

CURRICULUM VITAE

PROF. DINESH RANGAPPA

Dr. Dinesh Rangappa

Professor

Department of Applied Sciences (Nanotechnology)

Visvesvaraya Technological University,

Center for Post Graduate Studies, Bengaluru Region

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Researcher ID: AAA-1150-2020



PERSONAL INFORMATION:

Name:	DINESH RANGAPPA
Father's name:	B. RANGAPPA
Date of Birth:	14-07-1974
Sex:	Male
Nationality:	Indian

EDUCATIONAL QUALIFICATIONS:

1993-96 July-Bachelor of Science (B.Sc.) in **Chemistry** and **Biology**, Yuvaraja's College,
University of Mysore, Mysore, India

1996-98 July- Master of Science (M.Sc.) in **Environmental Science**, Department of
Environmental Science, **University of Mysore**, Mysore, India

1999-2003 – Doctor of Philosophy (Ph.D.) in Environmental Science from University of Mysore,
Mysore, India. (Awarded in 2005)

2001-2004-Doctor of Engineering (Dr.Eng.) in **Materials Science and Engineering**, Interdisciplinary
Graduate School of Science and Engineering, **Tokyo Institute of Technology**,
Yokohama, **Japan**.

AWARDS/HONORS/ SCHOLARSHIP:

1. **Fellow of Institution of Engineers (FIE) 2020**, India
2. **Elected member for State committee IEI (2021-2023).**
3. **Dr. C. Sita Devi & Dr. CRRM Reddy Endowment lecture award 2020** by Andhra Pradesh Akademi of Sciences,
4. **Fellow National Environmental Science Academy (FNESA) the Year of Award-2019** by National Environmental Science Academy New Delhi.
5. **Bridge Fellowship award 2017**, Japan Society for the Promotion of Science (JSPS), Japan.
6. **Gandhian Young Technological Innovation Award 2016** by National Innovation Foundation, New Delhi.
7. **Sri Pavan Nagpal Memorial Lecture Award for the year 2015** by The Indian Ceramic Society– Karnataka Chapter (ICS-KC).
8. **Prof. Satish Dhawan State Award for the year 2014** for outstanding achievements in the fields engineering science (Nanotechnology) from Govt. of Karnataka.
9. **Japan Society for The Promotion of Science (JSPS) postdoctoral fellowship award 2009.**
10. **Yoshida Scholarship 2001-2004** from Yoshida Scholarship Foundation, YKK, Japan, under Asia 100 program. First Indian to get this scholarship.
11. **Mentored for Students & Got Prize in NANOSPARK-2018** at 10th Bengaluru INDIANANO 2018 Bengaluru.

Additional Achievements

12. **Mentored & Got Prize in ELEVATE-2018** Start-up Karnataka, Karnataka Innovation & Technology Services (KITS), Department of IT & BT, Government of Karnataka
13. **Mentored for Students & Got Third Prize in MANTHAN-2017** at Federation of Karnataka Chambers of Commerce & Industry (FKCCI), Bengaluru
14. **Twenty-one Best Poster/Oral Paper award** to his group presented in National and International Conferences held at various places at India.
15. **Invited Peer Reviewer** for several international research journals published by ACS, RSC, and Elsevier such as Inorganic chemistry, Applied Mater. & Interface, Crystal Growth & Design, Chemical Communications, *Journal of Materials Chemistry*, *Chemical Society Reviews*, *Physical Chemistry Chemical Physics*, *Cryst Eng Comm*, *Green Chemistry*, *Journal of Materials Science*, *Dyes and Pigments*, *Journal of Crystal Growth*, *Journal Supercritical Fluid*, and *Materials Letters* and so on.
16. **Delivered 70 invited/Keynote/Plenary talks** at various institute and conferences at India

and abroad such as Indian Institute of Science, IIT Madras, ARCI Hyderabad, NCL Pune, MRS-J, MRSI, Tohoku University, Japan.

Area of Research Interest : Electrochemistry, Battery, Supercapacitors, Environmental Chemistry, Environmental Science, Nanotechnology, Material Chemistry, Photocatalysis, Hydrothermal Reactions, Supercritical Fluids, Li ion battery materials, graphene exfoliation and applications. H₂ Generation, electrocatalyst.

Current position: Professor, Department of Nanotechnology

Career objective: To Develop Electrochemical Energy storage devices, Materials and Nanostructured Electrode materials. Nanochemistry, Nanoscience & Technology Environmental chemistry approach to address the societal problem and contribute towards educational and research activity, Development of Nano-energy and Nanobiotechnology Academic/Research Institutions

PROFESSIONAL EXPERIENCES:

1. 2013 December-

till date: Founder Professor, Department of Nanotechnology, Centre for PG studies and Center for Nanotechnology, Visvesvaraya Technological University. Teaching, Research, Administration Establishing and developing the department. Guiding research students. R&D and undertaking sponsored research projects on Li ion battery materials and device development. Nanosensors, electrochemical sensors, H₂ generation, photocatalyst and nanobiotechnology.

2. 2012 December-2013 December: PG Coordinator/Special officer, Centre for PG studies and Center for Nanotechnology, Visvesvaraya Technological University. Teaching, Research, Administration Establishing and developing the PG centre. Guiding and mentoring research students and young faculties.

3. **2012 July-2012 December:** Special officer, Center for Nanotechnology, Visvesvaraya Technological University.
4. **2012 June- December 2013:** Professor and Director (R &D), East West Institute of Technology, Bangalore.
5. **2011 March-2012 June: Senior Scientist** at International Advanced Research Center for Powder Metallurgy and New materials (ARCI), Hyderabad.

Title of the project:

Li ion battery electrode materials for large format battery applications in Automobiles.
Establishing Li ion battery materials development and testing facilities at ARCI.

6. **2009 April–**

2011 March: JSPS Research Fellow at National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, and Tohoku University, Japan.

Title of the project:

- i. *Application of supercritical fluid process for the development of high power and high energy Li-ion secondary battery nanomaterials.*
- ii. *Rapid supercritical fluid exfoliation and functionalization of graphene sheets and their application in Li ion battery materials, supercapacitors and electrochemical hydrogen storage.*

7. **2007 July-2009 March: PD Research Scientist:** AIST, Tsukuba, Japan.

Title of the project: *Nanomaterials for high potential Li-ion battery materials and their applications in hybrid electric and electric vehicles.*

8. **2007 April – July 2007: Research Assistant Professor,** at IMRAM, Tohoku University, Sendai, Japan.

Title of the project: *Preparation of size and shape controlled Ba-hexaferrite nanocrystals for high density memory device application.*

9. **2004 November – 2007 March: Postdoctoral Research Fellow** at IMRAM, Tohoku University Sendai, Japan.

Title of the projects:

- i. *Designing transparent metal oxide nano-pigments for car paints, in collaboration with Toyota Motor Corporations.*

- ii. *Preparation of organic and inorganic hybrid metal oxide nanocrystals by supercritical water method for catalytic, optical and electrochemical applications*

10. **Oct 2004 – Nov 15 2004:** *Postdoctoral Researcher*, at Materials and Structures

Laboratory Tokyo Institute of Technology Yokohama, Japan

Title of the project: *Ball rotation assisted solution method for alkaline earth titanates films.*

11. **Oct 2001-Sep 2009:** Yoshida Foundation Scholar at Tokyo Institute of Technology Yokohama, Japan

Title of the project: *A novel ball rotation assisted solution process for fabrication of alkaline earth tungstate, molybdate and titanates films.*

12. **Oct 1999-May 2001:** *Research Fellow* at Department of Studies in Environmental Science/Geology, University of Mysore, Mysore, India.

Title of the project: *Synthesis and characterization of activated carbon/TiO₂ or ZnO photocatalyst composite by hydrothermal reaction*

AFFILIATION WITH PROFESSIONAL BODIES AND SOCIETIES (INDIA & ABROAD):

1. Indian JSPS Alumni Association (IJAA) South chapter General Secretary.
2. Visiting professor, February 2019 to Tohoku University Japan under DST-JSPS sponsored Indo-Japan Bilateral Collaborative Research Project.
3. Honorary Secretary, Indian Ceramic Society, Karnataka chapter for 2018-2020 and Vice-Chairman 2020-2022.
4. Indian JSPS Alumni Association (IJAA) South chapter Convenor for 2017-2021
5. Honorary Joint Secretary, Electrochemical Society of India
6. Sectional Editor VTU-Journal
7. Associate Editor, Editorial board members for different national and international peer reviewed Journals
8. Sectional Secretary, Materials Science Section, 103rd Indian Science Congress, 3-7, January, 2016.
9. Member, Local Inquiry Committee, VTU Belgaum (2013, 2014, 2015, 2016).

10. Joint Secretary, The Electrochemical Society of India.
11. Editorial Member: Section Editor for Basic Sciences at VTU Belgaum.
12. Chairman: Board of Studies in Nanotechnology, VTU Belgaum (2016-19) (2019-22).
13. Member, Board of Studies in Nanotechnology, VTU Belgaum (2012-16)
14. Member, Board of Examiners in Nanotechnology, VTU Belgaum (2015-16).
15. Member, Board of Studies, SIT Tumkur.
16. Member, Selection Committee for TRIP Projects, VGST, Govt. of Karnataka (2013-14).
17. Selection Committee for FDP, VGST, Govt. of Karnataka (2013-14)
18. Member, JRF Selection committee for DST Project, SIT Tumkur (2015)
19. Member, JRF Selection committee for DST Project, Nanotechnology, VTU Belgaum.
20. Member, South Chapter, JSPSA Alumni
21. Editorial Member: International Journal of Green Nanotechnology
22. Editorial Member: HSOA Journal of Nanotechnology: Nanomedicine & Nanobiotechnology
23. Member, American Nanoscience Society, USA
24. Member, Materials Research Society, USA
25. Life Member, National Environmental Science Academy
26. Life Member, Indian Society for Technical Education (ISTE)
27. Life Member, Materials Research Society of India (MRSI)
28. Life Member, Associate Member The Institution of Engineers (India) (AMIE)
29. Member, International Solvothermal & Hydrothermal society, Japan
30. Japanese Electrochemical society, Japan.
31. Japanese Battery society, Japan.
32. International Society for Supercritical Fluids, UK.
33. Life Member, Indian Ceramic Society
34. Life Member, Electrochemical Society of India
35. Indian Scientist Association in Japan. (Executive body member)
36. Life Member, Indian Japan Society for The Promotion of Science (JSPS) Alumni Association.
37. Invited Peer Reviewer for several international research journals published by American chemical society, Royal Society of chemistry, Wiley publications and Elsevier such as

Inorganic chemistry, Applied Mater. & Interface, Crystal Growth & Design, Chemical Communications, *Journal of Materials Chemistry*, *Chemical Society Reviews*, *Chemistry A European Journal*, *Physical Chemistry Chemical Physics*, *Cryst Eng Comm*, *Green Chemistry*, *Journal of Materials Science*, *Dyes and Pigments*, *Journal of Crystal Growth*, *Journal Supercritical Fluid*, and *Materials Letters* and so on.

38. Alumni member of Yoshida Scholarship Yoshida Scholarship Foundation, YKK, Japan, under Asia 100 program.

INNOVATION/START-UP:

1. Advisor and Mentor for Re-Batt Energy Solutions Pvt. Ltd. (PhD students Start-up company for recycle and reusable batteries).
2. Advisor and Mentor for RACHISI solutions Private Limited.

LIST OF SPONSORED RESEARCH PROJECTS:

1. Supercritical Fluid Process Development for Next Generation (Magnesium/Sodium Ion) Battery Electrode Materials.
DST-JSPS **6.86 lakhs** 2018-19 PI: Dr Dinesh Rangappa Rangappa
2. Development of Electrically Conducting & Atomic Oxygen Resistant CNT Reinforced Polyimides for Space Applications.
ISRO-RESPOND **23 lakhs** 2018-19 PI: Dr Dinesh Rangappa Rangappa
3. Establishment of Nanobiotechnology laboratory for drug discovery programme in cancer therapy.
VGST-K-FIST (Level II) **20 lakhs** 2016-17 PI: Dr Dinesh Rangappa
4. Centre of Excellence in Functional Hybrid Nanostructure for Energy and Environmental Applications.
VGST-CESEM **60 lakhs** 2013-15. PI: Dr Dinesh Rangappa Rangappa
5. Preparation of Lithium Ion Battery Cathode materials and battery Fabrication.
KCTU-VTU **60 lakhs** 2014-17. PI: Dr Dinesh Rangappa

STUDENTS MINOR PROJECT:

6. Cat Eye and Micromice of Nanoelectronics.

VGST-TRIP 40K 2013-14.

Dr. Dinesh Rangappa

Student: Ms. M. Sindhu Sree

7. Metal Oxide-CNT-Hybrid Nanostructure Electrode for Electrochemical Waste Water Treatment.

VGST-TRIP 40K 2015-16.

Dr. Dinesh Rangappa

Student: Mr. Harshavardhan P & Mr. Murthy M

8. Silk Cocoon- Carbon Nanotube based hybrid material for energy harvesting application.

VGST-TRIP 40K 2015-16.

Dr. Dinesh Rangappa

Student: Ms. Vijayalakshmi C & Ms. Sindhu Sree M

9. Fabrication and Characterization of Zinc Oxide, Tin Oxide And Graphene Oxide Nanoparticles Based Gas Sensor For Automobiles Application.

KSCST 7K 2015-16.

Dr. Dinesh Rangappa

Student: Mr. Harshavardhan P

10. Synthesis and Fabrication Of Self-charging Multilayered Ceramic (BaTiO₃) For Multilayered Ceramic Capacitor.

KSCST 7K 2015-16.

Dr. Dinesh Rangappa

Student: Ms. Shruthi N S

11. Design and Fabrication of Graphene-NiS₂ hybrid Nanostructured Anode for Li-ion battery Electrode

KSCST 7K 2016-17.

Dr. Dinesh Rangappa

Student: Mr. Sagara N K

ORGANIZED INTERNATIONAL/NATIONAL CONFERENCE/WORKSHOPS:

Details of Conference/Workshop Organized					
Sl.No	Faculty Name	Role	Workshop /Conference	National /International	Name of the Conference/Workshop
1	DDinesh Rangappa Rangappa	Organizing Chair	Conference	International	April 2012 Green Nanotechnology at VTU Belgaum
2	DDinesh Rangappa Rangappa	Convener	Workshop	National	21 st -23 rd March 2013 Nanoelectronic Circuits and Devices
3	DDinesh Rangappa Rangappa	Organizing Chair	Conference	International	17-19 th April, 2013 CANEUS 2013, at Belgaum
4	DDinesh Rangappa Rangappa	Convener	Workshop	National	18 th Feb 2014 SEM in association with Forevision Instruments (India)
5	DDinesh Rangappa Rangappa	Convener	Workshop	National	18-19 th March, 2014 Nuvotonnu-Micro ARM Cortex-m0 and its Applications
6	DDinesh Rangappa Rangappa	Convener	Workshop	International	14 th Dec 2015 One Day workshop on Nanomaterials 2016
7	DDinesh Rangappa Rangappa	Convener	Conference	International	15-17 th Dec 2015 International Conference on Ceramic & Advanced Materials for Energy and Environment at Christ
8	DDinesh Rangappa Rangappa	Sectional Secretary	Conference	International	3 rd to 7 th Jan 2016 103 rd Indian Science Congress at University of Mysore, Mysore
9	DDinesh Rangappa Rangappa	Organizing Chair	Conference	International	21 st to 23 rd Apr 2016 International Conference on Nanotechnology '2016 at VTU Muddenahalli
10	DDinesh Rangappa Rangappa	Convener	Conference	International	8 th to 9 th Aug 2016 Science & Technology: Future Challenges and Solutions 2016 at Mysuru
11	DDinesh Rangappa Rangappa	Convener	Conference	International	20-22 nd Jan 2017 International Conference on Advances in Science and Engineering in Thailand
12	Dr. Dinesh Rangappa	Convener	Conference	National	23-24 th Mar 2017 Recent trends in Geo Science, Material Science & Civil Engineering-2017, Mysuru

13	DDinesh Rangappa Rangappa	Convener	Conference	International	19-21 st Sep2018Advanced CeramicsandNanomaterialsfor SustainableDevelopmentat ChristUniversity
14	DDinesh Rangappa Rangappa	Organizing Chair	Symposium	International	22 nd Sep2018Advanced NanomaterialsatVTU Muddenahalli
15	DDinesh Rangappa Rangappa	Organizing Chair	Symposium	International	09 th Sep2019NESARA19at VTUMuddenahalli
16	DDinesh Rangappa Rangappa	Convener	Conference	International	19-20 st Dec Materials For Environment, Sustainable Society And Global Empowerment – 2019 (Message - 2019) at VTU Muddenahalli
17	DDinesh Rangappa Rangappa	Convener	Conference	National	27-28 th Dec 2019 National Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore
18	DDinesh Rangappa Rangappa	Convener	Conference	International	17-18th January 2020 International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020) at DSCE Bangalore

PATENTS:

1. **Title: Method of Processing of Decellularized Extracellular Matrix (Decm) For Bio-Medical applications**

Dhoolappa Melinamani, R.V. Prasad, K.V. Jamuna, H.D. Narayanaswamy, B.N. Nagaraj, V. Chandrashekar Murthy, **Dinesh Rangappa**, S. Sundareshan, Bannappa S Unger, K. Nagappa, S. Dhamnalakshmi, M.K. Vinuthan, K.T. Lakshmi Shree and R. P. Mutturaj.

