Curriculum Vitae

Name : SHAFEEQUE AHMED ANSARI

Father's Name : ABDUL GAFOOR MOHAMMED

Designation : Professor,
Honorary Director - IQAC (since Nov 2015)
Former Director -CIRBSc (Nov 2016 – Nov 2019)

Office Address : Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia (A Central University), Jamia Nagar, New Delhi, 110025, India

Tel : +91-9910512433 (Cell)

E-mail : saansari@jmi.ac.in

Permanent Address : 815, Nayapura,
Malegaon (Nasik) 423203
Maharashtra, INDIA.

Date of Birth : Ist JUNE 1966.

Nationality : Indian

Marital Status : Married

h-index : 28 *i10*-index: 64

Educational Qualifications:

Exam	Board/Univ.	Passing Year	Marks%
Ph.D. (Physics)	University of Pune	1997	----
M.Sc. ($)	Poona University	1991	57.25
B.Sc. (#)	Poona University	1989	70.66
B.Sc. (*)	Poona University	1988	68.44
H.S.C.	Maharashtra Board	1985	52.83
S.S.C.	Maharashtra Board	1983	66.71

(*) : Electronic Science (#) : Physics ($) : Physics (Applied Physics)

Administrative Positions:

1. Director, Centre for Interdisciplinary Research in Basic Sciences Nov. 6, 2016 – Nov. 2019
2. Honorary Director - Internal Quality Assurance Cell, JMI since Nov 4, 2015.
3. Chairman - Central purchase committee, JMI
4. Coordinator - Institute of Eminence, JMI
5. Coordinator- DST-PURSE program, JMI
6. In charge - Central Instrumentation Facility, JMI
7. Member - API committee, JMI
8. Member - University-Industry Linkage Program, JMI

Experience:

Institution	Period	Post	Job Activities
Jamia Millia Islamia, New Delhi, India	13.06.2013 till date	Professor	Research/Teaching
Jamia Millia Islamia, New Delhi, India	04.01.2010 12.06.2013	Reader/Associate Professor	Research/Teaching
Najran University KSA	16.01.2009 03.01.2010	Associate Professor	Research/Teaching
Chonbuk National University, S Korea	01.02.2006 07.01.2009	Visiting Professor (Brain Pool, S. Korea)	Research work
Japan advanced Inst. of Sc. & Tech, Japan	15.10.2003 to 14.10.2005	Research Scientist JSPS, Japan.	Research work
Chonbuk National University, S Korea	01.11.2001 to 31.8.2003	Research Scientist S. Korea	Research work
Dept. Elec. Sc. University of Pune	1.7.2001 to 31.10.2001	Visiting faculty	Teaching M.Sc. & M.Phil
WIE Pvt. Ltd. Pune	1.4.99 to 10.7.01	Deputy. Manager	R and D
WIE Pvt. Ltd. Pune	2.5.97 to 31.3.99	Senior Engineer.	R and D
Physics Dept. Univ. of Pune	1.8.95 to 30.4.97	Senior Research Fellow CSIR, India	Research
Physics Dept. Univ. of Pune	1.6.92 to 31.5.94	Senior Research Fellow DOE, India	Research
Army Public School Pune	16.11.92 TO 31.03.93	Post Graduate Teacher	Teaching
Modern College Pune	03.02.92 TO 17.03.92	Full Time	Teaching Graduate Students
Abeda Inamdar College, Pune	12.10.91 TO 19.04.92	Visiting Faculty	Teaching

Ph.D. Student (awarded):

1. ***Dr. Manoj Kumar Patel***, March 10, 2014 "Development of Nucleic Acid Biosensors For The Detection Of Pathogen"
2. ***Dr. Amit Kumar***, Feb 23, 2015 "Application of Metal and Metal Oxide Nanoparticles Capped with Antioxidative Molecules to Balance the Oxidative Stress in Cells"
3. ***Dr. Summaiyya Khan,*** May 2018, "Development of nanostructured metal oxides based electrochemical biosensors for the detection of bacterial pathogens using biomarkers"

Ph.D. Student (registered):

1. ***Benazir Chishti***
2. ***Zeenta Khatoon***
3. ***Anisur Rahman***
4. ***Fatemah Khosravi***
5. ***Fahamiya***

M Phil Students

1. ***Zeenat Khatoon*** "Application of bimetallic oxide nanoparticles as electrochemical sensor for organic volatile compounds", May 2016
2. ***Naushad Khan*** **"**Determining the Electrochemical Characteristics of Doped Metal Oxides towards Organophosphates as a Nano-Electrochemical Device" May 2016
3. ***Pooja Sharma*** **"**Development of an electrochemical sensor for detection of *Brucella Abortus* using bimetallic oxide nanoparticles" May 2016
4. ***Nabeel Ahmad,*** "Tailored biocompatibility of calcium silicate nanoparticles against dental pathogens" May 2017
5. ***Preeit Tiwari,*** Effect of reduced graphene oxide on the catalytic properties of Ni & Mn Oxides for sensing thiols**,** May 2017
6. ***Khursheed Ul Islam*** Bacterial Inhibition and oxidative stress remedial properties of Azadirachta indica and Moringa oleifera. May 2017

Master Project Guided

1. ***Mazharul Haque***, Urea Sensor based on doped metal oxides nanostructures, May 2011.
2. ***Latika Bhayana***, Investigation of the optoelectronic properties of natural coloured pigments with the help of Nanostructured TiO2, May 2011
3. ***Khushnuma Alam***, ZnO Quantum Dots: A probe for FRET Studies, May 2011
4. ***Ashna***, Cholesterol sensor based on metal oxide nanoparticles, May 2011
5. ***Kanak Prabha***, Biosensing characteristics of nanostructured metal oxides, May 2012
6. ***Savera Aggarwal***, Metal oxide based enzymatic pesticide sensor, May 2012
7. Trisha Choudhury, Study of optoelectronics properties of Dye sensitised solar cell, June 2014
8. ***Johirul Islam***, Effect of neodymium on the photoconversion efficiency of TiO2 based Dye Sensitized Solar Cells, May 2015
9. ***Shafaq Khalid***, Effect of rare earth metals on the biosensong characteristics of TiO2 based sensors, May 2015.
10. ***Fiza Qadri***, Untangling the effects metal oxide nanoparticles on the growth and viability of bacterial cells, May 2016
11. ***Soorya James***, Nano-structured cuprous oxide based Screen Printed Electrode for Electrochemical Sensing of Picric acid, May 2017
12. ***Sapna Mishra,*** Nano-structured Cerium oxide based Screen Printed Electrode for Electrochemical and Optical Sensing of Melamine, May 2018

Research Projects:

1. Funding agency: DST
   Title: Quantum Dots as novel probes for Fluorescence Resonance Energy Transfer to understand molecular interactions and reaction path ways
   Period: 06/2013 to 06/2017 (As co-PI, extended)
   Research Grant Rs. 39.0 lakhs ***Completed***
2. Funding agency: CSIR
   Title: Photoanode preparation using nanostructured composite metal oxides for dye sensitized solar cells ***Completed***
   Period: 05/2012 to 04/2015
   Research Grant Rs. 15.3 lakhs

