

ICNRA2021



INTERNATIONAL CONFERENCE ON

**NUCLEAR TECHNOLOGY,
RADIATION SAFETY AND
ADVANCED TECHNOLOGICAL
RESEARCHES**

Zoom Link

Date : Friday, 10 Dec., 2021

Meeting ID: 854 4852 0847

Passcode : 834387

Zoom Link

Date : Saturday, 11 Dec, 2021

Meeting ID: 824 4810 9561

Passcode : 400369

***Utilization of Nuclear Technology in
Sustainable Development***

CRDFGLOBAL



In partnership with
Canada

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Dear Colleagues,

We gladly announce international conference “Nuclear Technology, Radiation Safety and Advanced Technological Researches” (ICNRA 2021) to be held via online (zoom) on December 10-11, 2021.

The conference aims to bring together academicians, and researchers. We also aim that this conference benefits women in academics community and ensure our panel discussions have women represented. The conference will let the academics and researches to exchange and discuss the original research results, practical development experiences and technological advancements of future applications with other academics.

The main objective of the Nuclear Technology, Radiation Safety and Advanced Technological Researches is to provide a common platform to improve theory and practice of various disciplines and sectors. It will be a perfect opportunity for academicians, researchers, and students to express their innovative and unique research work at this platform.

The International Conference on Nuclear Technology, Radiation Safety and Advanced Technological Researches (ICNRA 2021) will also provide a privilege to the participants to ensure advantages and opportunities involved in sustainability of innovation in Nuclear Technology, Radiation Safety and Advanced Technological Researches with respect to current industrial and academically researches.

The conference abstract E-book is supported financially by Istanbul Technical University. The conference abstract E-book is pressed by Istanbul Technical University Library. Participants can publish their abstract in Istanbul Technical University ISBN Electronic Book.

This conference was organized based on the project named “Utilization of Nuclear Technology for Sustainable Development”. The project was made possible with a grant issued by CRDFGlobal through the generous support provided by Canada Global Affairs. Conference language is English.

We would like to meet you and share our data via online zoom platform.

Executive Committee

10 DECEMBER / FRIDAY

10:00-20:00

11 DECEMBER / SATURDAY

10:00-18:00

10 DECEMBER / FRIDAY
OPENING CEREMONY OF THE CONFERENCE
9.45-10.00 AM (GMT+3) (for Istanbul Time)

**NUCLEAR ENERGY, NUCLEAR REACTIONS
AND NUCLEAR REACTOR PHYSICS**

10:00-10:15 PLENARY LECTURE:

**'APPLICATION OF NUCLEAR REACTION ANALYSIS IN SURFACE
AND INTERFACE CHARACTERIZATION'**

Prof.Dr. Ziyuan Liu

Institute of Physical and Chemical Research (RIKEN), JAPAN

10:15-10:30 PLENARY LECTURE:

'NUCLEAR REACTIONS AND STRUCTURE'

Assist.Prof. Dr. Atef Ismail

Department of Physics, Al-Azhar University, 71524 Assiut, EGYPT

10:30-10:45 PLENARY LECTURE:

'NUCLEAR ENERGY AND SUSTAINABLE DEVELOPMENT: A BRIEF SURVEY'

Assist. Prof. Dr. Sihem BENGHABRIT, H. MEHNANE, M. ADNANE

University of Sciences and Technology Mohamed Boudiaf Oran, ALGERIA

10:45-11:00 PLENARY LECTURE:

**'SFR REACTORS AS THE 4TH GENERATION OF NUCLEAR POWER PLANTS:
AN ENERGY APPROACH'**

Dr. Alireza Pirmohamadi

University of Mohaghegh Ardabili, IRAN

11:00-11:15 PLENARY LECTURE:

**'INVESTIGATION OF THE NEUTRON INDUCED REACTION
CROSS SECTION OF THE ^{165}HO '**

Asiye Guroi, Prof. Dr. Ismail Hakki Sarpun

Akdeniz University, TURKEY

11:15-11:30 PLENARY LECTURE:

**'SITU LEACHING METHOD FOR NON RADIOACTIVE RARE-EARTH MINERAL EXPLORATION
AND PRODUCTION: A NEW PERSPECTIVE'**

a b Dr Amir Rostami, a Prof.Dr. Noorhana Yahya

aSpin Eight Nano Technologies Sdn. Bhd., 28, Persiaran Jelapang Maju 7, Kawasan
Perindustrian Ringan Jelapang Maju, 30020, Ipoh, Perak, MALAYSIA

b Universiti Teknologi PETRONAS, Sri Iskandar, 32610, Perak, MALAYSIA

11:30-11:45 PLENARY LECTURE:

**'RELATIONSHIPS BETWEEN INDOOR AND SOIL GAS RADON CONCENTRATIONS
AND TERRESTRIAL RADIOACTIVITY IN AFYONKARAHISAR'**

Prof. Dr. Hüseyin Ali Yalim

Afyon Kocatepe University, TURKEY

11:45-12:00 PLENARY LECTURE:

**'IONISATION CROSS SECTIONS OF DIATOMIC MOLECULES
BY ELECTRON IMPACT AT LOW ENERGY REGIME'**

Assoc.Prof.Dr. Zehra Nur Ozer

Afyon Kocatepe University, Afyon Vocational School, Afyonkarahisar, TURKEY

NEW ADVANCED TECHNIQUES IN AEROSPACE INDUSTRY

12:00-12:15 PLENARY LECTURE:

'NEW SPACE, AND MEDICAL EQUIPMENTS'

Dr. Kuang-Han Ke

Gran Systems Chairman, Taipei-Keelung Metropolitan area, Taipei, TAIWAN

12:15-13:00 LUNCH

NUCLEAR BATTERY APPLICATIONS AND ENERGY STORAGE

13:00-13:15 PLENARY LECTURE:

'NANOSTRUCTURED OXIDE SEMICONDUCTOR MATERIALS FOR BETAVOLTAIC DEVICES'

Prof. Dr. Kaiying Wang

University of South-Eastern Norway, NORWAY

13:15-13:30 PLENARY LECTURE:

'NUCLEAR BATTERY: A SOURCE OF CARBON FREE ENERGY'

Assoc. Prof. Dr. Mirza Khurram Baig

Universiti Teknologi PETRONAS, MALAYSIA

13:30-13:45 PLENARY LECTURE:

'HYBRID NUCLEAR-RENEWABLE ENERGY SYSTEMS FOR SUSTAINABLE DEVELOPMENT: CURRENT STATUS AND FUTURE PROSPECTS'

Indu Kumari a, Dr. Srikanth Ponnada b*

aDepartment of Biotechnology, Chandigarh Group of Colleges, Landran, Mohali-140307, India.

bDepartment of Engineering Chemistry, Andhra University College of Engineering (A), Andhra University, Visakhapatnam-530003, Mumbai, INDIA

13:45-14:00 PLENARY LECTURE:

'LI-AIR BATTERIES'

Dr. Muhammad Mushtaq

Beijing University of Technology, CHINA

14:00-14:15 PLENARY LECTURE:

'BIOMASS-DERIVED POLYMERIC BINDERS IN SILICON ANODES FOR BATTERY ENERGY STORAGE APPLICATIONS'

Omer S. Task

Istanbul University, Institute of Marine Science and Management, TURKEY

14:15-14:30 PLENARY LECTURE:

'CATALYSIS FOR ENERGY STORAGE APPLICATIONS'

Assoc. Prof. Dr. Neslihan Yuca

Maltepe University, TURKEY

RADIATION SAFETY AND PROTECTION

14:30-14:45 PLENARY LECTURE:

'RADON AND INDOOR RADON GAS MEASUREMENTS IN TURKEY'

Dr. Nesli Bingoldag

TENMAK NUKEN Radiation Measurement and Control Unit, TURKEY

14:45-15:00 PLENARY LECTURE:

'PROTECTIVE TEXTILE ENHANCED WITH NANOCCLAYS'

Ecehan Aygul Gonul, Assoc. Prof. Dr. Birgul Benli

Istanbul Technical University, TURKEY

15:00-15:15 BREAK

15:15-15:30 PLENARY LECTURE:

'USE OF ACOUSTIC EMISSION PATTERN RECOGNITION TO IDENTIFY CORRELATION BETWEEN RUPTURE LIFETIME AND FAILURE MODE FOR STRESSED 2D-C/SIC UNDER OXIDATION CONDITIONS'

4Prof. Dr. Andy Augusti, Peng Lv^{1,2}, Leijiang Yao¹, Xiaofei Ma², Gang An², Guodong Bai³
Xiaoyan Tong¹