Application No. 201641029234 dt. 27/08/2016

2. **Title: "A Process for preparing nano-crystalline olivine structure transition metal phosphate material"**

Dinesh Rangappa, R. Gopalan, T.N Rao

Application no: 405/DEL/2012

3. **Interface Circuit for Array Biosensor**

Radha B L, Cyril Prasanna Raj P, **Dinesh Rangappa**

Filed 2021-07-28

4. **A method for biosensor model using feedforward neural network**

Radha B. L., Cyril Prasanna Raj P., **Dinesh Rangappa**

Filed 2021-07-21

5. **Silk cocoon based battery device for low power application,**

Dinesh Rangappa, M Sindhu Sree, Vinay Gangaraju, Navya Rani M. Sushil Kumar Singh (Under Filing)

6. **Multiwall carbon nanotube-silk cocoon based force/pressure sensitive sensor**

Prof. Dinesh Rangappa, M Sindhu Sree, Vinay Gangaraju, Mahesh Shastri, S.

Jagadeesh Babu (Under Filing)

7. **Thermal Sanitizer for the quick dis-infection of COVID-19 virus and other bacteria**

Prof. Dinesh Rangappa, Manikanta Palya Narayanaswamy, Prof.

Shanmukhappa Kuberappa Muttagi, Vinay Gangaraju, Manjunath Shetty, Dr. Navya Rani M. (*Under Filing*)

8. **Kapok Silk Cotton bio polymer based conducting carbon fibres/sheets for applications**

Prof. Dinesh Rangappa, Vinay Gangaraju, M Sindhu Sree, Mahesh Shastri, Navya

Rani M. (Under Filing)

9. Design and method for an array of battery and inverter in single power system

Vinay Gangaraju, Mahesh Shastri, **Prof.Dinesh Rangappa**, Navya Rani M (Under Filing)

10. A Supercritical Fluid Process for high yield and scale up Exfoliation of MAX Phase to MXene sheets

Dr. Dinesh Rangappa, Chetan S, Kunol Roy, Murthy Muniyappa (Under Filing)

RESEARCH ACHIEVEMENT:

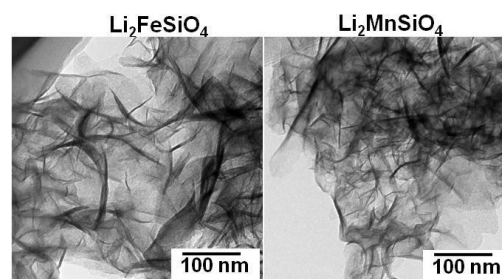
SilkCocoon-Graphenehybridcompositefor energy Generation

SilkCocoon-Graphenehybridmaterialshasbeendevelopedwhichgenerateselectricityabout 1 V. This can be used to glow LED bulbs and small torch lights.

Nanostructuredelectrodes forElectrochemicalOxidation ofwastewatertreatment

MetaloxidesNanostructure

TiO₂ and SnO₂ electrode was developed by coating on suitable substrate and used as electrode for electrochemical waste water oxidation. This would help us to remove toxic organic substances in waste water at low cost as this electrode powered by solar cell.



Aqueous power cells for energy generation

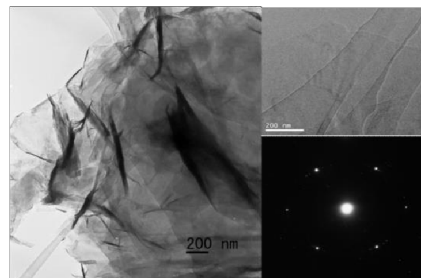
Aqueous the power cell which is supplying a sufficient power to operate LEDs and LOW power devices such as LED bulbs by harvesting the mechanical energy from body movements has been developed. Currently we are working on optimizing the properties of piezoelectric material, anode and aqueous electrolyte.

High-energy density cathode materials The need for large-scale Li-ion batteries in automobile electric vehicles, grid and renewable energy storage requires a high-energy density (gravimetric and volumetric) cathode material which is equivalent to high-capacity (per Kg), high-potential, high packing bulk density cathode materials. We have designed polyanion-type Li₂MSiO₄ cathode materials with 2D sheets

like structure under SCF process. The 2D structure not only provides the high surface area and enhanced ion diffusion rates but also makes the electrode materials stable for several reversible cyclic performances. The two Li ion insertion shall be realized through unique sheet-like structure and efforts are being made in these directions.

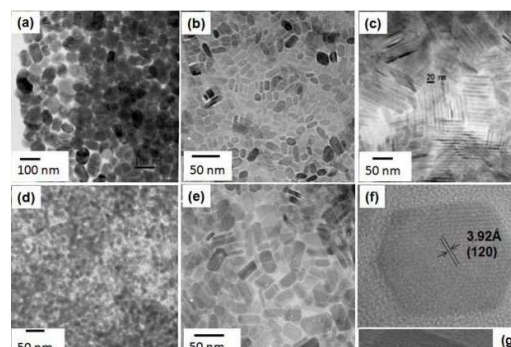
Supercritical Fluid Exfoliation and Processing of graphene sheets

Supercritical fluid process has been developed as a rapid and high yielding process for exfoliated graphene. This process facilitates the mass production of high quality graphene nanosheets in 1-2 h reaction time, and offers the solution for most difficult problem in exfoliation of graphene. The supercritical fluid process can also be used for functionalization of graphene with various functional molecules that control the graphene stabilization, electronic properties and find numerous applications in Li ion battery, capacitor, photocatalyst support, solar cell, and so on.



Olivine Phosphate nano-electrode for Li ion battery materials

Under this study we have developed a one-pot and novel supercritical fluid approach for the preparation of size and morphology controlled LiMPO_4 nanostructures in a short reaction time and at low temperature conditions. The oleylamine played an important role in escaping as well as reducing agent in controlling the size and crystalline phase of the LiMPO_4 . This study provides a suitable approach to tune the nano size and morphology of the LiMPO_4 NCs below 20 nm. This kind of tunable size synthesis can lead to the realization of significant critical size and nano size effect for different cathode materials based on olivine structure with improved carbon coating conditions.

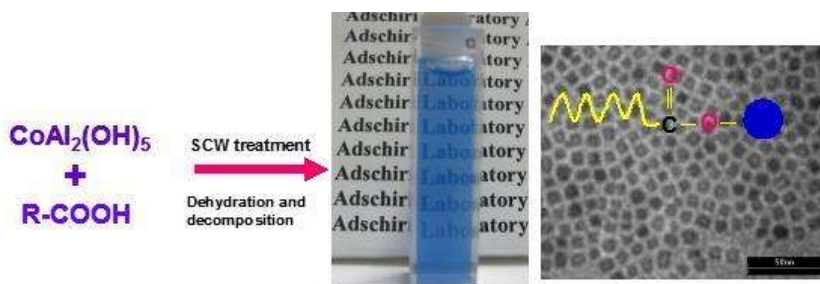


The preparation of LiFePO_4 and LiMnPO_4 single nanocrystals coated with carbon nanotube (CNT) and C is carried out. Ex-situ and in-situ CNT/graphene coating enhanced the electronic conductivity and Li^+ ion diffusion leading to improved electrochemical performance of LiFePO_4 . This study presents the LiFePO_4 single spherical, cubic nanocrystals with size 15 nm and nanorods with complete coverage of nanocrystal surface with carbon and CNT for the first time. These nano electrode materials can be used in the Li ion

batteries for their applications in hybrid electric vehicles or electric vehicles.

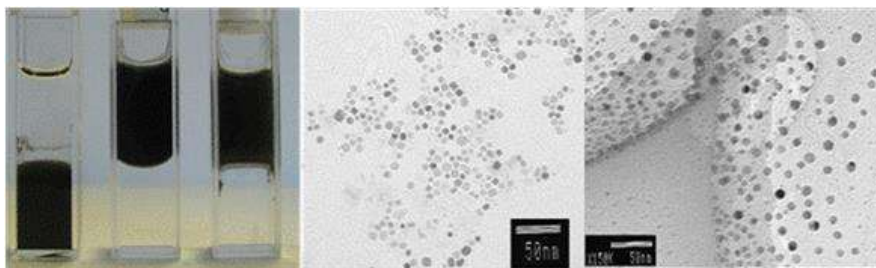
Transparent CoAl_2O_4 hybrid nano pigment

For the first time we have developed an organic ligand capped CoAl_2O_4 hybrid transparent nano pigment, which has particle size less than 8 nm with well stabilized single nanocrystals at low temperature, using organic ligand assisted supercritical water as the reaction medium. The organic ligand capping could effectively inhibit the particle growth and also control the size of nanocrystals. This helps to diminish the scattering effect of the nano blue pigment realizing a transparent cobalt blue hybrid nano pigments without any post heat treatment.



Organic modification of complex metal oxide hybrid nanocrystals

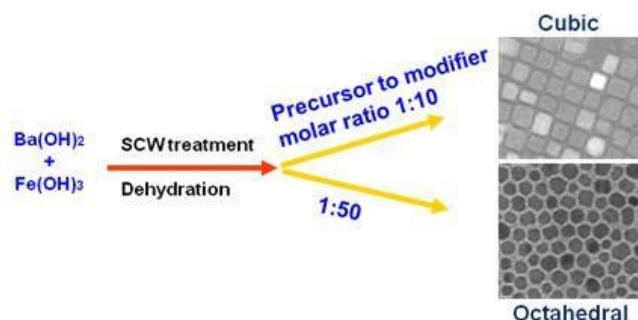
The current mainstream strategies for producing high-quality nanocrystals and modifying their surface to obtain hybrid materials involves non-aqueous solvents, most of these methods cannot be applied for preparation and surface modification of multicomponent metal oxide nanoparticles which require relatively high temperature. Using organic ligand assisted supercritical water complex metal oxide of CuFeMnO_4 and CuMn_2O_4 hybrid nanocrystals have been fabricated. These nanocrystals have high surface area and can be used in catalysis and coating applications. The hydrophilic surface of these oxide nanocrystals have been modified into hydrophobic under organic ligand assisted supercritical water hydrothermal conditions.



Barium hexaferrite nanocrystals and their magnetic property

Barium and strontium hexaferrite nanocrystals with 5-10 nm particle size were synthesized at relatively

low temperature without additional heat treatment. Particle size was controlled by providing organic reagent into the reaction medium. These particles show good magnetic property and very suitable material for high density memory recording.



Fabrication of Alkaline earth tungstate and molybdates films

In this study we have demonstrated the possibility of functional ceramic films directly from the aqueous solution in a single step by solution reaction, ball milling assisted solution reaction and ball milling assisted hydrothermal reaction at room temperature to 100°C , through novel simple and low cost processing's. Thus, it is an example demonstrating that firing, high temperature or any sophisticated instruments are not always needed to prepare crystallized ceramic materials with desired size and shape when appropriate processing and starting materials were chosen. This was the topic during my doctoral course (D. Eng.,) in Materials Science and Engineering thesis at Tokyo Institute of Technology awarded on 2004.

Photocatalyst preparation and Organic molecules decompositions Synthesis, Characterizations and application of activated carbon/ TiO_2 / ZnO composite photocatalyst materials by hydrothermal technique and their application in photocatalytic degradation of industrial wastewater and toxic organic molecule have been studied. Incorporation of semiconductor materials on the activated carbon support under hydrothermal condition further enhanced the photocatalytic activity of semiconductor materials. This work was awarded with the degree of doctor of philosophy (Ph.D.,) in Environmental Science from University of Mysore.

EXPERIENCE IN TECHNIQUES

- Combustion process
- Flame spray pyrolysis
- Solution precursor plasma coating.

- Photocatalytic degradation of organic molecules and waste water
- Electrochemical cell assembly
- Super critical fluid/hydrothermal method by flow type reactors
- Low and high temperature hydrothermal technique
- Soft Solution Processing (SSP) methods
- Developed a novel ball-rotation assisted solution processing for in situ fabrication of metal oxide films
- Sonochemical synthesis of nanomaterials
- Developed a ball-rotation assisted hydrothermal method for BaTiO₃ and SrTiO₃ films
- Sol-gel method and spray pyrolysis
- Solid-state reaction method
- Ball-milling processing

EXPERIENCE WITH INSTRUMENTS

- X-Ray Diffraction (Powder and film),
- SEM, TEM, HRTEM
- TG-DTA,
- UV-Visible spectrophotometer,
- FTIR
- Micro Raman Spectroscopy
- Electrochemical work station
- Li ion battery fabrication
- Cyclic Voltammetry
- Gas Chromatography

Number of pursuing/completed PhD under my Guidance: **10**

Number of pursuing/completed M.Tech under my Guidance: **32**

LIST OF PHD SCHOLARS UNDER MY GUIDANCE:

Sl No	Name of the candidate	Title	Year of Registration	Status
1	A. Carmel Mary Esther	Studies on multifunctional adaptive oxide thin films for spacecraft applications	2014	Completed
2	Antony Jasheelan A	Piezoelectric thin and thick films for microsensor and microactuator	2014	Completed
3	Yogananda K C	Fabrication of highly efficient photoanodes for dye sensitised solar cells	2013	Completed
4	Thanuja KN	Designing an ascorbic acid conjugated hybrid nanoparticle and its medical application	2013	Thesis Submitted
5	Vinutha Srikanth	Fabrication of 3-D mesoporous materials based nanofibers	2013	CV Completed
6	Jagadeesh Babu	Fabrication of Graphene based nanocomposite photoanodes for hydrogen generation	2014-15	Completed
7	Manjunath Shetty	Synthesis and characterization of high capacity and high energy density electrode materials for	2015-16	Completed
8	Mahesh Shastri	Synthesis and Characterization of Nanostructured Electrode Materials for Li-ion and Sulphur	2015-16	Thesis Submitted
9	Sindhushree M	Synthesis and characterisation of binderless electrode for lithium ion battery	2015-16	On going
10	Murthy M	Synthesis and characterization of 2D nanostructured electrodes and applications	2015-16	On going
11	Manikanta P N	Development of carbon nanotube/polymer and metal or metal oxides based nanocomposite for space application	2020-21	On Going

M.TECH STUDENTS PROJECTS UNDER MY GUIDANCE:

Sl. No	Name of the Candidate	Title
1	Imran Karajagi	Fabrication of Piezoelectric ZnO & its application as gas flow sensor
2	Natraj Hulsure	Synthesis & Characterisation of LiMnPO ₄ cathode materials for Li-ion Battery
3	Shruthi G	Design, Development, Characterisation and Testing of Sputtered ZnO Dynamic Pressure Sensor
4	Suresh Tubaki	Synthesis & Fabrication of TiO ₂ based DSSC Solar cells
5	Raju A	Preparation & Characterisation of Graphene based Polymer Composite
6	Shareef R	Synthesis & Characterisation of Silver Nanoparticles using Penicillium & their application to enhance the efficiency of Antibacteria
7	Swathi P	Nanostructured Anode materials for Electrochemical Wastewater Treatment
8	Sindhusree M	RGO & Silk worm hybrid Material for Energy Harvesting Application
9	Sandhya V	Hydrothermal synthesis & Electrochemical properties of CoS ₂ -Graphene Nanocomposite for Super Capacitor Application
10	Ashwath BS	Fabrication & Characterisation of Organic FET based Gas Sensors by using Green Nano ZnO & SnO ₂
11	Anusha D.	Synthesis & Characterization of RGO & Polyaniline nanocomposite for Thermoelectric Generator Application
12	Harshavardhan a P.	Green Synthesis of ZnO & SnO ₂ Nanoparticles for Gas Sensing Application
13	Karthik K V	Synthesis & Characterisation of CCTO based flexible supercapacitor
14	Shruthi S	Silk-Cocoon Batio ₃ Hybrid Nanocomposite As A Dielectric Material For Super Capacitor Application
15	Shilpa P.	ZnO Nanostructured Semiconducting Gas Sensor With Silk cocoon As Gas Barrier Films For LPG Sensing Application
16	Vijaya Lakshmi C.	Silk Cocoon as Gas Barrier Layer for SnO ₂ based Gas Sensor
17	Aneesh P.S.	Use of Nanomaterial for Electrochemical Treatment of Water.
18	Lavanya G.	Rare Earth Doped Barium Nanoparticles for Luminescence Applications.
19	Meghesh Kumar S.	Graphene Based Sensors.
20	Sagara NK	Synthesis & Characterisation of NiS Nanostructure and its Photocatalytic Hydrogen Evolution Reaction Study.
21	Manikanta PN	Synthesis and Characterization of CNT/NiS & CNT/Polyimide Nanocomposites.