3. Funding agency: UGC
   Title: Effect of bio materials on the photo-conversion properties of TiO_2 based Dye-sensitized Solar Cells ***Completed***
   Period: 02/2011 to 01/2014
   Research Grant Rs. 9.81 lakhs
4. Funding agency: Korean Federation of Science and Technology (KOFST), Korea
   Title: The fabrication and characterization of nano-tubes with high aspect ratio and Magnetic Disks of high Density using nano-template of anodic aluminium oxide ***Completed***
   Period: 3 year (Feb. 2006- Feb 2009)
   Research grant: KRW 5000000
5. Funding agency : Japan Society for Promotion of Science (JSPS), Japan
   Tittle: Surface passivation of crystalline silicon by Cat-CVD at low temperature: application to solar cells ***Completed***
   Period: Two years (Oct-2003-Oct 2005)
   Research grant: Yen 2000000
6. Funding agency: Korean Science and Engineering Foundation (KOSEF), Korea
   Title: A study on nucleation and growth mechanism for heteroepitaxial growth of diamond.
   Period: 1 year (Sept. 2002- Aug. 2003) ***Completed***
   Research grant: KRW 1000000
7. Funding agency: Korean Science and Engineering Foundation (KOSEF), Korea
   Title: Next generation semiconductor packing material development ***Completed***
   Period: 1 year (Nov. 2001- Aug. 2002)
   Research grant: KRW 1000000

Awards and Honours:

1) Editor, Nature Scientific Report, Nature Publishing group, UK
2) Editor, Journal of Nanoelectronics and Optoelectronics, American Scientific Publishers, USA
3) Editor, Sensor Letters, American Scientific Publishers, USA
4) Board Member, Materials Focus, American Scientific Publishers, USA
5) Board Member, Energy and Environment Focus, American Scientific Publishers, USA
6) Visiting Professor, Brain Pool, South Korea, Feb 2006-Jan 2009.
7) JSPS fellowship, Japanese Society for Promotion of Science during 2003-2005.
8) Visiting Scientist, South Korea, 2001-2003
9) Senior Research Fellow, CSIR, 1995-1997.
10) Award for Best industry oriented research work on humidity sensors at 3rd National seminar on Physics & Technology of Sensors (NSPTS), University of Pune, India, Feb. 1996.
11) Senior Research Fellow award by Department of Electronics (DOE), Govt. of India, 1992-1994.

Research Experience

(1) Electrochemical Nano-Biosensors

(2) Bio-Solar cells (DSSCs)

(3) Nanostructured metal oxides and Nanobiomaterials

(4) Study of growth kinetics of Si-oxide and Si-nitride films using Catalytic CVD.

(5) Growth and characterization of diamond and carbon-nano tubes using hot filament CVD

(6) Growth of various oxides using plasma-enhanced CVD and metal-organic CVD.

(7) Hydrothermal synthesis of nanostructured oxides such as TiO2, SnO2 etc.

(8) Electrochemical and Electrophoretic deposition of metal coatings.

(9) Application of various types of thin and thick films to sensors.

(10) Preparation of semiconducting oxide nanoparticles using sol-gel technique and nano-particles and its application for sensors.

(11) Designed, optimized and developed the microwave microstrip couplers at X-band at different power levels 6, 8, 10, 15 and 20 dB.

(12) Fabrication of solid electrolyte Cu-cells and Li-ion batteries.

Expertise on

- Deposition of thin films by PVD, Sputtering, Metalorganic CVD, Plasma-enhanced CVD, Cat-CVD, Spray CVD, Laser ablation, electron beam evaporation, Anodic anodization, Electroplating, sol-gel technique for monolayer deposition.
- Thick films using screen printing. Optimization of time-temperature profile for sintering and firing (Inductive and resistive furnaces), design and fabrication of resistive furnaces, Tape casting; optimization of parameters for tape casting up to 100 m
- Nucleation and enhancement optimization for Diamond and Carbon Nano Tubes and their applications
- Sol-gel and hydrothermal process for synthesis of various semiconducting oxide nano particles and thin films
- XRD; glancing angle and bulk, DTA-TGA analysis, EDAX, XPS, Auger spectroscopy, NMR spectroscopy, UV-Visible spectroscopy, IR and FTIR spectroscopy, Fluorescence and Laser induced fluorescence spectroscopy, photoluminescence and electroluminescence, Raman and Anti-stroke Raman spectroscopy, Quadrupole mass spectroscopy, SIMS, Time of Flight mass spectrometer, Impedance spectroscopy, Scanning electron microscopy, Transmission electron microscopy, Atomic Force Microscopy, Confocal Microscopy, Voltametery and Cyclic voltametery, Scalar network and Vector network analyzers at microwave frequencies.

Achievements during doctoral research

- Development of room temperature resistive humidity sensor
- Developed semiconducting oxide based thin and thick film sensors to detect ppm level for H_2 gas. A detailed study of the influence of film thickness and particle size on the sensing properties, like sensitivity, accuracy repeatability and reproducibility of sensors, was carried out.
- Design and developed various microwave microstrip components. Developed microstrip couplers at X-band for 10, 15 and 20 dBm and filters at various microwave frequencies. The effect of change in dielectric constant on the performance of the device was studied.
- Solid electrolyte Cu-cells and Li+ ion batteries were developed with improved short circuit current, open circuit voltage and ampere-hrs capacity. Impedance spectroscopy was carried out to analyze the battery performance and various parameters.

At Wieler International Electronics (WIE)

Position: Dy. Manager for Research and development

Process engineering for Hybrid Integrated Circuits.

- Optimized the process parameters for piezo-ceramic disc for the acoustics application like fixing of dielectric constant, porosity etc using various analysis, thickness sound level etc.
- Setup the Production line using optimised parameters of Piezo ceramic element (for siren/buzzer) using Slurry preparation with an Aqueous system
- Optimized the process for slurry preparation, tape casting using Doctor blade technique and sintering cycle and polarization conditions for production
- Tape casting (100 micron thick tapes) and Sintering of PZTs. Achieved a sintering yield of +80% for thin PZTs (0.1mm thick).

- Electroding and Polarization.
- Upgraded lab scale to production unit. (100K per month).
- Developed various types of Electronic multi-tone sirens for Industrial safety, Fire and Security applications.
- Developed various types of telephone ringers for Department of Telecommunication, Government of India. Product was approved by Department of Telecommunication, Govt. of India, for mass production.

ACADEMIC CONTRIBUTION:

Book chapters

1. ***Nanostructured Metal Oxides: Applications to biosensing,*** Vol. 2, Chapter 7, Metal Oxide Nanostructures and Their Applications, American Scientific Publishers (ASP), USA (2010).

2. Semiconductor Nanomaterials based Biosensors: Concept, Design and Applications**,** Encyclopaedia of metal oxide nanomaterials**,** American Scientific Publishers (ASP), USA (to be published in 2017).

3. ***Nanostructure TiO2 for dye sensitized solar cells: A theoretical approach (Chapter 4)*****,** Smart Materials for Energy Storage and Environmental Applications, LAP Lambert Academic Publications, Germany (2016), ISBN: 9783659865398

4. Z. A. Ansari, **S. G. Ansari**, Rajesh Kumar, Girish Kumar, Ahmad Umar, Sang-Hoon Kim, Hamed Algarni, *Toxicological and antimicrobial properties of nanostructured metal oxides,* Handbook of Remediation for Complex Environmental Problems, Edited by M. S. Akhtar, IK International Publishing House Pvt. Ltd. **(2017)**

Patent:

S G Ansari, H Fouad, Z A Ansari, *Hydroquinone electrochemical sensor based on Manganese doped titanium dioxide*, **Indian patent (File No. 3406/DEL/2014, dt. 25/11/2014, Published).**

S G Ansari, Z A Ansari, T Athar, A A Khedairy, B. Chishti, P Sharma et. al., *Electrochemical sensor for Brucella abortus using doped nano metal oxide*, **Indian patent (File No. 201611002691 dt. 25/1/2016, Published, Requested for Examination on 09/05/2019).**

List of Publications

140. Soorya James, Benazir Chisti, Z. A. Ansari, Othman Y. Alothman, H. Fouad, and **S. G. Ansari**, *Nano-structured cuprous oxide based Screen Printed Electrode for Electrochemical Sensing of Picric acid*, **Journal of Electronic Materials,** 47 (12), 7505-7513, 2018.

