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5th International Conference and Expo on

Ceramics and Composite Materials

June 03-04, 2019

London, UK



SCIENTIFIC PROGRAM

DAY 1
Monday, 3rd June

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01

KEYNOTE LECTURES

11:50-13:10

MEETING HALL 01

Talks On:

- Ceramic Engineering
- Composite Materials
- Glass Engineering and Science

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01

Talks On:

- Nanotechnology
- Polymer Science and Engineering
- Materials Science and Engineering

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)

Young Researchers in Ceramics and Composite Materials

DAY 2
Tuesday, 4th June

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50 — **MEETING HALL 01**

Talks On:

- Surface Engineering and Ceramic Coating
- Electro-magnetic and optical ceramics and devices
- Superconductivity

12:50-13:35 LUNCH BREAK

13:35-15:55 — **MEETING HALL 01**

Talks On:

- Ceramography
- Tissue engineering
- Ceramics in Biology and Medicine

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)

Poster Presentations

Previous Organizing Committee



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Institute of Research in Chemistry of Paris France



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New York University College

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Materials Science Institute of Seville

Spain

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Instituto de Ceramica y Vidrio, Spain

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Karlsruhe Institute of Technology, Germany

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Chiba Science Institute, Japan

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SPCTS laboratory, France

Maria Vartanuan
D. Mendeleev University of Chemical Technology, Russia

Chaoying Ni
University of Delaware, USA

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Chevron Industries, UK

Julian Reinosa
Institute of Ceramics and Glass, Spain

Rosalía Poyato
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Cristina López-Pernía
Cristina López-Pernía, Universidad de Sevilla, Spain

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University of Dschang, Cameroon

Danjela Kuscer
Jozef Stefan Institute, Slovenia

Dieraert Axel
CEA, DAM, France

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D.Mendeleev University of Chemical Technology, Russia

Satoshi Sugita
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Fidan Tonza
Ondokuz Mayis University, Turkey

Ceren Peksen
Ondokuz Mayis University, Turkey

Jesús Ma Rincon
Instituto de Ciencias de la Construcción Eduardo Torroja, Spain

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University of Hamburg, Germany

Ester Barrachina
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Priazovskyi State Technical University, Ukraine

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Kwang Leong Choy
University College London, UK

Martin Amlung
INM – Leibniz-Institute for New Materials, Germany

Csaba Hegedus
University of Debrecen, Hungary

Salvatore Grasso
Queen Mary University of London, UK

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Czech Academy of Sciences, Czech Republic

Sergei Kulkov
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Rzeszow University of Technology, Poland

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Karlsruhe Institute of Technology, Germany

Nehal Elkhoshkhany
Alexandria University, Egypt

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AKHAN Semiconductor, USA

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Argonne National Laboratory, USA

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Morgan Advanced Materials, USA

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LGC Consultants LLC, USA

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Tohoku University, Japan

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Xi'an Jiaotong University, China

Zahra Komeily Nia
Deakin University, Australia

Mohammed Alamri
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Jagiellonian University in Krakow, Poland

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Catalan Institute of Nanoscience and Nanotechnology, Spain

Camelia Matei Ghimbeu
Institute of Materials Science of Mulhouse, France

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JUNE 03-04, 2019 LONDON, UK

AGENDA

Title: Glory of Piezoelectric Perovskites

Kenji Uchino
The Pennsylvania State University
USA

Kenji Uchino, the pioneer in "piezoelectric actuators", is Founding Director of International Center for Actuators and Transducers, Professor of EE and MatSE, and Distinguished Faculty of Schreyer Honors College at The Penn State University. He was Founder and Senior Vice President of Micromechatronics Inc., State College, PA from 2004 till 2010, and Associate Director at Office of Naval Research – Global from 2010 till 2014. After his Ph. D. degree from Tokyo Institute of Technology, Japan, he became Research Associate (1976) at this university. Then, he joined Sophia University, Japan as Associate Professor in 1985. He was recruited from The Penn State in 1991. Uchino is currently the IEEE UFFC Distinguished Lecturer.

Title: Novel Polymer-derived Ceramic Matrix Composite Fabrication using Additive Manufacturing for High Temperature Aerospace Applications

Spencer Dansereau
University of Colorado Boulder
USA

Spencer Dansereau studied Modern Languages and Literature and Mechanical Engineering at Montana State University. In addition to having worked under a National Science Foundation Partnership in International Research and Education fellowship at the University of Colorado Boulder and University of Padova in Italy. He has also worked for the following Laboratories at MSU: Imgaing and Chemical Analysis Laboratory (Physics), High Temperature Materials Laboratory (ChBE), Material Structure and Properties Laboratory (ME).

