

Conference Program

Program at a glance

Start	End	Monday, December 10, 2018			
8:00	9:30	A10	Registration		
9:30	10:45	A11	Inauguration		
10:45	11:30	Coffee Break			
11:30	13:45	A12	Keynotes 1		
13:45	14:45	Lunch			
14:45	16:25	A13	Energy production and Storage 1	B13	Electronic and Magnetic Applications 1
16:25	17:00	Coffee Break			
17:00	19:00	A14	Nanomedicine – Synthesis, Assembly and Characterization	B14	Water, Food and Environment

Start	End	Tuesday, December 11, 2018			
9:00	10:20	A21	Nano Pharmaceuticals and Nutraceuticals	B21	Evaporators and chemical reactors at the microscale
10:20	11:00	A22a	Keynotes 2a		
11:00	11:30	Coffee Break			
11:30	13:30	A22b	Keynotes 2b		
13:30	15:00	Lunch			
15:00	16:50	A23	Exhibitors & Poster session 1		
16:50	17:20	Coffee Break			
17:20	19:00	A24	Energy production and Storage 2	B24	Electronic and Magnetic Applications 2

Start	End	Wednesday, December 12, 2018			
9:00	10:20	A31	Nano-Imaging / Diagnostics	B31	Industrial Applications
10:20	10:50	Coffee Break			
10:50	12:50	A32	Keynotes 3		
12:50	14:20	Lunch			
14:20	15:20	A33	Exhibitors & Poster session 2		
15:20	15:50	Coffee Break			
15:50	17:30	A34	Biomedical applications of nanotechnology	B34	Micro and Nano sensors 1
19:00	20:00	Entertainment			
20:00	21:30	Gala Dinner and Awards			

Start	End	Thursday, December 13, 2018			
9:00	10:40	A41	Micro and Nano sensors 2	B41	Nanotechnology Challenges
10:40	11:10	Coffee Break			
11:10	12:30	A42	Nano Association		
12:30	13:30	Lunch			
13:30	14:30	A43	Panel		
14:30	14:45	Coffee Break			
14:45	15:00	A44	Closing session		

Session name is composed of 3 Characters:

1 st character	Hall: A or B
2 nd character	Day: 1 - 4
3 rd character	Period: 1 - 4

Example: A23 ⇒ Hall A, 2nd day, 3rd Period

Detailed Program

Monday, December 10, 2018			
9:30	10:45	A11	Inauguration
11:30	13:45	A12	Keynotes 1 Chairs: Mohamed-Nabil Sabry, Maged El-Kemary
11:30	12:25	001	From Supramolecular to Adaptive Chemistry - Contributions to Nanoscience and Nanotechnology; Jean-Marie Lehn
12:25	13:05	002	Advanced Drug Delivery: Nano-targeted delivery for Therapeutic and Imaging; Shaker Mousa
13:05	13:45	003	Internet of Things and Smart Manufacturing; Ali Shakouri
14:45	16:25	A13	Energy production and Storage 1 Chairs: Mohamed Rashad, Bonex Mwakikunga
14:45	15:25	011	Metal sulfides with crystal orientation as high performance anode materials for lithium (sodium) ion batteries; Hailei Zhao
15:25	15:45	032	High Conductive Nano-Fiber Shaped PEDOT:PSS for Efficient Perovskite Solar Cell; Hytham Elbohy, Qiuan Qiao
15:45	16:05	044	Effect of Synthesis Approach on the Structural and Optical Properties of Hybrid Perovskite Materials for Photovoltaic Application; SA Olaleru, KT Roro, B Mwakikunga, JK kirui, N El-Mahallawy and R Mohammed
16:05	16:25	104	Fabrication of Silicon Nanowires by Metal-Assisted Wet Chemical Etching; Aliaa M. S. Salem, Farid A. Harraz, S. M. El-Sheikh
14:45	16:25	B13	Electronic and Magnetic Applications 1 Chairs: Ali Shakouri, Diao Khalil
14:45	15:05	109	Behavior of Magnetic Particles in a Closed Loop System; Myoungwoo Lee, Youn-Jea Kim
15:05	15:25	126	Hybrid Reinforcement of Aluminum Matrix Composite by Nano Nickel and SiC particles For Electronic Applications; Shimaa A. Abolkassem, Omayma A. Elkady, Ayman H. Elsayed, Walaa A. Hussein
15:25	15:45	065	Nano-Graphene Oxide; Current Trends and Future Advances; Evans Egwim, Alfred Kalu, Emeka Onwurah

