

## Curriculum Vitae



<b>Name</b>	Hassan Fouad Mohamed- El-Sayed
<b>Designation</b>	Professor
<b>Nationality</b>	Egyptian
<b>Permanent Address</b>	<i>Biomedical Engineering Department , Faculty of Engineering Helwan University- Egypt</i>
<b>Present Address</b>	<i>Applied Medical Science Department, RCC, King Saud University, Saudi Arabia</i>
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<b>Status</b>	Married
<b>Date of Birth</b>	:16/123/1967

### ***Educational Qualifications:***

Degree	Institute	Address	Fields	Dates
<b>Ph.D.</b>	Leeds / Helwan University Channel system	Leeds UK/ Egypt	High Strain Rate Properties of Bio-materials/FEM	2000
<b>M.Sc.</b>	Helwan University	Egypt	Polymers Properties, Engineering Measurements	1996
<b>B.Sc.</b>	Helwan University	Egypt	Mechanical Engineering	1990

### ***Employment History***

Employer	Dates	Post	Job Activity
<b>Helwan University-Egypt</b>	1/1991-6/1996	Instructors.	Teach/ Research
<b>Helwan University-Egypt</b>	7/1996-6/1998	Assistant Lecturer	Teach/ Research
<b>Leeds University-UK</b>	7/1998-6/2000	Research Student-	Research
<b>Helwan University-Egypt</b>	11/2000-8/2003	Assistant Prof.	Teach/ Research
<b>Technical University –Vienna-Austria</b>	8/2003-2/2004	Research Doctor	Research

<b>Ministry of Higher Education –Project Management Unit</b>	2005-2007	Assistant of Technical College Development Project Director	Administration
<b>Helwan University-Egypt</b>	2/2004-12/2006	Assistant Prof.	Teach/ Research
<b>Misr University of Technology (MUST)</b>	2005-2007	Assistant Prof.	Teach
<b>Helwan University-Egypt</b>	1/2007	Associate Prof. –Head of Biomedical Eng. Dept	Teach/ Research
<b>King Saud University RCC</b>	2008-2011	Associate Prof	Teach/ Research
<b>King Saud University RCC</b>	2011 till now	Full Professor	Teach/ Research
<b>Helwan University-Egypt</b>	2013-till now	Full Professor	Teach/ Research
<b>Supervisor of Quality and Accreditation Unit at RCC, King Saud University</b>	2011- till now		Administration

## Grants and Research Projects

1. *Modification and Characterization of Biodegradable/Bioactive PMMA Bone Cement Based on Micro/Nano Particles Additives: in Vivo and in Vitro study. KSU*
2. *Fabrication and characterization of 3D nano-fiber biodegradable scaffolds for soft and hard tissue replacement. KSU*
3. *Novel nano-structured high impact strength composite composed of carbon-metal nano-fibers reinforced carbon matrix (CMNFC) for industrial and biomedical applications KSU*
4. *Improving the photoconversion efficiency of TiO<sub>2</sub>-Perovskite nano-composites based DSSC sensitized with natural dyes KSU*

## Awards and Homers

- 2 Years Channel system at Leeds University UK (1997-20000)
- Post-Doctoral Grant at Vienna University of Technology (2004-2005)
- Top 100 Health Professional 2011
- Who is Who
- 2000 Outstanding Intellectuals of the 21st Century 2011
- Referee for many International ISI journal
- Invited Speaker in many International conferences and forums

## BOOK CHAPTERS

- *Semiconductor Nanomaterials based Biosensors: Concept, Design and Applications, Encyclopedia of Metal Oxide Nanomaterials, American Scientific Publishers (ASP), USA (to be published in 2015).*

## 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)*

### Courses Taught (University level)

University	Course Title	Teach freq.	Language
Helwan Univ. Cairo-Egypt	Modeling in Biomedical Eng.	1	Arabic / English
	Engineering Materials and Bio-materials	1	
	Biomedical Equipment	4	
	Strength of Materials	4	
	Electrical Measurements	2	
Leeds University Uk.	Biomaterials and biomechanics	6	English
	FE Modeling	2	
	Biomedical Polymers	2	
Misr University for Science and Technology	B.Sc. Projects	4	Arabic / English
	Biomechanics	2	
	Hospital Planning	1	
	Measurements	2	

