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Present Research Summary:

Synthesis of Carbon-based materials and their composites for Energy and Environmental Remediation applications.

Area of Research

- Carbon nanotubes & Graphene Based materials
- CVD Techniques for the growth of Carbon Nanotubes
- Synthesis of carbon-based materials and magnetic nanocomposites
- Nanomaterials as sorbents for heavy metal ions removal towards environmental remediation
- Mesoporous, Nanoporous and Magnetic materials
- Hybrid Materials for Photocatalysis, Supercapacitors, Batteries and Electrochemical applications

Research Skills:

- Hands on experience in SPIP, SPM, Electrospinning, Spin coating, AFM, TCVD, PVD, STM.
- Experience working on MOSES 1.2 (Monte-Carlo Single Electron Simulator), Mie-Plot.
- Hands on experience in software's like OrCAD (PSpice) 9.1, MATLAB 7.0 (Quantum Mechanics Tool Box), T-CAD, ATK, COMSOL, DSCH, Xilinx Vivado.

Subjects handled:

- Switching theory and logic design, Nano Electronics, Digital Integrated Circuits and Its Applications, VLSI Sub System Design, MEMS Technology, Electronic Design Workshop, Digital logic design, Synthesis and characterization of nanomaterials, Carbon nanotubes and other carbon-based materials for various applications.

Achievements:

- GATE 2008 qualified with a percentile of 88% in Electronics & Communication Engineering discipline organized by IIT KANPUR.
- Qualified for getting the Scholarship from Department of Science and Technology (DST) for the academic year 2008-2010.
- Awarded BEST POSTER AWARD in International Conference on Thin films and Its Applications held at SASTRA UNIVERSITY-2012.
- Awarded BEST PAPER AWARD in Indo-French workshop on sustainable water purification technologies held at CECRI, Karaikudi, 2015.

- Awarded Research Awards in VIT University by two times consecutively by the Honorable Chancellor for the effort in Research.
- Awarded as Top 2% Research Scientist from the Stanford University and Elsevier combination in 2021.

Education & Dissertations:

August 2020 – Till date:

Working as Associate Professor in Department of ECE, KLEF, Vijayawada.

May – 2018 to July - 2020:

Worked as Assistant Professor in Department of ECE, KLEF, Vijayawada.

May – 2016 to July - 2017:

Post-doc researcher in the Department of Environmental and Biological sciences, University of Eastern Finland, Kuopio campus, Finland.

2011- 2016:

PhD in Center for Nanotechnology Research (CNR), VIT University, Vellore, Tamil Nadu

Thesis Title: “Development of Carbon-Based Nanomaterials and Magnetic Nanocomposites for the Removal of Water Pollutants Towards Environmental Remediation”.

2008-10: Master of Technology in Nanotechnology, VIT University

Grade-8.24/10

Project Title: “Development of 3-D Photonic Crystals of silica and titania particles” (July 2009 to May 2010)

School of Electronics and Engineering (SENSE), VIT University, Vellore, Tamil Nadu, India.

Monodispersed silica spheres with diameters ranging down to 450 nm were prepared by hydrolysis of tetraethylorthosilicate (TEOS) in the presence of ammonia in ethanol medium. Silica colloidal sphere sizes were controlled by changing ammonium concentration at fixed TEOS concentrations. The silica spheres settle out from their alcoholic dispersion to form closely packed three-dimensional (3-D) particle arrays. Self-assembly of such silica spheres produced highly organized colloidal crystals, leading to the photonic crystals of which the reflectance wavelengths can cover the whole range of visible lights and parts of the ultraviolet and infrared lights. The scanning electron microscopy (SEM) images illustrate the uniformity in size/shape of the particles.