140. Nazish Parveen, Sajid Ali Ansari, **S.G. Ansari**, H. Fouad, Nasser M. Abd El-Salam, Moo Hwan Cho, *Solid-state symmetrical supercapacitor based on hierarchical flowerlike nickel sulfide with shape-controlled morphological evolution*, **Electrochimica Acta, 268, 82-93 (2018).**

139. Zeenat Khatoon, Azza S. Hassanein, H. Fouad, Z. A. Ansari, Othman Y. Alothman, May S. Alnbaheen, and S. G. Ansari, *Fabrication and characterization of Electrochemical organophosphate sensor device based on doped tin Oxide Nanoparticles*, **Journal of Nanoelectronics and Optoelectronics 13(7), 1082-1089 (2018).**

138. Summaiyya Khan, Z. A. Ansari, H. K. Seo, and S. G. Ansari, *Synthesis and Application of Cu-Doped Nickel and Zirconium Oxide Nanoparticles as Brucella abortus electrochemical device development*, **Sensor Letters, 16, 204-210 (2018).**

137. M. Ashique, Sajid Ali Ansari, Nazish Parveen, H. Fouad, **S. G. Ansari**, Z. A. Ansari, *Mechanochemistry involved synthesis of Melamine (Nitrogen) doped TiO2 nanoparticles for dye sensitized solar cells application*, **Journal of Materials Science: Materials in Electronics 29(11), 9108-9116, (2018)**.

136. Benazir Chishti, Z. A. Ansari, H. Fouad, Othman Y. Alothman, and **S. G. Ansari,** *Significance of Doping Induced Tailored Zinc Oxide Nanoparticles: Implication on Structural, Morphological and Optical Characteristics***, Science of Advanced Materials**, **9, 2202-2213, (2017).**

135. Summaiyya Khan, Z. A. Ansari, Othman Y. Alothman, H. Fouad, and **S. G. Ansari**, Application of Amine and Copper Doped Magnesium Oxide Nanoparticles in Electrochemical Immunosensors for Detecting *Brucella abortus*, **Nanoscience and Nanotechnology Letters**. **9, 1656-1664, (2017).**

134. Benazir Chishti, Z. A. Ansari, H. Fouad, Othman Y. Alothman, and **S. G. Ansari**, *Significance of Doping Induced Tailored Zinc Oxide Nanoparticles: Implication on Structural, Morphological and Optical Characteristics*, **Sci. Adv. Mater.** 2202-2213 (**2017**).

133. Sajid Ali Ansari1, Zeenat Khatoon, Nazish Parveen, H. Fouad, Atul Kulkarni, Ahmad Umar, Z. A. Ansari, **S. G. Ansari**, *Polyaniline-Functionalized TiO2 Nanoparticles as a Suitable Matrix for Hydroquinone Sensor*, **Sci. Adv. Mater**. 9, 2032-2038 (**2017**)

132. Sarah Abuelreich, Muthurangan Manikandan, Abdullah Aldahmash, Musaad Alfayez, Mohammed Fayez Al Rez, H. Fouad, Mohamed Hashem, S. G. Ansari, Fawzi F. Al-Jassir, and Amer Mahmood, *Human Bone Marrow MSCs form Cartilage and Mineralized Tissue on Chitosan/Polycaprolactone (CS/PCL) Combined Nanofibrous Scaffolds*, **J. Nanosci. Nanotechnol.** 17, 1771-177 (**2017**)

131. Rizwan Wahab, Shams T. Khan, Javed Ahmad, **S.G. Ansari**, Javed Musarrat, Abdulaziz A. Al-Khedhairy, *MWCNTs functionalization and immobilization with anti-Brucella antibody; towards the development of a nanosensor*, **Vacuum**, 146, 623-632 (**2017**).

130. Ansari, S.A., **Ansari, S.G**., Foaud, H., Cho, M.H., *Facile and sustainable synthesis of carbon-doped ZnO nanostructures towards the superior visible light photocatalytic performance*, **New Journal of Chemistry**, 41(17), pp. 9314-9320 (**2017**)

129. Parveen, N., Ansari, S.A., **Ansari, S.G**., Fouad, H., Cho, M.H., *Intercalated reduced graphene oxide and its content effect on the supercapacitance performance of the three dimensional flower-like β-Ni(OH)2 architecture*, **New Journal of Chemistry**, 41(18), 10467-10475 (**2017**)

128. T Ahmad, IH Lone, **S G Ansari**, J Ahmed, T Ahamad, SM Alshehri, *Multifunctional properties and applications of yttrium ferrite nanoparticles prepared by citrate precursor route*, **Materials and Design** 126, 331-338 (**2017**).

127. Ahmed A. Ibrahim, Rafiq Ahmad, Ahmad Umar, M.S.Al-Assiri, A.E.Al-Salam, Rajesh Kumar, **S.G. Ansari**, S.Baskoutas, Two-dimensional ytterbium oxide nanodisks based biosensor for selective detection of urea, **Biosensors and Bioelectronics**, 98, 254-260 (**2017**).

126. Mohamed Hashem, Mohammed Fayez Al Rez, H. Fouad, Tarek Elsarnagawy, Mohamed A. Elsharawy, Ahmad Umar, Mansour Assery, and **S. G. Ansari**, *Influence of Titanium Oxide Nanoparticles on the Physical and Thermomechanical Behavior of Poly Methyl Methacrylate (PMMA): A Denture Base Resin*, **Sci. Adv. Mater**. 9, 938-944 (**2017**)

126. SA Ansari, H Fouad, **S G Ansari**, MP Sk, MH Cho, *Mechanically exfoliated MoS2 sheet coupled with conductive polyaniline as a superior supercapacitor electrode material*, **Journal of Colloid and Interface Science**, 504, 276-282 (**2017**).

124. Ahmed M. Albarrag, Othman Y. Alothman, Mohamed A. Elsharawy, Mohammed Fayez Al Rez, H. Fouad, Mohamed Hashem, and **S. G. Ansari**, *Effect of Nigella sativa Extracts on Candida Species Adhesion to Acrylic Denture Base Material and on Nanomechanical Properties*, **Sci. Adv. Mater**. 9, 775-781 (**2017**).

123. Z. A. Ansari, Taimur Athar, H. Fouad, and **S. G. Ansari**, *Sol-Gel Synthesis of Manganese Doped Titanium Oxide Nanoparticles for Electrochemical Sensing of Hydroquinone*, **J. Nanosci. Nanotechnol.** 17, 2296-2301 (**2017**)

122. Farheen, H. Fouad, **S. G. Ansari**, Z. A. Ansari, *Europium doped TiO_2: an efficient photoanode material for DSSC*, **Journal of Materials Science: Materials in Electronics 28 (9), 6873-6879**).

121. Chandrakant K. Tagad, Hyo Hyun Seo, Rucha Tongaonkar, Yeong Wook Yu, Jeong Hun Lee, Medini Dingre, Atul Kulkarni, H. Fouad, **S.G. Ansari**, Sang Hyun Moh, *Green synthesis of silver nanoparticles using Panax ginseng root extract for the detection of Hg^{2+}*, **Sensors and Materials 29(2), 205, (2017).**

120. Naushad Khan, Taimur Athar, H. Fouad, Ahmad Umar, Z. A. Ansari, **S. G. Ansari**, *Synthesis and application of pristine and doped SnO2 nanoparticles as a matrix for agro-hazardous material (organophosphate) detection*, **Scientific Reports, Article number: 42510 (2017)**.