## Other Contributions and Field Projects

No	Activity	Nature of Activity
1		<i>Internal auditor for ISO 9001:2008 at King Saud University from 2009 to now.</i>
2		<i>"Preparation of a unified vision for the classification of government agencies AT Saudi Arabia"</i>
3	<i>Curriculum Development</i>	Participated in the development, suggestions for content of under graduate and post graduate biomedical engineering dept. courses, and review of final draft.
4	<i>Council &amp; Committee Membership</i>	<p>Deputy Director of the Egyptian Technical Collage Project (ETCP)- Ministry of Higher Education</p> <p>Participation in National Committee meetings for Egyptian Technical Collage Project</p> <p>Tenders and Equipment Inspection committee in the Egyptian Ministry of Higher Education Egypt</p> <p>Participation in Books Committee meetings for Egyptian Technical Collage Department and collage Council</p> <p>Class Schedule Committee</p> <p>Member of Curricula Accreditation Committee of Department and Collage</p> <p>Tenders and equipment inspection collage committee</p> <p>Participated in establishing biomedical engineering lab's</p>

Member of team work from Helwan University in a project of Design and Manufacturing of Spare Parts and sub-assembly (research and technology development centre), 2001-till now.

Consultant of Monitoring and Evaluation in the Egyptian Higher Education Enhancement Projects – Ministry of Higher Education- World Bank

Participation in the American- Egyptian workshop in the field of characterization of Nano-particles and Nanostructure materials 2005

Participation in the workshop of: Nano research at universities, the road toward fulfilling the vision of the custodian of the two Holly mosques KSU 27-28-October 2007.

Member of Institute of material in London (membership No. 00324009 April 2000.

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<b>5</b>	<b>Library committee</b>	Participated in selection and purchase of scientific textbooks and references
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### ***Sample of Notes & Reference Books***

#### *Sample of Translated and Edited Books*

*1- Medical Instrumentation : Application and Design (John G. Webster)*

*2-How Does MRI Work? (Springer)*

*3 Bioinstrumentation (Morgan and Claypool)*

*4- Signal processing of physiological signals (Morgan and Claypool )*

*5- Statistics for biomedical Engineers (Morgan and Claypool )*

*7-Learn Mat-Lab by yourself Step by Step (Editing book)*

*8- Digital Signal Processing (Editing book)*

*9-Towards Practical Brain-Computer Interfaces Bridging the Gap from Research to Real-World Applications*

*By: Brendan Z. Allison, Stephen Dunne, Robert Leeb, José del R. Millán, Anton Nijholt , Springer. 2012*

*10 -Signals and Systems: Analysis Using Transform Methods and MATLAB By: Michael J. Roberts © The McGraw-Hill Companies., 2012 M. J. Roberts*

*11- Introductory Medical Imaging Editor John D. Enderle, University of Connecticut (Morgan and Claypool )*

*12- Biomedical Information Technology , David Feng, Imprint: Academic Press*

*13- plastics and sustainability towards a peaceful coexistence between biobased and fossil fuel based plastics. By Michael Tolinski , Scrivener publishing 2012*

