Silmona, D. 215 Sura, J. 37 Bruta, H. 125 Mebrabova, M. A.	-					146
Alexe, R. 23 Ionita, L. 224 Sabic, D. 202 Anninos, P. A. 102 Ipate, I. 215, 220 224 Sabic, D. 211 Balzias, F. 228, 234 Jirickova, J. 185 Samkharadze, I. 196 Belegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Ben Othman, M. 55 Kouril, J. 96 Sebarchievici, C. 119 Bizdoaca, N. G. 146 Krajsa, O. 96 Secerov, V. 211 Boddan, A. T. 215, 220, 224 Lavor, C. 43 Sekar, B. D. 49 Bota, C. 158 Lee, W. S. 90 Shi, J. 49 Bountri, A. 19 Lontis, N. 152, 158, 176 Sidiras, D. 234 Bratu, E. 245 Magalhaes, B. 37 Silva, L. T. 31, 37 Brura, H. 125 Mehrabova, M. A. 74, 82, 85 Simonor, I. 215 Sura, H. 125 Mehrabova, M. A. 74, 82, 85 Simotorou,						240
Anninos, P. A. 102 Ipate, I. 215, 220 224 Sabic, D. 211 Batzias, F. 228, 234 Jirickova, J. 185 Samkharadze, I. 196 Belegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Ben Othman, M. 55 Kouril, J. 96 Sebarchievici, C. 119 Bizdoaca, N. G. 146 Krajsa, O. 96 Seecrov, V. 211 Bodan, A. T. 215, 220, 224 Lavor, C. 43 Sekar, B. D. 49 Bountri, A. 228, 234 Lei, W. K. 49 Shoucri, R. M. 106 Bradu, A. 19 Lontis, N. 152, 158, 176 Slidiras, D. 234 Brem, G. 220 Mandic, D. 202, 206, 211 Slimion, V. 215, 220, 224 Catalin, N. G. 181 Miliacecu, M. 23 Simesou, C. 19, 240, 245 Catalin, N. G. 181 Miliacic, M. 202, 206, 211 Stojkovic, S. 206 Chorucean, V. 176 Miliacic, M. <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>	•					
Batzias, F. 228, 234 Jirickova, J. 185 Samkharadze, I. 196 Belegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Belegante, L. 176 Koturii, J. 96 Sebarchievici, C. 119 Bizdoaca, N. G. 146 Krajsa, O. 96 Secerov, V. 211 Bodgan, A. T. 215, 220, 224 Lavor, C. 43 Sekar, B. D. 49 Bountri, A. 228, 234 Lei, W. K. 49 Shoucri, R. M. 106 Bradu, A. 19 Lontis, N. 152, 158, 176 Sidiras, D. 234 Bratu, E. 245 Magalhaes, B. 37 Silva, L. T. 31, 37 Brem, G. 220 Mandic, D. 202, 206, 211 Simion, V. 215 Bura, H. 125 Mehrabova, M. A. 74, 82, 85 Simona, I. 215, 220, 224 Caliniou, D. 181 Milincic, M. 202 Siontorou, C. 228 Catilin, N. G. 181 Milincic, M. 202, 2						
Belegante, L. 176 Kotini, A. 102 Sarbu, I. 119, 125 Ben Othman, M. 55 Kouril, J. 96 Sebarchievici, C. 119 Bizdoaca, N. G. 146 Krajsa, O. 96 Secerov, V. 211 Bodan, A. T. 215, 220, 224 Lee, W. S. 90 Shi, J. 49 Bountri, A. 228, 234 Lei, W. K. 49 Shoucri, R. M. 106 Bradu, A. 19 Lontis, N. 152, 158, 176 Sidras, D. 234 Bratu, E. 245 Magalhaes, B. 37 Simon, J. 215 Bura, H. 125 Mehrabova, M. A. 74, 82, 85 Simona, J. 215, 220, 224 Calinolu, D. 181 Milnecc, M. 23 Sinescu, C. 19, 240, 245 Catalin, N. G. 181 Milineck, M. 202 Stolkovic, S. 206 Chmuean, V. 176 Milineck, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Mohamad Saman, M. Y. 65						