22	Saraswati K	Synthesis and Characterization of ZnMoO ₄ @rGO hybrid and its Application as anode material for Li-ion batteries.
23	Harish V	Hydrothermal Synthesis of MoS ₂ -Reduced Graphene Oxide Nanocomposites and its Photocatalytic Hydrogen evolution Studies.
24	Nagama	Study on Synthesis, Characterization and Fabrication of MoS ₂ Nanostructures and its Sensor Activity
25	Chaitanya	Transgenerational Effect of Ag Nanoparticle on Antiaging Activities in Drosophila Melanogaster
26	Chandrashekar	Silk Cocoon Fibres Derived from Feeding Multiwall Carbon Nanotube Coated Mulberry Leaves and Study their Properties
27	Siddesha Halageri Karnam	Electrodeposition of Photoactive Filicon Films for Low Cost Solar Cells
28	Siddi Nagendra	Sol-gel Synthesis and Characterization of Ni-rich cathode materials for Lithium-ion battery applications
29	Karan Patel	Pre-Treated silk cocoon derived Nanostructured Carbons and its application for Anode in Lithium-ion Battery
30	Kiran K	Preparation and Characterization of Silk Cocoon Based Carbon as Anode for LIB
31	Mahesh G	Synthesis and characterization of vacancy engineered TiO ₂ and ZnO and their biological applications
32	Kunal Roy	Structural and Morphological Variation of MgFe ₂ O ₄ with Different Synthesis Methods
33	Tathagatha Sardar	In situ Fabrication of Defect Engineered TiO ₂ Thin-film
34	Shravan V	Effect of Alumina nanoparticles and graphite powder on the mechanical properties of clay bricks
35	Sahana	Increasing water holding capacity of soil by silica based nanostructure

DOCTORAL THESIS:

1. Doctoral Thesis entitled “*Hydrothermal Impregnation of Activated Carbon and its Application in the Treatment of Industrial Effluents and some Organics*” under the guidance of Prof. K.M. Lokanatha Rai, University of Mysore Manasagangothri for Ph.D. degree in Environmental Science from the University of Mysore, has been successfully completed and submitted on February 2003.
2. Doctoral Thesis entitled “*Fabrication and Characterization of Alkaline Earth Tungstates, Molybdates and Titanates Films by Aqueous Solution Processes*” under supervision of Prof. M. Yoshimura, Materials and Structures Laboratory, Tokyo Institute of Technology for the award of Dr. Eng., on September 2004 in Materials Science and Engineering from the Tokyo Institute of Technology, Japan.

LIST OF PUBLICATIONS (*CORRESPONDING AUTHOR):

BOOKS/REVIEWS:

1. **Dinesh Rangappa** "Nanostructured Materials for Energy related applications" Springer-Nature-International Publisher ISBN 978-3-030-72075-9 DOI: 10.1007/978-3-030-72076-6_23
2. **Dinesh Rangappa**, Arjun Dey & C. D. Madhusoodana "Advanced Ceramic and Nanomaterials for Sustainable Development" CERI-D-19-05858, CERI ACeNDS Special Issue
3. **Dinesh Rangappa** Content Contribution for Indian Adaptation to "Introduction to Nanoscience and Nanotechnology" Poole, Wiley Publications 2020
4. Manjunath Shetty, Murthy Muniyappa, M Navya Rani, Vinay Gangaraju, Prasanna D Shivaramu, **Dinesh Rangappa**. "Photocatalytic Efficiency of Bi-Based Aurivillius Compounds: Critical Review and Discernment of the Factors Involved." In *Nanostructured Materials for Environmental Applications*, pp. 137-165. Springer, Cham, 2021. ISBN 978-3-030-72075-9 https://doi.org/10.1007/978-3-030-72076-6_6.
5. Vinutha Srikanth, Mahesh Shastri, M Sindhu Sree, M Navya Rani, Prasanna D Shivaramu, **Dinesh Rangappa**. "Nanostructure Material-Based Sensors for Environmental Applications." In *Nanostructured Materials for Environmental Applications*, pp. 565-589. Springer, Cham, 2021. ISBN 978-3-030-72075-9 https://doi.org/10.1007/978-3-030-72076-6_22.
6. Murthy Muniyappa, Manjunath Shetty, Mahesh Shastri, S Jagadeesh Babu, M Navya Rani, Prasanna D Shivaramu, **Dinesh Rangappa**. "Nanostructured MoS₂ as Non-noble Metal-Based Cocatalyst for Photocatalytic Applications." In *Nanostructured Materials for Environmental Applications*, pp. 591-610. Springer, Cham, 2021. ISBN 978-3-030-72075-9 https://doi.org/10.1007/978-3-030-72076-6_23.
7. Guddappa Halligudra, Chitrbanu C. P., **Dinesh Rangappa**, Prasanna D. Shivaramu. "Magnetic Substrate supported Heterogeneous catalysts for coupling, cyclization, and nitroarene reduction reactions" In *Current Trends in Materials Chemistry*. pp. 17-43. United Agencies, 2021. ISBN 978-93-85682-66-7.
8. Jagadeesh Babu Sriramoju, Chitrabanu C Paramesh, Guddappa Halligudra, **Dinesh Rangappa**, Prasanna D Shivaramu. "Magnetic Photocatalytic Systems" In *Photocatalytic Systems by Design : Materials, Mechanisms and Applications*, pp. 503-536. Elsevier, 2021. ISBN 978-0-12-820532-7 <https://doi.org/10.1016/B978-0-12-820532-7.00016-3>.

9. R. Dinesh* J-H. Jang, and I. Honma, "Supercritical Fluid Processing of Graphene and Graphene oxide" an invited book chapter in the book "Graphene / Book 2", 2011, ISBN 979-953-307-180-9, by InTech - an Open Access publisher
10. R. Dinesh* and I. Honma, "Designing Nanocrystal Electrodes by Supercritical Fluid Process and their Electrochemical Properties" an invited book chapter in the book "Nanocrystal", ISBN: 978-953-307-183-1 by InTech - an Open Access publisher 2011.

Papers Published in National/International Journals/Conference Proceedings

11. M Praveen Kumar, Sarika Raga , S Chetana , Dinesh Rangappa "Realization of Anomalous Microwave Absorption Characteristics of PVB-PEDOT: PSS with Electromagnetic Data-Driven discovery"IEEE Transactions on Dielectrics and Electrical Insulation (Accepted)
12. Hemam Rachna Devi, Ramachandra Chikkegowda, Dinesh Rangappa, Ashok Kumar Yadav, Zhong Chen, Karuna Kar Nanda "Trimetallic oxide-hydroxide porous nanosheets for efficient water oxidation"Chemical Engineering Journal (Accepted)
13. Murthy M, Sagara N K, Manjunath Shetty, Debasis De, Jagadeesh Babu, Mahesh Shastri, S. V. Navakoteswara Rao, M.V. Shankar, **Dinesh Rangappa** "Cocatalyst free Nickel Sulphide Nanostructure for Enhanced Photocatalytic Hydrogen Evolution" International Journal of Hydrogen Energy.
14. Ravi Mudike, Chetana Sabbanahalli, Jagadeesh Babu Sriramoju, Amarnath Bheemaraju, GuddappaHalligudra, Murthy Muniyappa, Manikanta P Narayanaswamy, Ananda Kumar, Prasanna D Shivaramu, **Dinesh Rangappa** "Copper zinc tin sulfide and multi-walled carbon nanotubes nanocomposite for visible-light-driven photocatalytic applications" Materials Research Bulletin 146, 111606, 1/2/2022.
15. GuddappaHalligudra, Chitrabanu C. Paramesh, Ravi Mudike, MalleshaNingegowda, **Dinesh Rangappa**, and Prasanna D. ShivaramuPdII on Guanidine-Functionalized Fe₃O₄ Nanoparticles as an Efficient Heterogeneous Catalyst for Suzuki–Miyaura Cross-Coupling and Reduction of Nitroarenes in Aqueous Media" American Chemical Society ACS Omega, 09/12/2021.
16. Amulya Giridasappa, Shareef M Ismail, **Dinesh Rangappa**, Gopinath ShanubhoganahalliMaheshwarappa, Navya Rani Marilingaiah, Shiva Sankar Reddy Gollapalli, Prasanna DaddakuncheShivaramu "Antioxidant, antiproliferative and antihemolytic properties of phytofabricated silver nanoparticles using Simarouba glauca and Celastruspaniculatus extracts" Applied Nanoscience, Springer International Publishing, 11, 10,2561-2576, 10/2021.
17. KC Yogananda, Easwaramoorthi Ramasamy, S Vasantha Kumar, **Dinesh Rangappa** "Ragi

- (finger millet) starch-based gel electrolytes for dye-sensitized solar cell application” Bulletin of Materials Science, Indian Academy of Sciences, 44, 03, 1-6, 09/2021.
18. Nagendra Kulal, Rajappan Vetrivel, Chinnakonda S Gopinath, Rahul K Ravindran, Vinod N Rao, Manjunath Shetty, R Shrikanth, **Dinesh Rangappa**, Ganapati V Shanbhag “Green route for carbonylation of amines by CO₂ using Sn-Ni-O bifunctional catalyst and theoretical study for finding best suited active sites” Chemical Engineering Journal, 129439, 2021/9/1
 19. Chitrabanu C Paramesh, GuddappaHalligudra, Murthy Muniyappa, Manjunath Shetty, Kiran K Somashekharappa, **Dinesh Rangappa**, Kanchugarakoppal S Rangappa, Prasanna D Shivaramu “Silver nanoparticles anchored TiO₂ nanotubes prepared using saponin extract as heterogeneous and recyclable catalysts for reduction of dyes” Ceramics International, 14750-14759, 2021/5/15
 20. Mahesh Shastri, Manjunath Shetty, Murthy Muniyappa, Muralidhar Sindhu Sree, Vinay Gangaraju, Chethan Sabanhalli, SV Lokesh, Prasanna D Shivaramu, **Dinesh Rangappa** “Reduced graphene oxide wrapped sulfur nanocomposite as cathode material for lithium sulfur battery” Ceramics International, 14790-14797, 2021/5/15
 21. S Jagadeesh Babu, V Navakoteswara Rao, Dharmapura HK Murthy, Mahesh Shastri, M Murthy, Manjunath Shetty, KS Anantha Raju, Prasanna D Shivaramu, CS Ananda Kumar, MV Shankar, **Dinesh Rangappa** “Significantly enhanced cocatalyst-free H₂ evolution from defect-engineered Brown TiO₂” Ceramics International, 14821-14828, 2021/5/15
 22. SujanaChandrapa, Dharmapura HK Murthy, Lakshmana Reddy, S Jagadeesh Babu, **Dinesh Rangappa**, U Bhargav, V Preethi “Utilizing 2D Materials to Enhance H₂ Generation Efficiency via Photoreforming Industrial and Solid Waste” Environmental Research, 111239, 2021/5/14
 23. Mahesh Shastri, Jagadeesh Babu Sriramoju, Murthy Muniyappa, Manjunath Shetty, Vinay Gangaraju, Muralidhar Sindhu Sree, NavyaraniMarlingaiah, Hiroaki Kobayashi, TakaakiTomai, ItaruHonma, Prasanna D Shivaramu, SV Lokesh, **Dinesh Rangappa** “Silk cocoon derived carbon and sulfur nanosheets as cathode material for Li-S battery application” Emergent Materials, 2021/5/4
 24. ChitrabanuChikkanayakanahalli Paramesh, GuddappaHalligudra, Vinay Gangaraju, Jagadeesh Babu Sriramoju, Mahesh Shastri, **Dinesh Rangappa**, Rangappa KanchugarakoppalSubbegowda, Prasanna DoddakuncheShivaramu “Silver nanoparticles synthesized using saponin extract of Simarouba glauca oil seed meal as effective, recoverable and reusable catalyst for reduction of organic dyes” Results in Surfaces and Interfaces, 100005, 2021/5/1
 25. Manjunath Shetty, KarnanManickavasakam, Nagendra Kulal, Prasanna D Shivaramu, M Navya Rani, Mahesh Shastri, M Murthy, S Jagadeesh Babu, Ganapathi V Shanbhag, Marappan Sathish,

- Dinesh Rangappa** “Bismuth oxycarbonate Nanoplates@ α -Ni (OH) ₂ nanosheets 2D plate-on-sheet heterostructure as electrode for high-performance supercapacitor” Journal of Alloys and Compounds, 158495, 2021/4/15
26. Prasanna D Shivaramu, Sushil K Singh, **Dinesh Rangappa** “Materials for Environment, Sustainable Society and Global Empowerment (MESSAGE) Preface” CERAMICS INTERNATIONAL, 2021/4/1
 27. Amulya Giridasappa, **Dinesh Rangappa**, Gopinath ShanubhoganahalliMaheswarappa, Navya Rani Marilingaiah, ChandrashekaraKagepuraThammaiah, Ismail M Shareef, Rangappa KanchugarakoppalSubbegowda, Prasanna DoddakuncheShivaramu “Phytofabrication of cupric oxide nanoparticles using Simarouba glauca and Celastruspaniculatus extracts and their enhanced apoptotic inducing and anticancer effects” Applied Nanoscience, 1393-1409, 2021/4
 28. Jagadeesh Babu Sriramoju, Murthy Muniyappa, Navya Rani Marilingaiah, Chetana Sabbanahalli, Manjunath Shetty, Ravi Mudike, CP Chitrabanu, Prasanna D Shivaramu, G Nagaraju, Kanchugarakoppal S Rangappa, Ananda Kumar, **Dinesh Rangappa** “Carbon-based TiO₂-x heterostructure nanocomposites for enhanced photocatalytic degradation of dye molecules” Ceramics International, 10314-10321, 2021/4/1
 29. Manjunath Shetty, Christian Schüßler, Mahesh Shastri, Chethan Sabbanahalli, CP Chitrabhanu, M Murthy, S Jagadeesh Babu, TakaakiTomai, KS Anantharaju, Prasanna D Shivaramu, **Dinesh Rangappa** “One-pot supercritical water synthesis of Bi₂MoO₆-RGO 2D heterostructure as anodes for Li-ion batteries” Ceramics International, 10274-10283, 2021/4/1
 30. Vijaya V Shanbhag, SC Prashantha, TR Shashi Shekhar, H Nagabhushana, Ramachandra Naik, KM Girish, S Ashwini, **Dinesh Rangappa**, DS Prasanna “Enhanced photoluminescence of SiO₂ coated CaTiO₃: Dy³⁺, Li⁺ nanophosphors for white light emitting diodes” Ceramics International, 10346-10354, 2021/4/1
 31. Arjun Dey, KS Anantha Raju, **Dinesh Rangappa** “Recent Research Trends in Ceramics Based Advanced Materials for Frontier Applications” Ceramics International, 2021/3/8
 32. Rakesh Kr Singh, Nishant Kumar, **Dinesh Rangappa** “Synthesis and characterization of non-molar lithium–magnesium nanoferrite material for its applications” Applied Physics A, 2021/3
 33. Rakesh Kr Singh, Nishant Kumar, **Dinesh Rangappa** “Preparation and characterization of non-molar Mg_{0.5+x}Li_{1-2x}Fe₂O₄ (x=0, 0.15 and 0.35) ferrite nanoparticles, annealed at temperature 450° C for varied applications” AIP Conference Proceedings, 020003, 2021/2/9
 34. JP Savina, BV Raghavendra, **D Rangappa** “Experimental investigation on mechanical and tribological behaviour of surfactant coated multi-walled carbon nano tubes reinforced aluminium

- 6065-silicon metal matrix composite” Letters on Materials, 2021/2/1
35. Shubhangini Patil, KS Anantharaju, **Dinesh Rangappa**, YS Vidya, SC Sharma, L Renuka, H Nagabhushana “Magnetic Eu-doped MgFe₂O₄ nanomaterials: An investigation of their structural, optical and enhanced visible-light-driven photocatalytic performance” Environmental Nanotechnology, Monitoring & Management, 100268, 2020/5/1
 36. Basappa and **Dinesh Rangappa*** K.N. Thanuja, Toreshetahally R. Swaroop, M. Navya Rani, Kanchugarakoppal S. Rangappa “Synthesis, Characterization and Cytotoxic Studies of Benzamide Derivatives of Anacardic Acid using Human Liver Cancer Cells” Clinical Oncology and Research, 2020/4/7
 37. Quang Duc Truong, Yuta Nakayasu, Quyen T Nguyen, Duc N Nguyen, Chuc T Nguyen, Murukanahally Kempaiah Devaraju, **Dinesh Rangappa**, Keiichiro Nayuki, Yoshikazu Sasaki, Phong D Tran, Takaaki Tomai, Itaru Honma “Defect-rich exfoliated MoSe₂ nanosheets by supercritical fluid process as an attractive catalyst for hydrogen evolution in water” Applied Surface Science, 144537, 2020/3/1
 38. VS Amrutha, KS Anantharaju, DS Prasanna, **Dinesh Rangappa**, Krushitha Shetty, H Nagabhushana, K Ashwini, YS Vidya, GP Darshan “Enhanced Sunlight driven photocatalytic performance and visualization of latent fingerprint by green mediated ZnFe₂O₄–RGO nanocomposite” Arabian Journal of Chemistry, 1449-1465, 2020/1/1
 39. Manjunath Shetty, M Murthy, Mahesh Shastri, M Sindhusree, HP Nagaswarupa, Prasanna D Shivaramu, **Dinesh Rangappa** “Hydrothermally synthesized Bi₂MoO₆/Reduced Graphene Oxide composite as anodes for lithium-ion batteries” Ceramics International, 24965-24970, 2019/12/15
 40. Arjun Dey, **Dinesh Rangappa**, CD Madhusoodana “Advanced Ceramic and Nanomaterials for Sustainable Development” Ceramics International, 2019.
 41. KC Yogananda, Easwaramoorthi Ramasamy, **Dinesh Rangappa** “Synthesis, characterization, and dye-sensitized solar cell fabrication using potato starch–and potato starch nanocrystal–based gel electrolytes” Ionics 25, 12, 6035-6042, 2019.
 42. K.R. Basavalingiah, S. Harishkumar, Udayabhanu, G. Nagaraju, **Dinesh Rangappa** “Highly porous, honeycomb like Ag–ZnO nanomaterials for enhanced photocatalytic and photoluminescence studies: green synthesis using Azadirachta indica gum” Journal of Springer International Publishing, 8, 2019, 935.
 43. M Navya Rani, M Murthy, N Shyla Shree, S Ananda, S Yogesh, **Dinesh Rangappa** “Cuprous oxide anchored Reduced Graphene oxide ceramic nanocomposite using Tagetes erecta flower extract and evaluation of its antibacterial activity and cytotoxicity” Journal of