Title: The terahertz phonon properties of complex and hybrid materials

Alessandro Cunsolo
NSLS II, Brookhaven National Laboratory
USA

Alessandro Cunsolo has worked in university laboratories for 4 years and in national laboratories and research facilities for 16 years. He is an acknowledged expert in physics of liquids and amorphous systems, in the development of Inelastic X Ray and Neutron Scattering spectrometers in synchrotron and reactor based research facilities. His publication record includes more than 90 publications in international scientific journals.

SPEAKER SLOTS AVAILABLE

Title: Ceramics in Particle Accelerators

Charles Hetzel,
Brookhaven National Laboratory,
USA

Dr Yan Huang leads metallic biomaterials research at Brunel, working on both traditional permanent titanium implants and novel biodegradable magnesium medical devices for orthopedic cardiovascular applications. He recently won three research grants in biomaterials research from the Royal Society, EPSRC and European Commission. He has extensive experience in process innovation for combined solidification and thermomechanical processing, solid state joining, severe plastic deformation for light alloys and light metal matrix composites.

Title: Characterization and performance of metal matrix particular nanocomposites fabricated by high shear solidification

Yan Huang
Brunel University
London
UK

Dr Yan Huang leads metallic biomaterials research at Brunel, working on both traditional permanent titanium implants and novel biodegradable magnesium medical devices for orthopedic cardiovascular applications. He recently won three research grants in biomaterials research from the Royal Society, EPSRC and European Commission. He has extensive experience in process innovation for combined solidification and thermomechanical processing, solid state joining, severe plastic deformation for light alloys and light metal matrix composites.

Title: The oxidation behaviour of a melt infiltrated (MI) SiC/SiC matrix composite

Nasrin Al Nasiri
Imperial College London
UK

Nasrin joined Imperial in December 2010 as a PhD student within the Department of Mechanical Engineering. She obtained BSc. and MSc. in Aerospace Engineering from Delft University of Technology, The Netherlands. After her PhD, she worked on the oxidation behavior of SiC ceramic matrix composites (CMCs) and designing new environmental barrier coatings. She has been awarded with the Imperial College Junior Research fellowship in November 2016 for a funding of 3 years. In September 2018, she has started her Royal Academy of Engineering Research Fellowship

SPEAKER SLOTS AVAILABLE

Title: Smart Composite for Structure Health Monitoring

Klaudio Bari
University of Wolverhampton
UK

Dr. Klaudio Bari, Principal Lecturer and academic lead for research and business operation at school of Engineering. Dr. Bari is a reviewer member in EPRSC funding panel in the field of high resolution X-ray tomography imaging. He has over 25 journal and conference publications in the field of material performance under harsh environment, design and optimisation of metallic and polymeric composite, X-ray tomography and multi-scale modelling of composite mechanics.

Title: Preparation of ceramic membranes of nanofiltration by nano-deposition to be used in the purification of water with diferent contaminants

Irlanda Cruz
National School of Biological Sciences, IPN
Mexico

Irlanda Cruz has completed the master's degree studies at CIITEC in 2012-2014, I am doing pHD studies in Nanoscience and micro and Nanotechnology at ESIQIE-IPN, I have two publications in international journals, I am a member of the "Asociación Mexicana Transdisciplinaria de Nanociencia y Nanotecnología (AMEX-TNN,A.C.)".

Title: Wood reinforced slag matrix composites activated by carbon dioxide

Yixin Shao
McGill University
Canada

Dr Yixin Shao is a Professor of the Department of Civil Engineering at McGill University, Montreal, Canada. He received his Bachelor Degree and Master Degree from Tongji University, China and his PhD degree from Northwestern University, USA. His research is involved with low energy cement, cement chemistry, calcium silicates, carbon dioxide utilization in concrete, use of industry wastes for sustainable development.

SPEAKER SLOTS AVAILABLE

Title: Impact of temperature on cement paste additivated with nanoparticles

Nicolás Pérez
Simon Bolivar University
Venezuela

Nicolas Perez has a Degree in Materials Engineering and is in acceptance process for a Master in Science in Renewable Energy business. With two years of experience has a strong development in the studies of Energy Systems for upstream oil industry, developing technical evaluations in oil-producers Join Ventures in Venezuela. His studies in Oil and Gas business, FEA and CFD analysis and project design and development allow him to develop projects together with technical users with a very solid knowledge in efficiency of the industry in order to develop state of the art solutions.