Ben Othman, M. 55 Kouril, J. 96 Sebarchievici, C. 119 Bizdoaca, N. G. 146 Krajsa, O. 96 Secrov, V. 211 Bodan, A. T. 215, 220, 224 Lavor, C. 43 Sekar, B. D. 49 Bota, C. 158 Lee, W. S. 90 Shi, J. 49 Bountri, A. 228, 234 Lei, W. K. 49 Shoucri, R. M. 106 Bradu, A. 19 Lontis, N. 152, 158, 176 Sidiras, D. 234 Bratu, E. 245 Magalhaes, B. 37 Silva, L. T. 31, 37 Brem, G. 220 Mandic, D. 202, 206, 211 Siminon, V. 215, 220, 224 Calinoiu, D. 181 Milnescu, M. 23 Simescu, C. 19, 240, 245 Catalin, N. G. 181 Milic, V. 206 Siontorou, C. 228 Cebrucean, V. 176 Milincic, M. 202, 211 Stojkovic, S. 206 Cibalia, A. E. 172 Mohamad Saman, M. Y. 65						
Bizdoaca, N. G. 146 Krajsa, O. 96 Secerov, V. 211 Bogdan, A. T. 215, 220, 224 Lavor, C. 43 Sekar, B. D. 49 Bota, C. 158 Lee, WS. 90 Shi, J. 49 Bountri, A. 228, 234 Lei, W. K. 49 Shoucri, R. M. 106 Bradu, A. 19 Lontis, N. 152, 158, 176 Sidiras, D. 234 Bratu, E. 245 Magalhaes, B. 37 Silva, L. T. 31, 37 Brem, G. 220 Mandic, D. 202, 206, 211 Simona, I. 215, 220, 224 Calinoiu, D. 181 Milaescu, M. 23 Sinescu, C. 19, 240, 245 Catalini, N. G. 181 Milincic, M. 202, 211 Stojkovio, C. 228 Catalini, N. G. 181 Milincic, M. 202, 211 Stojkovio, C. 228 Catalini, N. G. 181 Milincic, M. 202, 211 Stojkovio, C. 228 Catalini, N. G. 181 Mohamad Noor, N. M.	=					
Bogdan, A. T. 215, 220, 224 Lavor, C. 43 Sekar, B. D. 49 Bota, C. 158 Lee, WS. 90 Shi, J. 49 Bountri, A. 228, 234 Lei, W. K. 49 Shoucri, R. M. 106 Bradu, A. 19 Lontis, N. 152, 158, 176 Sidiras, D. 234 Bratu, E. 245 Magalhaes, B. 37 Silva, L. T. 31, 37 Brem, G. 220 Mandic, D. 202, 206, 211 Simion, V. 215 Bura, H. 125 Mehrabova, M. A. 74, 82, 85 Simona, I. 215, 220, 224 Calinoiu, D. 181 Milaescu, M. 23 Sinescu, C. 19, 240, 245 Catalin, N. G. 181 Milincic, M. 202, 211 Stojkovic, S. 206 Cebrucean, V. 176 Milincic, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Michamad Saman, M. Y. 65 Stratul, S. 240 Ciz, R. 96 Mohamad Saman, M. Y. 65 <td></td> <td>146</td> <td></td> <td></td> <td></td> <td></td>		146				
Bola, C. 158 Lee, WS. 90 Shi, J. 49 Bountri, A. 228, 234 Lei, W. K. 49 Shoucri, R. M. 106 Bradu, A. 19 Lontis, N. 152, 158, 176 Sidiras, D. 234 Bratu, E. 245 Magalhaes, B. 37 Siiva, L. T. 31, 37 Brem, G. 220 Mandic, D. 202, 206, 211 Simion, V. 215 Bura, H. 125 Mehrabova, M. A. 74, 82, 85 Simona, I. 215, 220, 224 Calinoiu, D. 181 Milince, V. 206 Siontorou, C. 228 Cebrucean, V. 176 Milincic, M. 202, 211 Stojkovic, S. 206 Cebrucean, V. 176 Milincic, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Mircea, D. 146 Stratul, S. 240 Cioz, R. 96 Mohamad Saman, M. Y. 65 Szabo, K. 245 Crutescu, M. 142 Nogueira, L. T. 43 Tomic, D.		215, 220, 224	-			49