- Ceramics International, 2019/4/27.
44. Antony Jeyaseelan A, **Dinesh Rangappa**, Soma Dutta “Double doping effect on ferroelectric and leakage current behavior of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ thin film” Journal of Ceramics International 2019/07/347.
 45. Aparna Nadumane, Krushitha Shetty, KS Anantharaju, HP Nagaswarupa, **Dinesh Rangappa**, YS Vidya, HNagabhushana, SCPrashantha “Sunlight photocatalytic performance of Mg-doped nickel ferrite synthesized by a green sol-gel route” Journal of Science: Advanced Materials and Devices, 4, 89-100, 2019.
 46. SKiran, SKNaveen Kumar, KCYogananda, **Dinesh Rangappa** “Optimization of $\text{TiO}_2/\text{MWCNT}$ composites for efficient dye sensitized solar cells” Journal of Materials Science: Materials in Electronics, 29(15), 2018, 12681-12689.
 47. Rihana Banu, Shahina, CM Subhan, **Rangappa Dinesh**, K Fakruddin “Influence of TiO_2 and ZnO nanoparticles on orientational order parameter of LC compounds – An optical study” Molecular Crystals and Liquid Crystals, 665, 1, 238-247, 2018
 48. Sandhya Venkateshalu, **Dinesh Rangappa**, Andrews Nirmala Grace “Hydrothermal Synthesis and Electrochemical Properties of CoS_2 -Reduced Graphene Oxide Nanocomposite for Supercapacitor Application” International Journal of Nanoscience, 2018/4, (17)1760020, 2018.
 49. Krushitha Shetty, HP Nagaswarupa, **Dinesh Rangappa**, KS Anantharaju, BSSurendra, Anil Kumar “Comparison Study of Sol-gel and Combustion Method for Synthesis Nano Spinel MgFe_2O_4 and its Influence on Electrochemical Activity” Materials Today: Proceedings, 5, 2018, 22362-22367.
 50. VS Amrutha, KS Anantharaju, DS Prasanna, **Dinesh Rangappa**, Krushitha Shetty, H Nagabhushana, K Ashwini, YS Vidya, GPDarshan “Enhanced Sunlight driven photocatalytic performance and visualization of latent fingerprint by green mediated ZnFe_2O_4 -RG Onanocomposite” Journal of Arabian Journal of Chemistry, 2017/12/2.
 51. Antony Jeyaseelan, **Dinesh Rangappa**, Soma Dutta “Effect of Eu^{3+} doping on curie temperature and fatigue properties of $\text{Pb}, \text{La} (\text{ZrTi}) \text{O}_3$ films” Journal of Thin Solid Films, 642, 2017, 136-141.
 52. GNagaraju, SA Prashanth, MShastri, K VYathish, CAnupama, **Dinesh Rangappa** “Electrochemical heavy metal detection, photocatalytic, photoluminescence, biodiesel production and antibacterial activities of Ag-ZnO nanomaterial” Journal of Materials Research Bulletin 94, 54-63, 2017.
 53. Krushitha Shetty, BS Prathibha, **Dinesh Rangappa**, KS Anantharaju, HP Nagaswarupa, HNagabhushana, SCPrashantha “Photocatalytic study for fabricated Ag doped and undoped MgFe_2O_4

- nanoparticles” *Materials Today: Proceedings* 4(11), 11764-11772.
54. VinayGangaraju, Bhargavi D, **Dinesh Rangappa** “Synthesis and Characterization of α - MoO_3 /RGO Composite as Anode Material for Li-Ion Batteries Using Spray Drying Combustion” *Materials Today: Proceedings* 4 (11), 2017, 12328-12332.
 55. K.R.SreeHarsha, Murthy M, L.Udayasimha, Dharmaprakasha, **Dinesh Rangappa** “Synthesis and Characterization of Activated carbon Coated Alumina as Nano Adsorbent” *Materials Today: Proceedings* 4(11), 12321-12327
 56. M.NavyaRani, S.Ananda, **Dinesh Rangappa** “Preparation of reduced graphene oxide and its antibacterial properties” *Materials Today: Proceedings* 4(11), 12300-12305
 57. Yogananda KC, Easwaramoorthi Ramasamy, **Dinesh Rangappa** “Water-Based Rice Starch Bio-Polymer Gel Electrolyte For Dye Sensitized Solar Cell’s (DSSCs)” *Materials Today: Proceedings* 4(11), 12238-12244
 58. Karthik KV, Vinay G, **Dinesh Rangappa** “Synthesis and fabrication of flexible solid state asymmetric supercapacitor” *Materials Today: Proceedings* 4(11), 12229-12237
 59. Mahesh Shastri, Vinay Gangaraju, Navya Rani M, Harimohan E, TN Rao, **Dinesh Rangappa** “Spray drying assisted Combustion synthesis of $\text{LiNi}_{0.45}\text{Mn}_{1.45}\text{Co}_{0.1}\text{O}_4$ /Graphene nanocomposite and its electrochemical properties.” *Materials Today: Proceedings* 4 (11), 12223-12228
 60. Prasanna D Shivaramu, Asha Patil, M Murthy, Suresh Tubaki, Mahesh Shastri, S Manjunath, Vinay Gangaraju, **Dinesh Rangappa** “Magnetic substrates supported ZnO-CuO nanocomposite as reusable photocatalyst for the degradation of organic dye” *Materials Today: Proceedings* 4 (11), 12314-12320
 61. T Venkatesh, K R Vishnu Mahesh, M Mylarappa, D M K Siddeswara, N Raghavendra, M S Shiva Kumar, **Dinesh Rangappa**, D S Prasanna “Facile Synthesis and Characterization of MnO_2 /Graphene/Multi Walled Carbon Nanotube Nanostructured Ternary Composite: An Advance Material for Environmental and Biological Applications” *Materials Today: Proceedings* 4(11), 11915-11922
 62. Manjunath S., M Sathish, **Dinesh Rangappa** “Synthesis of Novel $\text{La}_{0.7}\text{Ce}_{0.2}\text{Sr}_{0.1}\text{Fe}_{0.5}\text{Mn}_{0.4}\text{Co}_{0.1}\text{O}_3$ (LCSFMC O) Perovskite Nanoparticles and Characterization for Structural, Electrochemical Properties.” *Materials Today: Proceedings* 4(11), 12198-12204
 63. Raje Gowda, H Narendra, B M Nagabushan R Prabhakara, **Dinesh Rangappa** “Investigation of nano-alumina on the effect of durability and micro-structural properties of the cement mortar” *Materials Today: Proceedings* 4 (11), 2016, 12191-12197.

64. Rajegowda*, HNarendra, RPrabhakar, **Dinesh Rangappa** “Effect of nano-alumina on workability, compressive strength and residual strength at elevated temperature of Cement Mortar” *Materials Today: Proceedings* 4(11), 12152-12156
65. Shareef J.U, Navya Rani M, Anand S., **Dinesh Rangappa** “Synthesis and characterization of silver nanoparticles from *Penicillium* sps” *Materials Today: Proceedings* 4(11), 11923-11932.
66. Murthy M, Suresh Tubaki, Lokesh S.V, **Dinesh Rangappa** “Co, N-Doped TiO₂ Coated r-GO as a photocatalyst for enhanced photocatalytic activity” *Materials Today: Proceedings* 4(11), 11873-11881.
67. Krushitha Shetty, B.S Prathibha, **Dinesh Rangappa**, K.S. Anantharaju, f*, H.P. Nagaswarupa, H. Nagabhushana, S.C. Prashantha “Photocatalytic study for fabricated Ag doped and undoped MgFe₂O₄ nanoparticles” *Materials Today: Proceedings* 4(11), 11764-11772.
68. Krushitha Shetty, L. Renuka, H.P. Nagaswarupa, H. Nagabhushan, K.S. Anantharaju, **Dinesh Rangappa**, S.C. Prashantha, K. Ashwini “A comparative study on CuFe₂O₄, ZnFe₂O₄ and NiFe₂O₄: Morphology, Impedance and Photocatalytic studies” *Materials Today: Proceedings* 4(11), 11806-11815.
69. G. Nagaraju, G.C. Shivaraju, G. Banuprakash, **Dinesh Rangappa** “Photocatalytic Activity of ZnO Nanoparticles: Synthesis via Solution Combustion Method” *Materials Today: Proceedings* 4(11), 11700-11705.
70. Krushitha Shetty, S.V. Lokesh, **Dinesh Rangappa**, H.P. Nagaswarupa, H. Nagabhushana, K.S. Anantharaju, S.C. Prashantha, Y.S. Vidya, S.C. Sharma “Designing MgFe₂O₄ decorated on green mediated reduced graphene oxide sheet showing photocatalytic performance and luminescence property” *Physica B: Condensed Matter*, 507, 67-75.
71. Seung-Wook Baek, Itaru Honma, Jedeok Kim, **Dinesh Rangappa** “Solidified inorganic-organic hybrid electrolyte for all solid state flexible lithium battery” *Journal of Power Sources*, 343, 22-29, 2017.
72. H. Natraj, **D. Rangappa**, A. N. Lagashetty, “Synthesis and Characterization of LiMnPO₄/Carbon Nanocomposite material as Cathode Material” *Physical Chemistry Research* 4(2), 285-289, 2016.
73. S.G. Surya, B.S. Ashwath, S. Mishra, A.R.B. Karthik, A.B. Sastry, B.L.V. Prasad, **Dinesh Rangappa** “H₂S detection using low-cost SnO₂ nano-particle Bi-layer OFETs” *Sensors and Actuators B: Chemical*, 2016, 235, 378-385.
74. A.C. Me Esther, N. Sridhara, S.V. Sebastian, P. Bera, C. Anandan, **Dinesh Rangappa**, “Evaluation of nano alumina coated germanium black polyimide membrane as sun shield for

- application on the communications satellite antenna” *Ceramics International*, 2016, 42(2), 2589-2598
75. A Carmel Mary Esther, Arjun Dey, **Dinesh Rangappa**, Anand Kumar Sharma “Low reflectance sputtered vanadium oxide thin films on silicon” *Infrared Physics & Technology*, 77, 35-39, 2016.
 76. A Esther, A Dey, N Sridhara, B Yougandar, P Bera, C Anandan, **Dinesh Rangappa** “A study on degradation of germanium coating on Kapton used for spacecraft sunshield application” *Surface and Interface Analysis*, 2015, 47 (13), 1155-1160
 77. ACME Esther, DPorwal, MS Pradeepkumar, **Dinesh Rangappa**, AK Sharma, “Optical constants of pulsed RF magnetron sputtered nanocolumnar V₂O₅ coating” *Physica B: Condensed Matter*, 2015, 478, 161-166
 78. ACME Esther, N Sridhara, SV Sebastian, P Bera, C Anandan, S Aruna, **Dinesh Rangappa** “Optical and RF transparent protective alumina thin films” *Journal of Materials Science: Materials in Electronics*, 2015, 26 (12), 9707-9716
 79. DPorwal, ACME Esther, IN Reddy, N Sridhara, NPY adav, **Dinesh Rangappa** “Study of the structural, thermal, optical, electrical and nanomechanical properties of sputtered vanadium oxide smart thin films” *RSC Advances*, 2015, 5 (45), 35737-3574.
 80. EH Mohan, V Siddhartha, R Gopalan, TN Rao, **Dinesh Rangappa** “Urea and sucrose assisted combustion synthesis of LiFePO₄/C nano-powder for lithium-ion battery cathode application” *AIMS Materials Science*, 2014 1 (4), 191-201
 81. **Dinesh Rangappa**, EH Mohan, V Siddhartha, R Gopalan, TN Rao “Preparation of LiMn₂O₄ Graphene Hybrid Nanostructure by Combustion Synthesis and Their Electrochemical Properties” *AIMS Materials Science*, 2014, 1 (4), 174-183
 82. K Sato, T Naka, T Nakane, **Dinesh Rangappa**, S Takami, S Ohara, T Adschiri “Inhomogeneous magnetic phase in Co–Al–O spinel nanocrystals” *Journal of Magnetism and Magnetic Materials*, 2014, 350, 161-166
 83. SBhuvaneswari, PM Pratheeksha, S Anandan, **Dinesh Rangappa**, R Gopalan, “Efficient reduced graphene oxide grafted porous Fe₃O₄ composite as a high performance anode material for Li-ion batteries” *Physical Chemistry Chemical Physics*, 2014, 16 (11), 5284-5294
 84. B Subramani, PPMuzhikara, A Srinivasan, **Dinesh Rangappa**, GRaghavan, TN Rao, “Efficient reduced graphene oxide grafted porous Fe₃O₄ composite as a high performance anode material for Li-ion batteries” *Physical Chemistry Chemical Physics*, 2013, DOI:10.1039/C3CP54778G

85. S.Anandan,T.N.Rao,M.Sathish, **Dinesh Rangappa**,I.Honma,M.Miyauchi,“Super-hydrophilic graphene loadedTiO₂ thin-filmfor self cleaningapplications” ACS Applied Materials &Interfaces 2012,5 (1), 207-212
86. M. K. Devaraju,**R.Dinesh**,and I. Honma, “Controlled synthesis of plate-like LiCoPO₄nanoparticles via supercritical method and their electrode property” ElectrochimicaActa, 2012, 85, 548-553 (IF: 3.9)
87. **R.Dinesh**,*M.K.Devaraju,A.Unemoto,T.TomaiandI.Honma“UltrathinNanosheets ofLi₂MnSiO₄ asHighCapacityLiionBatteryElectrode”NanoLetters2012,12, 1146–1151 (IF: 13.9)
88. S.Mitani,M.Sathish, **Dinesh Rangappa**,A.Unemoto,T.Tomai,I.Honma,“Nanographene derivedfromcarbon nanofiber anditsapplicationtoelectric double layercapacitors” ElectrochimicaActa2012, 68, 146-152.
89. M.K.Devaraju, **Dinesh Rangappa**,andI.Honma“Controlledsynthesisof Nanocrystalline Li₂MnSiO₄ particlesforhighcapacitycathodeapplicationinLiionbatteries”Chem. Commun., 2012,**48**, 2698-2700. (IF: 6.16)
90. **Dinesh Rangappa**, S. Ohara, S. Takami, T. Naka and T.Adschiri,“Water Soluble CoAl₂O₄ TrasparentNano Pigment by supercriticalWatermethod “Materials ResearchInnovations(2012), 16(1), 30-37. (IF: 2.1)
91. B.Nagaraj,M.Barasa, T.K.Divya,N.B.Krishnamurthy, **Dinesh Rangappa**,C.C.Negrila,and D.Predoi,“SynthesisofPlantmediated GoldNanoparticlesusingFlower Extract CarthamusPictoriusL.(Safflower)andEvaluationof TheirBiologicalActivities”, Digest Journal of Nanomaterials andBiostructures, 2012, (In press).(IF: 2.1)
92. B.Nagaraj,T.K.Divya,M.Barasa,N.B.Krishnamurthy,**DineshRangappa**,C.C.Negrila, D.Predoi,“Photosynthesisof GoldNanoparticlesusingCaesalpiniaPulcherrima (PeacockFlower) Flower ExtractandEvaluationof TheirAntimicrobialActivities”, Digest Journal of Nanomaterials andBiostructures, 2012, 7, 3, 899– 905. (IF: 2.1)
93. B.Nagaraj,T.K.Divya,P.LinyM.Barasa,N.B.Krishnamurthy,**Dinesh Rangappa**, “EnvironmentalBenign Synthesisof GoldNanoparticlesfromtheFlower extractof Plumeria AlbaLinn.(Frangipani)andEvaluationof TheirBiological Activities” International Journal ofDrugDevelopment andResearch, 2012, 4, 1, 108-114.
94. P.Liny, T.K. Divya,B.Malakar, B.Nagaraj, N.B. Krishnamurthy,and **Dinesh Rangappa**, “Preparation ofGold Nanoparticles from Helianthus Annuus (Sun Flower) Flower and Evaluation of their Antimicrobial Activities”,International Journal ofPharma and Bio Sciences, (2012) 3, 1, 339-346. (IF: 0.25)
95. N.B. Krishnamurthy,B.Nagaraj, B. Malakar, P.Liny, and **Dinesh Rangappa**, “Green Synthesis of

