

**LRG GOVERNMENT ARTS COLLEGE FOR WOMEN  
TIRUPUR – 641 604  
DEPARTEMENT OF PHYSICS**

**NATIONAL CONFERENCE ON NANOMATERIALS – 2024  
11 – 12, JULY 2024**

**ORAL PRESENTATION SCHEDULE**

**DAY 1 : 11/07/2024 AFTERNOON : **NCN/OP – 01 TO NCN/OP – 21****

<b>S.No</b>	<b>Presentation No.</b>	<b>Title of the Research Article</b>
1	NCN/OP-01	<b>Investigation of Gold Functionalized CNT for Phenol Sensing Using Density Functionality Theory</b> Potineni Sri Nagini, Aniruddh Bahadur Yadav
2	NCN/OP-02	<b>Di-sodium hydrogen di-hydrate introduced as P doping with MnO<sub>2</sub> nanorods steadily increasing photocatalytic activity under sun light irradiation</b> S. Manikandan
3	NCN/OP-03	<b>Investigations on Hemispherical Shaped Solar Greenhouse Device With Nanostructured Heat Transfer Medium</b> R. Ranjith , V. Sarojini, P.J. Jegan Babu, and R.V Jeba Rajasekhar
4	NCN/OP-04	<b>Synthesis of MoO<sub>3</sub>-Fe<sub>2</sub>O<sub>3</sub> as a Potential Electrode for High Performance Supercapacitor Applications</b> Sandhiya Sundaresan , Gobi Raju
5	NCN/OP-5	<b>Exploration of Electrical Conductivity and Dielectric Permittivity of Poly (O – Toluidine) (POT) integrated with nano Vanadium pentoxide.</b> Praveen. H
6	NCN/OP-06	<b>Investigation of the Structural, Optical, and Photocatalytic Properties of silver sulphide prepared though chemical route</b>

		Sushma C K, Anju Sebastian, Deepthi V, Alwin Mathew <sup>2</sup> , Vidhya B
7	NCN/OP-07	<b>Metal encapsulated Sc@B<sub>40</sub> fullerene as a gemcitabine anticancer drug delivery system: A DFT approach</b> Abisha Nancy Sukumar, Prince Makarios Paul. S, A. Abiram
8	NCN/OP-08	<b>Studies on the structural, optical and photocatalytic properties of CuO nanoparticles prepared by ball milling method</b> Beril Ramolin.C.B , Sushma C.K, Vidhya B
9	NCN/OP-09	<b>DFT investigations of metal (M= Na and K) encapsulated B<sub>12</sub>N<sub>12</sub> nanocage- An effective quercetin drug delivery system</b> Catherin Nancy D Nobli, Abisha Nancy Sukumar, Prince Makarios Paul. S, A. Abiram
10	NCN/OP-10	<b>The effect of Cu (aspartate) MOFs dispersion on multi-functional hydrophilic polybenzoxazine cross-linked polyaniline for dielectric and EMI shielding applications.</b> N. Prathap and K. Dinakaran
11	NCN/OP-11	<b>Exploring the Structural and Optical Properties of MoSe<sub>2</sub> for Solar Cell Performance</b> BA. Anandh , A. Shankar Ganesh, P. Nandakumar, D.Saranya
12	NCN/OP-12	<b>Synthesis and Pharmaceutical Applications of Copper Oxide Nanoparticles: Seed Extract of <i>Calotropis Procera</i> and their Antibacterial Activity</b> L. Sugi, S. Dheivamalar, M.Marimuthu
13	NCN/OP-13	<b>Analysis of ultrasonic velocity, acoustical, and dielectric measurements of BaO:Hi-Tech Therm60 nanofluids.</b> P. Prakash, J. Catherine Grace John, and A. Kingson Solomon Jeevaraj
14	NCN/OP-14	<b>Polyaniline/Zns Nanocomposites: Synthesis and Characterization</b> S.Eniya, L.Priya ,