Title: Polymer derived metal containing SiC(O)-based ceramic nanocomposites for methanation Samples

Sarabjeet Kaur,
University of Bremen,
Germany

Dr. Sarabjeet Kaur is a PostDoc at Department of production engineering, Universität Bremen, Germany. Currently her research is focused on the synthesize and fabrication of SiC-based ceramic nanocomposites with micro-meso-macroporosity. Her main research fields are Materials chemistry, synthesis and characterization, Polymer-derived ceramics/nanocomposites, geopolymer and geopolymeric materials and porous ceramics. She also received research scholarship by EU cost project under short-term scientific missions for a topic on synthesis of carborane based polymeric precursors for ultrahigh-temperature stable SiBC ceramics.

Title: Complex analysis of the porous structure of activated carbons prepared

Mirosław Kwiatkowski
AGH University of Science and Technology
Poland

Dr. Mirosław Kwiatkowski is working an assistant professor at the AGH University of Science and Technology, at the Faculty of Energy and Fuels. He is the editor in chief of The International Journal of System Modeling and Simulation (UAE), an associate editor of Micro & Nano Letters Journal (UK) and a member of the organizing and scientific committees many international conferences in Europe, Asia and United States of America.

SPEAKER SLOTS AVAILABLE

Title: Influence of Nitriding Process on Magnetic Properties of Steel Ball-like

Slawomir M Kaczmarek
West Pomeranian University of Technology
Poland

Slawomir Maksymilian Kaczmarek has his expertise in evaluation and passion in materials science. For many years he was involved in optical and EPR spectroscopy of crystalline laser and scintillation materials produced by himself and other scientific centers in Poland, France and Japan. He mainly studied oxide materials such as garnets, lithium niobate and fluorides doped with transition metals and rare earths. At the same time, he was a lecturer in physics, electronics and optoelectronics at the Military University of Technology in Warsaw and the West Pomeranian University in Szczecin.

Title: Phonons in composite nanostructures: an analytic approach

Sergiu Cojocaru
National Institute of Physics and Nuclear Engineering
Romania

Sergiu Cojocaru is a senior researcher at the Department of Theoretical Physics of the National Institute of Physics and Nuclear Engineering, Romania. He authors over 100 scientific publications in several areas of Condensed Matter Theory (disordered systems, strong electron correlations, high-temperature superconductivity, magnetism). His current interests are in nanophysics and, in particular, the physical effects of confinement on the properties of nanostructures

Title: Eutectoids: new bioceramic materials for bone tissue engineering.

Piedad N de Aza Miguel Hernández University
Spain

Piedad N de Aza received her doctoral degree in Chemistry-Ceramin 1995. She did a postdoctoral stage at the IRC in Biomaterials at the Queen Mary College, University of London (U.K.) working on in vitro and in vivo behavior of bioceramics. At this moment, she is the Chair of the Materials Science, Optic and Electronic Technology Department, Professor of Materials Science and Metallurgical Engineering and Researcher at the Bioengineering Institute at the Miguel Hernandez de Elche University.

SPEAKER SLOTS AVAILABLE

Title: The antiferroelectricity in (Pb,Ca,Sr)TiO3 ceramics

Liuyang Han
IEMN-DOAE-Universite Polytechnique Hauts-de-France
France

Liuyang Han is a PhD student in the third year of IEMN-DOAE-Universite Polytechnique Hauts-de-France and Shanghai Institute of Ceramics. She works on PCST functional ceramics and antiferroelectric-based magnetoelectric composites. She has published 2 papers in reputed journals and aims to do more interesting work.

Title: Tough composite ceramic material for aircraft: interior, cargo compartment and unit load device (fire and explosion container ULD).

Max Sardou
Sardou sas CEO St Soupplets,
France

Dr. Max SARDOU is master in physic and doctor engineer: He has discovered ground effect in 1973 during his thesis work. He has worked 5 years on ARIANE LO1 rocket . He has created SARDOU SAS in 1980. Dr. Max SARDOU has: designed and produced the fastest mowing ground in the world in 1985 working for racing car manufacturers, studied ultra-low noise fans, designed composite torsions springs, designed composite "C" springs, designed composite coils springs, invented EPOSIL a high-performance epoxy, invented TOUGHCERAM a high-performance ceramic. Now he works on high performances materials and technologies.

Title: Four types of electrons, each allowing matter to behave in a specific way, according to twin physics.

Anna Backerra
The Netherlands

Backerra has graduated in theoretical physics at the Eindhoven University of Technology in The Netherlands and worked for three years at Philips Research Laboratories. She continued independently, making a search for complementary physics. To develop a way of complementary thinking she studied composition at the Conservatory in Enschede and in Saint Petersburg. After that she constructed a complementary mathematical language and applied this on physics, obtaining twin physics.