2004-08: Bachelors of Technology in Electronics and Communication Engineering,
Affiliated to JNT University

Grade: First class with distinction (70.68%)

Project Title: “Petro-chemical level indicator and Temperature monitoring Using 89C51MC”

(February 2008 to May 2008)

The main objective of the project is to monitor the level and temperature of the petrol in the tanks employed at Textile industries. We have magnetic sensors to indicate the petrol level inside the tank. For this, we use 89C51 microcontroller to automate the process. The controller acquires data from the sensors and analyzes to take corresponding decisions depending on the program. The program is dumped into controller using keil software. Technology Used: 89C51 Microcontroller, Keil software.

List of Book chapter:

1. **C.Santhosh**, V.Velmuurgan and A.Nirmala Grace, Nanomaterials for Environmental Remediation – A Review on Nano-Adsorbents for the Removal of Heavy Metal Ions, Organic Hazards and Toxic Gases, Industrial Processes & Nanotechnology of the Series "Environmental Science and Engineering (12 Vols.), Studium Press, Vol. 10, 2015.
2. **Chella Santhosh**, Arumugam Malathi, Ehsan Dhaneshvar, Amit Bhatnagar, Andrews Nirmala Grace, Jagannathan Madhavan, Iron oxide nanomaterials for water purification, Nanoscale Materials in Water Purification, Elsevier, pp. 431-446, 2019.

List of Publications:

2022

1. Joshitha, C., **Chella Santhosh**, Sreeja, B.S., Rooban, S., Rao, G.S.N.K. Bistable Microdevice with Electrothermal Compliant Mechanism, Transactions on Electrical and Electronic Materials, 2022, 23(3), pp. 262–271.
2. Krishna, B.M., **Santhosh, C.**, Suman, S., Shireen, S.S. Evolvable Hardware-Based Data Security System Using Image Steganography Through Dynamic Partial Reconfiguration, Journal of Circuits, Systems and Computers, 2022, 31(1), 2250014.
3. Lakshmi Prasanna, J., Aswin Kumar, S.V., Ravi Kumar, M., Srilaxmi, P., **Santhosh, C.** Low-cost ECG and Heart Monitoring System Using Ubidot Platform, Lecture Notes in Networks and Systems, 2022, 435, pp. 217–225. (Conference Paper).
4. Muzammil Parvez, M., Lakshmana Kumar M.; Ernest Ravindran R.S.; Anirudh, Ramaraju; Bharadwaj, Lokam Nithin; **Santhosh, Chella**; Teja, Thondam Sri Ravi; Vardhan Reddy R.G.N., Defect Detection Using Fan Chirp Transform using Quadratic Frequency Modulated Thermal Wave Imaging, 2022 2nd International Conference on Artificial Intelligence and Signal Processing, AISP 2022, 2022. (Conference Paper).
5. Prasanna, J.L., Ravi Kumar, M., **Santhosh, C.**, Aswin Kumar, S.V., Kasulu, P., IoT based Soldier Health and Position Tracking System, Proceedings - 6th International Conference on Computing Methodologies and Communication, ICCMC 2022, 2022, pp. 417–420. (Conference Paper).
6. Prasanna, J.L., Prathyusha, A., Kumar, M.R., **Santhosh, C.**, Design and Implementation of Arduino Insect Robot for Real Time Applications, 2022 International Conference on Computer Communication and Informatics, ICCCI 2022, 2022. (Conference Paper).
7. Kumar, M.R., Pooja, K., Udathu, M., Prasanna, J.L., **Santhosh, C.** Detection of Depression Using Machine Learning Algorithms, International journal of online and biomedical engineering, 2022, 18(4), pp. 155–163.
8. Bitra, S.K., Sridhar, M., **Santhosh, C.**, Farmani, A. Terahertz analysis of a highly sensitive

MIM-SRR-TiO₂ nanostructure for bio-sensor applications with the FDTD method, Journal of the Optical Society of America B: Optical Physics, 2022, 39(1), pp. 223–229.