### **Sample of attended Conference**

<ul style="list-style-type: none"> <li><b>Mansoura fifth international conference, 2006, Egypt</b> H. Fouad (Creep-Recovery and Relaxation Behaviour of UHMWPE Material under Different Pre-Environmental Loading Conditions)</li> </ul>
<ul style="list-style-type: none"> <li><b>Macromolecular Symposia, vol. 217, pp.99-107, 2004 Austria.</b> Stampfl, A. Woesz , S. Seidler, H. Fouad, A. Pisaipan, F. Schwager, and R. Liska (Water Soluble, Photocurable Resins for Rapid Prototyping Applications)</li> </ul>
<ul style="list-style-type: none"> <li><b>Mansoura fourth international conference, 2004, Egypt.</b> H. Fouad. (Effect of UV Irradiation Dose and Accelerated Aging on the Nano-Mechanical Properties of UHMWPE under Different Loading Rates)</li> </ul>
<ul style="list-style-type: none"> <li><b>6th International Conference of the Egyptian Society of Tribology , Cairo University, 2002, Egypt</b> H. Fouad (Effect of Artificial Hip Joint Geometry on the Predicted Von Mises Stresses in the Hip Joint System)</li> </ul>
<ul style="list-style-type: none"> <li><b>8th International conference on production Engineering Design and control, PEDAC, 2004 ,Alexandria – Egypt</b> M. Elshenawy and H. Fouad "Material Resistance for Crack Propagation in Plates under Tensile Loading when using Drilling-Hole Technique"</li> </ul>
<ul style="list-style-type: none"> <li><b>11th International Conference on deformation yield and fracture of polymers, Churchill Collage, Cambridge UK., 2000,England.</b> H. F. Elsayed, D. C. Bariton, L. A. Latif, and M. Kenawy (An Experimental and Numerical Investigation of Deformation and Fracture of Semi-Crystalline Polymers under Varying Strain Rate and Triaxial State of Stress) H. F. Elsayed, D. C. Bariton, L. A. Latif, and M. Kenawy (An Experimental and Numerical Investigation of Deformation and Fracture of Semi-Crystalline Polymers under Varying Strain Rate and Triaxial State of Stress)</li> </ul>

## ***Sample of Publications (ISI Refereed Journals)***

### ***(2019)***

- 1.Abdulaziz A Al Kheraif, Obaid Abdullah Alshahrani, Mohammed Sayed S Al Esawy, **H Fouad** “Evolutionary and Ruzzo–Tompa optimized regulatory feedback neural network based evaluating tooth decay and acid erosion from 5 years old children” Measurement Volume 141, July 2019, Pages 345-355
2. **H. Fouad** “A Special Section on Machine Learning in Biomedical Signal and Medical Image Processing” Journal of Medical Imaging and Health Informatics, V 9Issue 3, PP 480-481, 2019
3. **H Fouad**, Basheer A Al-Shammary, Mohammed Fayez AlRez, Randa Al-Fotawi, Amer Mahmood “Modified Bi-Layered Polycaprolactone Nanofiber Scaffolds for Vascular Tissue Engineering Applications” Nanoscience and Nanotechnology Letters, V 11, No 1, PP 1-10, 2019.

4. N Saba, M Jawaid, **H Fouad**, Othman Y Alothman “Nanocarbon: Preparation, properties, and applications” Book Nanocarbon and its Composites, PP 327-354, 2019. Publisher Woodhead Publishing

## (2018)

- 5.Ritika, Manjot Kaur, Ahmad Umar, Surinder Kumar Mehta, Surinder Singh, Sushil Kumar Kansal, **H. Fouad** and Othman Y. Alothman “Rapid Solar-Light Driven Superior Photocatalytic Degradation of Methylene Blue Using MoS<sub>2</sub>-ZnO Heterostructure Nanorods Photocatalyst” **Materials** **2018**, **11**, 2254; doi:10.3390/ma11112254
6. Ahmad Umar, M. S. Akhtar, S. H. Kim, R. Kumar, **H. Fouad**, and Othman Y. Alothman “Methanol Gas Sensor Based on ZnO–SnO<sub>2</sub> Hollow Urchins” **Nanoscience and Nanotechnology Letters** Vol. 10, 1405–1411, 2018
- 7.SOORYA JAMES, BENAZIR CHISHTI, SAJID ALI ANSARI, OTHMAN Y. ALOTHMAN, **H. FOUAD**, Z.A. ANSARI,<sup>1</sup> and S.G. ANSAR “Nanostructured Cuprous-Oxide-Based Screen-Printed Electrode for Electrochemical Sensing of Picric Acid” **Journal of Electronic Materials December 2018, Volume 47, Issue 12, pp 7505–7513**
- 8.Nitu Sing, Ahmad Umar, Neha Singh, **H. Fouad**, Othman Y. Alothman, Fozia Z. Haque. “Highly sensitive optical ammonia gas sensor based on Sn Doped V<sub>2</sub>O<sub>5</sub> Nanoparticles” **Materials Research Bulletin Volume 108, December 2018, Pages 266-274**
- 9.Ali Alrahlah, Rawaiz Khan, Khalid Alotaibi, Ziad Almutawa , **H. Fouad**, Mohamed Elsharawy, Nikolaos Silikas “Simultaneous Evaluation of Creep Deformation and Recovery of Bulk-Fill Dental Composites Immersed in Food-Simulating Liquids” **Materials 2018, 11(7), 1180; https://doi.org/10.3390/ma11071180**
10. Zeenat Khatoon, Azza S Hassanein, **H. Fouad**, ZA Ansari, Othman Y Alothman, May S Alnbaheen, SG Ansari “Fabrication and Characterization of Electrochemical Organophosphate Sensor Device Based on Doped Tin Oxide Nanoparticles” **Journal of Nanoelectronics and Optoelectronics, Volume 13, Number 7, July 2018, pp. 1082-1089(8)**