119. Summaiyya Khan, Amit Kumar, A. A. Khan, T. Athar, H. Fouad, Z. A. Ansari, Hyung Kee Seo, and **S. G. Ansari**, Z. A. Ansari, *Electrochemical device for Glucose Detection using*

Praseodymium doped Nano Zinc Oxide synthesized by hydrothermal method, **Journal of Nanoelectronics and Optoelectronics, 12, 236-241 (2017).**

118. H. K. Seo, Farheen, Sajid Ansari, Nazish Parveen, Shabeena Qadir, H. Fouad, H. S. Shin, Moo Hwan Cho, **S. G. Ansari**, Z. A. Ansari, *Effect of polyaniline concentration on the photoconversion efficiency of nano-TiO_2 based Dye Sensitized Solar Cell*, **Jr. of Materials Science: Materials in Electronics, 28(4), 3210-3216 (2017).**

2016

117. Mohammed Fayez Al Rez, Othman Y. Alothman, H. Fouad, Amer Mahmood, Randa ALFotawi, **S. G. Ansari**, Mohamed Fouad, Mohamed Hashem, and Fawzi F. Al-Jassir, *Stromal Cells Attachment, Proliferation and Nano-Mechanical Behavior of High Density Polyethylene/Carbon Nanotubes/Nanoclay as Artificial Hip and Knee Joint Bearing Material*, **Nanoscience and Nanotechnology Letters**. **8, 846-852 (2016).**

116. Zeenat Khatoon, Taimur Athar, H. Fouad, A. Umar, Z. A. Ansari, **S. G. Ansari**, *Highly sensitive hydrazine chemical sensor based on nickel doped antimony oxide nanoellipsoids modified screen-printed electrode*, **Nanoscience and Nanotechnology Letters**, **8, 555-560, (2016**)

115. Ahmad Umar, **S. G. Ansari** and S.K. Lee, *A Special Issue on Functional materials based Sensors*, **Sensor Letters**, **14, 109-113** (**2016**)

114. Ahmad Umar, **S. G. Ansari** and S.K. Lee, *A Special Issue on Advanced Materials for Sensors Applications*, **Sensor Letters, 14, 325-330 (2016).**

113. Ahmad Umar, **S. G. Ansari** and S.K. Lee, *A Special Issue on Biosensors*, **Sensor Letters, 14, 1-3, (2016).**

112**.** Othman Y. Alothman, H. Fouad, Ubair Abdus Samad, Ahmad Umar, and **S. G. Ansari**, *Nanoclay-Reinforced High Density Polyethylene: Morphological and Nano-Indentation Characterizations* **Science of Advanced Materials, 8(2), 458-465 (2016).**

111. Naushad Khan, Amit Kumar, A. A. Khan, Rizwan Wahab, Shams Tabrez Khan, Javed Ahmad, Abdulaziz A. Alkhedhairy, Z.A. Ansari, **S. G. Ansari**, *Effect of praseodymium on the characteristics of nano-ZnO towards organophosphate as a nano-electrochemical device,* **Journal of Nanoelectronics and Optoelectronics, 11(1), 6-11, (2016).**

2015

110. Sakina Aamir, Z.A.Ansari, H. Fouad, Ahmad Umar, AbdulAziz A. Al Kheraif, S. G. Ansari, *Effect of Inoculum Size and Surface Charges on the Cytotoxicity of ZnO Nanoparticles for Bacterial Cells*, **Science of Advanced Materials, 7(12), 2515-2522 (2015).**

109. Manoj Kumar Patel, Md. Azahar Ali, Sadagopan Krishnan, Ved Varun Agrawal, AbdulAziz A. Al Kheraif, H. Fouad, Z.A. Ansari, **S. G. Ansari** and Bansi D. Malhotra, *A Label-Free Photoluminescence Genosensor Using Nanostructured Magnesium Oxide for Cholera Detection*, **Scientific Reports, 5, 17384 (2015).**

108.M F Al Rez, M Abdelaal, H. Fouad, E Laourine, M Hild, D Aibibu, C Cherif, A Mahmood, S Abuelreich, M Manikandan, S. W. Goavi, M Hashem , S.G. Ansari, F S Al-Mubaddel, Y. A.

Elnakady, M Fouad, M Alqahtani, *In vitro characterization of thermal behaviour and bone marrow stromal cell attachment on Polycaprolactone/Chitosan (PCL/CS) nanofibrous scaffolds*, **Science of Advanced Materials, 7(11), 2427-2435 (2015).**

107. S. G. Ansari, Ahmad Umar, S.A. Asiri, *Fe-doped ZnO nanorods modified screen printed electrode based highly sensitive hydroquinone sensor*, **Dalton Transaction, 44, 21081(2015)**

106. S.G. Ansari, H. Fouad, Hyung-Shik Shin, Z.A. Ansari, *Electrochemical Enzyme-less Urea Sensor based on Nano-Tin Oxide Synthesized by Hydrothermal Technique*, **Chemico-Biological Interactions, 242 45-49 (2015).**

105. Amit Kumar, Md Zafaryab, M. M. A. Rizvi, H. Fouad, Z. A. Ansari, **S. G. Ansari**, *Relief of Oxidative stress using curcumin and glutathione functionalized ZnO nanoparticles in HEK-293 cell line*, **Journal of Biomedical Nanotechnology, 11 (11), 1913-1926 (2015).**

104. Taimur Athar, Magdy Abdelaal, Zeenat Khatoon, Amit Kumar, Alabass Razzaq, Aleem Khan, H. Fouad, **S. G. Ansari**, Z. A. Ansari, *Green Synthesis of $NiSnO_3$ Nanopowder and its Application as Hydroquinone Electrochemical Sensor*, **Sensors and Materials, 27(7) 563-573 (2015).**

103. Z. A. Ansari, H, Fouad, **S.G. Ansari**, *Dye Sensitized Solar Cells fabricated using Cu-doped TiO_2 nanopowder with anthocyanin as sensitizer*, **Journal of Nanoelectronics and Optoelectronics, 10 (2), 290-294 (2015).**

102. **S. G. Ansari,** Fatima Tuz-Zehra, H. Fouad, Azza S. Hassenein, Z. A. Ansari, *Effect of flower extracts on the photoconversion efficiency of Dye Sensitized Solar Cells fabricated with Sn-doped TiO_2,* **Jr. of Materials Science: Materials in Electronics, 26, 5170-5174 (2015).**

101. **S. G. Ansari**, Trisha Choudhury, H. Fouad, Z. A. Ansari, *Tailoring the optoelectronic properties of nano-metal oxides using anthocyanins and lanthanide*, **Journal of Nanoscience and Nanotechnology, 15, 9548-9553, (2015).**

100. A. A. Khan, J. Islam, **S. G. Ansari,** H. Fouad, Z. A. Ansari, *Effect of neodymium on the photoconversion efficiency of TiO_2 based Dye Sensitized Solar Cells*, **Jr. of Materials Sc. (Mat. in Elec.), 26(3), 1737-1742 (2015)**.

99. Ahmed A. Ibrahim, Sang Woon Hwang, G. N. Dar, S. H. Kim, M. Abaker, **S. G. Ansari,** *Synthesis and characterization of Gd-doped ZnO nanopencils for acetone chemical sensor application*, **Science of Advanced Materials, 7, 1241-1246 (2015).**

98. Mohammed F. Al Rez, H. Fouad, Khalil A. Khalil, Ahmed M. Albarrag, Amer Mahmood, **S. G. Ansari**, *Fabrication and Characterization of PCL micro-/nanofibers for vascular tissue replacement*, **Science of Advanced Materials. 7, 599-605, (2015)**.