Bountri, A. 228, 234 Lei, W. K. 49 Shoucri, R. M. 106 Bradu, A. 19 Lontis, N. 152, 158, 176 Sidiras, D. 234 Bratu, E. 245 Magalhaes, B. 37 Silva, L. T. 31, 37 Brem, G. 220 Mandic, D. 202, 206, 211 Simion, V. 215 Bura, H. 125 Mehrabova, M. A. 74, 82, 85 Simona, I. 215, 220, 224 Catalino, D. 181 Milhaescu, M. 23 Sinescu, C. 19, 240, 245 Catalinin, N. G. 181 Milic, V. 206 Siontorou, C. 228 Cebrucean, V. 176 Millincic, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Mircea, D. 146 Strateanu, AG. 215 Ciz, R. 96 Mohamad Saman, M. Y. 65 Szabo, K. 245 Crutescu, M. 142 Moental, M. L. 19 Talpos, S. 240 Crutescu, Y. 196 Nucci, P. 43	•					49
Bradu, A. 19 Lontis, N. 152, 158, 176 Sidiras, D. 234 Bratu, E. 245 Magalhaes, B. 37 Sidva, L. T. 31, 37 Brem, G. 220 Mandic, D. 202, 206, 211 Simion, V. 215, 220, 224 Bura, H. 125 Mehrabova, M. A. 74, 82, 85 Simona, I. 215, 220, 224 Calinoiu, D. 181 Milneescu, M. 23 Sinescu, C. 19, 240, 245 Catalin, N. G. 181 Milincic, M. 206 Siontorou, C. 228 Cebrucean, V. 176 Milincic, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Mircea, D. 146 Stratelanu, AG. 215 Cioabla, A. E. 172 Mohamad Nor, N. M. 65 Szabo, K. 245 Crutescu, M. 142 Mohamed, B. 114 Talianu, C. 158 Crutescu, R. 142 Negrutiu, M. L. 19 Talpos, S. 240 Davitashvili, T. 190, 196 Nucci, P.						106
Bratu, E. 245 Magalhaes, B. 37 Silva, L. T. 31, 37 Brem, G. 220 Mandic, D. 202, 206, 211 Simion, V. 215 Bura, H. 125 Mehrabova, M. A. 74, 82, 85 Simona, I. 215, 220, 224 Calinoiu, D. 181 Milaescu, M. 23 Sinescu, C. 19, 240, 245 Catalin, N. G. 181 Milincic, M. 206 Siontorou, C. 228 Cebrucean, V. 176 Milincic, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Mircea, D. 146 Stratul, S. 240 Cioabla, A. E. 172 Mohamad Nor, N. M. 65 Stratul, S. 240 Ciz, R. 96 Mohamad Saman, M. Y. 65 Szabo, K. 245 Crutescu, M. 142 Mogrutiu, M. L. 19 Talpos, S. 240 Crutescu, R. 146 Nogueira, L. T. 43 Tomic, D. 28 Davitashvili, T. 190, 196 Nucci, P. 43				152, 158, 176		234
Brem, G. 220 Mandic, D. 202, 206, 211 Simion, V. 215 Bura, H. 125 Mehrabova, M. A. 74, 82, 85 Simona, I. 215, 220, 224 Calinoiu, D. 181 Mihaescu, M. 23 Sinescu, C. 19, 240, 245 Catalin, N. G. 181 Milic, V. 206 Siontorou, C. 228 Cebrucean, V. 176 Millincic, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Mircea, D. 146 Stratul, S. 240 Cioabla, A. E. 172 Mohamad Noor, N. M. 65 Stratul, S. 240 Ciz, R. 96 Mohamed, B. 114 Talianu, C. 158 Crutescu, M. 142 Megrutiu, M. L. 19 Talpos, S. 240 Danoiu, S. 146 Nogueira, L. T. 43 Toba, G. 215 Davitashvili, T. 190, 196 Nucci, P. 43 Tomic, D. 28 Doug, M. 49 Ogodescu, E. 240, 245 Tomic,						