1. Laboratory of Science and Technology on UAV, Northwestern Polytechnical University, Xi'an 710065, **CHINA**
2. Xi'an Institute of Space Radio Technology, Xi'an 710100, **CHINA**
3. School of Aeronautics, Northwestern Polytechnical University, Xi'an 710072, **CHINA**
- 4 Faculty of Science, Engineering and Computing, Kingston University London, SW15 3DW **UNITED KINGDOM**

15:30-15:45 PLENARY LECTURE:

'THE SOLAR UV RADIATIONS BY ON-SITE MONITORING APPLICATIONS'

Dr. Oana Ulieru

SITEX45 SRL Company, **ROMANIA**

15:45-16:00 PLENARY LECTURE:

'ADVANCE MICROWAVE POWER METROLOGY'

Dr. Murat Celep

National Physical Laboratory, **UNITED KINGDOM**

16:00-16:15 PLENARY LECTURE:

'BANANA-PEEL DERIVED POROUS ACTIVATED CARBON FOR MICROWAVE ABSORPTION AT X-BAND FREQUENCY'

Dr. Jemilat Yetunde Yusuf, Dr. Afza Shafi, Assoc. Prof. Hassan Soleimani
Universiti Teknologi PETRONAS, **MALAYSIA**

16:15-16:30 PLENARY LECTURE:

'MODIFYING THE PARAMETERS OF ZNS THIN FILMS VIA IMPURITY DOPING'

Assoc. Prof. Dr. Serco Serkis Yesilkaya

Yildiz Technial University, **TURKEY**

16:30-16:45 PLENARY LECTURE:

'ELECTROMAGNETIC RADIATION'

Dr. Nursev Erdogan

ASELSAN, **TURKEY**

DEVELOPMENTS IN TRANSISTORS, SENSORS AND RADIATION AREA

16:45-17:00 PLENARY LECTURE:

'FABRICATION OF ORGANIC HETEROJUNCTION'

Prof. Dr. Mostefa Abuaahmed Benhaliliba

Oran University of Sciences and Technology, **ALGERIA**

17:00-17:15 PLENARY LECTURE:

'DUST EFFECT IN PHOTOVOLTAIC MODULES UNDER NATUREL SOILING EFFECT: A CASE STUDY OF ALGIERS WEATHER'

Assist. Prof. Dr. Amina Chahtou ¹, Hamza Merabet¹, El Amin Kouadri Boudjelthia ¹,
Hichem Hafdaoui ¹, Nesreddine Belhaouas¹

¹ Centre de Développement des Energies Renouvelables, CDER, BP. 62 Route de l'Observatoire
Bouzareah, 16340 Alger, **ALGERIA**

17:15-17:30 PLENARY LECTURE:

'COMPARISON OF YIELD OF GRAPHENE USING TWO DIFFERENT SULPHATE ELECTROLYTES'

Assist. Prof. Dr. Zia Ur Rehman, Mohammad Ahmeda, Muti ur Rehmana, Madiha Sabeena
Namal College Mianwali, aNamal Institute 30 km Talagang Road, Mianwali, 42250,
PAKISTAN

17:30-17:45 PLENARY LECTURE:

'MATERIAL AND TRANSISTOR APPLICATIONS'

Assist. Prof. Dr. Selma Rabhi

University of Yahia Fares Medea, Constantine, ALGERIA

17:45-18:00 PLENARY LECTURE:

'CONTACT ANGLE MEASUREMENT ON TEXTILE BASED THREADS SENSORS'

Dr. Saima Qureshi

University of Novi Sad, SERBIA

NEW ADVANCED TECHNIQUES IN PHOTOVOLTAIC, SOLAR ENERGY APPLICATIONS

18:00-18:15 PLENARY LECTURE:

'ADVANCED CHARACTERIZATION OF PHOTOVOLTAIC MATERIALS USING X-RAY PHOTOELECTRON SPECTROSCOPY'

Dr. Charif Tamina,^{b,c} Assist. Prof. Dr. Denis Chaumont^a Prof. Dr. Mohamed ADNANE^b

^a Laboratoire Interdisciplinaire Carnot de Bourgogne (ICB), Université de Bourgogne Franche, Dijon, FRANCE