11. Ali Alrahlah, **H Fouad**, Mohamed Hashem, Abdurahman Niazy, Abdulhakim AlBadah “Titanium Oxide (TiO<sub>2</sub>)/Polymethylmethacrylate (PMMA) Denture Base Nanocomposites: Mechanical, Viscoelastic and Antibacterial Behavior” **Materials 2018, 11(7), 1096; https://doi.org/10.3390/ma11071096**
12. Ashique Kotta, Sajid Ali Ansari, Nazish Parveen, **H Fouad**, Othman Y Alothman, Usama Khaled, HK Seo, SG Ansari, ZA Ansari “Mechanochemical synthesis of melamine doped TiO<sub>2</sub>nanoparticles for dye sensitized solar cells application” **Journal of Materials Science: Materials in Electronics June 2018, Volume 29, Issue 11, pp 9108–9116**
13. Hamad F Alharbi, Monis Luqman, **H Fouad**, Khalil Abdelrazek Khalil, Nabeel H Alharthi “Viscoelastic behavior of core-shell structured nanofibers of PLA and PVA produced by coaxial electrospinning” **Polymer Testing Volume 67, May 2018, Pages 136-143**
14. Yogesh Waghadkar, Sudhir Arbuj, Manish Shinde, Reshma Ballal, Sunit B Rane, Suresh Gosavi, **H Fouad**, Ratna Chauhan “Hydrothermally Synthesized Zinc Sulphide Microspheres for Solar Light-Driven Photocatalytic Properties” **Journal of Electronic Materials May 2018, Volume 47, Issue 5, pp 2687–2693**
15. Nazish Parveen, Sajid Ali Ansari, SG Ansari, **H Fouad**, Nasser M Abd El-Salam, Moo Hwan Cho “ Solid-state symmetrical supercapacitor based on hierarchical flower-like nickel sulfide with shape-controlled morphological evolution” **Electrochimica Acta Volume 268, 1 April 2018, Pages 82-93**
16. **H Fouad**, Randa AlFotawi, Othman Y Alothman, Basheer A Alshammari, Musaad Alfayez, Mohamed Hashem, Amer Mahmood “Porous Polyethylene Coated with Functionalized Hydroxyapatite Particles as a Bone Reconstruction Material” **Materials 2018, 11(4), 521; doi:10.3390/ma11040521**
17. Ahmad Umar, Kulvinder Singh, SK Mehta, **H Fouad**, Othman Y Alothman” Highly Sensitive Enzyme-Less Glucose Biosensor Based on  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Nanoparticles” **Nanoscience and Nanotechnology Letters, Volume 10, Number 3, 2018, pp. 429-434**

(2017)

18. Jadhav, Punam A.; Panmand, Rajendra P.; Patil, Deepak R.; **Fouad, H.**; Gosavi, Suresh W.; Kale, Bharat B. “Triangular CdS nanostructure: effect of Mn doping

on photoluminescence, electron spin resonance, and magneto-optical properties”  
**Journal of Nanoparticle Research, Volume 19, Issue 6, article id.218, 10 pp.**