Bura, H. 125 Mehrabova, M. A. 74, 82, 85 Simona, I. 215, 220, 224 Calinoiu, D. 181 Mihaescu, M. 23 Sinescu, C. 19, 240, 245 Catalin, N. G. 181 Milic, V. 206 Siontorou, C. 228 Cebrucean, V. 176 Milincic, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Mircea, D. 146 Strateanu, AG. 215 Cioabla, A. E. 172 Mohamad Noor, N. M. 65 Stratul, S. 240 Ciz, R. 96 Mohamad Saman, M. Y. 65 Szabo, K. 245 Crutescu, M. 142 Mohamed, B. 114 Talianu, C. 158 Crutescu, R. 142 Nogueira, L. T. 43 Toba, G. 215 Danoiu, S. 146 Nogueira, L. T. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, E. 240, 245 Tomic, D. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 <th< td=""><td></td><td></td><td>•</td><td></td><td></td><td></td></th<>			•			
Calinoiu, D. 181 Mihaescu, M. 23 Sinescu, C. 19, 240, 245 Catalin, N. G. 181 Milic, V. 206 Siontorou, C. 228 Cebrucean, V. 176 Milincic, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Mircea, D. 146 Stratulan, S. 215 Cioabla, A. E. 172 Mohamad Noor, N. M. 65 Stratul, S. 240 Ciz, R. 96 Mohamad Saman, M. Y. 65 Stratul, S. 245 Crutescu, M. 142 Mohamed, B. 114 Talianu, C. 158 Crutescu, R. 142 Negrutiu, M. L. 19 Talpos, S. 240 Danoiu, S. 146 Nogueira, L. T. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, A. 240, 245 Tomic, D. 28 Dong, M. 49 Ogodescu, E. 240, 245 Tomic, R. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Catalin, N. G. 181 Millic, V. 206 Siontorou, C. 228 Cebrucean, V. 176 Milincic, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Mircea, D. 146 Strateanu, AG. 215 Cioabla, A. E. 172 Mohamad Noor, N. M. 65 Stratul, S. 240 Ciz, R. 96 Mohamed, B. 114 Talianu, C. 158 Crutescu, M. 142 Mohamed, B. 114 Talianu, C. 158 Crutescu, R. 142 Negruftiu, M. L. 19 Talpos, S. 240 Danoiu, S. 146 Nogueira, L. T. 43 Toba, G. 215 Davitashvili, T. 190, 196 Nucci, P. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, E. 240, 245 Tomic, D. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A.						
Cebrucean, V. 176 Milincic, M. 202, 211 Stojkovic, S. 206 Chmelar, M. 96 Mircea, D. 146 Strateanu, AG. 215 Cioabla, A. E. 172 Mohamad Noor, N. M. 65 Stratul, S. 240 Ciz, R. 96 Mohamad Saman, M. Y. 65 Szabo, K. 245 Crutescu, M. 142 Mohamad Saman, M. Y. 65 Szabo, K. 245 Crutescu, R. 142 Negrutiu, M. L. 19 Talpos, S. 240 Danoiu, S. 146 Nogueira, L. T. 43 Toba, G. 215 Davitashvili, T. 190, 196 Nucci, P. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, E. 240, 245 Tomic, D. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, Mili. 202, 206, 211 T						
Chmelar, M. 96 Mircea, D. 146 Strateanu, AG. 215 Cioabla, A. E. 172 Mohamad Noor, N. M. 65 Stratul, S. 240 Ciz, R. 96 Mohamad Saman, M. Y. 65 Szabo, K. 245 Crutescu, M. 142 Mohamed, B. 114 Talipos, S. 240 Danoiu, S. 146 Nogueira, L. T. 43 Toba, G. 215 Davitashvili, T. 190, 196 Nucci, P. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, A. 240, 245 Tomic, D. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, Mili. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Milo. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A.						