2021

1. **Chella Santhosh**, R. S. Ernest Ravindran, Surface modified chitosan with cadmium sulfide quantum dots as luminescent probe for detection of silver ions, Asian Journal of Chemistry, 2021, 33(5), pp. 1025–1030.
2. B. Murali Krishna, **Chella Santhosh**, G. Sai Vara Prasad, G. Rakesh, Shaik Nazma, M. Ravi Kumar, K T P S. Kumar, DNA based Data Encryption using AES Algorithm, 3rd International Conference on Advances in Computing, Communication Control and Networking, ICAC3N 2021, Pages 1271 – 1276. (Conference Paper)
3. J. L. Prasanna, M. Ravi Kumar, C. Priyanka, **Chella Santhosh**, Evaluation of Device Fabrication from FET to CFET: A Review, Journal of Nano- and Electronic Physics, 2021, 13(6), pp. 1–8.
4. **Chella Santhosh**, M. Ravi Kumar, J Lakshmi Prasanna, I. Ram Kumar, U. Vinay Kumar, S. Navya Sri, Face Mask Detection Using LabView, International journal of online and biomedical engineering, Volume 17, Issue 6, Pages 49 – 57, 2021.

2020

1. **Chella Santhosh** et al., Synthesis and characterization of magnetic biochar adsorbents for the removal of Cr(VI) and Acid orange 7 dye from aqueous solution. Environ Sci Pollut Res (2020). <https://doi.org/10.1007/s11356-020-09275-1>.
2. J. Lakshmi Prasanna, R.S. Ernest Ravindran, M. Ravi Kumar, K. Sree Pooja, U V S Sumanth, Shaik Ahamed and **Chella Santhosh**, Design of BCD Adder using Quantum Cellular Automata, International Journal of Advanced Trends in Computer Science and Engineering, Volume 9, No.1, January – February 2020.
3. D Venkata Ratnam, Rakesh Chowdary Gutta, M. Ravi Kumar, L. Eswara Rao, M. V. Siva Surya Reddy, P. Sai Pavan, **Chella Santhosh**, Effect of High-K Dielectric materials on Mobility of Electrons, International Journal of Emerging Trends in Engineering Research, Volume 8. No. 2, February 2020.

2019

4. **Chella Santhosh** et al., Design and verification of half adder using look up table (LUT) in quantum dot cellular automata (QCA), International Journal of Advanced Science and Technology, Vol. 28, No. 16, (2019), pp. 1804–1809.
5. **Chella Santhosh** et al., Modelling and recreation of Semi Conducting Metal Oxide (SMO) Gas Sensor, International Journal of Advanced Science and Technology, Vol. 28, No. 18, (2019), pp. 650 -659.
6. **Chella Santhosh** et al., Detection of Heavy Metal Ions using Star-Shaped Microfluidic Channel, International Journal of Emerging Trends in Engineering Research, Volume 7, No. 12 December 2019.

2018

7. Ehsan Daneshvar, **Chella Santhosh**, Eero Antikainen, Amit Bhatnagar, Microalgal growth and nitrate removal efficiency in different cultivation conditions: Effect of macro and micronutrients and salinity, *Journal of Environmental Chemical Engineering*, 6 (2018) 1848-1854.
8. **Chella Santhosh**, A Malathi, Ehsan Daneshvar, Pratap Kollu, Amit Bhatnagar, Photocatalytic degradation of toxic aquatic pollutants by novel magnetic 3D-TiO₂@ HPGA nanocomposite, *Scientific reports*, 8 (2018) 15531-15346. [IF- 4.25, H index – 122].
9. Zahra Shirani, **Chella Santhosh**, Jibran Iqbal, Amit Bhatnagar, Waste Moringa oleifera seed pods as green sorbent for efficient removal of toxic aquatic pollutants, *Journal of environmental management*, 227 (2018) 95-106. [IF- 4.005, H index – 131].