19. 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)
20. Othman Y. Alothman, Basheer A. Alshammari, **H. Fouad**. Effect of Aluminum Oxide Nanoparticles on Nanomechanical and Viscoelastic Properties of Low Density Polyethylene Composites. **Nanoscience and Nanotechnology Letters** **9(12):1891-1898**
21. 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  $\beta$ -Ni(OH)2 architecture, **New Journal of Chemistry**, **41(18)**, **10467-10475** (2017)
22. Basheer A. Alshammari, Othman Y. Alothman, **H. Fouad**, Yasser A. Elnakady, Abd-Elkader O. Mohamed, Shaban Rushdy M. Sayed, Mohamed Hashem, and Usama Khaled, “Characterization of the Viscoelastic, Dielectric, and Biological Behavior of Porous Polyethylene for Hard Tissue Replacement” **Science of Advanced Materials, Volume 9, Number 12, December 2017, pp. 2073-2081(9)**
23. Summaiyya Khan, Z. A. Ansari, Othman Y. Alothman, **H. Fouad**, S. G. Ansari, “Application of Amine and Copper Doped Magnesium Oxide Nanoparticles in Electrochemical Immunosensors for Detecting Brucella abortus” **Nanoscience and Nanotechnology Letters**. **9**, PP **1656-1664**, (2017).
24. 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, Volume 9, Number 12, December 2017, pp. 2202-2213(12)**.
25. 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, **Science of Advanced Materials** **9(11):2032-2038**
26. Sajid Ali Ansari, **H. Fouad**, S.G. Ansari, Md Palashuddin Sk, Moo Hwan Cho. “Mechanically exfoliated MoS2 sheet coupled with conductive polyaniline as a

superior supercapacitor electrode material” **Journal of Colloid and Interface Science**, Volume 504, 15 October 2017, Pages 276–282

27. Farheen, **H. Fouad**, S. G. Ansari, Z. A. Ansari. “Europium doped TiO<sub>2</sub>: an efficient photoanode material for DSSC” **Journal of Materials Science Materials in Electronics** (2017). doi:10.1007/s10854-017-6387-7.
28. H. K. Seo, Farheen, S. A. 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<sub>2</sub> based dye sensitized solar cells. **Journal of Materials Science: Materials in Electronics** February 2017, Volume 28, Issue 4, pp 3210–3216
29. 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<sup>2+</sup>”. **Sensors and Materials Vol. 29, No.2 (2017) 205–215**.
30. Mohamed Hashem, Mohammed Fayed Al Rez, **H. Fouad**, Tarek Elsarnagawy, Mohamed A. Elsharawy, Ahmad Umar, Mansour Assery, and S. G. Ansar. “Influence of Titanium oxide nanoparticles on the physical and thermomechanical behavior of PMMA: a denture base resin” **Science of Advanced Materials, Vol. 9, pp. 938–944, 2017.**
31. Naushad Khan, Taimur Athar, **H. Fouad**, Ahmad Umar, Z. A. Ansari, S. G. Ansari. Application of pristine and doped SnO<sub>2</sub> nanoparticles as a matrix for agro-hazardous material (organophosphate) detection. **Scientific Reports 2017, 2017; 7: 42510.**
32. Mohammed Fayed Al Rez, Abdullah Bin Obaid, Abdulmajeed Alghosen, Eraj Humayun Mirza, Javed Alam, **H. Fouad**, Mohamed Hashem, Hassan Mohammed Almalak, Amer Mahmood, Fawzi F Al-Jassir. “Tubular PCL/Chitosan Nanofibrous Scaffold Prepared by Electrospinning for Vascular Tissue Engineering Applications” **Journal of Nanoscience and Tissue Engineering Vol. 7, 427–436, 2017**
33. Bhagyashri Bhangare, Geeta Sharma, **H. Fouad**, and Suresh Gosavi. “Synthesis and Characterization of Ce Doped ZnCdS Nanocrystallites as Broad Range Light Emitters” **Journal of Nanoelectronics and Optoelectronics 12, 430–436 (2017)**
34. Sarah Abuelreich, Muthurangan Manikandan, Abdullah Aldahmash, Musaad Alfayed, Mohammed Fayed 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, **Journal of Nanoscience and Nanotechnology** **16(3):1771-1778 (2017)**

35. Ahmed M. Albarrag, Othman Y. Alothman, Mohamed A. Elsharawy, Mohammed Fayed 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 of the denture material” **Science of Advanced Materials** **9, 775–781 (2017)**
36. Summaiyya Khan, Amit Kumar, A. A. Khan, T. Athar, **H. Fouad**, Z. A. Ansari, Hyung Kee Seo, and S. G. Ansari. “Electrochemical device for Glucose Detection using Praseodymium doped Nano Zinc Oxide synthesized by hydrothermal method” **Journal of Nanoelectronics and Optoelectronics** **12(3):236-241 (2017)**
37. 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” **Journal of Nanoscience and Nanotechnology, Vol. 17, 2296–2301 (2017)**