Cioabla, A. E. 172 Mohamad Noor, N. M. 65 Stratul, S. 240 Ciz, R. 96 Mohamad Saman, M. Y. 65 Szabo, K. 245 Crutescu, M. 142 Mohamed, B. 114 Talianu, C. 158 Crutescu, R. 142 Negrutiu, M. L. 19 Talpos, S. 240 Danoiu, S. 146 Nogueira, L. T. 43 Toba, G. 215 Davitashvili, T. 190, 196 Nucci, P. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, A. 240, 245 Tomic, D. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, D. 206 Topchieva, S. A. 82 Filipovic, D. 206 Pecelj, Milli. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Millo. 202, 206, 211 Traf-Tordai, G. 172 Gekas, V. 131 Pecelj, Millo.					-	
Ciz, R. 96 Mohamad Saman, M. Y. 65 Szabo, K. 245 Crutescu, M. 142 Mohamed, B. 114 Talianu, C. 158 Crutescu, R. 142 Negrutiu, M. L. 19 Talpos, S. 240 Danoiu, S. 146 Nogueira, L. T. 43 Toba, G. 215 Davitashvili, T. 190, 196 Nucci, P. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, A. 240, 245 Tomic, D. 28 Dou, J. 49 Ogodescu, E. 240, 245 Tomic, R. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, D. 206 Topchiyeva, S. A. 82 Filipovic, D. 206 Pecelj, Mili. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Milo. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Crutescu, M. 142 Mohamed, B. 114 Talianu, C. 158 Crutescu, R. 142 Negrutiu, M. L. 19 Talpos, S. 240 Danoiu, S. 146 Nogueira, L. T. 43 Toba, G. 215 Davitashvili, T. 190, 196 Nucci, P. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, A. 240, 245 Tomic, D. 28 Dou, J. 49 Ogodescu, E. 240, 245 Tomic, R. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, D. 206 Topchiyeva, S. A. 82 Filipovic, D. 206 Pecelj, Mili. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Milo. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. <th< td=""><td></td><td>96</td><td></td><td>65</td><td></td><td>245</td></th<>		96		65		245
Crutescu, R. 142 Negrutiu, M. L. 19 Talpos, S. 240 Danoiu, S. 146 Nogueira, L. T. 43 Toba, G. 215 Davitashvili, T. 190, 196 Nucci, P. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, A. 240, 245 Tomic, D. 28 Dou, J. 49 Ogodescu, E. 240, 245 Tomic, R. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, D. 206 Topchieva, S. A. 82 Filipovic, D. 206 Pecelj, J. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Mili. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 </td <td></td> <td>142</td> <td></td> <td>114</td> <td></td> <td>158</td>		142		114		158
Danoiu, S. 146 Nogueira, L. T. 43 Toba, G. 215 Davitashvili, T. 190, 196 Nucci, P. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, A. 240, 245 Tomic, D. 28 Dou, J. 49 Ogodescu, E. 240, 245 Tomic, R. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, D. 206 Topchiyeva, S. A. 82 Filipovic, D. 206 Pecelj, J. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Milli. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 <td></td> <td>142</td> <td></td> <td>19</td> <td></td> <td>240</td>		142		19		240
Davitashvili, T. 190, 196 Nucci, P. 43 Tomic, D. 28 Dong, M. 49 Ogodescu, A. 240, 245 Tomic, D. 28 Dou, J. 49 Ogodescu, E. 240, 245 Tomic, R. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, D. 206 Topchiyeva, S. A. 82 Filipovic, D. 206 Pecelj, J. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Mili. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, F. 152,	Danoiu, S.	146	•	43	•	215
Dou, J. 49 Ogodescu, E. 240, 245 Tomic, R. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, D. 206 Topchiyeva, S. A. 82 Filipovic, D. 206 Pecelj, J. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Mili. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, F. 152, 158 Zainuddin, Z. 65 Iacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202	Davitashvili, T.	190, 196	Nucci, P.	43	Tomic, D.	28