- Gold Nanoparticles using Tagetes Erecta L. (Mari Gold) Flower extract and Evaluation of their Antimicrobial Activities”, **Inter. Journal of Pharma and Bio Sciences**, (2012) 3, 1, 212-221 (IF: 0.25)
96. T. Tomai, **Dinesh Rangappa** and I. Honma, “Low-Temperature Direct Conversion of Cu-In Films to CuInSe₂ via Selenization Reaction in Supercritical Fluid” **ACS Applied Materials & Interfaces**, (2011), 3 (9), pp 3268–3271 (IF: 4.52)
 97. B. Nagaraj, N.B. Krishnamurthy, P. Liny, T.K. Divya and **Dinesh Rangappa**, “Biosynthesis of Gold Nanoparticles using Ixora Coccinea Flower Extract and their Antimicrobial Activities” **Intern. J. Pharma and Bio Sciences**, (2011) 2, 4 (IF: 0.25)
 98. **Dinesh Rangappa***, K. Sone, Y. Zhou, T. Kudo, I. Honma, “Size and Shape controlled LiMnPO₄ Nanocrystals Synthesized by Supercritical Ethanol Process” **J. Mater. Chem.**, 2011, 21 (39), 15813 - 15818 (IF: 5.9)
 99. **Dinesh Rangappa*** J.-H. Jang, and I. Honma, “Supercritical Fluid Processing of Graphene and Graphene oxide” an invited book chapter in the book “Graphene/ Book 2”, 2011, ISBN 979-953-307-180-9, by **InTech-an Open Access publisher**
 100. **Dinesh Rangappa*** and I. Honma, “Designing Nanocrystal Electrodes by Supercritical Fluid Process and their Electrochemical Properties” an invited book chapter in the book “Nanocrystal”, ISBN: 978-953-307-183-1 by **InTech-an Open Access publisher** 2011.
 101. P. Nagaraja, H. Krishna, A. Shivakumar, A.R. Paulas, **R. Dinesh** “Quantification of ultra-trace molibdenum using 4-amino-5-hydroxynaphthalene-2,7-disulfonic acid monosodium salt as a chromogenic probe” **Analytical Biochemistry** 2011 [411, Issue 2](#), 300-302
 102. J.-H. Jang, **R. Dinesh***, Y.-U. Kwon, I. Honma, “Direct Preparation of 1-PSA Modified Graphene Nanosheets by Supercritical Fluidic Exfoliation and Its Electrochemical Properties”, **J. Material Chemistry** 2011, 21, 3462-3466 (IF: 5.9)
 103. **Dinesh Rangappa***, K. Sone, T. Kudo and I. Honma “Rapid One-Pot Synthesis of LiMPO₄ (M=Fe, Mn) Nanocrystals by Supercritical Ethanol Process” **Chem. Commun.** 2010, 46, 7548-7550 (IF: 6.16).
 104. **Dinesh Rangappa***, Koji Sone, Mingsheng Wang, Ujjal K. Gautam, Dmitri Golberg, Hiroshi Itoh, Masaki Ichihara and Itaru Honma, “Rapid and Direct Conversion of Graphite Crystal to High Yield and High Quality Graphene via Supercritical Fluid Exfoliation”, **Chemistry A European Journal**, 2010, 16, 22, 6488-6494 (IF: 5.9)
 105. **Dinesh Rangappa***, Tetsuichi Kudo and Itaru Honma, “Directed Growth of Nanoarchitected LiFePO₄ Electrode by

- Solvothermal Synthesis and their Cathode Properties” *Journal of Power Sources*, **2010**, 195, 18, 6167-6171 (IF: 4.9)
106. **Dinesh Rangappa***, T. Naka and T. Adschiri, “Size and Shape Controlled Ba-Hexaferrite Colloidal Nanocrystals by Supercritical Water Hydrothermal Method” *Cryst. Growth & Design*. **2010**, 10(1), pp11–15 (IF: 4.7).
107. A. Shivakumar, **Dinesh Rangappa**, H. Krishna, P. Nagaraja, “Development and kinetic validation of an assay for the quantitative determination of peroxidase: application in the detection of activity in crude plant tissues” *Enzyme and Microbial Technology*, **2010**, 47, 6, 243-248 (IF: 2.6)
108. P. Nagaraja, K. Avinash, A. Shivakumar, **Dinesh Rangappa**, A. K. Shrestha, “Simple and Sensitive Method for the quantification of Total Bilirubin in Human Serum using 3-methyl-2-benzothiazolinone hydrozone hydrochloride as a Chromogenic Probe” *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (2010), 77, 4, 782-786 (IF: 1.6)
109. C. S. Rout, Ujjal K. Gautam, Yoshio Bando, **Dinesh Rangappa**, Xiaosheng Fang, Liang Li, Dmitri Golberg “Facile Hydrothermal Synthesis, Field Emission and Electrochemical Properties of V_2O_5 and $-AgVO_3$ Nanobelts” *Sci. Adv. Mater.* **2010**, 2, 407-412.
110. **R. Dinesh*** M. Ichihara, T. Kudo and I. Honma, “Organic Modified $LiFePO_4/C$ Nanocrystals by Supercritical Fluid Synthesis” *Journal of Power Sources*, 194, 1036–1042 (2009). (IF: 4.9)
111. **Dinesh Rangappa**, Haoshen Zhou, Tetsuichi Kudo, Itaru Honma “Organic Modified $LiFePO_4$ Nanocrystals by Supercritical Water Hydrothermal Synthesis” Meeting Abstracts The Electrochemical Society, 2008.
112. **Dinesh Rangappa***, S. Ohara, T. Naka and T. Adschiri “Synthesis and Surface Modification of Copper Manganese Oxide Nanocrystals Under Supercritical Water Hydrothermal Conditions” *J. Supercritical Fluids*, 44, 3, 441-445 (2008) (IF: 2.85)
113. **Dinesh Rangappa***, T. Fujiwara, T. Watanabe and M. Yoshimura, “Preparation of $Ba_{1-x}Sr_xWO_4$ and $Ba_{1-x}Ca_xWO_4$ Films on Tungsten Plate by Mechanically Assisted Solution Reaction at Room temperature” *Mater. Chem. Phys.* 109, 217-223 (2008) (IF: 2.01)
114. **Dinesh Rangappa**, T. Fujiwara, T. Watanabe and M. Yoshimura, “Fabrication of $AMoO_4$ (A=Ba, Sr) Films on Mo Substrate by Solution Reaction Assisted Ball Rotation” *Materials Research Bulletin*, 43, 3155-3163 (2008) (IF: 1.9)
115. **Dinesh Rangappa**, Satoshi Ohara, Mitsuo Umetsu, Takashi Naka, Tadafumi Adschiri “Synthesis,

- characterization and organic modification of copper manganese oxide nanocrystals under supercritical water” The Journal of Supercritical Fluids, 44, 3, 441- 445, 2008.
116. **Dinesh Rangappa**, Takeshi Fujiwara, Tomoaki Watanabe, Masahiro Yoshimura “Preparation of Ba {sub 1-x} Sr {sub x} WO {sub 4} and Ba {sub 1-x} Ca {sub x} WO {sub 4} films on tungsten plate by mechanically assisted solution reaction at room temperature” U.S. Department of Energy Office of Scientific and Technical Information, 2008
 117. **Dinesh Rangappa**, T.NakaA.Kondo, Masahiko Ishii and T.Adschiri, “Transparent Cobalt Blue Hybrid Nano Pigments by Organic Ligand Assisted Supercritical Water” *J. American Chemical Society*, **129**, 36, 11061-11066, (2007) (IF: 9.9)
 118. **Dinesh Rangappa***, S.Ohara, T.NakaA.Kondo, Masahiko Ishii and T.Adschiri, “Synthesis and Organic Modification of CoAl₂O₄ Nanocrystals under Supercritical Water Hydrothermal Method”, *J. Mater. Chem.* **17**, 4426 – 4429 (2007) (IF: 5.9)
 119. **Dinesh Rangappa**, T.Fujiwara, T.Watanabe and M.Yoshimura “Fabrication of AMO₄ (A=Ba, Sr, Ca, M=Mo, W) Film on MS Substrate by Solution Reaction Assisted Ball Rotation”, *J. Electroceramics*, **17**, 853-860 (2006) (IF: 1)
 120. **Dinesh Rangappa**, T.Fujiwara, and M.Yoshimura “Synthesis of Highly Crystallized BaWO₄ Film by Chemical Reaction Method at Room Temperature” in *Solid State Sciences*, **8**, 1074-1078 (2006) (IF: 1.9)
 121. **R Dinesh**, T Fujiwara, Tomoaki Watanabe, K Byrappa, Masahiro Yoshimura “Solution synthesis of crystallized AMO₄ (A=Ba, Sr, Ca; M=W, Mo) film at room temperature” Journal of materials science, **41**, 5, 1541-1546, 2006
 122. K.Byrappa, A.K.Subramani, S.Ananda, K.M.Lokanatha Rai, **Dinesh Rangappa** and M.Yoshimura, “Photocatalytic degradation of rhodamine B dye using hydrothermally synthesized ZnO” *Bull.Mater.Sci.*, Vol.29, No.5, 433-438. October 2006, Indian Academy of Sciences. (IF: 0.86)
 123. **Dinesh Rangappa**, T.Fujiwara, T.Watanabe, K.Byrappa and M.Yoshimura “Solution Synthesis of Crystallized AMO₄ (A=Ba, Sr, Ca; M=Mo, W) Film at Room Temperature in *Journal of Material Science*, **41**, 1541 (2005) (IF: 1.5)
 124. K.Byrappa, **Dinesh Rangappa**, K.M.L.Rai, and M.Yoshimura Photocatalytic Degradation of Nitroarenes using Activated Carbon/TiO₂ Photocatalyst in *Trans. Materials Research Society of Japan* **29**[5] 2407-2411 (2004)

125. **Dinesh Rangappa** “Fabrication and characterization of alkaline earth tungstates molybdates and titanates films by aqueous solutions processes” Tokyo Institute of Technology, 2004.

Published in National Conference Proceedings:

126. Krushitha Shetty, S.V. Lokesh, **Dinesh Rangappa***, H.P. Nagaswarupa, H. Nagabhushana, K.S. Anantharaju, S.C. Prashantha “*MgFe₂O₄-RGO composite: synthesis, characterization and photocatalytic performance*” at National Conference On Advance Functional Materials” (AFM-2015), 4-6th, DEC 2015 Dayananda Sagar College of Engineering, Bangalore. (Poster)
127. N. Aparna, K.S. Anantharaju, S.V. Lokesh, Prashantha S.C., **Dinesh Rangappa**, H.P. Nagaswarupa “*Sol-gel synthesis of NiFe₂O₄ and its photocatalytic application*” at National Conference On Advance Functional Materials” (AFM-2015), 4-6th, DEC 2015 Dayananda Sagar College of Engineering, Bangalore. (Poster)
128. Yogananda K.C. Vinay Gangaraju, Mahesh Shastri, Suresh Tubaki, Prasanna D.S. Ananda Kumar C.S. Lokesh S.V., **Dinesh Rangappa** “*Carbon aerogel assisted synthesis of limn₂O₄ nanostructure cathode materials*” at National Conference On Advance Functional Materials” (AFM-2015), 4-6th, DEC 2015 Dayananda Sagar College of Engineering, Bangalore. (Poster)
129. M. Navya Rani, S. Anand, **Dinesh Rangappa** “*Biochemically Reduced Graphene Oxide And Silver Nanocomposite And Their Antimicrobial Properties*” at National Conference On Advance Functional Materials” (AFM-2015), 4-6th, DEC 2015 Dayananda Sagar College of Engineering, Bangalore. (Oral)
130. Navya Rani M, Sandya N, Anand S, Ananda Kumar C., Prasanna D.S., Lokesh S.V., **Dinesh Rangappa** “*Phytochemically Reduced Graphene Oxide and Silver Hybrid Nanomaterial and Their Antibacterial Properties*” at National Conference On Advance Functional Materials” (AFM-2015), 4-6th, DEC 2015 Dayananda Sagar College of Engineering, Bangalore. (Poster)
131. Sandeep Reddy Gottam, Sindhu Shree M, Vinay Gangaraju, Navya Rani M, Prasanna D.S., Ananda Kumar C.S., Lokesh S.V., Maheshappa H., **Dinesh Rangappa** “*Synthesis And Characterization Nanostructured Tin Sulfides As*

Photocatalyst”atNationalConferenceOnAdvanceFunctionalMaterials”(AFM-2015),4-6th,DEC2015DayanandaSagarCollegeofEngineering,Bangalore. (Poster)

132. SureshTubaki, NavyaRani M, SV Lokesh, DS Prasanna, CSAnandakumar, H Maheshappa, **Dinesh Rangappa** “Synthesis And Fabrication Of Tio₂ Based Dssc Solar Cell” at National Conference On Advance Functional Materials” (AFM-2015), 4-6th , DEC 2015 Dayananda Sagar College of Engineering, Bangalore. (Poster)
133. Vinay Gangaraju, SindhuSree M, YoganandaK C, Navya Rani M, PrasannaD.S1., Ananda Kumar C.S, Lokesh S.V, Maheshappa H, **Dinesh Rangappa** “Graphene And Zno Based One-Step Energy Conversion And Storage” at NationalConference On Advance Functional Materials” (AFM-2015), 4-6th , DEC 2015Dayananda Sagar College of Engineering, Bangalore. (Poster)
134. Mahesh. Shastri, M NavyaRani ,SV Lokesh, CSAnandaKumar, DS Prasanna, H Maheshappa, **Dinesh Rangappa*** “Microwave Assisted Synthesis Of Zn:Mg Nanorods” at National Conference On Advance Functional Materials” (AFM-2015), 4-6th , DEC 2015 Dayananda Sagar College of Engineering, Bangalore. (Poster)
135. MurthyM, NavyaraniM, YoganandaK.C, Lokesh S.V., PrasannaD.S., AnandaKumar C.S., MaheshappaH, **Dinesh Rangappa** “TiO₂ Coated Reduced Graphene Oxide As Photo Catalyst For The Degradation Of Indigo Carmine Dye.” at National Conference On Advance Functional Materials” (AFM-2015), 4-6th , DEC 2015 Dayananda Sagar College of Engineering, Bangalore. (Poster)
136. NatrajHulsure, Vinay Gangaraju, Mahesh Shastri, YoganandaK.C, Navya Rani M, PrasannaD S, MaheshappaH, **Dinesh Rangappa** Limnp₄/PedotNanocrystalline Cathode Material For Li-Ion Batteries” at National Conference On Advance Functional Materials” (AFM-2015), 4-6th , DEC 2015 Dayananda Sagar College of Engineering, Bangalore. (Poster)

KEY NOTE/PLENARY/INVITED TALKS IN CONFERENCES:

1. **Dinesh Rangappa** “Supercritical Fluid Assisted Synthesis of 2D Heterostructured Materials for Energy Generation and Storage Applications” Nanomaterials Devices and Applications, MRSI-AGM 2021 conclave on 20-23rd December 2021, IITM, Chennai **(Invited Talk)**
2. **Dinesh Rangappa** “Reduced Graphene Oxide-Metal oxide/Sulfide based Heterostructures for Photocatalytic H₂ Generation” International Conference on "SUSTAINABLE ENVIRONMENT, ENERGY AND CONSTRUCTION" (ICSEEC'21) during 16th– 17th December 2021. Hindustan Institute of Technology and Science, Chennai **(Key Note)**
3. **Dinesh Rangappa** “Nanostructured Materials for Energy Storage and Generation Applications” World Energy Conservation Day , IE Kalaburagi Local Centre on 14-12-2021 **(Key Note)**
4. **Dinesh Rangappa** “Nanostructured Materials for Energy Storage and Generation Applications” ATAL FDP on "Fabrication and Characterization of Thin Films for Future Technological Applications“ 17-08-2021 at NIE, Mysuru **(Invited Note)**
5. **Dinesh Rangappa** “Current Status and Future Trends in Nanomaterials and Nanocomposite: 2D Materials” Six Days Short Term Training Programme on “Advanced Research in Nanomaterial and Nanocomposites”, on 20-25 September 2021, PESITM, Shivamogga **(Key Note)**
6. **Dinesh Rangappa** “Nano materials for Energy Storage/Generation Devices: Synthesis, Processing and Challenges” 14h August, 2021, National Webinar, ISAS, Belagavi Chapter **(Invited Note)**
7. **Dinesh Rangappa** “Nanostructured Materials for Li ion Battery Applications” AICTE Training and Learning (ATAL) Academy sponsored virtual FDP on "The Role of Materials in Electric Vehicles" on 11th of June 2021 Dept. of Ceramics & Cement Technology, PDA College of Engineering, Kalaburgi **(Invited Note)**
8. **Dinesh Rangappa** “NANOMATERIALS SYNTHESIS AND APPLICATION” Environmental Science Students, Dhavanagere University 15-02-2021 **(Invited Note)**
9. **Dinesh Rangappa** “NANOTECHNOLOGY IN BIOMEDICAL APPLICATION” Biotechnology Students, Dhavanagere University 10-02-2021 **(Invited Note)**
10. **Dinesh Rangappa** “Advanced Ceramic Nanomaterials: Synthesis, Processing and Application for Energy and Environment” Webinar on “Ceramic Technology as Applied to Mechanical and Material Sciences” at Sambhram Institute of Technology, Bangalore on 21-

