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# 31<sup>st</sup> Nano Congres For Future Advancements

August 29-31, 2019  
London, UK

SCIENTIFIC PROGRAM

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**

	MEETING HALL 01	MEETING HALL 02
11:50-13:10	<b>Talks On: Nano Science and Technology</b>	<b>Talks On: Material Science And Engineering</b>
	Nanorobotics and Nanomanipulation	Electron backscatter diffraction in Materials Science
	Energy Conversion and Storage	New frontiers in Materials Science by Ionic liquids
	Food, Smart Agriculture, and Medicine	Nanotechnology And tissue Engineering
	Nanotechnology in Water Purification	Reticular synthesis and the design of new materials in Nanotechnology

**13:10-13:15 GROUP PHOTO**

**13:15-14:00 LUNCH BREAK**

	MEETING HALL 01	MEETING HALL 02
14:00-16:00	<b>Talks On: Nano Materials Synthesis and Characterisation</b>	<b>Talks On: Advanced Nanomaterials</b>
	Size Dependence of Properties	Present Position Of Nanotechnology And Cosmetic Products
	Microscopy and Spectroscopic Methods of Measurement at the Nanoscale	Nanoparticles Synthesis and Applications
	Nano Particles	Thin Films Modeling, Scale Effects, Nanostructured Thin Films
	Materiomics	AB initio Microdynamic Approaches for Nanomaterials Simulation
	Nanomaterials manufacturing technologies	Bio Sources for Materials and Fuels
	Applications of Nano materials and Devices	Soft Nanotechnology and Colloids

**16:00-16:20 COFFEE BREAK**

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
<b>Young Researchers in 31<sup>st</sup> Nano Congress For Future Advancements</b>	<b>Workshop</b>



09:00-10:30  
Meeting Hall 01

**KEYNOTE LECTURES**

**10:30-10:50 COFFEE BREAK**

	MEETING HALL 01	MEETING HALL 02
10:50-12:50	<b>Talks On: Nano Medicine</b> Drug Delivery Regenerative Medicine Nanomedicine in Theranostics Personalized Nanomedicine Cancer Treatment Blood Purification	<b>Talks On: Nano Electronics</b> Nanomaterials Electronics Nanofabrication Molecular Electronics Nanoionics Nanoelectronic Devices Flexible Electronic circuits

**12:50-13:35 LUNCH BREAK**

	MEETING HALL 01	MEETING HALL 02
13:35-15:55	<b>Talks On: Nano Robotics</b> Nano Biometric Molecular Mimics Ion Channels As Sensors Lipids As Nano - Bricks And Mortar Lipids Structure self-organizing supra molecular structures Self-Assembled Monolayers	<b>Talks On: Nanotech for Energy and Environment</b> Nanomaterials for Clean and Sustainable Technology Nanotechnology for Solar Energy Collection and Conversion Energy Storage and Novel Generation Nanotech for Oil and Gas Fuels Applications Renewable Energy Technologies Green Chemistry and Materials

**15:55-16:15 COFFEE BREAK**

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations	Workshop

09:00-10:30  
Meeting Hall 01

**KEYNOTE LECTURES**

**10:30-10:50 COFFEE BREAK**

	MEETING HALL 01	MEETING HALL 02
10:50-12:50	<b>Talks On: Graphene and its Applications</b> Graphene Synthesis Chemistry and biology studies of graphene Graphene modification and functionalization Large scale graphene production and characterization Applications of graphene in energy Applications of graphene in biomedical	<b>Talks On: Nanotechnology in Water Treatment</b> Nanomaterials and water filtration Nanotechnologies for water remediation Bioactive nanoparticles for water disinfections Self-assembled monolayer on mesoporous supports (SAMMS) Nanoscale semiconductor photocatalysts Bimetallic iron nanoparticles

**12:50-13:35 LUNCH BREAK**

	MEETING HALL 01	MEETING HALL 02
13:35-15:55	<b>Talks On: Pharmaceutical Nanotechnology</b> Drug Delivery Research Smart Drug Delivery Technology Novel Drug Delivery Systems Nano Pharmaceutical Industry and Market Challenges and advances in Nano Pharmaceuticals NanoPharmaceuticals from the bench to Scale up Future aspects of Nano Pharmaceuticals	<b>Talks On: Nano Biotechnology</b> Bioluminescent magnetic nanoparticles Surface modified polystyrene nanoparticles Nano systems Target specific drug delivery Disease diagnosis Nano ink