2017

1. **Chella Santhosh**, Ravi Nivetha, Pratap Kollu, Varsha Srivastava, Mika Sillanpää, Andrews Nirmala Grace, Amit Bhatnagar, Removal of cationic and anionic heavy metals from water by 1D and 2D-carbon structures decorated with magnetic nanoparticles, *Sci.Rep.* 7 (2017) 14107. [IF- 4.25, H index – 122].
2. **Chella Santhosh**, Ehsan Daneshvar, Pratap Kollu, Sirpa Peräniemi, Andrews Nirmala Grace, Amit Bhatnagar, Magnetic SiO₂@CoFe₂O₄ nanoparticles decorated on graphene oxide as efficient adsorbents for the removal of anionic pollutants from water, *Chemical Engineering Journal*, Vol. 322 (2017) 472-487. [IF – 6.21, H index - 117]. Citations - 3
3. Divyalakshmi Saravana achari, **Chella Santhosh**, Revathy Deivasegamani, Ravi Nivetha, Amit Bhatnagar, Soon Kwan Jeong, Andrews Nirmala Grace, A non-enzymatic sensor for hydrogen peroxide based on the use of α -Fe₂O₃ nanoparticles deposited on the surface of NiO nanosheets, *Microchim Acta*, Vol. 184 (2017) 3223-3229. [IF – 4.83, H index – 58]. Citations - 1
4. Natarajan Pradeep, Chaitra Venkatachalaiah, Uma Venkatraman, **Chella Santhosh**, Amit Bhatnagar, Soon Kwan Jeong, Andrews Nirmala Grace, Magnesium oxide nanocubes deposited on an overhead projector sheet: synthesis and resistivity-based hydrogen sensing capability, *Microchim Acta*, (2017) 1-7. [IF – 4.83, H index – 58].
5. Ravi Nivetha, **Chella Santhosh**, Pratap Kollu, Soon Kwan Jeong, Amit Bhatnagar, Andrews Nirmala Grace, Cobalt and Nickel ferrites based graphene nanocomposites for Electrochemical hydrogen evolution, *J. Mag. Mat.* (InPress). [IF – 2.63, H index – 128]. Citations - 3
6. Nithya S, **Chella Santhosh**, Shruthi V S, Ananya Deb, Vimala R, V Velmurugan, Amit Bhatnagar, Savithri Bhat, Andrews Nirmala Grace, Electrospun polyurethane and Soy protein nanofibers for wound dressing applications, *IET Nanobiotechnology*, (InPress). [IF- 1.46, H index – 27].
7. Sathiyathan Felix, **Chella Santhosh**, Andrews Nirmala Grace, CuO-MWCNTS for Enzyme-Less Electrochemical Detection of Glucose and Dopamine, *ECS Transactions*, 77 (2017) 1847-1857.
8. Revathy Deivasegamani, Govardhan Karunanidhi, **Chella Santhosh**, Tamilselvi Gopal, Ajita Neogi, Ravi Nivetha, Natarajan Pradeep, Uma Venkatraman, Amit Bhatnagar, Soon Kwan Jeong, Andrews Nirmala Grace, Chemoresistive sensor for hydrogen using thin films of tin dioxide doped with cerium and palladium, *Microchim Acta*, (2017) 1-9.

2016

1. **Chella Santhosh**, Venugopal Velmurugan, George Jacob, Soon Kwan Jeong, Andrews Nirmala Grace, Amit Bhatnagar, Role of nanomaterials in water treatment applications: A review, Chem. Eng. J. Vol. 306 (2016) pp 1116-1137. [IF – 6.21, H index - 117] Citations - 95
2. A Nithya Deva Krupa, M Evy Alice Abigail, **C Santhosh**, A Nirmala Grace, R. Vimal, Optimization of process parameters for the microbial synthesis of silver nanoparticles using 3-level Box–Behnken Design, Ecological Engineering, Vol. 87 (2016) pp. 168-174. [IF – 2.740, H index – 86]. Citations - 8