15:45	16:05	102	Optimum Radio-Frequency Plasma Sheath Parameters for Nanoscale Profiles Etching; Mohammed Shihab
16:05	16:25	088	Shape-Controlled Synthesis of Nanostructured Co-Doped ZnO Thin Films and their Magnetic Properties; F.A. Taher, E. Abdeltwab
17:00	19:00	A14	Nanomedicine – Synthesis, Assembly and Characterization Chairs: Matthias Epple, Amani Mostafa
17:00	17:40	013	Metallic and bimetallic nanoparticles: Synthesis, microstructure and properties; Matthias Epple
17:40	18:00	093	Thiolation-Induced Assembly of Gold Nanoparticles onto Glass Substrates; Ahmed Medhat, Dina Salah, Ibrahim Hassan and Amal Kasry
18:00	18:20	117	Effect of Particle Shape on the Flowability of Dry Powder Inhalers: Computational Fluid Dynamics Approach; Alaa M. Ali, Ahmed S. Abo Dena, Ibrahim El-Sherbiny
18:20	18:40	059	Magnetite Nanoparticles Encapsulation in Poly-Caprolactone Microspheres for Targeted Drug Delivery; Abdelrahman Mahmoud, Islam Khalil, Nesrine El-Gohary, Mohamed Elwi
18:40	19:00	039	Layer-by-Layer-Coated Lyotropic Liquid Crystalline Nanoparticles for Active Tumor Targeting of Rapamycin; May Freag, Yosra Elnaggar, Doaa Abdelmonsif, Ossama Abdallah
17:00	19:00	B14	Water, Food and Environment Chairs: Samy El-Shall, Brahim El-Ouadi
17:00	17:20	040	Analysis of the Refraction Index of Colloidal Suspensions in a Fabry-Pérot Optofluidic Cavity; Mahmoud Youcef Mahmoud, Noha Gaber, Frédéric Marty, Elodie Richalot, Tarik Bourouina
17:20	17:40	068	Instant Green Preparation of Gold Nanoparticles: Effect of Temperature on Gold Nanoparticles Morphology; Norhan Nady
17:40	18:00	105	Efficient approaches for synthesis of graphene hybrids for packaging and water treatment; Ahmad Ghanem, Mona Abdel Rehim, Abdelrahman Badwy
18:00	18:20	116	An Attempt to Produce, Precipitate Silver in Nanoparticles, its Effect on Dairy Microbes and Potential Toxicity; Hassan Nour ElDin Hassan, Enas El..Fadly, Ibrahim El-Mehasseb, Mohamed Al-Ghanam El-Magd

18:20	18:40	118	Application of Chitosan-Citric Acid Nanoparticles for Removal of Selected Metals from Aqueous Wastewater; S.M. Abdelbasir, S. M. El-Sheikh, A.M. Sayed
18:40	19:00	129	Development of Nano-Chitosan Edible Coating for Peach Fruits Cv. Desert Red; Mohamed Momtaz Gad, Osama A. Zagzog and Osama Mohamed Hameda
Tuesday, December 11, 2018			
9:00	10:20	A21	Nano Pharmaceuticals and Nutraceuticals Chairs: Shaker Mousa, Wael Mamdouh
9:00	9:20	084	Functioning Anticancer Nanomachine Designed from Nucleotide Aptamer and Light-Powered Nanoconverter; Alexandre Loukanov, Seiichiro Nakabayashi
9:20	9:40	058	Preparation & Evaluation of Pregabalin Based PLGA Nanoparticles as Topical Gel: Targeted Drug Delivery Platform to Treat Fibromyalgia; Mona G. Arafa
9:40	10:00	149	Biomedical application of nanofibers; El-Refaie Kenawy
10:00	10:20	026	Alleviation of Cardiac Ischemia by Ajwa Nano-Preparation: Effect on Cardiac Contractility; Soad Al-Jaouni, Seham Abdul-Hady, Hany El-Bassossy, Numan Salah, Magda Hagra
9:00	10:20	B21	Evaporators and chemical reactors at the microscale Chairs: Stephane Colin, Ahmed El-Shazly
9:00	9:20	145	Non-Equilibrium Effects at the Liquid-Vapor Interface; Alexey Polikarpov, Irina Graur
9:20	9:40	134	A Look on Relevant Nondimensional Numbers for Flow Boiling in Microchannels and Minichannels; Mohamed M. Awad, Zan Wu, Bengt Sundén
9:40	10:00	099	Dry Reforming of Methane over Stable Ni/La-ZrO ₂ Catalyst Prepared by Consecutive Impregnations Method; Radwa El-Salamony, Seham Al-Temtamy, Salwa Ghoneim, Dalia Abd El-Hafiza, Mohamed Ebiad, Ahmed El Naggar, Tahani Gendy, Ahmed Al-Sabagh
10:00	10:20	063	K-M Reactor, New Technology for Core Shell Materials; M. A. AbdelKawy, A. El-Shazly
10:20	11:00	A22a	Keynotes 2a Chairs: Elrefaie Kenawy, Mikhael Bechelany
10:20	11:00	010	Graphene-based Materials for Applications in Heterogeneous Catalysis, Water Treatment and Solar Water Desalination; S El Shall