Dou, J. 49 Ogodescu, E. 240, 245 Tomic, R. 28 Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, D. 206 Topchiyeva, S. A. 82 Filipovic, D. 206 Pecelj, J. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Mili. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, F. 152, 158 Zainuddin, Z. 65 Iacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202				240, 245		28
Dungan, L. I. 162, 168 Oliveira, M. F. 31 Topala, F. I. 19 Dungan, M. 168 Pavlovic, M. 202 Topchieva, S. A. 85 Ebrahim, A. 114 Pecelj, D. 206 Topchiyeva, S. A. 82 Filipovic, D. 206 Pecelj, J. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Mili. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, A. N. 224 Vujadinovic, S. 211 Hasanov, N. H. 82 Popescu, F. 152, 158 Zainuddin, Z. 65 Iacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202	-	49				28
Ebrahim, A. 114 Pecelj, D. 206 Topchiyeva, S. A. 82 Filipovic, D. 206 Pecelj, J. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Mili. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, A. N. 224 Vujadinovic, S. 211 Hasanov, N. H. 82 Popescu, F. 152, 158 Zainuddin, Z. 65 lacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202	Dungan, L. I.	162, 168	Oliveira, M. F.		Topala, F. I.	19
Ebrahim, A. 114 Pecelj, D. 206 Topchiyeva, S. A. 82 Filipovic, D. 206 Pecelj, J. 202, 206, 211 Tordai, T. 152 Gajic, M. 211 Pecelj, Mili. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, A. N. 224 Vujadinovic, S. 211 Hasanov, N. H. 82 Popescu, F. 152, 158 Zainuddin, Z. 65 lacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202	Dungan, M.	168	Pavlovic, M.	202	Topchieva, S. A.	85
Gajic, M. 211 Pecelj, Mili. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, A. N. 224 Vujadinovic, S. 211 Hasanov, N. H. 82 Popescu, F. 152, 158 Zainuddin, Z. 65 Iacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202	•	114	Pecelj, D.	206	•	82
Gajic, M. 211 Pecelj, Mili. 202, 206, 211 Trif-Tordai, G. 172 Gekas, V. 131 Pecelj, Milo. 202, 206, 211 Tsagas, N. 102 Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, A. N. 224 Vujadinovic, S. 211 Hasanov, N. H. 82 Popescu, F. 152, 158 Zainuddin, Z. 65 Iacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202	Filipovic, D.	206	Pecelj, J.	202, 206, 211	Tordai, T.	152
Ghazali, A. F. 65 Petru, A. 220 Varga, L. 162 Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, A. N. 224 Vujadinovic, S. 211 Hasanov, N. H. 82 Popescu, F. 152, 158 Zainuddin, Z. 65 Iacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202		211			Trif-Tordai, G.	172
Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, A. N. 224 Vujadinovic, S. 211 Hasanov, N. H. 82 Popescu, F. 152, 158 Zainuddin, Z. 65 Iacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202	Gekas, V.	131	Pecelj, Milo.	202, 206, 211	Tsagas, N.	102
Gubelidze, G. 196 Plavsa, J. 202 Vetres, I. 181 Guga, L. 136 Podoleanu, A. G. 19 Vlk, R. 185 Hadjigeorgiou, M. 131 Popescu, A. N. 224 Vujadinovic, S. 211 Hasanov, N. H. 82 Popescu, F. 152, 158 Zainuddin, Z. 65 Iacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202	Ghazali, A. F.	65	Petru, A.	220	Varga, L.	162
Hadjigeorgiou, M.131Popescu, A. N.224Vujadinovic, S.211Hasanov, N. H.82Popescu, F.152, 158Zainuddin, Z.65Iacobescu, F.168Popescu, F.162, 176Zivkovic, D.202	Gubelidze, G.	196	Plavsa, J.	202		181
Hasanov, N. H. 82 Popescu, F. 152, 158 Zainuddin, Z. 65 Iacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202	Guga, L.	136	Podoleanu, A. G.	19	Vlk, R.	185
Hasanov, N. H. 82 Popescu, F. 152, 158 Zainuddin, Z. 65 Iacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202	Hadjigeorgiou, M.	131	Popescu, A. N.	224	Vujadinovic, S.	211
lacobescu, F. 168 Popescu, F. 162, 176 Zivkovic, D. 202		82		152, 158		65
lonel I 152 158 162 Ponescu M 240	lacobescu, F.	168	Popescu, F.	162, 176	Zivkovic, D.	202
1011c1, 1. 102, 100, 102 1 opesou, W. 240	Ionel, I.	152, 158, 162	Popescu, M.	240		