15	NCN/OP-15	<p><b>Ultrasonic-Assisted Synthesis of Chromium Oxide-Decorated Zinc Oxide Nanosheets for High-Performance Supercapacitors</b></p> <p>S.Diana Rebbakkal Hebziba, A. Kingson Solomon Jeevaraj</p>
16	NCN/OP-16	<p><b>Synthesis and Electrochemical Characterization of Niobium Oxide Nanoparticles for Battery Cathode Enhancement</b></p> <p>A.Dhina Infant Maria, K.Thangavel, R.Prema, G.Mariya Gnana Merlin, V.Balaprakash</p>
17	NCN/OP-17	<p><b>Synthesis and Characterization of Mn-Doped ZnO Nanoparticles: A Review of Methods and Techniques</b></p> <p>Govind Puthumana, R.Prema, K.Thangavel,</p>
18	NCN/OP-18	<p><b>Growth and Characterization of Thiourea doped Diammonium Hydrogen Phosphate Single Crystal</b></p> <p>A. Jasmine Linda, T. Girija and A. Kingson Solomon Jeevaraj</p>
19	NCN/OP-19	<p><b>Influence of Manganese (Mn) Doping on Structural, Morphological and Optical Properties of Zinc Oxide (Zno) Thin Films Derived by Sol-Gel Route</b></p> <p>V Balaprakash, S Rathish, T Monisha and K Thangavel</p>
20	NCN/OP-20	<p><b>Mining of Flavonoids from <i>Parkinsonia aculeata (L.)</i> for antioxidant and antibacterial activity</b></p> <p>S.Rubila and S.Sekar</p>
21	NCN/OP-21	<p><b>Comparision of Crude Extracts of Silver Nanoparticles and Nanoemulsion of an Anti-Microbial Agent from Flower (<i>Tabernaemontana divaricata</i>)</b></p> <p>Niveda Ponmani M, Litty Koria</p>

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**ORAL PRESENTATION SCHEDULE**

**DAY 2 : 12/07/2024 AFTERNOON : NCN/OP – 22 TO NCN/OP - 43**

1	NCN/OP-22	<b>Zinc Oxide Nanoparticles Synthesised by <i>Achyranthus Aspera</i> : Antibacterial Activity and Inflammatory Studies</b> Shifa Fathima . S
2	NCN/OP-23	<b>Generating Sub Wavelength Longitudinal Magnetization Chain With High NA Lens System</b> M.Udhayakumar, P. Raju, S.Ashwaanath, K.B.Rajesh
3	NCN/OP-24	<b>Data Reduction for Big Data Application in IoT</b> Isaac Britto S, V. Bala Prakash
4	NCN/OP-25	<b>Analyzing the Energy Consumption Factor in a Smarthome Environment Using Advanced Sensor Models</b> R. Charles Silvester Joe, K.Thangavel, Issac Britto
5	NCN/OP-26	<b>Investigating An Efficient Bio reducer in Green Synthesis: Magnesium Oxide Nanoparticle production using Virgin Coconut Oil</b> B. Durga Lakshmi, B.V. Vamsi Krishna, Esub Basha SK, Ramachandra Rao K
6	NCN/OP-27	<b>Synthesis, Structural Elucidation and Biological activity of Sebacic Acid Single Crystal</b> S. Deepavarthini · S.Sathya , R. Rajitha and S. Gomathi
7	NCN/OP-28	<b>Green Synthesis, Characterization, and Catalytic Applications of CuO Nanoparticles using Prosopis Cineraria Seed Extract</b> P. Kalaivani , G. Mathubala
8	NCN/OP-29	<b>Silver and Silver Ruthenium Nanoparticles Characterization</b>