2015

1. **Chella Santhosh**, Pratap Kollu, Sathiyathan Felix, Venugopal Velmurugan, Soon wan Jeong and Andrews Nirmala Grace, CoFe₂O₄ and NiFe₂O₄@graphene adsorbents for heavy metal ions – kinetic and thermodynamic analysis, RSC Adv., 2015,5, 28965-28972. [IF – 3.84, H index- 45]. Citations - 13
2. Pratap Kollu, Ramesh Kumar P, **Santhosh Chella**, Do Kyung Kim and Andrews Nirmala Grace, High capacity MnFe₂O₄/rGO nanocomposite for Li and Na-ion battery applications, RSC Adv., 2015,5, 63304-63310. [IF – 3.84, H index- 45]. Citations - 13
3. **C. Santhosh**, M. Saranya, R. Ramachandran, N. Pradeep, V. Uma, Pratap Kollu and A. Nirmala Grace, Synthesis of magnetic nanoparticles and their effect on growth of carbon nanotubes, J. Indian Chem. Soc., Vol. 92, May 2015, pp. 800-803. [IF – 0.17, H index- 28]. Citations - 2

2014

1. **Chella Santhosh**, Pratap Kollu, Eswara Komarala, Sejal Doshi, Murugan Saranya, Sathiyathan Felix, Rajendran Ramachandran, Padmanapan Saravanan, Koneru Vijaya Lakshmi, Velmurugan Venugopal, Soon Kwan Jeong and Andrews Nirmala Grace, Solvothermal synthesis of microporous MnFe₂O₄/Graphene composite - Investigation of role of active sites in effective adsorption of Pb & Cd ions and its antimicrobial properties, Applied Surface Science, Volume 327, 1 February 2015, Pages 27-36.s. [IF – 2.71, H-Index - 115]. Citations - 34
2. **Chella Santhosh**, Pratap Kollu, Sejal Doshi, Madhulika Sharma, Dharendra Bahadur, Mudaliar Vanchinathan.T, P.Saravanan, Byeong-Su Kim and Andrews Nirmala Grace, Adsorption, photodegradation and antibacterial study of Graphene-Fe₃O₄ nanocomposite for multipurpose water purification application, RSC Advances, 2014, 4, 28300. [IF – 3.84, H index- 45]. Citations - 52
3. **Chella Santhosh**, Murugan Saranya, Rajendran Ramachandran, Sathiyathan Felix, Venugopal Velmurugan and Andrews Nirmala Grace. Graphene/gold nanocomposites based thin films as an enhanced sensing platform for voltammetric detection of Cr (VI) ions, Journal of Nanotechnology, Vol. 2014, Article ID 304526. Citations - 10
4. P. Ramesh Kumar, Pratap Kollu, **Chella Santhosh**, Eswara Varaprasada Rao. K, Do Kyung Kim and Andrews Nirmala Grace, Enhanced properties of porous CoFe₂O₄-reduced graphene oxide composite with alginate binder for Li ion battery applications, New Journal of Chemistry, 2014,38, 3654-3661. [IF – 3.08, H index- 90]. Citations - 37

5. Pratap Kollu, Sateesh Prathapani, Eswara K. Varaprasadarao, **Chella Santosh**, Sudhanshu Mallick, Andrews Nirmala Grace, and D. Bahadur, Anomalous magnetic behavior in nanocomposite materials of reduced graphene oxide- Ni/NiFe₂O₄. Applied Physics Letters, 105, 052412 (2014). [IF – 3.30, H index- 329]. Citations - 3
6. Priya, K., Rajasekar, N., **Santhosh**, C., & Nirmala Grace, A. (2014). Preparation and characterization of graphene supported palladium nanoparticles for direct methanol fuel cells. Paper presented at the 2014 International Conference on Advances in Electrical Engineering, ICAEE 2014.
7. Rajendran Ramachandran, Murugan Saranya, **Chella Santhosh**, Venugopal Velmurugan, Bala P.C.Raghupathy, Soon Kwan Jeong and Andrews Nirmala Grace, Co₉S₈ nanoflakes on Graphene (Co₉S₈/G) nanocomposites for high performance Supercapacitors, RSC Advances, 2014, 4, 21151-21162. [IF – 3.84, H index- 45]. Citations - 47
8. Murugan Saranya, **Chella Santhosh**, Rajendran Ramachandran, Pratap Kollu, Padmanapan Saravanan, Mari Vinoba, Soon Kwan Jeong and Andrews Nirmala Grace, Hydrothermal Growth of CuS nanostructures and its photocatalytic properties, Powder Technology, 2014, Volume 252, 25-32. [IF – 2.34, H index- 85]. Citations - 55
9. Murugan Saranya, **Chella Santhosh**, Rajendran Ramachandran, and Andrews Nirmala Grace, Growth of CuS nanostructures by hydrothermal route and its optical properties, Journal of Nanotechnology, Vol. 2014, Article ID 321571. Citations - 12