97. Y. A. Elnakady, Mohammed F. Al Rez, H. Fouad, Sarah Abuelreich, Amer Mahmood, Othman Y. Alothman, T. Elsarnagawy, **S. G. Ansari**, *Vascular Tissue Engineering using Polycaprolactone Nanofibrous Scaffolds Fabricated via Electrospinning*, **Science of Advanced Materials. 7, 407-413 (2015).**

96. T. Elsarnagawy, Ahmed M. Albarrag, H. Fouad, Fahad N. Almajhdi, Mohammed F. Al Rez, Khalil Abdelrazek Khalil, Sarah Abuelreich, Amer Mahmood, Fawzi F. Al-Jassir, **S. G. Ansari**,

Thermo-Mechanical, Osteoblastic Cell Growth and Attachment Behavior of Electrospun PLGA Nano-Fibers: In Vitro Study, **Science of Advanced Materials**. **7, 396-405 (2015).**

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List of Invited talks/Popular lectures

1. *Presentation on API & PBAS,* Academic Staff College, JMI, December 21, 2015

2. *Development of Nucleic Acid Biosensor using nanostructured metal oxides for Detection of Pathogens/Disease,* King Saud University, May 13, 2015

3. *Biosensing characteristics of Metal oxides*, Academic Staff College, May 24, 2013

4. *Biosensing characteristics of Metal oxides*, Academic Staff College, Feb. 13, 2013

5. *Synthesis of Nanosctructured metal oxides and their Biosensing applications,* Recent Trends in Nanoscience and Nanotechnology, Delhi University, 15-16, October, 2012.

6. *Enzyme based Biosensing characteristics of nanostructured metal oxides,* National Symposium on Nano-Biotechnology (NSNB 2012), IIT Mandi, 1-2, June 2012.

7. *Overview of film deposition techniques,* First Refresher course in Basic Science (Interdisciplinary), UGC-Academic Staff College, Jamia Millia Islamia, New Delhi, 11th May 2011.

8. *Introduction to Nanobiosensors*, UGC-Academic Staff College, Jamia Millia Islamia, New Delhi, 19th May 2011.

9. *Application of Nanotechnology to Biological Sciences*, National seminar on Interdisciplinary Applications of Nanotechnology, 24-25 January 2011, SPH College, Malegaon, India.

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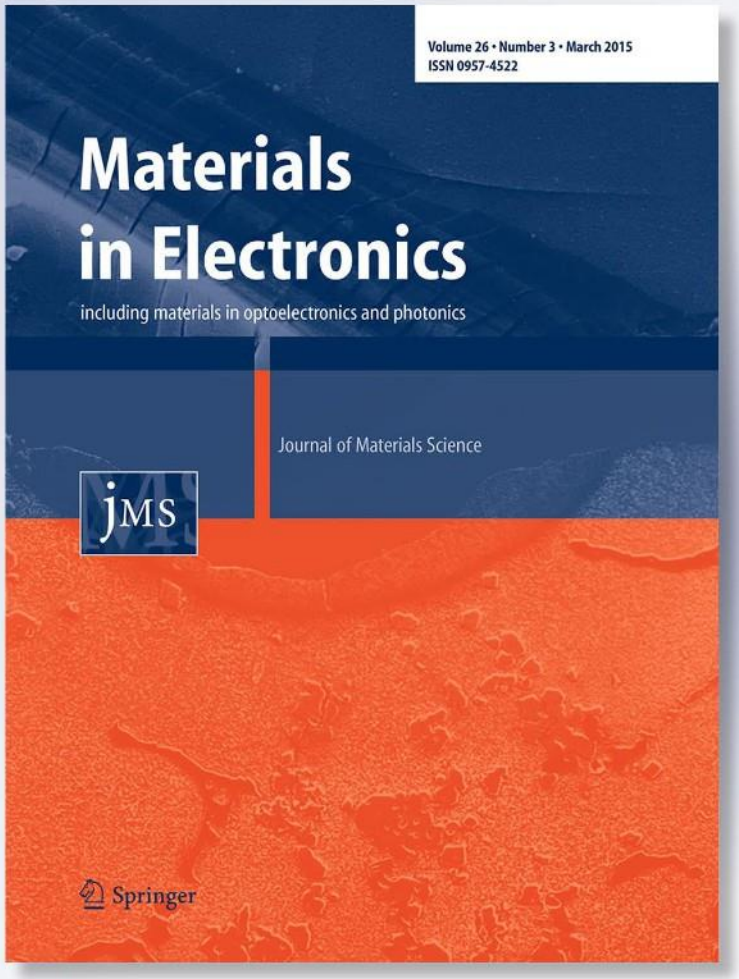

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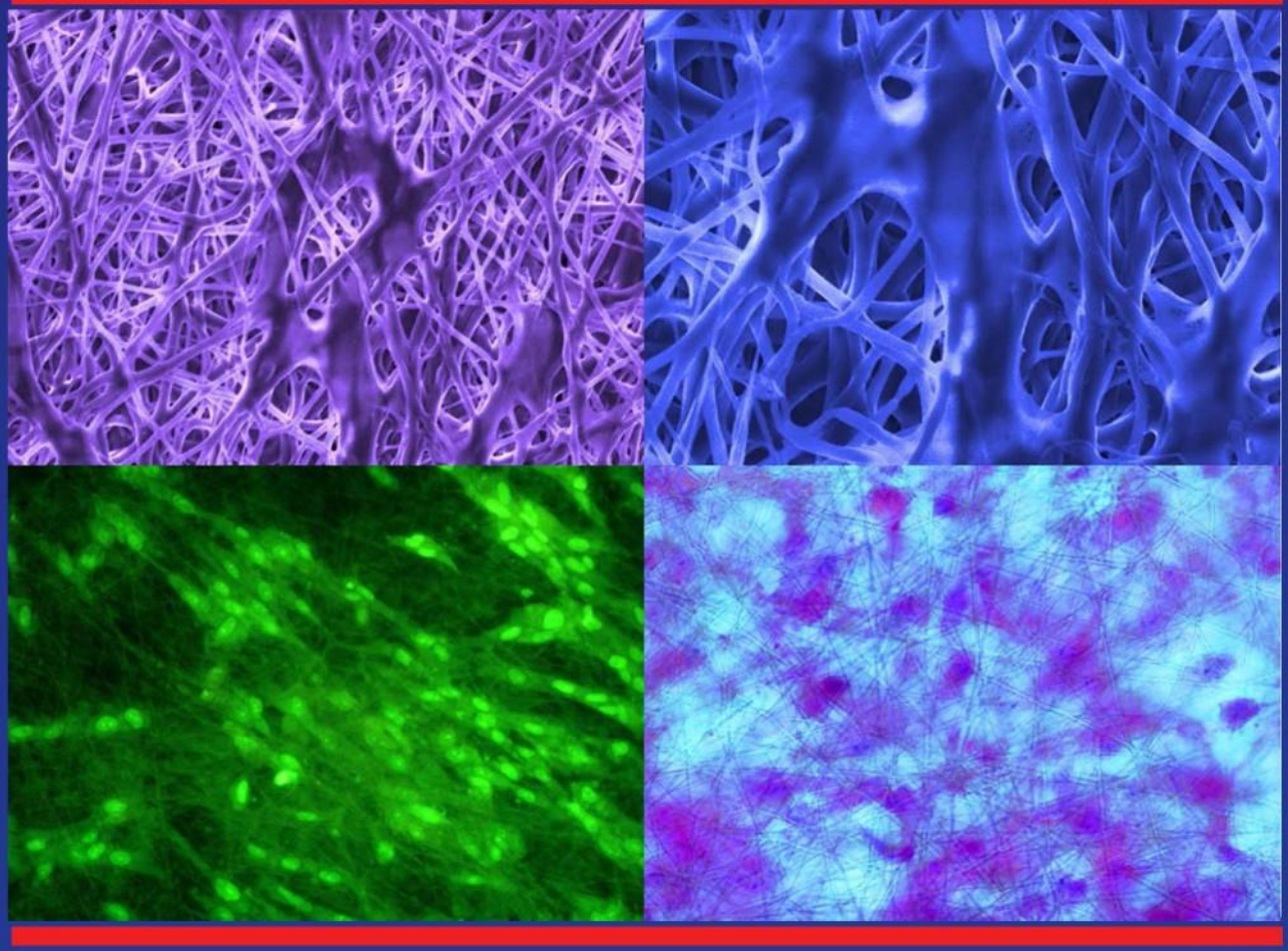