11-2020 (Key Note)

11. **Dinesh Rangappa**“Chemistry and Nanotechnology Challenges and Opportunity”Chemical Society, TURRIS and Freshers’ Welcome for the academic session Hindu College, 2020-21(**Invited Note**)
12. **Dinesh Rangappa**“Advanced Nano Ceramic Materials: Synthesis, Processing and Application in Energy and Environment”12th Refresher Course in Material Science, UGC HRD Centre, University of Mysore on 17-12-2020(**Invited Note**)
13. **Dinesh Rangappa**“Vacancy Engineered TiO₂ and its Carbon Nanocomposites for Enhanced Photocatalytic Performance” 12th Refresher Course in Material Science, UGC HRD Centre, University of Mysore on 17-12-2020(**Invited Note**)
14. **Dinesh Rangappa**“Nanotechnology: For Energy storage, Generation and Biomedical Application including protection from Covid-19” Electronics Euphoria – 19-21 August 2020, ALEAP(**Invited Note**)
15. **Dinesh Rangappa**“Nanotechnology as Potential Candidate to Tackle Covid-19 Virus”Weekly Webinar Series , Save The Environment (STE) on 15-08-2020(**Invited Note**)
16. **Dinesh Rangappa**“NANOTECHNOLOGY FOR FIGHTING COVID-19”International Conference on Advances in Materials Chemistry and Industrial Relevance, on 30-07-2020, Department of Chemistry, Rani Chennamma University, Belagavi(**Invited Note**)
17. **Dinesh Rangappa**“NANOMATERIALS FOR COVID-19 AND OTHER BIOMEDICAL APPLICATION”National Conference on Science, Engineering, Management & Architecture 15-07-2020 The Oxford College of Engineering, Bangalore(**Invited Note**)
18. **Dinesh Rangappa**“Vacancy Engineered Brown TiO₂ and RGO Nanocomposites with Enhanced Photocatalytic Performance” International Conference on ENVIRONMENT, WATER, AGRICULTURE, SUSTAINABILITY AND HEALTH (EWASH-2020): EXPANDING OUR VISION POST COVID-19 Save the Environment, New Delhi(**Key Note**)
19. **Dinesh Rangappa**“Advanced Nanostructured Materials for Energy Storage Applications”7h March, 2020, JSS Mysore
20. “Nanostructured Electrode Materials for Energy Storage Applications”11th Feb, 2020, MIT, Mangalore
21. **Dinesh Rangappa**“NANOTECHNOLOGY IN BIOMEDICAL APPLICATION”Department of Biotechnology, PES University 02-02-2019
22. **Dinesh Rangappa**“Nanostructured Electrode Materials for Energy Generation and Storage

- Applications” 107th Indian Science Congress 2020, Jan 05-01-2020, GKVK, Bangalore
23. **Dinesh Rangappa** “Nano-Structured Materials: Synthesis, Processing and Application” Presidency University, Bangalore 14-12-2019, Bangalore
 24. **Dinesh Rangappa** “Synthesis and Processing of Nanostructured Electrode Materials for Energy Generation and Storage Applications” National Conference on Advanced LIB Science & Technology, 27-28, December, 2019, IISc. **(Key Note)**
 25. **Dinesh Rangappa** “Nano-Structured Materials: Synthesis, Processing and Application for Energy Storage and Generation” BMSIT 31-10-2019, Bangalore
 26. **Dinesh Rangappa** “Synthesis and Processing of Nanomaterials” Two Days Workshop on Nanomaterials Synthesis and Characterization, 24-10-2019 Acharya Institute of Technology, Bangalore
 27. **Dinesh Rangappa** “Nano-Structured Ceramic Materials: Synthesis, Processing and Application for Energy and Environment” One Day National Seminar on “Advanced Ceramic Materials for Engineering Applications” on 21st September 2019 at Alva’s Institute of Engineering & Management, Mangaluru. **(Key Note)**
 28. **Dinesh Rangappa** “Synthesis and Processing of Nano-Structured Ceramic Materials for Energy, Health and Environmental Application” One Day National Seminar on “Future Technological Trends in Ceramic Materials” on 21st September 2019 at Sahyadri College of Engineering & Management, Mangaluru **(Key Note)**
 29. **Dinesh Rangappa** “Advanced Functional Nanomaterials, Processing and their Application” Three Days National Level Conference and FDP in Science and Technology, 26-28th March 2019, at ATME College of Engineering, Mysore **(Key Note)**
 30. **Dinesh Rangappa** “Nanotechnology and Applications” 4 Days workshop on Synthesis, Characterization and Device Fabrication 11-09-2019 **(Key Note)**
 31. **Dinesh Rangappa** “Nanotechnology and Applications” Guest Lecture at Department of chemistry CMRIT, Bangalore 03-06-2019 **(Key Note)**
 32. **Dinesh Rangappa** “Van der Waals Heterostructures: Challenges and Opportunities” Faculty Development Program on "Current Research Trends in Applied Physics" on 10/06/2019 at Dept. of Physics, B.M.S. College of Engineering **(Key Note)**
 33. **Dinesh Rangappa** “Advanced Functional Nanomaterials, Processing and their Application” Three Days National Level Conference and FDP in Science and Technology, 26-28th March 2019, at ATME College of Engineering, Mysore **(Key Note)**
 34. **Dinesh Rangappa** “NANOTECHNOLOGY IN BIOMEDICAL APPLICATION”

Department of Biotechnology, PES University 02-02-2019 (**Key Note**)

35. **Dinesh Rangappa** “SuperCriticalFluidProcessforNanostructuredMaterialsandtheir Applications”RecentAdvancesinNanotechnology forSustainableWorld-2018,19-26thJune2018, DSCE, Bangalore (**Key NoteTalk**)
36. **Dinesh Rangappa**,RecentAdvancesinMaterials,Manufacturing&Sustainability,at DSCE, Bangalore 2nd&3rdFeb, 2018. (**InvitedTalk**)
37. **Dinesh Rangappa** “Design, Analysisand DevelopmentIDAD2018, at 22-24thFeb 2018, VelTechRangarajanDr.SagunthalaR&DInstituteof Science& Technology(**KeyNote Talk**)
38. **Dinesh Rangappa** “Application of Nanotechnology in civil and Environmental Engineering”TwodaysNationalConference onRecentTrends inGeo Science,Materials ScienceandCivilEngineering,23-24thMarch2017,ATMECollegeofEngineering, Mysore (**Key NoteTalk**)
39. **Dinesh Rangappa**, ‘NanotechnologyforEnergyStorageApplication’, NationalSeminar onNanotechnologyforEnergy,Environment andHealth,atNIEIT, Mysoreon28thFebruary, 2017 (**InvitedTalk**)
40. **Dinesh Rangappa**ChallengesinElectrodeMaterialsforEnergyStorageApplication, MaterialsScienceSection,104rdIndianScienceCongressheldon3-7thJan2017at SrivenkateswaraUniversity, Thirupathi. (**InvitedTalk**)
41. **Dinesh Rangappa**104rdIndianScienceCongressheldon3-7thJan2017at.(**SessionChair**)at SrivenkateswaraUniversity, Thirupathi.
42. **Dinesh Rangappa**,OpportunitiesandChallengesinNanotechnologyforEnergyStorage Application,14thProf.B.S.SheshadriMemorialLecture,on8thSeptember,2016at CentralCollege,BangaloreUniversity. (**InvitedTalk**)
43. **Dinesh Rangappa**,NanomaterialsEngineering,ProcessingandApplication,atDSCE, Bangalore3rdSeptember,2016.
44. **Dinesh Rangappa** “AdvancedNanomaterialsIssuesandChallengesforEnergyStorage Application”FDPProgrammeonNanoMaterialsforHealth,Energy andEnvironment heldon20-23rdJuly2016atPSGCollegeofTechnologyCoimbatore,TamilNadu. (**InvitedTalk**)
45. **Dinesh Rangappa** “ChemicalSynthesisofNanomaterials”FDPWorkshoponChemical Synthesis of Nano Materials held on 13-16thJuly2016 at SIT Tumkur.(**InvitedTalk**)
46. **Dinesh Rangappa**, DevelopmentofAdvancedCeramicsandFunctionalNanomaterials andTheirApplications,PavanNagpalMemorialAward lecture,IndianCeramic Society

Karnataka Chapter, 16th July, 2016, Bangalore

47. **Dinesh Rangappa**, Advanced Nanomaterials for Energy Storage Applications” FDP Programme on Nano Materials and Nano Composites held on 20-24th June 2016 at MSR IT Bangalore. **(Key Note)**
48. **Dinesh Rangappa** Opportunities and Challenges in Nanotechnology for Energy Storage Application, FDP Workshop on Polymer Based Nanocomposites held on 6-10th June 2016 at BMSCE Basavanagudi, Bangalore. **(Invited Talk)**
49. **Dinesh Rangappa**, “Wealth from Waste Silk Cocoon” Two-day Workshop on Wealth from Waste Organic Dye held on 17th June 2016 by ECSI at IISc Bangalore. **(Invited Talk)**
50. **Dinesh Rangappa**, “Hybrid Nanostructured Materials in Energy Storage Applications” National Conference on Advanced Functional Materials held on 26-28th May 2016 (AFM 2016) CSIR– CECRI, Karaikudi, Tamil Nadu. **(Invited Talk)**
51. **Dinesh Rangappa**, 103rd Indian Science Congress held on 3-7th Jan 2016 at University of Mysore, Mysore. **(Key Note)**
52. **Dinesh Rangappa**, International Conference on Ceramic and Advanced Materials for Energy and Environment held on 14-17th Dec 2015 at Christ University, Bangalore. **(Invited Talk)**
53. National Conference on Advanced Functional Materials held on 4-5th Dec 2015 at DSCE, Bangalore. **(Invited Talk)**
54. National Conference on Research Aspirants of Nanomaterials and Its Applications” (NSRANA-2015), 21-22nd, July 2015, SJCI Institute of Technology, Chikkaballapur. **(Invited Talk)**
55. National Conference on Advanced Materials Research for Device Applications held on 25th Jul 2013 at NMAM Institute of Technology. **(Invited Talk)**
56. Nano Science and nano Technology for Beginners held on 8th May 2013 at Rajarajeswari College of Engineering Bangalore. **(Key Note)**
57. National Conference on Recent Advances in Electronics and Communication Engineering **NCRAECE'13** held on 3rd May 2013 at RNS Institute of Technology. **(Invited Talk)**
58. VTU-International CANEUS Symposium on Aero Space and Energy Sectors (VICAS 2013) held on 19-20th April 2013 at VTU Belgaum. **(Key Note)**
59. Academic Staff College, Nano Science and nano Technology for Beginners held on 29th Dec 2012 University of Mysore, Mysore. **(Invited Talk)**

60. Workshop on Nano-electronics Circuits and Devices held on 10th Dec 2012 at Sapthagiri College of Engineering. **(Key Note)**
61. Workshop on Nano-electronics Circuits and Devices held on 10th Dec 2012 at Sapthagiri College of Engineering. **(Invited Talk)**
62. INSPIRE Program,, Nano Science and nano Technology for Beginners held on 15th Feb 2013 at Sapthagiri College of Engineering. **(Invited Talk)**

BEST POSTER/ORAL PAPER AWARD TO HIS GROUP PRESENTED IN NATIONAL AND INTERNATIONAL CONFERENCES HELD AT VARIOUS PLACES AT INDIA:

- i. “Green Mediated route for synthesis of Mg doped NiFe₂O₄: Photocatalytic & electrochemical Property”, **Aparna N, Nagswaroopa, Dinesh Rangappa**, presented at “Nano @ SIT -2015” held at SIT Tumkuru. On 25th April 2015.
- ii. “Synthesis of LaSrCeFeCoMnO₃ Perovskite and structural & electrochemical Characterization” Manjunath S, **Dinesh Rangappa**. Presented at “National Seminar On Research Aspirants of Nanomaterials and Its Applications”, held at SJCIT, Chikkaballapura, on 21st and 22nd July 2015
- iii. “Self-Charging aqueous flexible Power Cell”, Vinay G, Prasanna D S, **Dinesh Rangappa**. Presented at “National Seminar On Research Aspirants of Nanomaterials And Its Applications”, held at SJCIT, Chikkaballapura on 21st and 22nd July 2015.
- iv. “Synthesis and Characterization of Co and N Doped TiO₂ for Enhanced Photoluminescence property”, Murthy M, Suresh Tubaki, Prashanth C, Nagaswarupa H.P. Lokesh S.V, **Dinesh Rangappa**, presented at International Conference on Nanotechnology- 2016”, Held at VTUM Muddenahalli on 21st–23rd April 2016.
- v. “Advanced Functional Carbon Aerogel Assisted Synthesis Of Limn₂O₄ Nanostructure Cathode Materials”, Yogananda K.C. Vinay Gangaraju, Mahesh Shastri, Suresh Tubaki, Prasanna D.S. Ananda Kumar C.S. Lokesh S.V, **Dinesh Rangappa**, presented at National Conference on held At DSCE, Bangalore, on Dec 4th & 5th 2015.
- vi. “Silk Worm's and its application in Nanotechnology”, Sindhu Shree, **Dinesh Rangappa**, presented at “Nano@SIT-2015” held at SIT Tumkuru. On 25th April 2015.
- vii. “Silk Cocoon-Reduced Graphene Oxide Hybrid Material For Energy Harvesting

- Application", Sindhu Shree, Suresh Tubaki, **Dinesh Rangappa**, presented at International Conference on "Ceramics and Advanced Materials for Energy and Environment" held at Christ University, On Dec 14th-17th 2015.
- viii. "Reduced Graphene Oxide-Silk Cocoon for Energy Harvesting Application" Best Project Award at International Conference on "Ceramics and Advanced Materials for Energy and Environment" Held at Christ University, On Dec 14th-17th 2015. **Sindhu Shree, Dinesh Rangappa**
- ix. "Effect of Aqueous Rice Starch based Gel Electrolyte on the Photovoltaic Performance of Dye Sensitized Solar Cells", Yogananda.K., Easwar Moorthy, Vasantha Kumar, Sajeev Kumar, **Dinesh Rangappa**, Presented at International Conference on Science & Technology: Future Challenges & Solution (STFCS'16) at UoM, Mysuru, 2016
- x. "Synthesis and Characterization of Ceramic $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ (CCTO) and its Application in Flexible Supercapacitor", Karthik KV, Shruthi NS, **Dinesh Rangappa**, Presented at International Conference on Science & Technology: Future Challenges & Solution (STFCS'16) at UoM, Mysuru, 2016
- xi. "Comparative Studies on the Bio-Reduction and The Evaluation of The Anti-Bacterial and Antifungal Activity of Reduced Graphene Oxide/Silver/Zinc Oxide Nano Composite Using Different Medicinal Plants", Navya Rani M, Karthik KV, Murthy.M, Anand S, **Dinesh Rangappa** presented at International Conference on Science & Technology: Future Challenges & Solution (STFCS'16) at UoM, Mysuru, 2016.
- xii. "Fabrication & Characterisation of MoS_2 /RGO 2D Heterostructure and Electrochemical Properties" Murthy M, Manjunath Shetty, Mahesh Shastri, **Dinesh Rangappa** presented at International Conference on Advanced Ceramics and Nanomaterials for Sustainable Development at Christ University 2018.
- xiii. "One pot synthesis of mixed phase ZnMoO_4 /rGO Nanocomposite and application in Li-ion battery anodes" Manjunath Shetty, Saraswathi Kulkarni, Mahesh Shastri, Prasanna D Shivaramu, **Dinesh Rangappa** presented on International Symposium on Nanomaterials 2018 at Visvesvaraya Technological University Muddenahalli.
- xiv. "Sulfur/Mesoporous Carbon Nanocomposite electrodes for Lithium Sulfur Battery Applications" Mahesh Shastri, Manjunath S, Sindhu Shree M, Murthy M, Lokesh SV, **Dinesh Rangappa** presented at International Conference on Emerging

Advancement in Science & Technology & 10th India-Japan Science & Technology Conclave at
Manekshaw Centre, New Delhi, India

- xv. “L-Ascorbic Acid Reduced TiO₂-x for Enhanced Photocatalytic Hydrogen Generation”
Jagadeeshbabu, C.S. Ananda Kumar, Mahesh Shastri, Murthy, Manikanta P. N.,
M.V. Shankar, **Dinesh Rangappa** presented at NANO
ENGINEERING SCIENCE AND RESEARCH ADVANCES (NESARA-2019) at
Visvesvaraya Technological University Muddenahalli.
- xvi. “Synthesis, Characterization and Catalytic performance of Fe₃O₄@MoS
nanoparticles for Reduction of Nitroarenes” Guddappa Halligudra, Chitrabanu C.P, **Dinesh
Rangappa**, Prasanna D. Shivaramu* presented at NANO
ENGINEERING SCIENCE AND RESEARCH ADVANCES (NESARA-2019) at
Visvesvaraya Technological University Muddenahalli.
- xvii. “Antiproliferative activity of copper oxide nanoparticles prepared using Simarouba glauca
and Celastrus paniculatus extract on MCF-7 and HT-29 cell lines” Amulya G, Ismail Shareef. M, S.
M. Gopinath, **Dinesh Rangappa**, Prasanna D presented at NANO ENGINEERING
SCIENCE AND RESEARCH ADVANCES (NESARA-2019) at
Visvesvaraya Technological University Muddenahalli.
- xviii. “Sulfur Nanocomposite electrodes for Lithium Sulfur Battery Applications”
Mahesh Shastri, Manjunath S, Sindhusree M, Murthy M, Lokesh SV, **Dinesh
Rangappa** presented at NANO ENGINEERING SCIENCE AND RESEARCH ADVANCES
(NESARA-2019) at Visvesvaraya Technological University Muddenahalli.
- xix. “Synthesis and Characterization of MgFe₂O₄ for Mg-Ion Battery Application” Vinay G,
Mahesh Shastri, Kunal Roy, Guddappa Halligudra, Prasanna D S, **Dinesh Rangappa** presented
at National Conference on Advanced Ion Lithium-Ion Batteries: Science and Technology,
(NALiBST-2019) at IISc Bangalore (Oral)
- xx. “NiS-RGO Nano hybrid material for Energy Storage Application” Murthy M, Manjunath
Shetty, Mahesh Shastri, **Dinesh Rangappa** presented at National Conference on Advanced Ion
Lithium-Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore (Oral)
- xxi. **Best Students Project Award** at International Conference on Ceramic Advanced
Materials for Energy and Environment (CAMEE 2015), held at Christ University, Bangalore.