SPEAKER SLOTS AVAILABLE

Title: Strontium Aluminate based aerogel phosphors for the enhanced afterglow properties

Gaganpreet Kaur Behrh
EMPA, ETH
Switzerland

Gaganpreet Kaur Behrh is currently pursuing her Postdoc from ETH Switzerland on metal oxide based aerogels. She also has quite a good experience in both solid state and soft chemistry routes. During PhD, she synthesized rare earth based doped aluminates, silicates, gallates etc based materials via both solid state and soft chemistry routes. She has quite a good experience in characterization techniques including XRD, SEM, Photoluminescence spectroscopy, BET etc. In short, Gaganpreet Kaur has achieved quite an experience in Nanoscience and Nanomaterials and has been successfully able to publish in high impact factor journals.

Title: Ceramic Materials surface structuration with carbon nanotubes: ZnS and MgF2 Optical Ceramics

N.V.Kamanina
Vavilov State Optical Institute
Russia

N.V.Kamanina is a Head of the Lab for "Photophysics of media with nanoobjects" at Vavilov State Optical Institute St.-Petersburg, Russia and Professor of the St.-Petersburg Electrotechnical University, where she is lecturing from 2002. Under her leadership 5 young scientists have defended their PhD theses and more than 20 Masters and Bachelors have received their Degree's Diploma. Now her current interest regards to Nano- and Bio-Technology in Optics.

Title: Producing Nanopowders for Functional Ceramics by Pulsed Electron Beam Evaporation Method in Vacuum

Sergey Sokovnin
Institute of Electrophysics UB RAS
Russia

Prof. Sergey Sokovnin has his expertise in pulse power technique, radiation technology and nanotechnology. He developed a method for production of nanopowders, including evaporation of a target by a pulsed electron beam, condensation of the vapor of the material in a low-pressure gas, and deposition of nanopowders on a large cold square crystallizer.

SPEAKER SLOTS AVAILABLE

Title: Exploring the relationship between thickness and the characteristic temperature of Mn1.56Co0.96Ni0.48O4±δ films

Wenwen Kong
Xinjiang Technical Institute of Physics & Chemistry of CAS
China

Wenwen Kong has her expertise in temperature sensitive materials and components. Her resently results have opened a way to design a desired negative temperature coefficient thermistor by adjusting the thickness and period orientation of the ceramic films.

Title: The research on antioxidaiton and mechanical property of SiC-ZrO2-MoSi2/Ni coated CF reinforced phenolic resin composites

Guangyuan Yang
China Tobacco Hubei Industrial, LLC
China

Guangyuan (David) Yang is the PhD candidate of Wuhan University of Technology, also he is working for China Tobacco Hubei Industrial, LLC as a material engineer. He is focusing on ablation materials and functional cigarette materials, especially on antioxidation coatings and flavor capsule. He uses sol-gel method and composite electroplating to make ceramic coatings to improve the oxidation resistance of CF and its reinforced composites. The mint flavor capsule in cigarette he develops has been sold in the market known as 8oC.

Title: Piercing the Veil of Modern Physics. Part 3 & Superconductivity

Jian Ding
Qilu Normal University China

Our research (including three parts of Basics and Philosophy and Superconductivity) the core of which is the philosophical part. It is from the perspective of all knowledge to describe how understand and confirm the absolute truths, as well as their attribution, characteristics and application. This philosophical principle has universality, which can provide the reliable bases for exploring or checking the various laws of natural.

SPEAKER SLOTS AVAILABLE

Title: Development of New Generation SiC Armour Ceramics Reinforced with Reduced Graphene Oxide/Graphene Oxide

Burcu Yilmaz Nurol
Technologies Inc.

Burcu Yılmaz has received her BS degree in Material Science and Nanotechnology Engineering. She has expertise in synthesis and characterization of 2D carbon nanomaterials. She has carried on studies based on graphene and graphene oxide materials and their polymer and ceramic composites. For a while now, she has been working in the field of defence industry. At this company, she has been studying on advance ceramic materials, sinter additives and binder agents. In addition, she also has been investigating the effect of nanomaterials on advanced ceramic matrix.