2013

1. **C.Santhosh**, Ann Miriam James, Malathy.T, M.Saranya, R.Ramachandran, S.Felix, Mudaliar Vanchinathan. T, V. Velmurugan and A.Nirmala Grace, Solvothermal preparation of Graphene supported Mn ferrites and its photocatalytic activity, Nanoscience and Nanotechnology-Asia, June 2013, Vol. 3(1), 120-126. Citations - 2
2. **C.Santhosh** and A. Nirmala Grace, Growth of carbon nanotubes using MgO supported Mo-Co catalysts by Thermal chemical vapour deposition technique, Journal of Nanoresearch, 2013, 24, 46-57. Citations - 2
3. R.Ramachandran, S.Felix, M.Saranya, **C.Santhosh**, Bala P C Ragupathy and A.Nirmala Grace, Preparation of Cobalt sulfide-Graphene (CoS/G) nanocomposites for supercapacitor applications, IEEE Transactions on Nanotechnology, June 2013, 12 (6), 985-990. [IF – 1.83, H index- 56]. Citations - 21
4. M.Saranya, Srishti Garg, Iksha Singh, **C.Santhosh**, C.Harish, Mudaliar Vanchinathan.T and A.Nirmala Grace, Solvothermal Preparation Of ZnO/Graphene Nanocomposites and its photocatalytic properties, Nanoscience and Nanotechnology Letters, 2013, 5, 349-354. [IF – 1.43, H index- 13]. Citations - 13
5. A. Muneendra Prasad, **C.Santhosh**, K.Priya and A.Nirmala Grace, Microwave synthesized multi-walled carbon nanotubes supported Pt-Sn nanoparticles for methanol fuel cell application, Advanced Science, Engineering and Medicine, 2013, Volume 5, Number 5, pp. 395-403(9). Citations - 5
6. C. Harish, **C.Santhosh** and A.Nirmala Grace, Polyaniline/graphene composites and their optical, electrical and electrochemical properties, Advanced Science, Engineering and Medicine, 2013, Vol. 4, pp. 1-9 Citations - 17

2012

1. M. Saranya, **C. Santhosh**, S. Prathap Augustine and A. Nirmala Grace, Synthesis and

- characterization of CuS nanomaterials using hydrothermal route, Journal of Experimental Nanoscience, 1, 1-8, 2012. [IF – 0.87, H index- 14]. Citations - 5
2. A. Muneendra Prasad, **C. Santhosh** and A. Nirmala Grace, Carbon nanotubes and polyaniline supported Pt nanoparticles for methanol oxidation towards DMFC applications, Applied Nanoscience, Vol 2, Issue 4, 457-466, 2012. Citations - 15

Papers Presented In Conferences:

1. **Chella Santhosh**, Ehsan Daneshvar, Pratap Kollu, Andrews Nirmala Grace and Amit Bhatnagar, Synthesis and characterization of novel magnetic nanocomposites for the adsorption of heavy metals and dyes from aqueous solution, “Finnish Conference of Environmental Sciences (FCES’17) 16-17th May 2017 held at Joensuu campus, University of Eastern Finland.
2. **Chella Santhosh**, Pratap Kollu, Andrews Nirmala Grace, Amit Bhatnagar, Role of carbon based magnetic nanocomposites for environmental remediation, “1st International conference on Nanoscience and Nanotechnology (ICNAN-2016) 19-21st Oct 2016” at VIT University, Vellore, Tamil Nadu, India.
3. **Chella Santhosh**, Pratap Kollu, Andrews Nirmala Grace, Amit Bhatnagar, Spinel ferrites nanocomposites for environmental remediation, “2nd annual IIES scientific workshop” at University of Eastern Finland, Kuopio, 21-24th Aug 2016.
4. **Chella Santhosh**, Venugopal Velmurugan and Andrews Nirmala Grace, Synthesis of graphene based nanocomposites for removal of heavy metal ions from aqueous solution, “Indo-French workshop on sustainable water purification technologies” held at CECRI, Karaikudi, 11-13th Feb 2015. (**BEST PAPER AWARD**).
5. Murugan Saranya, **Chella Santhosh**, Rajendran Ramachandran, Pratap Kollu and Andrews Nirmala Grace, Synthesis and characterization of CoFe₂O₄-G magnetic nanocomposites and their photocatalytic properties, “International Conference on Nanoscience & Nanotechnology (ICNN-2013) 18-20th Nov 2013” at Babasaheb Bhimrao Ambedkar University, Lucknow, U.P., India.
6. **Chella Santhosh**, Chithra Parameswaran, Suchi Sharma, Paramita Sarkar, Andrews Nirmala Grace and Venugopal Velmurugan, Optical properties of Graphene and Graphene oxide composites. “International Conference on Advanced Polymeric Materials (ICAPM 2013)” 11-13th October, 2013, Mahatma Gandhi University, Kottayam, Kerala, India.
7. **Chella Santhosh**, Murugan Saranya, Rajendran Ramachandran, Pratap Kollu, Venugopal Velmurugan and Andrews Nirmala Grace, Solvothermal synthesis of magnetic NiFe₂O₄/G nanocomposites for degradation of Phenol. “International Conference on Nanoscience & Nanotechnology (ICNN-2013)” 18-20th November, 2013, Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, U.P. India.
8. **C.Santhosh**, M.Saranya, R.Ramachandran, N.pradeep, V.Uma and A.Nirmala Grace, Synthesis of magnetic nanoparticles and their effect on the growth of carbon nanotubes. “International Conference on Emerging Trends in Chemical Sciences (IETC2013)” 5-7th December, 2013, VIT University, Vellore, India
9. Rajendran Ramachandran, Murugan Saranya, **Chella Santhosh**, Bala P C Ragupathy, Venugopal Velmurugan and Andrews Nirmala Grace, Boron doped Graphene- Ruthenium Oxide (BG-RuO₂) composite for supercapacitor applications “International Conference on Nanoscience & Nanotechnology (ICNN-2013)” 18-20th November, 2013, Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, U.P. India.
10. H₂O₂ biosensor- Effect of Polyaniline in Graphene/ZnO composite, R.Ramachandran, S.Felix, M.Saranya, **C.Santhosh**, Bala P C Ragupathy and A. Nirmala Grace, “Third National

Conference on Multifunctional Nanomaterials and Nanocomposites-NCMNN-2013” Feb 25-26, Bharathiar University, Coimbatore