11:30	13:30	A22b	Keynotes 2b Chairs: Elrefaie Kenawy, Mikhael Bechelany
11:30	12:10	004	Impact of Nanobiotechnology on the Future of Medicine: The Road Toward Precision Medicine/Case Studies; S. Mousa
12:10	12:50	005	Green microsystems: Challenges and Opportunities for Sustainable Development and Smart Cities; T Bourouina
12:50	13:30	008	Molecular tagging as an experimental tool for investigating out of equilibrium properties of gas flows in MEMS; S Collin
15:00	16:50	A23	Exhibitors & Poster Session 1 Chairs: Amal Amin, Hanadi Salem
		043	High Performance Asymmetric Supercapacitors Based on Polyaniline and Vanadium Oxide; Hossam A. Ghaly, Ahmed G. El-Deen and Nageh K. Allam
		047	Hybrid Organic/Inorganic Semiconductors: Innovative Materials for Future Applications; Afaf El-Sayed, Fatma Ibraheem, Iman A. Mahdy, Esmat A. Mahmoud
		053	Plasmonic Coated Silicon Nanoparticles for Optical Applications; E. Girgis, C. Tharwat, and Mohamed A. Swillam
		054	Laser Reduction of Graphene Oxide Thin Film for Optoelectronics Applications; C. Tharwat, and Mohamed A. Swillam
		057	Quantum Confinement of Cd, Sn Chalcogen Thin Film as Absorber Layer of Visible and Infrared Light; Iman A. Mahdy, Manal A. Mahdy and Esmat A. Mahmoud
		060	Silicon Super Absorber in the Mid Infrared Range; Sara Magdi, Farah El-Diwany, Mohamed Swillam
		072	Nanofluid from the Womb of Nanotechnology: Challenges and Opportunity in Energy Saving: A Review; Mahmoud Ahmed
		079	New and Advanced Polymeric Systems: A Dielectric Investigations; Gamal Turkey, Mona Abdel Rehim, Shereen Shabaan, Mohammed Moussa, Ahmed Ghoneim
		082	Dielectric Study of the Double Layer in Ionic Liquid; Gamal Turkey, Mohamed El-Nasharty, Mona Abdel Rehim, Omnia Shehata, Mohammed Moussa
		085	Effective ZnO Nanofibers Electron Transfer Layer for High-Performance Perovskite Solar Cells; Ahmed Esmail Shalan, Ali Omar Turkey, Mohamed M. Rashad and Mikhael Bechelany