**15:55-16:15 COFFEE BREAK**

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

**Young Researchers in Proteomics and Molecular Medicine**

**MEETING HALL 01 (17:00-18:00)**

**Workshop**

**Awards & Closing Ceremony**

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**31<sup>st</sup> Nano Congress for  
Future Advancements**

August 29-31, 2019 London, UK

**AGENDA**

**Title:** Design and operation of low energy consumption passive human comfort solutions

**Abdeen Mustafa Omer**  
Energy Research  
Institute, UK

Prof. Abdeen Mustafa Omer (BSc, MSc, PhD) is an Associate Researcher at Energy Research Institute (ERI). He obtained both his PhD degree in the Built Environment and Master of Philosophy degree in Renewable Energy Technologies from the University of Nottingham. He is a qualified Mechanical Engineer with a proven track record within the water industry and renewable energy technologies.

**Title:** Nano-glasses: A New Kind of Non-crystalline Solids with New Applications in Technology and Medicine

**Herbert Gleiter**  
Karlsruhe Institute of  
Technology, GERMANY

Herbert Gleiter received his Ph.D. in Physics. In 1973, Gleiter became Chair Professor of Materials Science and founded in 1988 today's Leibniz Institute of New Materials at Saarbruecken, Germany. In 1994, he was appointed Member of the Executive Board of the Research Center Karlsruhe, Germany, and 4 years later he became the Founding Director of the Center's Institute of Nanotechnology.

**Title :** Characterization and Properties of Al<sub>88</sub>Ce<sub>6</sub>TM<sub>6</sub> Amorphous Alloys

**Jianqi Zhang**  
Inner Mongolia  
University, China

Prof. Jianqi Zhang has completed his PhD at the age of 36 years from University of Central Florida and continued postdoctoral studies from Massachusetts Institute of Technology. He is the Professor and Director of Foreign Affairs at Inner Mongolia University of Science and Technology, China. He has published about 80 papers in reputed journals/conferences and 4 books.

**SPEAKER SLOTS AVAILABLE**

**Title: Microtubular NEMS and MEMS devices**

***Prof. Oliver G. Schmidt  
Institute for Integrative  
Nanosciences,  
Germany***

Prof. Dr. Oliver G. Schmidt is the Director of the Institute for Integrative Nanosciences at the Leibniz IFW Dresden, Germany. His interests bridge across several disciplines, ranging from nanomaterials and nanoelectronics to microfluidics, microrobotics and biomedical applications. He has received several awards: the Otto-Hahn Medal from the Max-Planck-Society in 2000, the Philip-Morris Research Award in 2002, the Carus-Medal from the German Academy of Natural Scientists Leopoldina in 2005, and the International Dresden Barkhausen Award in 2013.

**Title: Development of an efficient drug delivery nanosystem to tumor cells**

***Prof. Henrique  
University of Coimbra,  
Portugal***

Henrique Faneca is principal investigator at Centre for Neuroscience and Cell Biology, and invited assistant professor at University of Coimbra. He received his Ph.D. degree in Biochemistry from Coimbra University in 2005. The main focus of his research are the development of lipid- and polymer-based nanosystems for gene and drug delivery into target cells and the generation of new antitumor strategies, involving different gene therapy approaches either per se or in combination with chemotherapeutic agents

**Title: Nanoemulsion of some oils, formulation, characterization and pesticidal activity**

***Abdel-Tawab H. Mossa  
  
Pesticide Chemistry  
Department, Egypt***

Dr. Mossa is working as Professor at National Research Centre. His research has included pesticides chemistry, environmental toxicology, green and nanopesticides. Based on this research and fellowship training he has received several awards and honors, such as NRC award of research output 2011,2012,2013,2014. He is serving as an editorial member of several reputed journals. He has over 60 publications and H-index is 12 in Scopus and 17 in google citation.iography

**SPEAKER SLOTS AVAILABLE**



**Title:** The efficiency of TiO<sub>2</sub> nanoparticles synthesized from Aloe vera leaves extract compared to liposomes as delivery system for Doxorubicin: in vivo study using Erlich solid tumor model

**Prof. Doaa Fadeel**  
Cairo University, Egypt

Dr. Doaa A Abdelfadeel, a lecturer in Medical Applications of Laser Dep., National institute of laser enhanced sciences, Cairo University. B.Sc. degree in pharmaceutical sciences from the faculty of pharmacy, Cairo University, M Sc. and Ph.D. degrees in laser applications in pharmaceutical sciences from National institute of laser enhanced sciences, Cairo University

**Title:** Chitosan and silver nanoparticles: promising antitoxoplasma agents

**Prof. Maha Gaafar**  
Alexandria University,  
Egypt

Gaafar M.R. has completed her master and M.D. from Alexandria University. She is a professor of Medical Parasitology in Faculty of Medicine, Alexandria University. She has published more than 20 papers in reputed journals.