PAPERS/ABSTRACT PRESENTED AND PUBLISHED IN CONFERENCES:

1. **Dinesh Rangappa**, *M.K. Devaraju, A. Unemoto, T. Tomai and I. Honma “2D

Li₂MSiO₄ (M=Fe, Mn) Nanosheets Electrodes and their Electrochemical properties” Japanese electrochemical society meeting March 28-31st 2011, Yokohama, Japan. (Oral)

2. Satoshi Mitani, Marappan Sathish, **Dinesh Rangappa**, Atushi Unemoto, Takaaki Tomai, Itaru Honma, “Structure Control of Graphene and Property of High Capacitance” The 51st Battery Symposium in Japan November 9-11th, 2010, Nagoya, Japan. (Oral)
3. **Dinesh Rangappa**, K. Sone, T. Kudo and I. Honma Preparation of the LiMPO₄ (M=Fe, Mn)/Graphene Nanocrystalline Electrodes by Supercritical Ethanol Process and their Electrochemical Properties, 1st Indian scientist association in Japan (ISAJ) Symposium, Tokyo October 2010.
4. **R. Dinesh**, *M.K. Devaraju, A. Unemoto, T. Tomai and I. Honma *Novel Supercritical Hydrothermal Synthesis of LiMPO₄ and LiMSiO₄ nano-crystalline materials and their electrode properties” The 51st Battery Symposium in Japan November 9 -11th, 2010, Nagoya, Japan. (Oral)
5. **Dinesh Rangappa**, Y. Eunjoo and I. Honma, “Synthesis and application of graphene for Li ion secondary battery, Materials Research Society Japan (MRS-J) December 7th-9th Yokohama, Japan (Invited talk)
6. **R. Dinesh**, K. Sone, T. Kudo and I. Honma, “Synthesis of nanocrystalline LiMPO₄ (M=Fe, Mn) electrodes by supercritical ethanol process and their electrochemical properties” in JSPS-DST Asia Academic Seminar held December 8-14 at Yokohama, Japan.
7. **Dinesh Rangappa**, K. Sone, M. Wang, U. Gautam, D. Golberg and I. Honma, “Complete one pot conversion of graphite crystal to high quality graphene via supercritical fluid exfoliation” in Materials Research Society Fall 2009 meeting, December, 29-4th Boston, USA. (Oral)
8. **Dinesh Rangappa**, K. Sone, T. Kudo and I. Honma, Electrochemical Properties of LiMPO₄ (M=Fe, Mn) Nanocrystalline Electrodes by Supercritical Ethanol Process, 50th Battery Symposium in Japan, held at Kyoto, Japan November 30 to December 2 2009 (Oral)
9. **Dinesh Rangappa**, K. Sone, T. Kudo and I. Honma: “Preparation of LiMPO₄ (M=Fe, Mn) Nanocrystalline Electrodes by Supercritical Ethanol Process and their Electrochemical Properties” in 2nd International Conference on Advanced Lithium Batteries for Automobile Applications (ABAA) held at Tokyo, Japan, from 25-28 November 2009

10. **Dinesh Rangappa**, K. Sone, T.Kudo, I.Honma, Rapid One-Pot Synthesis of LiMPO_4 Nanocrystals by Supercritical Ethanol Process, Japanese electrochemical society meeting September 8-11th 2009, at, Higashi Koganei, Tokyo **(Oral)**
11. K. Sone, **Dinesh Rangappa**, T. Kudo, I.Honma, “Nano-Sized Phospho-Olivine LiMPO_4 Synthesized by Supercritical Fluid Method” 4th International conference on Polymer Batteries and Fuel Cells, Yokohama Symposia, Yokohama, Japan August 2-6, 2009. **(Oral)**
12. **Dinesh Rangappa**, K.Sone, T.Kudo, I.Honma, “Solvothermal Synthesis of LiFePO_4 Flower like Microstructure by Nanorods Self-Assembly” 4th International conference on Polymer Batteries and Fuel Cells, Yokohama Symposia, Yokohama, Japan August 2-6, 2009. **(Oral)**
13. **Dinesh Rangappa**, K. Sone, T.Kudo, I.Honma, Rapid One-Pot Synthesis of LiMPO_4 Nanocrystals By Supercritical Ethanol Process, Japanese electrochemical society meeting March 28-30th 2009, at Kyoto. **(Oral)**
14. **Dinesh Rangappa**, K.Sone, T.Kudo and I.Honma “Supercritical Fluid Synthesis of Nanocrystal LiFePO_4 Electrodes for Lithium Secondary Battery” presented in 74th Annual Meeting of the Society of Chemical Engineers Japan, 18-20th March, 2009, Yokohama National University, Japan. **(Oral)**
15. **Dinesh Rangappa**, K.Sone, T.Kudo and I.Honma “Synthesis and Characterization of LiFePO_4 Nano Rods by Supercritical Fluid Method” presented in Annual Meeting of the Ceramic Society of Japan, 16-18th March, 2009 Tokyo University of Science, Noda Japan. **(Oral)**
16. **Dinesh Rangappa**, Tetsuichi Kudo and Itaru Honma, “Novel supercritical fluids synthesis for nanocrystalline LiFePO_4 electrode” presented 58th Japanese Battery Meetings on 5-8, Nov, 2008 at Osaka, Japan. **(Oral)**
17. **Dinesh Rangappa**, Haoshen Zhou, Tetsuichi Kudo and Itaru Honma, “Organic Modified LiFePO_4 Nanocrystals by Supercritical Water Hydrothermal Synthesis” 214th Electrochemical Society meetings, Honolulu, Hawaii, October 12—18th, 2008. **(Oral)**
18. **Dinesh Rangappa**, Haoshen Zhou, Tetsuichi Kudo and Itaru Honma, “Synthesis of nanocrystalline LiFePO_4 electrode via supercritical water method,” presented 14th International Meetings on Lithium Ion Battery on 22-28 June, 2008 in Tianjin China.

19. **Dinesh Rangappa**, Haoshen Zhou, Tetsuichi Kudo and Itaru Honma, “*Synthesis of nanocrystalline LiFePO_4 electrode materials via supercritical water processes*,” **at** Japanese Electrochemical Society spring meetings March 29-31, 2008, Yamanshi, Japan (**Oral**)
20. **Dinesh Rangappa**, S. Ohara, S. Takami, M. Umetsu, T. Naka, A. Kondo, T. Kobayashi, M. Ishii and T. Adschiir “*Synthesis and In-situ surface modification of metal oxides nanoparticles by supercritical water hydrothermal method*” presented (**Oral**) in ISHR&ICSTR-2006, August 5-9, Sendai, Japan.
21. **Dinesh Rangappa**, S. Ohara, S. Takami, M. Umetsu, T. Naka, A. Kondo, T. Kobayashi, M. Ishii and T. Adschiir “*Synthesis and In-situ surface modification of CoAl_2O_4 nanoparticles by supercritical water hydrothermal method*” Nano-2006, August 20-25 Bangalore, India.
22. **Dinesh Rangappa**, S. Ohara, S. Takami, M. Umetsu, T. Naka, A. Kondo, T. Kobayashi, M. Ishii and T. Adschiir “*Synthesis and In-situ surface modification of CoAl_2O_4 nanoparticles by supercritical water hydrothermal method*” Nano-2006, August 20-25 Bangalore, India.
23. **Dinesh Rangappa**, S. Ohara, S. Takami, M. Umetsu, T. Naka, A. Kondo, T. Kobayashi, M. Ishii and T. Adschiir “*Synthesis and organic modification of spinel nanocrystals by supercritical water hydrothermal method*,” presented (**Oral**) in ISSF-2006, November 5-8, Kyoto, Japan.
24. **R. Dinesh**, Takeshi Fujiwara, Tomoaki Watanabe, Kullaiah Byrappa and Masahiro Yoshimura “*Synthesis of crystalline AMoO_4 (A=Ba, Sr, Ca; M=Mo, W) film by chemical reaction method at room temperature*” presented (**Oral**) in ICSTR-6, August 24-27, 2004 Mysore, India.
25. **R. Dinesh**, Takeshi Fujiwara, Tomoaki Watanabe, Anwar Ahniyaz and Masahiro Yoshimura “*Fabrication of ATiO_3 films (A=Ba, Sr) by ball rotation assisted hydrothermal reaction*” presented (**Oral**) in ICSTR-6, August 24-27, 2004, Mysore, India.
26. K. Byrappa, A. K. Subramani, S. Ananda K. M. L. Rai, **R. Dinesh**, M. H. Sunitha, B. Basavalingu and K. Soga, “*Impregnation of ZnO onto activated carbon surface by hydrothermal technique and its application*” presented (**Oral**) in ICSTR-6, August 24-27, 2004 Mysore, India.
27. **R. Dinesh**, Takeshi Fujiwara, and Masahiro Yoshimura “*SYNTHESIS OF HIGHLY CRYSTALLINE ZED FILM IN THE BaWO_4 - $\text{SrWO}_4/\text{CaWO}_4$ SYSTEM ON TUNGSTEN PLATE BY MECHANICALLY ASSISTED INTERF*

- ACIAL REACTION AT ROOM TEMPERATURE” presented (**Oral**) in IUMRS-ICAM 2003, October 8-13, 2003, Yokohama, Japan.
28. **R. Dinesh**, Takeshi Fujiwara, and Masahiro Yoshimura, “DEPOSITION OF $\text{Ba}_x\text{Ca}_{1-x}\text{WO}_4$ AND $\text{Ba}_x\text{Sr}_{1-x}\text{WO}_4$ FILM ON TUNGSTEN PLATE BY MECHANICALLY ACTIVATED INTERFACIAL REACTION AT ROOM TEMPERATURE”, Seventh International Conference on Hydrothermal Reactions (ISHR-7) December 14-18th 2003, Changchun, China.
 29. **R. Dinesh**, Takeshi Fujiwara, and Masahiro Yoshimura, “DEPOSITION OF BaWO_4 FILM ON TUNGSTEN PLATE BY MECHANICALLY ACTIVATED INTERFACIAL REACTION AT ROOM TEMPERATURE” presented in Third International Symposium on Biomimetic Materials Processing (BMMP-3) on January 27-29, 2003, at Nagoya, Japan.
 30. K. Byrappa, **Dinesh Rangappa**, K. M. L. Rai, and M. Yoshimura, “PHOTOCATALYTIC DEGRADATION OF NITROARENES USING ACTIVATED CARBON / TiO_2 PHOTOCATALYST” presented (**Oral**) in IUMRS-ICAM 2003, October 8-13, 2003, Yokohama, Japan.
 31. K. Byrappa, A. K. Subramani, K. M. L. Rai, S. Srikantaswamy, **Dinesh Rangappa**, M. Sathish, M. Yoshimura, “TREATMENT OF TEXTILE EFFLUENT USING PHOTO CATALYTIC ZnO PREPARED UNDER MILD HYDROTHERMAL CONDITION” IUMRS-ICAM 2003, presented (**Oral**) in October 8-13, 2003, Yokohama, Japan.
 32. M. Yoshimura, Y. Gogotsi, K. Byrappa, W. Suchanek, H. Wang, T. Fujino, N. Kumagai, S. Swamy, B. Basavalingu, J. Libera, **D. Rangappa**, J. Calderon-Moreno and T. Watanabe, “HYDROTHERMAL CARBON: SYNTHESIS AND REACTION OF VARIOUS CARBON MATERIALS UNDER HYDROTHERMAL CONDITIONS” Seventh International Conference on Hydrothermal Reactions (ISHR-7) December 14-18th 2003, Changchun, China
 33. Masahiro Yoshimura, Tomoaki Watanabe, Takeshi Fujiwara, Anwar Ahniyaz, and **R. Dinesh**, “DIRECT PATTERNING OF CERAMICS BY LOCALLY ACTIVATED REACTION AT LIQUID-SOLID INTERFACES” 13th presented (**Oral**) in Symposium of Reactivity of Solids, P46-48 (2003)
 34. **Dinesh Rangappa**, Takeshi Fujiwara and Masahiro Yoshimura, “PREPARATION OF HIGHLY CRYSTALLIZED BaWO_4

THIN FILM BY SOLUTION REACTION METHOD AT ROOM TEMPERATURE”, presented (**Oral**) in Fifth International Conference on Solvo-Thermal Reactions, held on July 22-26, 2002 at Rutgers University in the New Brunswick, New Jersey USA.

35. **R. Dinesh**, Takeshi Fujiwara, and Masahiro Yoshimura “ROOM TEMPERATURE FABRICATION OF HIGHLY CRYSTALLIZED BaWO₄ FILM ON TUNGSTEN PLATE BY SOLUTION REACTION” presented in the 8th International Conference on Ceramic Processing Science (ICCP-2002) September 2nd–7th, Technical University of Hamburg-Harburg, Hamburg, Germany.
36. **R. Dinesh**, K. Byrappa, K.M. L. Rai, and M. Yoshimura “PREPARATION OF ACTIVATED CARBON AS PHOTOCATALYSTS SUPPORT BY HYDROTHERMAL TREATMENT AND ITS APPLICATION IN THE DEGRADATION OF DDT AND HCCH”, Second International Symposium on Biomimetic Materials Processing (BMMP-2) on January 15-17, 2002, at Nagoya, Japan.
37. **R. Dinesh**, K. Byrappa, K.M. L. Rai, and M. Yoshimura “IMPREGNATED ACTIVATED CARBON AS PHOTOCATALYST FOR AROMATIC HYDROCARBONS DEGRADATION” presented (**Oral**) in the National Seminar on Environmental hazards-priorities and protection in the 21st century, held at Department of Environmental Science, University of Mysore, Manasagangothri Mysore, on March
38. K. Byrappa, K.M. L. Rai, **Dinesh Rangappa** and M. Yoshimura “PHOTOCATALYTIC DEGRADATION OF NITROARENES USING IMPREGNATED ACTIVATED CARBON”, presented (**Oral**) in the Joint Sixth International Symposium on Hydrothermal Reactions and Fourth International Conference on Solvo-Thermal Reactions, held at Kochi, Japan, on 25-28th July, 2000.
39. K. Byrappa, K.M. L. Rai, **Dinesh Rangappa** and M. Yoshimura “Photocatalytic degradation of Phenols Using Hydrothermally Treated Activated Carbon”, presented in the Joint Sixth International Symposium on Hydrothermal Reactions and Fourth International Conference on Solvo-Thermal Reactions, held at Kochi, Japan, on 25-28th July, 2000.
40. **R. Dinesh**, K. Byrappa, K.M. L. Rai, M. Yoshimura and B. Basavalingu “IMPREGNATED ACTIVATED CARBON AS PHOTOCATALYST FOR ORGANIC WASTE WATER TREATMENT”, International symposium on Soft-Solution Processing (SSP-2000), held at Tokyo Institute of Technology, Ookayama, Tokyo, Japan, on

December 2000.