		086	Spectroscopic and Photostability Properties of Novel Bis-Fluorescein Derivative Composite Semiconductor Quantum Dots; Mahmoud E. M. Sakr, A. M. Abou-Elmagd, Ahmed H. M. Elwahy, Nabel A. Negm, Maram T. H. Abou Kana
		090	Catalytic Conversion of Carbon Dioxide into Hydrocarbons; Ramadan A. Geiously
		094	High Performance Antimony-Bismuth-Tin Positive Electrode for Liquid Metal Battery; Wang Zhao, Ping Li, Zhiwei Liu, Donglin He, Kun Han, Hailei Zhao, Xuanhui Qu
		095	Large-scale Generated 3D N-doped Graphene Framework Coupled with Fe ₃ C@CNT Rings for Ultra-stable Potassium-ion Batteries; Kun Han, Zhiwei Liu, Ping Li, Qiyao Yu, Wei (Alex) Wang, Cheng-Yen Lao, Donglin He, Wang Zhao, Guoquan Suo, Hao Guo, Lei Song, Mingli Qin, Xuanhui Qu
		122	Titania Assisted Metal Organic Framework Matrix for Elevated Hydrogen Generation Combined with the Production of Graphene Sheets through Water Splitting Process; Rasha S. Mohamed, Amal A. Alkahlawy, Heba M. Gobara and Ahmed M.A. El-Naggar
		127	Crystal, Electronic Structure, Optical and Electrical Studies of New 2D Hybrid Perovskite [(CH ₂) _n (NH ₃) ₂]MX ₄ ; X= Cl, Br; M= Co, Mn; n= 4-9 Promising for Photovoltaic Applications; Seham K. Abdel-Aal, Ahmed S. Abdel-Rahman, Gudrun Kocher-Oberlehner, Andrei Ionov, Rais Mozhchil
		130	Bi-Functional Tailoring of Platinum Surfaces with Earth Abundant Iron Oxide Nanowires for Boosted Formic Acid Electro-Oxidation; Bilquis Ali Al-Qodami, Heba H. Farrag, Sayed Youssef Sayed, Nageh K. Allam, Bahgat E. El-Anadouli, Ahmad M. Mohammad
17:20	19:00	A24	Energy Production and Storage 2 Chairs: Hailei Zhao, Diaa Khalil
17:20	18:00	012	Exploring New Insights and Innovative Applications of Perovskite Materials; Brahim Elouadi
18:00	18:20	097	CTAB-Co ₃ O ₄ /RGO Composite as an Efficient Electrode Material for Supercapacitor Applications; Soliman El-Hout, Chunlin Chen, Ting Liang and Jian Zhang

18:20	18:40	100	Tunable Non-Precious Metal Oxides for Oxygen Reduction and Evolution Reactions; Abdelhamid M. El-Sawy, Steven L. Suib
18:40	19:00	115	Enhanced NIR Absorption in Highly-Doped Black Silicon; Ahmed A. Elsayed, Yasser M. Sabry, Frédéric Marty, Elyes Nefzaoui ³ , Yitling Yu, Tarik Bourouina, Diaa Khalil
17:20	19:00	B24	Electronic and Magnetic Applications 2 Chairs: Wael Fikry, Mohamed Rashad
17:20	17:40	073	Thermal Stability of Ultra-Tough Nanocrystalline Cu-1%Nb; Mohamed A. Abaza, Ronald O. Scattergood and Khaled M. Youssef
17:40	18:00	112	Impact of a Hole Inversion Layer at the BiVO ₄ -In ₂ O ₃ Interface Produced at High Tunable Photocatalytic Efficiency; Ahmed Helal, Yu Jianqiang, S M El-Sheikh, Alaa I. Eid, S A El-Hakamc, S E Samra
18:00	18:20	089	Face-On Oriented Thermolabile Boc-Isoindigo/Thiophene Small Molecules: From Synthesis to Device Performance; Mohamed Shaker, Byoungwook Park, Seongyu Lee, Cuc Kim Trinh, Wonbin kim, Hong-Joon Lee, Heejoo Kim, Kwanghee Lee and Jae-Suk Lee
18:20	18:40	051	Graphene Nanoribbons Growth on Kinked Au(16 14 15); Afaf El-Sayed, Lukas Kormoš, Ignacio Piquero, Zakaria M. Abd El-Fattah, Jens Brede, Jorge Lobo-Checa, Dimas G. de Oteyza, J. Enrique Ortega, and Martina Corso
18:40	19:00	074	Controllable Synthesis and Tuning Realization of Barium Strontium Titanate (Ba _{1-x} Sr _x TiO ₃) through Solvothermal Technique; Ali Omar Turkey, M. M. Rashad, Mikhael Bechelany