## (2016)

38. Zeenat Khatoon, Taimur Athar, **H. Fouad**, A. Umar, Z. A. Ansari, and S. G. Ansari. Highly Sensitive Hydrazine Chemical Sensor Based on Nickel Doped Antimony Oxide Nanoellipsoids Modified Screen-Printed Electrode. **Nanoscience and Nanotechnology Letters** **8 (7), 555-560 (2016)**
39. Mohammed Fayed Al Rez, Othman Y. Alothman, **H. Fouad**, Amer Mahmood, Randa AL Fotawi, S. G. Ansari, Mohamed Fouad, Mohamed Hashem, 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 Volume 8, Number 10, pp. 846-852 (2016)**
40. O.Y. Alothman, **H. Fouad**, U. A. Samad, A. Umar, S.G. Ansari. Nanoclay-Reinforced High Density Polyethylene: Morphological and Nano-Indentation Characterizations. **Science of Advanced Materials** **8(2):458-465·(2016)**
41. Ibrahim M. A. Mohamed, Moaaed Motlak, **H. Fouad**, and Nasser A. M. Barakat. Cobalt/Chromium Nanoparticles-Incorporated Carbon Nanofibers as Effective

Nonprecious Catalyst for Methanol Electrooxidation in Alkaline Medium. *NANO: Brief Reports and Reviews*, Vol. 11, No. 5 (2016) 1650049 (10 pages), DOI: 10.1142/S1793292016500491

(2015)

42. 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
43. S.G. Ansari, H. Fouad, Hyung-Shik Shin, Z.A. Ansari. Electrochemical Enzymeless Urea Sensor based on Nano-Tin Oxide Synthesized by Hydrothermal Technique. *Chemico-Biological Interactions* Volume 242, PP 45–49 (2015).
44. 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)
45. Amit Kumar, Md Zafary, 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)
46. [Patel MK](#), [Ali MA](#), [Krishnan S](#), [Agrawal VV](#), [Al Kheraif AA](#), [Fouad H](#), [Ansari ZA](#), [Ansari SG](#), [Malhotra BD](#). A Label-Free Photoluminescence Genosensor Using Nanostructured Magnesium Oxide for Cholera Detection. *Scientific Reports* 2015 Nov 27;5:17384. doi: 10.1038/srep17384.
47. Taimur Athar, Magdy Abdelaal, Zeenat Khatoon, Amit Kumar, Alabass Razzaq, Aleem Khan, H. Fouad, S. G. Ansari, Z. A. Ansari, **Green Synthesis of NiSnO<sub>3</sub> Nanopowder and its Application as Hydroquinone Electrochemical Sensor**, *Sensors and Materials*, V. 27 (7), 563-573, (2015).
48. 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*, Volume 15, Number 12, PP. 9548-9553(6) (2015).

- 49.** [M. E. Ali Mohsin, Agus Arsal, Syed K. H. Gulrez, Zurina Muhamad, H. Fouad, Othman Y. Alothman](#) “Enhanced dispersion of carbon nanotubes in high density polyethylene matrix using secondary nanofiller and compatibilizer.” *Fibers and Polymers* 2015, Volume 16, Issue 1, pp 129-137
- 50.** Z. A. Ansari, Ahmad Umar, H. Fouad, and S. G. Ansari “Dye Sensitized Solar Cells Fabricated Using Cu-Doped TiO<sub>2</sub> Nanopowder with Anthocyanin as Sensitizer” *Journal of Nanoelectronics and Optoelectronics* 10 (2), 290-294 (2015)
- 51.** 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<sub>2</sub>” *Journal of Materials Science: Materials in Electronics* 26 (7), 5170-5174 (2015)
- A. A. Khan, J. Islam, S. G. Ansari, H. Fouad, Z. A. Ansari, **Effect of neodymium on the photoconversion efficiency of TiO<sub>2</sub> based Dye Sensitized Solar Cells.** *Journal of Materials Science: Materials in Electronics*, 26(3), 1737-1742 (2015)
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