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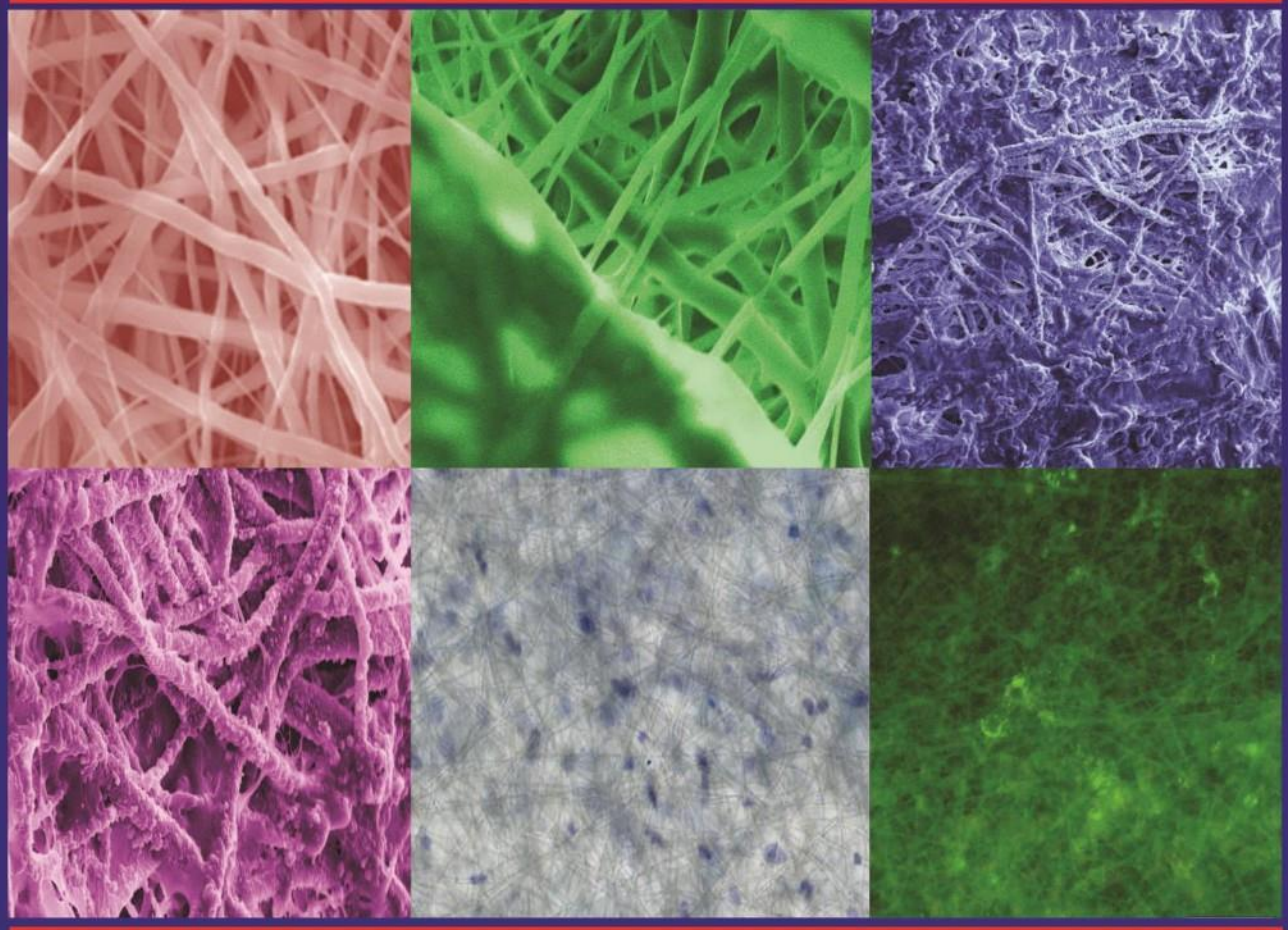

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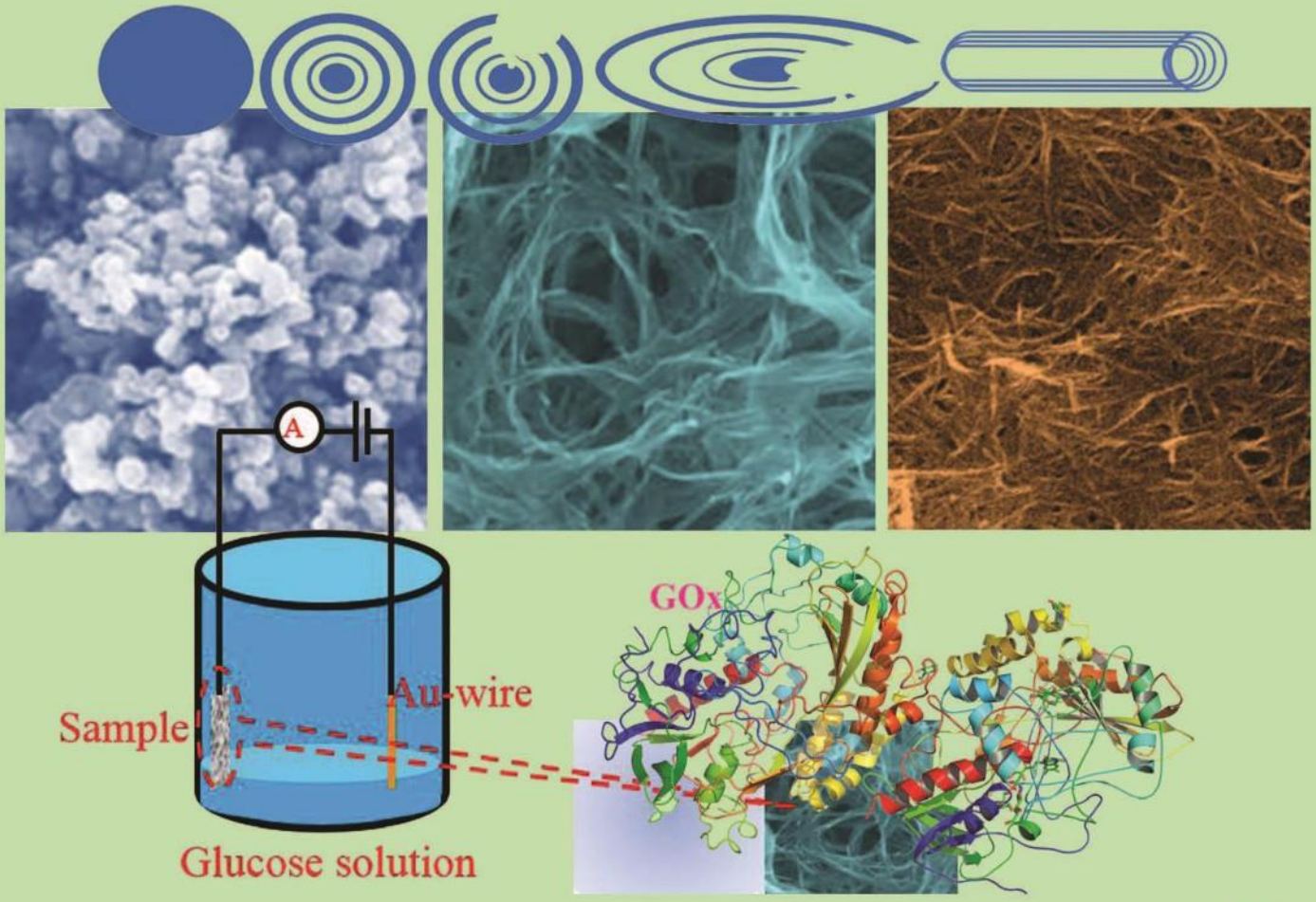