Wednesday, December 12, 2018

9:00	10:20	A31	Nano-Imaging/Diagnostics Chairs: Amani Mostafa, Hassane Oudadesse
9:00	9:40	014	Nanomedicine under the Microscope: A Journey in Pictures; Raj Bawa
9:40	10:00	033	Recent Avenues of Nanomaterials in Molecular Imaging; Ahmed Elshahawy
10:00	10:20	103	On-Chip Progesterone Hormone Concentration Estimation by an Optimized Optofluidic Micro Resonator; Noha Gaber, Yasser M. Sabry, Frédéric Marty, Noha Mousa, Tarik Bourouina

9:00	10:20	B31	Industrial Applications Chairs: Affaf El-Oufy, Mervat Khalil
9:00	9:20	029	Smart Nanotextiles: Brilliant Colors, UV-Protection, Self-Cleaning, Photocatalytic and Antimicrobial Activity; Ahmed Barhoum
9:20	9:40	031	Analytical Characterization of TiO ₂ - Based Nanocoatings for the Protection and Preservation of Architectural Calcareous Stone Monuments; Mohammad A. Aldoasri, Sayed M. Ahmed, Mervat H. Khalil, Sawsan S. Darwish, Mahmoud A. Adam, Nadia A.Al-Mouallimi, and Nagib A. Elmarzugi
9:40	10:00	034	Comparative Studies on the Fabrication of Photonic Crystals via Self-Assembly of Poly(Styrene-Butyl-Acrylate-Acrylic Acid) and Polystyrene Latexes; Esther Ikhuria, Ikhazuagbe Ifijen, Saju. Pillai
10:00	10:20	101	Synthesis and Characterization of Silylated Modified Na-MMT Nanoparticles on Melt Blended Polypropylene Support; Alaa Eid, Amr El-Shamy, Radwa Salem, Ossama Abu Al-Enein
10:50	12:50	A32	Keynotes 3 Chairs: Hanadi Salem, Nageh Allam
10:50	11:30	009	Breath Analysis Using Nano-Particles for Health; B Mwakikunga
11:30	12:10	007	Engineering of nanomaterials and interfaces: design, properties and applications; M Bechelany
12:10	12:50	006	Nanomaterials based start-ups within MINATEC® Innovation campus; J-C Guibert
14:20	15:20	A33	Exhibitors & Poster Session 2 Chairs: Hanadi Salem, Amani Mostafa
		027	Computer Aided Design of Magnetic Molecularly Imprinted Polymer Nanoparticles for Solid-Phase Extraction and Determination of Levetiracetam in Human Plasma; Olivia A. Attallah, Medhat A. Al-Ghobashy, Ahmed Taha Ayoub, Jack Adam Tuszynski, and Marianne Nebsen
		038	Characterization of Aluminum Schottky Junction Diode Fabricated on Nickel Oxide Thin Film Synthesized Through Sol-Gel Method; Shadrach Akinkuade, Walter Meyer, Jacqueline Nel