		<p><b>Using a Soft Chemical Approach: A Sustainable Production Method Using Organic Waste</b></p> <p>P. Krishnaveni, M. Karunakaran, S. Usha, K. Kasirajan, S. Prabakaran and N. Ganeshwari</p>
9	NCN/OP-30	<p><b>Nanomaterials as the sensitive functional fillers in self-sensing concrete to access its structural behaviour</b></p> <p>C. Freeda Christy, P. Aruna Jeyanthi, G. Dhivyalakshmi, Darling Helen Lydia</p>
10	NCN/OP-31	<p><b>Influence of Manganese (Mn) Doping On Structural, Morphological and Optical Properties of Zinc Oxide Thin Films Derived by Sol-Gel Route</b></p> <p>V Balaprakash,, S Rathish, T Monisha and K Thangavel</p>
11	NCN/OP-32	<p><b>Fabrication of Zirconium doped ZnO Hybrid-Nanocomposited Material to Improve Bactericidal Inhibition and Fibroblast Cell Biocompatibility for Wound Healing Applications: <i>In vitro</i> Study</b></p> <p>G. Kavitha and .A. Kingson Solomon Jeevaraj</p>
12	NCN/OP-33	<p><b>Computational designing of Azo-BF<sub>2</sub> molecular photoswitching material for energy storage application</b></p> <p>R. S. Deepak Kumar, Rajadurai Vijay Solomon</p>
13	NCN/OP-34	<p><b>Thermal analysis and Rheological characteristics of natural convection behavior of novel Barium oxide:Hytherm600 nanofluid for enhanced heat transfer efficiency</b></p> <p>P. Prakash, J. Catherine Grace John, and A. Kingson Solomon Jeevaraj</p>
14	NCN/OP-35	<p><b>Synthesis and Characterisation of Iron Oxide Nanoparticles from Psidium Guajava Leaf Extract</b></p> <p>Sugi.L, Aarthi J, Siva Ranjani R, Kaviya S S, Kelvin Adaikalam C, Gowri S</p>
15	NCN/OP-36	<p><b>Tuning of the structural, optical and photo detecting properties spray coated Bi<sub>2</sub>S<sub>3</sub> thin films by La doping</b></p> <p>M. Karthika, I. Loyola Poul Raj, L.Priya</p>
16	NCN/OP-37	<p><b>Growth and Characterization Studies of Sarcosine Picrate</b></p>

		<p><b>(SARP)Single Crystal</b></p> <p>S. Amirsha Evangelin Kezia, N. Balasundari, A. Arulgnanam, K.Parvathi, N.Vijayakumar</p>
17	<b>NCN/OP-38</b>	<p><b>Carbon Nanotube: A Recent Review On Plasma Based Synthesis Method And Their Application</b></p> <p>A. Jasmine Linda and .A. Kingson Solomon Jeevaraj</p>
18	<b>NCN/OP-39</b>	<p><b>Acoustic investigations of molecular interactions in a barium oxide nanofluid at different temperatures.</b></p> <p>P. Prakash, J. Catherine Grace John, and A. Kingson Solomon Jeevaraj</p>
19	<b>NCN/OP-40</b>	<p><b>Advanced Dielectric Analysis of CuO Nanofluids with Mixed Alcohol-Amine Bases (Butanol + Diethylamine) and (Isopropanol + Diethylamine)</b></p> <p>B. Rohini, A.Suvitha, A.Kingson Solomon Jeevaraj, V. Revathi</p>
20	<b>NCN/OP-41</b>	<p><b>Analysis of N-Methyl-1-(4-methylphenyl)propan-2-amine: Vibrational Analysis, Electronic Structure, and Geometrical Studies using Density Functional theory</b></p> <p>S. Kavitha, S.Gomathi</p>
21	<b>NCN/OP-42</b>	<p><b>Studies on Charge-Transfer complexes of Medicinal plants.</b></p> <p>M.Anees Ahmed, G.M. Rajesh, N. Dharani Rajan, S.Jayakumar</p>
22	<b>NCN/OP-43</b>	<p><b>Efficient Ni-based thermoelectric device for energy harvesting</b></p> <p>L Banupriya, R N Emerson, G Josemin Bala</p>