^b University of Sciences and Technology Mohamed Boudiaf Oran, ALGERIA

^c Institut des Nanotechnologies de Lyon Villeurbanne, FRANCE

18:15-18:30 PLENARY LECTURE:

'MATERIAL FOR SOLAR ENERGY: EXTRACTION OF SILICON DIOXIDE FOR SOLAR GRADE SILICON'

Asmaa Boualem¹, Saad Hamzaoui¹, Liviu Leontie², Salvador Angel Gomez Lopera³

¹ Laboratory of Electronic Microscopy and Materials Science, Faculty of Physics, University of Science and Technology Mohamed Boudiaf, El Mnaouar, BP 1505, Bie El Djir 31000, Oran, ALGERIA.

² Faculty of Physics. Alexandru Ioan Cuza University Iasi, ROMANIA

³ Laboratory of Nanoparticles and Dispersion. Polytechnic University. Cartagena, SPAIN

18:30-18:45 PLENARY LECTURE:

'SUITABLE AND ENVIRONMENTALLY THIN FILMS FOR PHOTOVOLTAIC TECHNOLOGY'

Dr. Faten Belarbi

Science et de la Technologie Oran, ALGERIA

STRUCTURAL DEVELOPMENTS IN POLYMERS AND RADIATION AREA

18:45-19:00 PLENARY LECTURE:

'DOUBLE SLIT INTERFERENCE EFFECTS IN THE MOLECULAR CROSS SECTIONS'

Assoc. Prof. Dr. Zehra Nur Ozer

Afyon Kocatepe University, Afyon Vocational School, Afyonkarahisar, TURKEY

19:00-19:15 PLENARY LECTURE:

'PRODUCTION AND CHARACTERIZATION OF THERMOPLASTIC ELASTOMER FOAMS BASED ON STYRENE-ETHYLENE-BUTYLENE-STYRENE (SEBS) RUBBER AND POLYPROPYLENE'

Ceren Kiroğlu¹, Prof. Dr. Nilgün Kızılcın^{1,2}

¹ Graduate School of Science, Engineering and Technology, Polymer Science and Technology Department, Istanbul Technical University, 34469, Maslak, Istanbul, TURKEY

² Istanbul Technical University, Faculty of Science, Department of Chemistry, 34469 Maslak, Istanbul, TURKEY

MICROSTRUCTURAL AND CRYSTALLOGRAPHIC TEXTURE EVOLUTION OF MATERIALS AND RADIATION AREA

19:15-19:30 PLENARY LECTURE:

'NUMERICAL RESEARCH ABOUT FOW CHARACTERISTICS AND POLLUTANT DISPERSION USING THREE RANS TURBULENCE CLOSURE MODELS'

Dr. L. Ben Ramoul¹, A. Korichi¹, C. Popa², H. Zaidi³, G. Polidori²

¹ Laboratoire de Mécanique, Physique et Modélisation Mathématique, Université de Médéa, Médéa, **ALGERIA**

² GRESPI EA 4694, University of Reims Champagne-Ardenne, 51687 Reims Cedex 2, **FRANCE**

³ Laboratoire de recherche en Turbulence, Département Mécanique et Ingénierie Industrielle, Université de Toronto, Toronto, **CANADA**

19:30-19:45 PLENARY LECTURE:

'ENHANCEMENT MAGNETIC PROPERTIES OF A-Fe₂O₃ NANOCATALYST DURING SYNTHESIS USING EXTERNAL MAGNETIC FIELD'

Dr. Bilal Alqasem

Amman Arab University, **JORDAN**

19:45-20:00 PLENARY LECTURE:

'THE ROLE OF 3D PRINTING TECHNOLOGY IN TISSUE ENGINEERING APPLICATIONS'

Dr. Songul Ulag, Assoc.Prof.Dr. Oğuzhan Gündüz

Marmara University, **TURKEY**

11 DECEMBER / SATURDAY

NEW ADVANCED TECHNIQUES IN BIOMEDICAL ENGINEERING

10:00-10:15 PLENARY LECTURE:

'PETROLEUM MICROBIAL BIOTECHNOLOGY FOR ENERGY SUSTAINABILITY'

a Dr. Menaka Ganeson, b Eswaran Padmanabhana

^aPetroleum Research Fund, Universiti Teknologi PETRONAS, Seri Iskandar 32610, Perak, **MALAYSIA**