11. An Amperometric H_2O_2 biosensor based on ZnO decorated Graphene/Polyaniline Nanocomposite, R.Ramachandran, S.Felix, M.Saranya, **C.Santhosh**, Bala P C Ragupathy and A. Nirmala Grace, “National Conference on Nanomaterials-NCN 2012” Dec 03-04, Karunya University, Coimbatore.
12. Glucose sensor based on cuprous oxide nanoparticles, S.Felix, R.Ramachandran, M.Saranya, **C.Santhosh**, Bala P C Ragupathy and A. Nirmala Grace, “National Conference on Nanomaterials-NCN 2012” Dec 03-04, Karunya University, Coimbatore.
13. Growth of carbon nanotubes using MgO supported Mo-Co catalysts by Thermal chemical vapour deposition technique, **C.Santhosh** and A.Nirmala Grace, 2nd International conference on Nanotechnology, Innovative Materials, Processes, Products and Applications, Bharathi Vidyapeeth university, Pune, 18-19th Oct 2012.
14. Development of electrochemical glucose sensors using ZnO-CuO nanocomposites, S.Felix, **C.Santhosh** and A.Nirmala Grace, 2nd International conference on Nanotechnology, Innovative Materials, Processes, Products and Applications, Bharathi Vidyapeeth university, Pune, 18-19th Oct 2012.
15. Synthesis of Cobalt sulfide-Graphene (CoS/G) nanocomposites for supercapacitor applications, R.Ramachandran, M.Saranya, **C.Santhosh** and A.Nirmala Grace, 2nd International conference on Nanotechnology, Innovative Materials, Processes, Products and Applications, Bharathi Vidyapeeth university, Pune, 18-19th Oct 2012.
16. Synthesis and optical properties of CuS nanomaterials with tubular like architecture using hydrothermal techniques, M.Saranya, **C.Santhosh** and A.Nirmala Grace, NCNN 25-27 AUG 2011, Madras University, Chennai.
17. Synthesis of catalytic Fe nanoparticles dispersed in Silica and alumina matrix by sol-gel technique, **C.Santhosh**, M.Saranya and A.Nirmala Grace NCNN 25-27 AUG 2011, Madras University, Chennai.
18. Growth of CuS nanostructures by Hydrothermal route, M. Saranya, **C. Santhosh** and A. Nirmala Grace, International Conference on Thin Films & Applications, held at Sastra University, Thanjavur, March 15-17, 2012.
19. Au@Graphene nanocomposites based thin films as an enhanced sensing platform for voltammetric detection of Cr(VI) ions, **C. Santhosh**, M. Saranya and A. Nirmala Grace, International Conference on Thin Films & Applications, held at Sastra University, Thanjavur, March 15-17, 2012. (**Best Poster Award**)
20. Pt Nanoparticles/Carbon Nanotubes in Chitosan Matrix And Its Effect In The Oxidation Of Methanol For Fuel Cell Applications, S.Ram Sankar, A.Muneendra Prasad, **C.Santhosh**, M.Suresh Babu and A.Nirmala Grace, International Conference on Applications of renewable and sustainable Energy for Industry and Society, 16 Dec 2010, at Osmania University, Hyderabad.
21. Pt-Sn Nanoparticles Modified Carbon Nanotubes And Its Effect In The Oxidation Of Methanol For Fuel Cell Applications, A.Muneendra prasad, **C.Santhosh**, M.Suresh babu and A.Nirmala Grace, International Conference on Applications of renewable and sustainable Energy for Industry and Society, 16 Dec 2010, at Osmania University, Hyderabad.
22. Development of 3-d photonic nanocrystals of si by wet chemical technique - effect of concentration of ammonia, **C.Santhosh**, A.Muneendra Prasad, Rajendra Mohan, M.Thillai Natarajan and A.Nirmala Grace, International Conference On Nano Science and Technology - ICONSAT 2010, IIT BOMBAY, Mumbai (Feb 17th to 20th 2010).
23. Synthesis Of 3-Dimensional Photonic Crystals Of Silica – A Breif Investigation, **C.Santhosh**, A.Muneendra Prasad, Rajendra Mohan, M.Thillai Natarajan and A.Nirmala Grace, International

Conference On Nanoscience and Nanotechnology – ICONN 2010, SRM University, Chennai (Feb 24th to 26th 2010).

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Declaration:

I hereby declare that all statements made here are true to the best of my knowledge and belief.

Place:

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