Title: Formation of Aluminum-Oxide Layer on the Surface of Fe-Cr-Al Fibers

Osama M. Ibrahim Kuwait
University
Kuwait

Dr. Ibrahim graduated from the University of Wisconsin-Madison, USA with a Ph.D. degree in Mechanical Engineering and minor in Chemical Engineering. He has held various teaching, research & development, and executive management positions at RYPOS, Inc., University of Rhode Island, and University of North Carolina-Charlotte.Currently he is a visiting Associate Professor at University of Kuwait

Title: Comparative Studies on Nanocomposite Polymer Electrolyte Films and their Nanofibers {(PVA:NH4SCN):Al2O3} system for electrochemical devices efficiency

Neelesh Rai
AKS University

Dr. Neelesh Rai has completed his Ph.D. degree in theoretical & experimental Condensed Matter Physics & Nanocomposites and has been serving as an editorial board member of World Solid State Ionics Society, New Jersey, Frontiers of Mechatronical Engg., Ceramic Sciences & Engg., USA, Journal of Innovation in Applied Research. He had started his career as a Research Interns in Advanced Materials & Processes Research Institute Govt. of India and later on shifted to AKS University

SPEAKER SLOTS AVAILABLE

Title: Mathematical modeling of processes through experimental identification and artificial intelligence techniques for the improvement of energy and metallurgical

Deynier Montero Góngora
Metallurgical Institute of Moa

Deynier Montero Góngora has his expertise in modeling and identification of industrial processes. His model based on experiments and techniques of artificial intelligence that allow to improve the energetic and metallurgical efficiency. He has built this model after years of experience in research, evaluation, teaching, both in educational institutions and companies. The Institute guarantees the integral and continuous training of professionals; develops with quality and relevance science, technology, innovation, university extension and postgraduate studies in the mining branch; contributes to the prosperous and sustainable development of Cuban society.

Title: Influence of excess alumina on mullite synthesis with pyrophyllite-alumina by spark plasma sintering process

Rasidi Sule
University of Witwatersrand

Rasidi Sule is a young researcher whose work is focussed mainly on the spark plasma sintering of metal matrix composites and ceramics for various applications. He has developed the procedure for achieving full densification and high thermal conductivity of compacts made with submicron copper powder with angular particles, which has received less research attention and demand compared to spherical powders. He has developed a simple and efficient process of dispersing CNTs into a copper matrix without damaging the nanotubes structure.

Title: The Effect of Temperature on Bonds Length of ZnO Wurtzite Phase Under Low and High Pressure and Temperature a Molecular Dynamics Prediction

Yahia Chergiu
Boumerdes University

Yahia CHERGUI has completed his PhD from Badji Mokhtar University in Annaba, Algeria. He is a teacher in Boumerdes University since 2012. He has published more than 8 papers in reputed journals and has been serving as a referee with condensed matter journal (IOP) and Energy journal(Elsevier).He passed 6 months in Cardiff university and Queen University for summer school.

SPEAKER SLOTS AVAILABLE

Title: Toughness and Dielectric Behavior of Polycristalline Alumina

L. Haddour
University of Science and Technology Houari Boumediene

Haddour Lillia, Doctor in metallurgy obtained at the Algiers National Polytechnic School in Algeria. She has worked on the relationships between the microstructure and mechanical and dielectric properties of polycrystalline alumina. This work was done in collaboration with the IFOS Lyon Central School and the Saint Etienne National Mining School. Currently, she is a research professor in the Materials Technology Laboratory at the University of Science and Technology HB in Algiers. She is leading a research project on thermal projection and tribology of metals and composites.

Title: Influence of Galia (Ga2O3) Addition on the Phase Evolution and Grain Growth

Chen Barad
Ben-Gurion University

Chen Barad is a graduate student and has expertise in sol-gel synthesis and in the field of ceramic materials. Her previous knowledge and experience in chemistry and chemical engineering creates new pathways for research in the field of ceramic materials. She has experience in research of YSZ powders and other zirconia based powders for energy applications (solid oxide fuel cells and thermal barrier coatings), designing powder particle morphology and analyzing XRD patterns.

Title: Advanced lightweight textile performs & composite materials

Abbasali Saboktakin,
University of Sistan & Baluchestan

Abbasali Saboktakin received Ph.D degree in Mechanical/Aerospace engineering from Canada and now is assistant professor of mechanical engineering department at University of Sistan & Baluchestan, Iran. He has collaborated with the well-known aerospace companies in the field of production and testing aerostructures in North America & Europe.

SPEAKER SLOTS AVAILABLE

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Biography

Title: Improving mechanical and damping properties of NiTi shape memory alloy reinforced aluminum nanocomposites (SMA-AMNCs)

R. Abdul Shakoor
Qatar University

Dr. R. A. Shakoor is currently working as Assistant Professor in the Center for Advanced Materials (CAM), Qatar University, Doha, Qatar. He holds a PhD degree in Materials Engineering. His area of research focuses on the synthesis and characterization of advance materials for various applications. He has been awarded with several academic and professional awards because of his outstanding academic, industrial and research achievements.

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Glimpses of Ceramics Conferences