41. Swathi.P, Dinesh Rangappa*“*NanostructuredanodematerialsforElectrochemical WasteWaterTreatment*”atNational SeminarOnResearchAspirantsOf Nanomaterials AndItsApplications” (NSRANA-2015), 21-22nd, July 2015, SJ C InstituteOfTechnology, Chikkaballapur. (Poster)
42. Shareef J.U, NavyaRani.M,AnandS , Dinesh Rangappa “*Synthesis and characterizationof silver nanoparticles usingpenciliumspecies*”atNational Seminar OnResearchAspirants OfNanomaterialsAndItsApplications” (NSRANA-2015), 21-22nd,July 2015,S JC Institute OfTechnology, Chikkaballapur. (Poster)
43. Sandeep Reddy Gottam, Yogananda.K.C, S.V.Lokesh,Prasanna.D.S, AnandaKumar.C.S, Dinesh Rangappa* “*SynthesisandCharacterizationofZinc Sulfide nanostructuresandtheirapplicationas Photocatalyst*”atNationalSeminar OnResearchAspirantsOfNanomaterials AndIts Applications” (NSRANA-2015),21-22nd, July 2015, SJ C InstituteOfTechnology, Chikkaballapur. (Poster)
44. Aparnan.N,S.V.Lokesh,K.S.Anantharaju, Dinesh Rangappa“*GreenEngineered NanoNiFe₂O₄:Mg²⁺ anditsApplications*” atNationalSeminarOn Research AspirantsOfNanomaterialsAndIts Applications”(NSRANA-2015),21-22nd,July 2015, SJ C InstituteOf Technology, Chikkaballapur. (Poster)
45. Amrutha.V.S,Prasanna.D.S,Lokesh.S.V,AnandaKumar.C.S,Prashantha.S.C, Dinesh Rangappa,Nagaswarupa.H.P“*Photocatalytic, Photoluminescence and ElectrochemicalstudiesofGreensynthesized ZnFe₂O₄.RGONanocomposite*”at National SeminarOnResearchAspirants OfNanomaterials andIts Applications” (NSRANA-2015), 21-22nd,July 2015,S JC Institute OfTechnology, Chikkaballapur. (Poster)
46. Murty.M, Yogananda.K.C, Lokesh.S.V, Prasanna.D.S, Ananda Kumar C.S, Maheshappa.H, Dinesh Rangappa* “*CoandN₂DopedTiO₂Decoratedonreduced GrapheneOxideasa novelphotocatalystfor degradationof Indigocarminedye*”at NationalSeminarOnResearchAspirantsOf NanomaterialsAndItsApplications” (NSRANA-2015), 21-22nd,July 2015,S JC Institute OfTechnology, Chikkaballapur. (Poster)
47. Dinesh Rangappa*“*InorganicNanosheetsasEnergyStorageMaterials*”atNational Seminar OnResearchAspirants OfNanomaterialsAndItsApplications” (NSRANA-2015), 21-22nd,July 2015,S JC Institute OfTechnology, Chikkaballapur. (InvitedTalk)

48. Vinay.G,Prasanna.D.S, AnandaKumar.C.S, Lokesh.S.V, **Dinesh Rangappa***“*Self ChargingaqueousflexiblePowerCell*”atNationalSeminarOnResearchAspirants OfNanomaterials AndIts Applications” (NSRANA-2015), 21-22nd, July 2015, SJ C InstituteOfTechnology, Chikkaballapur.(Poster)
49. Sandhya.V, Yogananda.K.C, NavyaRani.M, Ananda Kumar .C.S, Lokesh.S.V, Prasanna.D.S, **Dinesh Rangappa***“*Hydrothermal synthesis of CoS₂.Graphene nanocompositeand their electrochemicalpropertiesforSupercapacitor application*” atNationalSeminar OnResearchAspirantsOfNanomaterialsAndIts Applications”(NSRANA-2015),21-22nd,July2015,SJCInstituteOfTechnology, Chikkaballapur. (Poster)
50. AshwathNarayana.B.S,Lokeh.S.V,D.S.Prasanna,H.Maheshappa, **DineshRangappa***“*FabricationandCharacterizationoforganicfieldeffecttransistors[OFETs]forgas sensingapplicationsby usinggreenNanoZnOandSnO₂*”atNational SeminarOn ResearchAspirants OfNanomaterials AndItsApplications” (NSRANA-2015), 21-22nd, July 2015, SJ CInstituteOfTechnology, Chikkaballapur. (Poster)
51. NavyaRani.M,AnandS, **Dinesh Rangappa**“*PreparationofreducedGraphene oxide usingPlantextract*”atNationalSeminar OnResearchAspirantsOf Nanomaterials AndItsApplications” (NSRANA-2015), 21-22nd, July 2015, SJ C InstituteOfTechnology, Chikkaballapur. (Oral)
52. KrushithaShetty,S.V.Lokesh, **Dinesh Rangappa**,H.P.Nagaswarupa,H.Nagabhushana, K.S. Anantharaju, S.C.Prashantha“*MgFe₂O₄-RGO composite:synthesis,characterizationandphotocatalyticperformance*”atNational Conference OnAdvanceFunctionalMaterials”(AFM-2015),4-6th,DEC2015Dayananda SagarCollegeofEngineering, Bangalore. (Poster)
53. N.Aparna,K.S.Anantharaju,S.V.Lokesh,PrashanthaS.C.**Dinesh Rangappa**, H.P.Nagaswarupa“*SolgelsynthesisofNiFe₂O₄andItsPhotocatalyticApplication*” atNationalConferenceOnAdvanceFunctionalMaterials”(AFM-2015),4-6th, DEC 2015 DayanandaSagarCollegeofEngineering, Bangalore. (Poster)
54. Yogananda K.C.VinayGangaraju, MaheshShastri, Suresh Tubaki, Prasanna D.S.AnandaKumarC.S.LokeshS.V. **Dinesh Rangappa**“*Carbonaerogelassistedsynthesisofli_mn₂o₄ nanostructurecathodematerials*”atNationalConferenceOn

- Advance Functional Materials”(AFM-2015),4-6th,DEC2015 Dayananda Sagar College of Engineering,Bangalore. (Poster)
55. M. Navya Rani, S. Anand, **Dinesh Rangappa** “*Biochemically Reduced Graphene Oxide And Silver Nanocomposite And Their Antimicrobial Properties*” at National Conference On Advance Functional Materials”(AFM-2015),4-6th,DEC2015 Dayananda Sagar College of Engineering,Bangalore. (Oral)
56. Navya Rani M, Sandya N, Anand S, Ananda Kumar C, Prasanna D.S., Lokesh S.V., **Dinesh Rangappa** “*Phytochemically Reduced Graphene Oxide and Silver Hybrid Nanomaterial and Their Antibacterial Properties*” at National Conference On Advance Functional Materials”(AFM-2015),4-6th,DEC2015 Dayananda Sagar College of Engineering,Bangalore. (Poster)
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 147. MurthyM,ManjunathShetty,MaheshShastri, **Dinesh Rangappa**“Fabricationand Chaacterizationof MoS₂-RGO 2D Heterostructuresandtheir Electrochemical Properties”atInternationalConferenceon ACeND– 2018ChristUniversity Bengaluru (Poster)
 148. Manjunath Shetty,MurthyM,MaheshShastri, PrasannaD S, **Dinesh Rangappa**“One PotSynthesisofReducedGrapheneOxidecoatedhybridBi₂MoO₆nanostructuresand applicationinLi-ion Batteryasanode”atInternationalConferenceonACeND–2018 Christ UniversityBengaluru (Poster)
 149. ChitrabhanuCP,GuddppaH, **Dinesh Rangappa**,PrasannaDS“SynthesisofSilver NanoparticlesMediatedby SimaroubaSaponinsExtractandtheirApplicationinthe catalytic reductionof dyes”atInternationalConference onACeND–2018Christ UniversityBengaluru (Poster)
 150. GuddppaH,ChitrabhanuCP, **Dinesh Rangappa**,PrasannaDS“Synthesisand Characterisationof Catalytic Performance ofFe₃O₄@MoS₂Nanoparticlesfor Reductionof Nitrophenol”atInternationalConference onACeND–2018Christ UniversityBengaluru (Poster)
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 153. Mahesh Shastri, Manjunath S, SindhusreeM, Murthy M, Lokesh S V, **Dinesh Rangappa**“Sulfur/MesoporousCarbonNanocomposite electrodesforLithiumSulfur Battery Applications” presentedatInternationalCnferenceonEmergingAdvancement

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for Reduction of Nitroarenes” presented at NANO ENGINEERING SCIENCE AND RESEARCH ADVANCES (NESARA - 2019) at Visvesvaraya Technological University Muddenahalli. (Poster)

160. Amulya G, Ismail Shareef M, S.M. Gopinath, **Dinesh Rangappa**, Prasanna D S
“Antiproliferative activity of copper oxide nanoparticles prepared using Simarouba glauca and Celastrus paniculatus extract on MCF-7 and HT-29 cell lines” presented at NANO ENGINEERING SCIENCE AND RESEARCH ADVANCES (NESARA -2019) at Visvesvaraya Technological University Muddenahalli. (Poster)
161. Mahesh Shastri, Manjunath S, Sindhusree M, Murthy M, Lokesh S V, **Dinesh Rangappa** “Sulfur Nanocomposite electrodes for Lithium Sulfur Battery Applications” presented at Nano Engineering Science And Research Advances (Nesara -2019) at Visvesvaraya Technological University Muddenahalli. (Poster)
162. Jagadeesh babu, C.S. Ananda Kumar, Mahesh shastri, Murthy, Manikanta P.N., M.V. Shankar, **Dinesh Rangappa** “L-Ascorbic Acid Reduced TiO₂-x for Enhanced Photocatalytic Hydrogen Generation” presented at NANO ENGINEERING SCIENCE AND RESEARCH ADVANCES (NESARA-2019) at Visvesvaraya Technological University Muddenahalli. (Poster)
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164. Murthy M, Manjunath Shetty, Mahesh Shastri, **Dinesh Rangappa** “Preparation of NiS-RGO Nano hybrid material and its Application in Li-Ion Battery Energy storage” presented at NANO ENGINEERING SCIENCE AND RESEARCH ADVANCES (NESARA - 2019) at Visvesvaraya Technological University Muddenahalli. (Poster)
165. Manjunath Shetty, Christianshuessler, Mahesh Shastri, Murthy M, Takaaki Tomai, Prasanna D. Shivaramu, **Dinesh Rangappa** “Synthesis and Characterisation of Bi₂MoO₆ Nanoplates/Reduced Graphene Oxide Composite as Anodes For Lithium-Ion Batteries” presented at Nano Engineering Science And Research Advances (Nesara-2019) at Visvesvaraya Technological University Muddenahalli. (Poster)
166. Ravi Mudike, Chetana S, Prasanna D Shivaramu **Dinesh Rangappa** “Fabrication of CZTS nanocrystals and CZTS-MWCNTs nanocomposites as an efficient photocatalytic

material for Methylene Blue (MB) degradation” presented at Nano Engineering Science And Research Advances (NESARA- 2019) at Visvesvaraya Technological University Muddenahalli. (Poster)

167. Amulya. G, Ismail Shareef. M, S. M. Gopinath, **Dinesh Rangappa**, Prasanna S D Shivaramu “In vivo Copper Oxide Nanoparticles Conjugated Antitumor Activity of Celastrus Paniculatus on Breast Cancer” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
168. Thanuja K. Naganna Gowda, **Dinesh Rangappa**, Navya Rani, Mahesh shastri, Murthy. M “Synthesis and Characterization of Anacardic Acid Encapsulated TiO₂ and ZnO Nanoparticles And Their Biomedical Properties” presented at MATERIALS FOR ENVIRONMENT, SUSTAINABLE SOCIETY AND GLOBAL EMPOWERMENT – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
169. S. Jagadeesh babu, V. Navakoteswara Rao, Mahesh Shastri, Murthy M, Manjunath Shetty, Y. Gambe, I. Honma, Nagaraju G, C.S. Ananda Kumar, Manikanta P.N., M.V. Shankar, **Dinesh Rangappa** “Synthesis and Characterization of visible light active TiO₂-x photocatalyst for Enhanced Photocatalytic Hydrogen Generation” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
170. Chitrabanu C. P., Guddappa Halligudra, **Dinesh Rangappa**, Prasanna D. Shivaramu “Synthesis of Silver Nanoparticles Mediated by Simarouba Saponins and their Catalytic and Biological Applications” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
171. Murthy M, Manjunath Shetty, Mahesh Shastri, **Dinesh Rangappa** “NiS-RGO Nano hybrid material for Energy storage Application” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
172. Pavan K, Kiran K S, **Dinesh Rangappa**, Lokesh S V “Synthesis of Zinc Oxide (ZnO) Nanoparticles by Momordica Charantia Fruit Extract and their Application in the Photocatalytic Degradation of Methylene Blue Dye” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
173. Vinay G, Mahesh Shastri, Kunal Roy, Guddappa Halligudra, Prasanna D S, **Dinesh Rangappa** “MgFe₂O₄ Synthesis and Characterization for Mg-Ion Battery Application”

- presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
174. Manjunath Shetty, Christian schuessler, Mahesh Shastri, Murthy M, TakaakiTomai, Prasanna D. Shivaramu, **Dinesh Rangappa** “Supercritical water Synthesized of Bi₂MoO₆ Nanoplates/Reduced Graphene Oxide Composite as Anodes for Lithium-Ion Batteries” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
 175. Manikanta P N, Kunal Roy, SangramKeshari Sahoo, MA Hasan, Manjunath Shetty, Rajendra A, ArjunDey, **Dinesh Rangappa** “Coating of CNT On polyimide sheet Using Spray Pyrolysis for Space Application” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
 176. Vinay G, Mahesh Shastri, Prasanna D S, **Dinesh Rangappa** “MnFe₂O₄ Synthesis and Characterization for Mg-Ion Battery Application” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
 177. GuddappaHalligudra, Chitrabanu C. P, **Dinesh Rangappa**, Prasanna D. Shivaramu “Synthesis, Characterization and Catalytic performance of Green mediated ZnONPs synthesised using Anethumgraveolensseed extracts for Reduction of Nitroarenes” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
 178. Mahesh Shastri, Manjunath Shetty, Navya Rani M, Murthy M, Vinay G, ChetanS, Sindhusree M, S V Lokesh, **Dinesh Rangappa** “Fabrication of Hierarchical Graphene Sulfur and Its Characteristics Application for Energy Storage System” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
 179. Krushitha Shetty, B.SPrathiba, **Dinesh Rangappa**, H.P.Nagaswarupa, K.S. Anantharaju, Vinay Gangaraju “Comparison Study of Green and Chemical Methods for Synthesis of Nano Spinel MgFe₂O₄ and its application as chemical sensor” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
 180. Navya Rani M, Amulya G, Mahesh G, Murthy M, Govindappa, Ananda S, **Dinesh Rangappa**, Yogesh “The RGO-Ag Nanomaterials Based Nanozyme” presented at Materials

- For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
181. Mahesh G, Navya Rani M, **Dinesh Rangappa** “Phytochemical Activity of RGO-Ag-Tulsi Hybrid Nanomaterials” presented at Materials For Environment, Sustainable Society And Global Empowerment – 2019 (MESSAGE - 2019) at VTU Muddenahalli.
 182. Vinay G, Mahesh Shastri, Kunal Roy, GuddappaHalligudra, Prasanna D S, **Dinesh Rangappa** “Synthesis and Characterization of MgFe_2O_4 for Mg-Ion Battery Application” presented atNational Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.
 183. Manjunath Shetty, Christian schuessler, Mahesh Shastri, Murthy M, TakaakiTomai, Prasanna D. Shivaramu, **Dinesh Rangappa** “ Bi_2MoO_6 Nanoplates/Reduced Graphene Oxide Composites synthesized by Supercritical water as Anodes for Lithium-Ion Batteries” presented atNational Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.
 184. Mahesh Shastri, Manjunath Shetty, Navya Rani M, Murthy M, Vinay G, Chetan S, Sindhusree M, S V Lokesh,**Dinesh Rangappa** “Hierarchical Graphene Sulfur Fabrication and Its Characteristics Application for Energy Storage System” presented atNational Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.
 185. M Sindhu Sree, Mahesh Shastri, Vinay G,Chethan S, Murthy M, Navya Rani,**Dinesh Rangappa** “Silk Cocoon – Carbon Nanomaterials electrode for Battery & Sensing Application” presented atNational Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.
 186. Murthy M, Manjunath Shetty, Mahesh Shastri,**Dinesh Rangappa** “NiS-RGO Nano hybrid materialfor Energy storage Application”presented at National Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.
 187. Krushitha Shetty, B.SPrathiba, **Dinesh Rangappa**, H.P.Nagaswarupa, K.S. Anantharaju, Vinay Gangaraju “Comparison Study of Green and Chemical Methods for Synthesis of Nano Spinel MgFe_2O_4 and its application as chemical sensor” presented at National Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.
 188. Pavan K, Kiran K S, **Dinesh Rangappa**, Lokesh S V “Synthesis of Zinc Oxide (Zno)

Nanoparticles by Momordica Charantia Fruit Extract and their Application in the Photocatalytic Degradation of Methylene Blue Dye” presented at National Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.

189. Manikanta P N, Kunal Roy, SangramKeshari Sahoo, MA Hasan, Manjunath Shetty, Rajendra A, ArjunDey, **Dinesh Rangappa** “Coating of CNT On polyimide sheet Using Spray Pyrolysis for Space Application” presented at National Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.
190. Saraswati Kulkarni, Manjunath Shetty, **Dinesh Rangappa**, RumaGhosh “Methanol Sensing by TiO₂ Nanowires at Room Temperature” presented at National Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.
191. GuddappaHalligudra, Chitrabanu C. P, **Dinesh Rangappa**, Prasanna D. Shivaramu “Synthesis, Characterization and Catalytic performance of Green mediated ZnONPs synthesised using Anethumgraveolensseed extracts for Reduction of Nitroarenes” presented at National Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.
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193. Mahesh G, Navya Rani M, **Dinesh Rangappa** “Phytochemical Activity of RGO-Ag-Tulsi Hybrid Nanomaterials” presented at National Conference on Advanced Ion Lithium Ion Batteries: Science and Technology, (NALiBST-2019) at IISc Bangalore.

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REFERENCES

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DECLARATION

I hereby declare that above given details are true to the best of my knowledge and belief.

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