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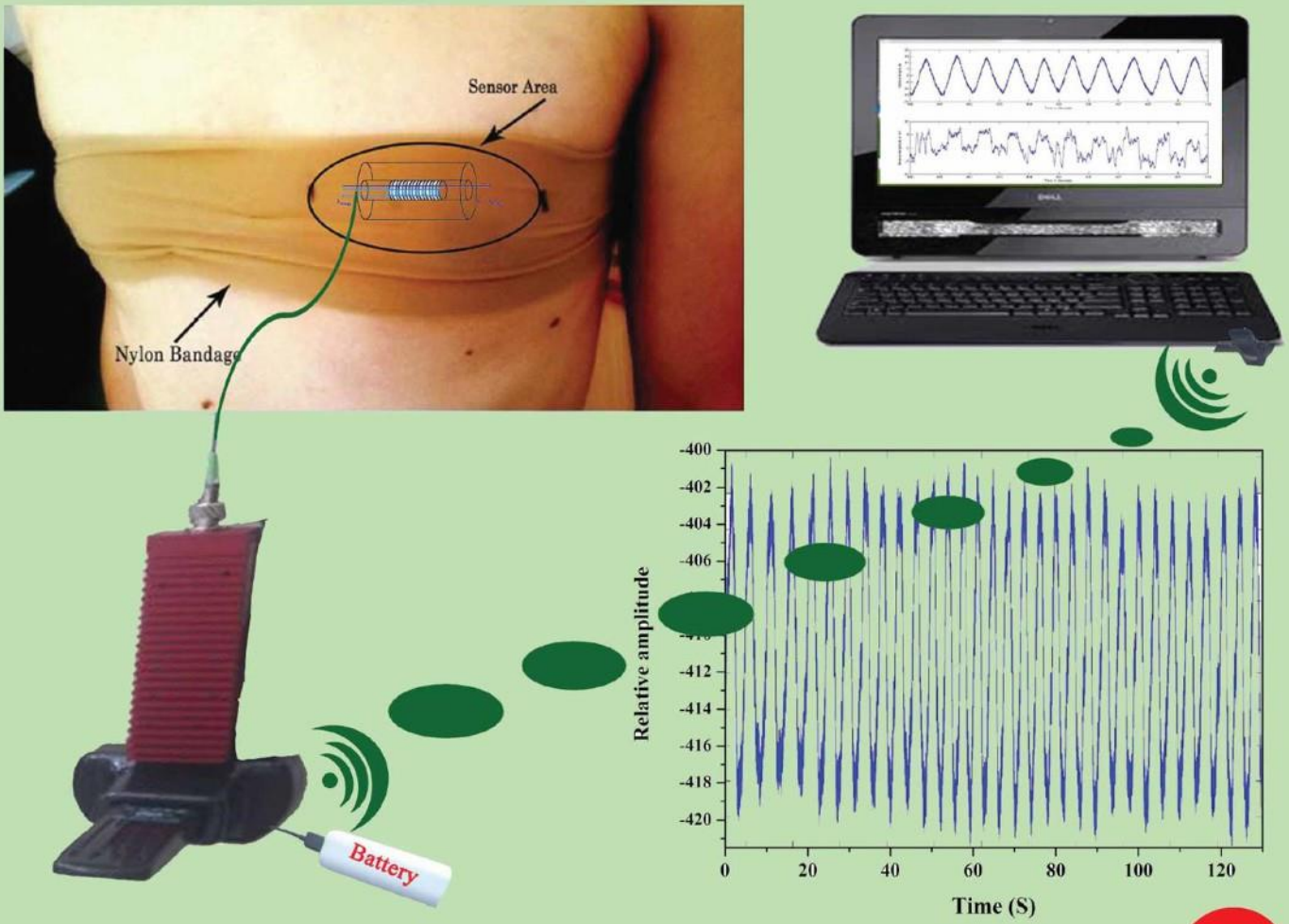

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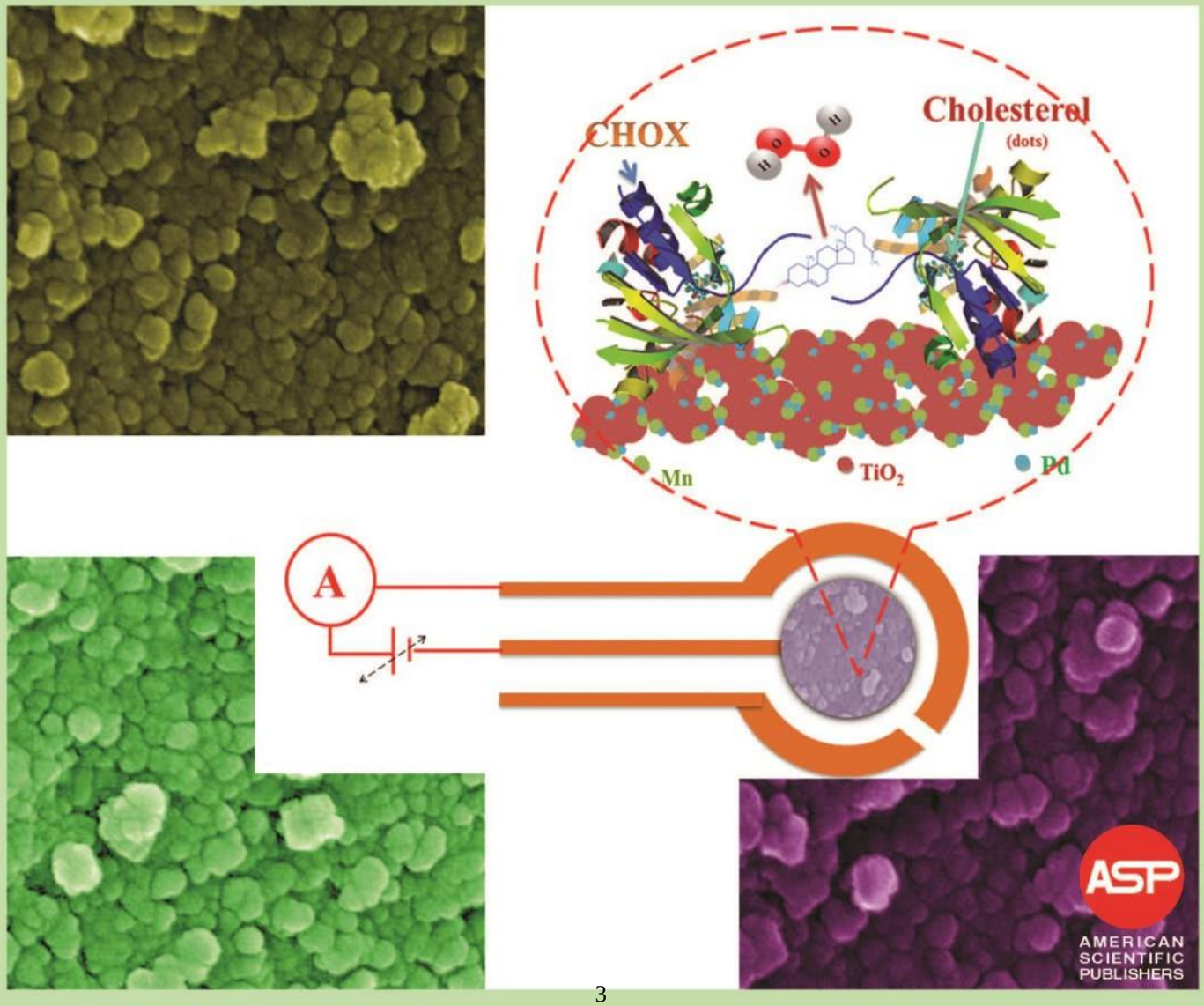