**Title:** Nanotechnology Application to Geo-Environmental Engineering Fields Based on Performance of Nanofifer Made Geosynthetics

**Prof. Han Yong**  
Inha University,  
Korea(South)

Prof. Han-Yong Jeon, geosynthetics/technical organic materials researcher and he was the 32nd President of Korean Fiber Society (2015). He has published more than 895 proceedings in domestic and international conferences. He wrote 21 texts including 'GEOSYNTHETICS' and also published 154 papers in domestic & international journals. He has awards of Marquis Who'sWho-Science and Engineering in 2003~2018 by IBC



**Title:** Cancer nanotechnology: Roadmap to clinical translation of gold mediated therapeutics

*Dr. Devika Chithrani*  
*University of Victoria,*  
*Canada*

Dr. Devika Chithrani is the director of nanoscience and technology development laboratory at University of Victoria. She was awarded the faculty gold medal and the gold medal for physics when she received her bachelor's degree (first class honors). To continue her graduate studies, she was awarded a prestigious NSERC Graduate scholarship in Materials science and engineering at University of Toronto, Canada.

**Title:** Nanocomposites for energy storage and catalysis

*Prof. Jae Jin Shim*  
*Yeungnam University,*  
*Korea*

Jae-Jin Shim received his BS degree from Seoul National University in 1980, MS degree from KAIST in 1982, PhD degree from the University of Texas at Austin in 1990. He has been a professor in Yeungnam University since 1994 and served as School Chairman and Vice-Dean of Engineering. He was the President of the Korean Society of Clean Technology and Vice President of the Korean Society of Engineering Education. He is the Director of Institute of Clean Technology and Clean Energy Priority Research

**Title:** Novel Nanocomposite Coatings for Corrosion protection of petroleum Storage tanks

*M. A. Deyab*  
*Egyptian Petroleum*  
*Research Institute,*  
*Egypt*

Dr. Mohamed Deyab is a full Professor Researcher at Egyptian Petroleum Research Institute (EPRI). He is also working as Professor Visitor at the University of Salento, Italy. In addition, he was appointed as Member of Petroleum and Mineral Resources Research Council. He is a co-author of 100 scientific papers, 6 books and has participated in 20 scientific conferences.

**SPEAKER SLOTS AVAILABLE**

**Title:** Bioinspired functional materials templates by nature species

**Prof. Di Zhang**  
**Shanghai Jiao Tong**  
**University, China**

Di Zhang has received his PhD from Osaka University, Japan. He is now a Chair Professor of Materials Science and Engineering at Shanghai Jiao Tong University in China (since 1994), the director of State Key Lab of Metal Matrix Composites and the Institute of Composite Materials at SJTU (since 2003), and the Professor of Chang Jiang Scholars Program (since 2001).

**Title:** The Investigation of Polarization Characteristics of hyperbolic metamaterials

**Prof. Tao Wang**  
**Huazhong University of**  
**Science and**  
**Technology, China**

Tao Wang has completed his PhD at the age of 25 years from the key laboratory of laser technology, Huazhong University of Science and Technology, P. R. China. He is the Professor of Huazhong University of Science and Technology. His research interests include Optoelectronic Devices and Integration, Biological Optical Sensing, Information Optics and Photonics Technologies, Nonlinear Optics and Applications, Nanophotonics, Nanostructures and Nanometrology.

**Title:** Optical Control Switch Gene Interference using Gold Nanorods in Hepatocellular Carcinoma

**Dr. Uzma Azeem Awan**  
**National University of**  
**Medical Sciences,**  
**Pakistan**

Dr. Uzma Azeem Awan has completed her PhD in Biotechnology with specialization in Nanobiotechnology from University of Azad Jammu and Kashmir, Pakistan. She is the Assistant professor of National University of Medical Sciences (NUMS), Pakistan. She has 10 publications that have been cited over 55 times, and her publication H-index is 05 and has actively participated in various national and international conferences. She is member of American Society of Chemistry.