		045	Non-Invasive Glucose Sensor; Abdelrahman Toraya, Samir Abozyd, Osama Hiekal, Noha Gaber, Sherif Sedky
		064	Modification of the Egyptian Clay by Two Different Organic Surfactants Using High Speed Mixer; Marwa E. Mohamed, Alaa I. Eid, Malak T.Abou El-khair, Gamal R. Saad
		066	Concepts and Future Applications of Biosynthetic Nanoscale Zero-Valent Silver; Amal A. Mekawey, Eman M. A. El-Taher, Doaa S. El-Desouki
		098	Studying the Physico-Mechanical and Electrical Properties of Polypropylene/Nano Copper Composites for Electronics and Industrial Applications; Alaa Eid, Omayma El Kady, Lamiaa Mohamed, Ashraf Eessaa, Shaimaa Esmail
		123	Structural and Optical Properties of Nanocrystalline Fe Doped BiMnO ₃ for Solid-State Dye Sensitized Solar Cells (ssDSSCs); D.A. Rayan, M.M. Rashad, A.E. Shalan, E.A. Abdel-Mawla, A.A. Mohamed, S.K. Mohamed
		025	Ajwa Nano-Preparation Prevent Doxorubicin Associated Cardiac Dysfunction; Soad Al-Jaouni, Seham Abdul-Hady, Hany El-Bassossy, Numan Salah, Magda Hagraas
		050	The Sensitivity of Spleen in Rats to Oxidative Stress Induced by Titanium dioxide Nanoparticles: Potential Role of Chitosan; Tamara Shaker Mahmoud, Aqeel Khaleel Ibraheem, Ahmed Morsi Attia
		056	Oil Core Polymer Shell Nanocapsules for Enhancement of Antidepressant Activity of Trazodone In Vitro and In Vivo; Nahla Elhesaisy, Shady Swidan
		091	Modified Reduced Graphene Oxide Thin Films for Biosensing Applications; Mona Gaber, Shafei Donia and Amal Kasry
		125	Combined Chemotherapy –Gold Nanoparticles Treatment Is More Efficient than Single Modality Treatment Regimen in MCF-7 Breast Cancer Cell Line; SF Morkos, S Moussa, TI Shalaby, E Zaher, M Elnaggar
		024	Waveguides Sensitivity Analysis for Mid-Infrared Gas Sensing; Raghi S. El Shamy, Mohamed Swillam, Daa Khalil
		075	Effective ZnO Nanofibers Electron Transfer Layer for High-Performance Perovskite Solar Cells; Ahmed Esmail

			Shalan, Ali Omar Turky, Mohamed M. Rashad and Mikhael Bechelany
		087	Cyclic Voltammetry and Thermodynamic Data Estimated for the Interaction of Bulk and Nano Cadmium Chloride (Ncc) with Isatin Using Glassy Carbon Electrode; Mohamed A. Morsi , Esam A. Gomaa, and Alaa S. Nageeb
		131	Structural and Magnetic Properties of La and Sm Co-Doped W-Type Hexaferrite Nanopowders; Diaa Rayan, Mahmoud Hessien, Mohamed Rashad
		132	Alternating Magnetic Field Induced Drug Permeability in Liposomes Encapsulating Magnetic Nanoparticles; Bassant M. Salah, Nermeen S. El-Din
		133	Invivo Toxicity Assessment of Gold Nanoparticle of Different Shapes in Drosophila Melanogaster; Ola M. El-Borady, Youssef S. Mahmoud, Naglaa M. Ebeed
		041	Hybrid Electrospun Nanofiber Membrane for Oil/Water Separation; Sara M. Moatmed, Ahmed G. El-Deen, M.H. Khedr, S. I. El-dek, and Hak-Yong Kim
		042	Reinforcement of Chitosan Using Natural Fillers to Enhance Physical and Mechanical Properties for Active Packaging Applications; Marwa Faisal, Amal Elhussieny, Irene S. Fahim, Nicola M. Everitt
		046	State-of-the-Art and Perspectives of Water Desalination Based Capacitive Deionization Technology; Ahmed G. El-Deen
		062	Catalytic Degradation of Methylene Blue Using Photo-Induced Biosynthesis of Silver Nanoparticles; Sara M. Ezzat, Sara A.Abdel Gaber, Mohamed El Shazly, Amani Thabet and Mahmoud H. Abdel Kader
		081	Enhanced Photocatalytic Performance of Nanosized Sn-Substituted ZnO Photocatalysts for Methylene Blue (MB) Degradation; A.N. El-Shazly, M.M. Rashad, E.A. Abdel-Aal, I.A. Ibrahim , M.F.El-Shahat
15:50	17:30	A34	Biomedical applications of nanotechnology Chairs: Wael Mamdouh, Sanaa Rady
15:50	16:30	015	Bioactive glass nanoparticles elaboration: Applications in bone biomaterials reconstruction; H Oudadesse
16:30	16:50	144	Nanofibers Scaffolds and Nanoparticles/Polymer Conjugates for Antibacterial and Drug Delivery Applications – From Lab to The Market; Wael Mamdouh, James Kegere, Nancy ElBaz, Laila Ziko, Rania Siam