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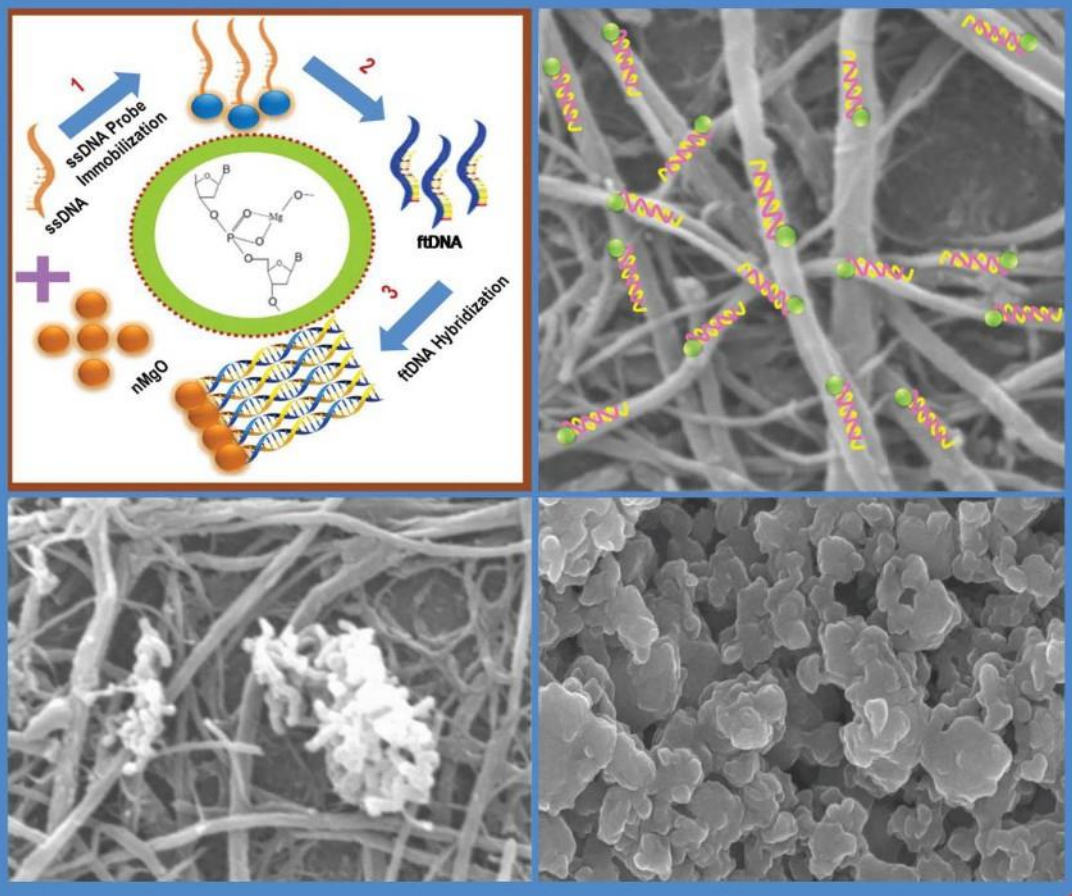

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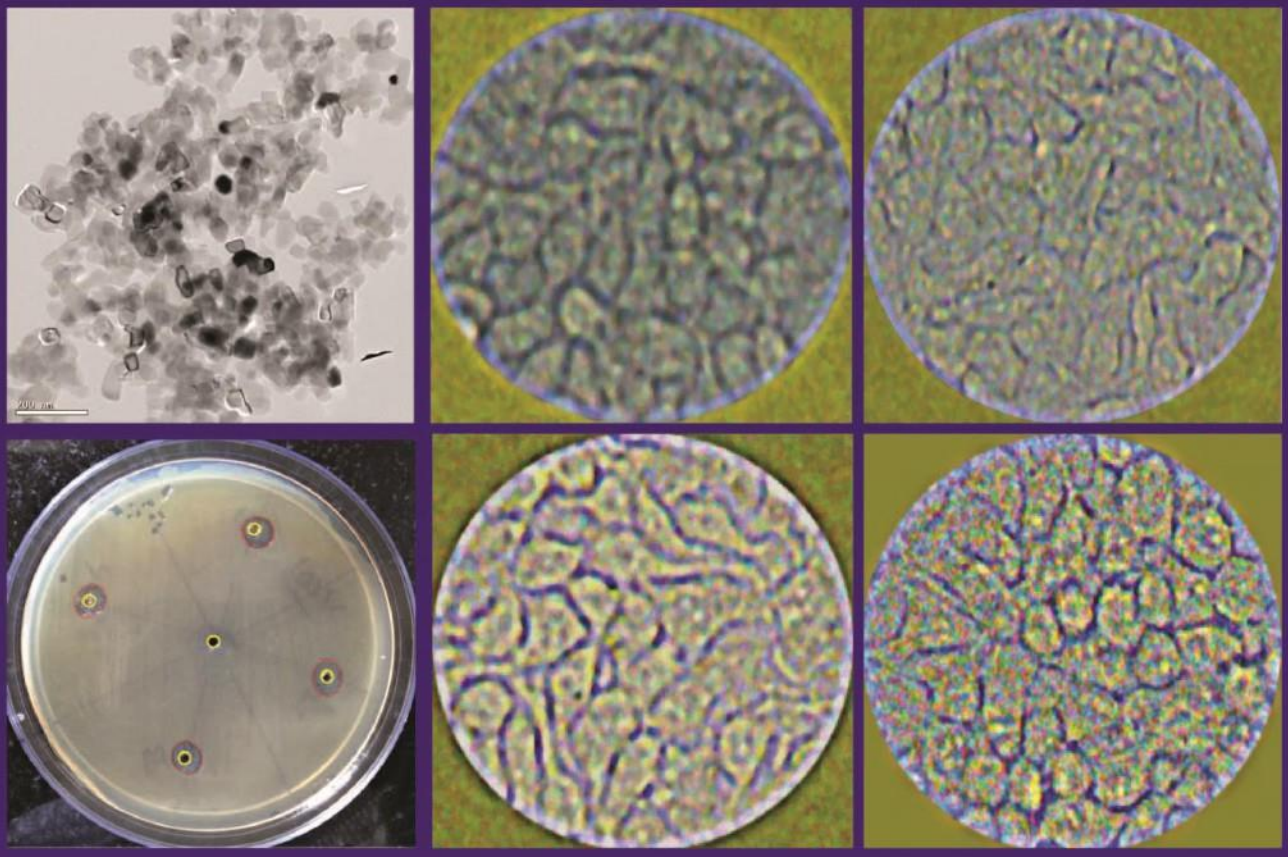

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