**SPEAKER SLOTS AVAILABLE**

**Title:** Atomistic Study of Carbon Nanotubes

*Prof. S.C.Pradhan  
Indian Institute of  
Technology , Kharagpur*

Prof. S.C.Pradhan is Associate Professor of Department of Aerospace Engineering Indian Institute of Technology Kharagpur. His Research Interests include Artificial Intelligence, Neural Network, Fuzzy logic and python coding, Nonlocal elasticity, Composite Material, Finite element method, Fracture Mechanics

**Title:** Influence of Thermally Induced Poly to Single Crystalline Structural Phase Transition on Photoluminescence and Optical Absorption behavior of Zn<sub>0.78</sub>Cd<sub>0.22</sub>S Quantum Dots for Photo electronic applications

*M. A. Osman  
Assiut University, Egypt*

Prof. Dr. Mohamed A. Osman is a professor of materials science and nanotechnology at Faculty of science, Assiut University from nearly 20 years. He has published more than 40 papers in reputed journals and has been serving as reviewer reputed journals in the field of nanomaterials science.

**Title:** Analytical Response Modelling of CNT-Based Sensors

*Sholeh Alaei  
Islamic Azad  
University, Urmia, Iran*

Sholeh Alaei has completed her PhD in Nanophysics from the Middle East Technical University (METU), Ankara, Turkey in 2014. From 2005 to 2009, she was a Lecturer with the Department of Physics, Azad University of Urmia, Iran. Since 2014, she has been as an Assistant Professor in Azad University of Urmia.

**SPEAKER SLOTS AVAILABLE**



**Title:** Heat Exchanger Technology and Applications: Ground-Source Heat Pump System for Buildings Heating and Cooling

**Abdeen Mustafa Omer**  
Energy Research  
Institute, UK

Prof. Abdeen Mustafa Omer (BSc, MSc, PhD) is an Associate Researcher at Energy Research Institute (ERI). He obtained both his PhD degree in the Built Environment and Master of Philosophy degree in Renewable Energy Technologies from the University of Nottingham. He is a qualified Mechanical Engineer with a proven track record within the water industry and renewable energy technologies.

**Title:** Investigation of structural and electrochemical studies of nano-composite cathode for LT-SOFC

**Prof. Ghazanfar Abbas**  
COMSATS University  
Islamabad, Pakistan

Dr. Ghazanfar Abbas has completed his Ph.D. in 2013 in the field of Nanocomposite Materials for Energy Conversion Applications (Solid Oxide Fuel Cells). Currently, he is working as Assistant Professor in the Department of Physics, COMSATS University Islamabad, Lahore Campus, Lahore-54000, Pakistan and is involved in teaching graduate and undergraduate classes. He has joined Clean Energy Research Lab and is working in the field of fuel cell technology with nano-engineering techniques.

**Title:** Anti-listeria potential of metabolites and silver nanoparticles of *Bacillus* spp. and the synergistic effect of the nanoparticles and antibiotics against some multidrug resistant (MDR) *Listeria* spp.

**Bukola Adebayo-Tayo**  
University of Ibadan,  
Nigeria

Bukola Christianah Adebayo-Tayo is a lecturer in the Department of Microbiology, University of Ibadan. She has supervised both undergraduate and postgraduate students. She has published more than eighty papers in reputable journals and has been serving as a reviewer of some reputable journals.

**SPEAKER SLOTS AVAILABLE**

**Title:** Biomaterial Functionalized Graphene-Magnetite Nanocomposite: A Novel Approach for Simultaneous Removal of Anionic Dyes and Heavy-Metal Ions  
Biomaterial Functionalized Graphene-Magnetite Nanocomposite: A Novel Approach for Simultaneous Removal of Anionic Dyes and Heavy-Metal Ions

*Baskaran Ramalingam,  
Biological Materials  
Laboratory, India*

Baskaran Ramalingam is professor of Biological Materials Laboratory, India. His Research interest include Biomaterial Functionalized, Nanocomposite

**Title:** Benefits of Nanotechnology in Agriculture Sector

*Manal Mohamed Adel  
Benefits of  
Nanotechnology in  
Agriculture Sector*

Manal Mohamed Adel is professor of Pests and Plant Protection Dep.- National Research Center - Cairo – EGYPT

**Title:** Subject

**Name**  
Affiliation

Biography

**SPEAKER SLOTS AVAILABLE**

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# GLIMPSES OF NANOTECHNOLOGY CONFERENCES





# London Attractions



Antwerp



Buckingham Palace



The most colourful streets in London



Financial District Of The City Of London



Big Ben clock tower



The British Museum in London



Big Ben



skyline-calgary



london-rooftops

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