16:50	17:10	048	Detection of Breath Acetone Using Gas-Chromatography Mass Spectrometry and Tungsten Oxide Based Sensor as a Potential Replacement of Blood Glucose Reader for Diabetes Mellitus Monitoring; Valentine Saasa, Mervyn Beukes, Thomas Malwela, Bonex Mwakikunga
17:10	17:30	083	Structural and Morphological Studies of Ni Ferrite Doped with Cr Ions Prepared by Flash Auto Combustion Method; A. M. A. Henaish, O. M. Hemeda, M. I. Abdel-Ati, B. I. Salem & F. S. El-Sbakhly
15:50	17:30	B34	Micro and Nano-sensors 1 Chairs: Yehea Ismail, Tarik Bourouina
15:50	16:10	049	Surface Enhanced Raman Scattering as a Sensing Technique Using Silicon Nanowires and Plasmonic Nanoparticles; Mohamed Elsayed, Abdelaziz Gouda, Yehea Ismail, Mohamed Swillam
16:10	16:30	055	Silicon-Based Plasmonic Dipole Nanoantenna in Mid-IR; Hosam Mekawey, Yehea Ismail, Mohamed Swillam
16:30	16:50	076	Wedge Interferometry: The Doorway for High Sensitivity Miniaturized Opto-Fluidic Sensors; Noha Gaber
16:50	17:10	077	Dual Polarized Asymmetric Double-Grating-Gated Plasmonic for Terahertz; Ahmed M. Attiya
17:10	17:30	114	Optical Transmission and Reflection of Single- and Multi-Walled Carbon Nanotubes in the NIR; Ahmed Saeed, Yasser M. Sabry, Ahmed A. Elsayed, H.A.Shawkey, Diaa Khalil
Thursday, December 13, 2018			
9:00	10:40	A41	Micro and Nano-sensors 2 Chairs: Tarik Bourouina, Nageh Allam
9:00	9:20	052	Gas Selectivity Studies of Metal Oxides Nano-Surfaces from First Principle Approach; Amos Adeleke Akande, Kittesa Roro, Diaa Rayan, Mohammed Rashad, Bonex Mwakikunga
9:20	9:40	106	Fabrication, Characterizations and Vapor Sensing Characteristics of Type I Heterostructure Employing 2D ZnO Nanosheets and 2D RGO; Sanghamitra Ghosal, Partha Bhattacharyya
9:40	10:00	107	Integrated Gas Sensor Device Using RGO/TiO ₂ Nanotube Hybrid Sensing Layer and Embedded Pt Microheater for Efficient H ₂ Detection; Partha Bhattacharyya, Sanghamitra Ghosal

10:00	10:20	108	Performance Improvement of TiO ₂ Nanoflowers Based Gas Sensor Devices Incorporating Pd and rGO as the Surface Modifier: A Comparative Study; Indranil Maity, Debanjan Acharyya, Partha Bhattacharyya
10:20	10:40	061	Near Field Imaging Enhancement Beyond Diffraction Limit Based Hyperbolic Matamaterial; Norhan Salama, Mohamed A.Swillam
9:00	10:40	B41	Nanotechnology Challenges Chairs: Mervat Khalil, Tamer Sharara
9:00	9:20	036	Ethical Issues of Nanotechnology: Inevitable or Soluble Obstacles to Nanotechnology Contribution to Sustainable Development; Bahaa Darwish
9:20	9:40	037	Synthesis, Characterization and Evaluation of Conductive Nanocomposites (Cncs) for Electronic and Biotechnical Applications; Ragia Mohsen, Yosrya Abu-ayana, Samir Morsi
9:40	10:00	124	Nano-Technology: Challenge for Advanced Application; Inas Battisha, Hanan ABD El Zaher, Magdy Ayoub, Amal Amin, Eman H. Ahmed, Claudia Wickleder, Matthias Adlung, Wafaa Moussa, Olfat El Sayed, Mimoun El Marssi, Abd Il-Ilah Lihmar
10:00	10:20	128	Progress of Nanoprecision Materials for Cancer Therapy; Nehal Salahuddin
11:10	12:30	A42	Nano Association
13:30	14:30	A43	Panel: Nanomedicine from the bench to the bedside; IP, Licensing, and commercialization of Nano Products; S. Mousa, R. Bawa, W. Mamdouh, I. El-Sherbiny
14:45	15:00	A44	Closing Session