^bDepartment of Geosciences, Faculty of Science and Information Technology, Universiti Teknologi PETRONAS, Seri Iskandar, 32610, Perak, **MALAYSIA**

10:15-10:30 PLENARY LECTURE:

'ROLE OF ADVANCED MEDICAL IMAGING SYSTEMS IN THE DIAGNOSIS AND TREATMENT OF VARIOUS DISEASES'

Dr. Shahla Azizi

Amirkabir University of Technology - Tehran Polytechnic, **IRAN**

10:30-10:45 PLENARY LECTURE:

'SPARK PLASMA SINTERING OF NOVEL COMPOSITES WITH UNIQUE PROPERTIES BY COMBINING UHTCS AND MAX PHASES'

Assoc.Prof.Dr. Mehdi Shahedi Asl

University of Mohaghegh Ardabili, **IRAN**

10:45-11:00 PLENARY LECTURE:

'COMPARATIVE STUDY OF GAMMA-RAY ATTENUATION IN POLY (IMIDE SILOXANE) BLOCK COPOLYMER FOR BIOMEDICAL APPLICATIONS'

Dr.Turkan Dogan

Istanbul Technical University, **TURKEY**

12:00-12:15 PLENARY LECTURE:

'ELABORATION of CuZnSnS THIN LAYERS BY THE SILAR METHOD'

Bouchra BENMAZOUZA, Prof. Adnane Mohamed., Saad Hamzaoui
University of Sciences and Technology Mohamed Boudiaf Oran, ALGERIA

12:15-12:30 PLENARY LECTURE:

'PROPERTIES AND APPLICATIONS OF ELECTROLESS NICKEL-BORON BASED COMPOSITE COATINGS'

Mohammed Ba Dughhaish
The International Wars and Disasters Victims Protection Association, YEMEN

12:30-13:15 LUNCH

ADVANCED AND FUNCTIONAL MATERIALS & THIN FILMS

13:15-13:30 PLENARY LECTURE:

'SOL-GEL THIN FILMS IN TERNARY SYSTEM TiO₂-ZnO-B₂O₃ BY SPIN-COATING DEPOSITION'

Prof. Dr. Bogdan Alexandru Sava
National Institute for Laser, Plasma and Radiation Physics, ROMANIA

13:30-13:45 PLENARY LECTURE:

'METAL INJECTION MOLDING OF GRAFTED GRAPHENE REINFORCED COPPER MATRIX COMPOSITES'

Prof. Dr. Faiz Ahmad
Universiti Teknologi PETRONAS, MALAYSIA

13:45-14:00 PLENARY LECTURE:

'EFFECT OF WATER UPTAKE PERFORMANCE OF PLA/FLAX FIBER GREEN COMPOSITES ON THE IMPACT BEHAVIOUR'

1 Ali Avci, 2Prof.Dr. Aysegul Akdogan Eker, 1Prof.Dr.Mustafa Bakkal, 3Assist.Prof.Dr. M.Safa Bodur
1Istanbul Technical University, Istanbul, TURKEY
2Yildiz Technical University, Istanbul, TURKEY
3Yeditepe University, Istanbul, TURKEY

14:00-14:15 PLENARY LECTURE:

'AI DOPED ZnO THIN FILMS'

Mehdi Tonka¹, Prof. Dr. Feyza Guzelcimen², Prof. Dr. Nilgun Baydogan³
1Sirnak University, Sirnak Turkey
2Istanbul University, Istanbul, Turkey
3Istanbul Technical University, TURKEY

14:15-14:30 PLENARY LECTURE:

'OPTICAL PROPERTIES OF AL DOPED ZNO NANOWIRES PRODUCED BY HYDROTHERMAL GROWTH'

Dr. Hale Tugral
Istanbul Technical University, Istanbul, TURKEY

14:30-14:45 PLENARY LECTURE:

'RADIATION EFFECT ON CIGS THIN FILM'

Assist. Prof. Dr. Utku Canci Matur
Istanbul Gedik University, TURKEY

14:45-15:00 PLENARY LECTURE:

'MANUFACTURING PROCESSES OF ZnO:Al THIN FILM DERIVED BY SOL-GEL PROCESS'

Dr. Osman Urper
University of South-Eastern Norway, NORWAY

15:00-15:15 PLENARY LECTURE:

'ADVANCED TECHNOLOGIES FOR UNDERWATER WIRELESS COMMUNICATION SYSTEMS'

Assist. Prof. Dr. Muhammad Rauf

Dawood University of Engineering and Technology, MALAYSIA

15:15-15:30 PLENARY LECTURE:

'INVESTIGATION OF FLAME RETARDANCY PROPERTIES OF POLYPROPYLENE-COLEMANITE AND IN LUMINESCENT FLAME RETARDANT ADDITIVE BLENDS'

Merve Kahraman, Prof. Dr. Nilgun Kizilcan

Istanbul Technical University, TURKEY

15:30-15:45 PLENARY LECTURE:

'NANOSILICA CONTAINING WATERBORNE POLY(URETHANE FOR PAPER COATING'

Yunus Erkahraman, Assoc. Prof. Dr. Nesrin Koken

Istanbul Technical University, TURKEY

15:45-16:00 BREAK

RESEARCHES ON RARE EARTH MINERAL EXPLORATIONS

16:00-16:15 PLENARY LECTURE:

'INVESTIGATION OF ULTRASONIC PROPERTIES OF NI-FE-B4C COMPOSITES PRODUCED IN DIFFERENT COMPOSITIONS

Assist. Prof. Dr. Vildan ÖZKAN BİLİCİ

Afyon Kocatepe University, Faculty of Arts and Sciences, Department of Physics, 03200, Afyonkarahisar, TURKEY

16:15-16:30 PLENARY LECTURE:

'INVESTIGATION OF NEUTRON EMISSION SPECTRA OF $^{116,117,118,119,120,122,124}\text{Sn}$ ISOTOPES INDUCED BY PROTON AT 7-11 MEV ENERGIES'

Ali Onur Kaya, Prof. Dr. Ismail Hakkı Sarpun

Akdeniz University, TURKEY

16:30-16:45 PLENARY LECTURE:

'THE STUDY OF RADIATION SHIELDING PERFORMANCE FOR PMMA COLEMANITE COMPOSITE'

Shima Mehranpour, Prof. Dr. Nilgun Baydogan

Istanbul Technical University, Energy Institute, Istanbul, TURKEY

16:45-17:00 PLENARY LECTURE:

'INVESTIGATION OF THE REACTION RATE AND CROSS SECTION OF $^{181}\text{Ta}(\alpha, n)^{184}\text{Re}$ REACTION IN THE RANGE OF 10-30 MEV'

Ercan Yıldız a, Prof. Dr. Ismail Hakkı Sarpun b,c and Selcan Şahin b

a Kahramanmaraş Sutcu Imam University, Vocational School of Health Services Dept. of Medical Imaging Tech., Kahramanmaraş, TURKEY

b Akdeniz University, Physics Department, Antalya, Turkey, Akdeniz University

c Nuclear Sciences Research and Application Center, Antalya, TURKEY

17:00-17:15 PLENARY LECTURE:

'SYNTHESIS OF PMMA/BORAX COMPOSITES TO IMPROVE GAMMA SHIELDING PROPERTIES'

Fuat Berke Gul, Prof. Dr. Nilgun Baydogan

Istanbul Technical University, Energy Institute, Istanbul, TURKEY

17:15-17:30 PLENARY LECTURE:

'INVESTIGATION OF BORON CARBIDE BEHAVIOR ON POLYMETHYLMETHACRYLIC'

Duygu Tuluk, Prof. Dr. Cuneyt Arslan, Prof. Dr. Nilgun Baydogan

Istanbul Technical University, TURKEY

NUCLEAR TECHNOLOGICAL APPLICATIONS

Mathematical Modelling, Numerical Methods, Experimental Methods, Industrial Applications

17.30-17.45 PLENARY LECTURE:

'NUCLEAR METEOROLOGY ANALYSIS'

Prof.Dr. Sevinç Sırdaş

Istanbul Technical University, Istanbul, TURKEY

17:45-18:00 PLENARY LECTURE:

**'MONTE CARLO METHOD TO SIMULATE VIRTUAL SOURCE MODEL
ON AN ELEKTA VERSA HD LINAC'**

Dr.Sümeyra Can, Prof.Dr.Niyazi Meric

Ankara University, TURKEY

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Istanbul Technical University,
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ALGERIA

Prof.Dr. Cuneyt ARSLAN

Materials Engineering Department,
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