

Curriculum Vitae

Dr. G. Ravi Kiran

School of Engineering Sciences and Technology,
University of Hyderabad, Hyderabad,
Telangana-500046, India.
Email: rangaravi020@gmail.com



Personal Information

- Name : G.Ravi Kiran
- Date of Birth : 05-05-1988
- Nationality : Indian
- Gender : Male
- Marital Status : Single
- Spoken Languages : English, Telugu(mother tongue), Hindi
- Present address : H.No1-85,PeddaAmberpet,
RangaReddy(District),Telangana-501505.
E-mail: gadderavi1988@uohyd.ac.in
rangaravi020@gmail.com

Mobile: +91-9394143198

Present Position:

Joined as Intern at Indian Institute of Technology (IIT) (8 Oct 2018 – 8 July 2019),
Hyderabad, Kandi, Sanga Reddy, NH-65, Telangana State- 502285, India.

Under: Dr. Amith Acharyya (Associate Professor)

Academic Qualifications

PhD. (2014-2019) *in Materials Engineering*
School of Engineering Sciences and Technology,
University of Hyderabad, Telangana, India.

Thesis Supervisor: Dr. Swati Ghosh Acharyya

Integrated M.Tech- Ph.D. in
Materials Engineering (2011-14) School of
Engineering Sciences and Technology
University of-Hyderabad -Telangana, India
CPI: 7.3/10

B.Tech with Mechanical Engineering (2005-09)
Vignan Institute of Technology and Science,
Telangana- (Affiliated to JNTUH),India
Division/Class: 1st

Research experience

- ◆ **Graphene Synthesis:** I have broad knowledge and experience in synthesis of graphene from various routes i.e. laser synthesis, chemical routes, ultra-sonication etc. I also expertise in preparing the polymer nanocomposites for various applications (corrosion and sensor applications)
- ◆ In addition, I have also worked on 304L and 316 L stainless steel materials to control the cracks on the surfaces of mechanically surface finished samples by applying graphene nanocomposite coatings.
- ◆ **Structural Characterization:** I have expertise on structural characterization using X-ray diffraction. I also have experience on metallographic examinations like optical microscopy, Scanning electron microscopy (SEM), Field Emission Scanning Electron microscopy, Transmission Electron microscopy (TEM). Raman Spectroscopy and FTIR.
- ◆ I have experience in analyzing and performing the corrosion studies in different environments.
- ◆ Basic knowledge in handling ultrafast lasers and fundamentals of laser-matter interactions Single-step fabrication of plasmonic nanomaterials through laser ablation using ultrafast laser pulses.

Skills and Proficiencies

1. **Software's:** Microsoft Office, ChemDraw, Any Windows based software, Origin Pro, Basics of LabVIEW, Autocad, ProE, Basics of Comsol.
2. **Operating Systems:** Windows (98,2000,XP,Vista,7,10)

List of Publications

1. "One-step synthesis of bulk quantities of graphene from graphite by femtosecond laser ablation under ambient conditions" **Gadde R. Kiran**, B. Chandu, Swati G. Acharyya, S. Venugopal Rao & Vadali V. S. S. Srikanth, *Philos Mag Lett.* (2017).
2. "LASER ablation of suspended graphite powder to obtain fewlayered graphene in bulk quantities, **Ravi Kiran Gadde**, Chandu Byram, Swati G. Acharyya, Venugopal Rao Soma,Vadali.V. S.S. Srikanth, *Conference proceeding in NIGIS, CORCON 2017*, 17-20 September, Paper.No:CL25, Mumbai, India.
3. Bulk synthesis of few layer graphene to be applied in corrosion resistant coatings for industrial components, **Ravi Kiran**, B. Chandu, Swati Ghosh Acharyya, S. Venugopal, Tarak Nath De, (manuscript under preparation).
4. Graphene-PVA nano composite coating for protection of mild steel substrates at high temperature, **Ravi Kiran**, B. Chandu, Swati Ghosh Acharyya, S. Venugopal, Tarak Nath De, *Applied Surface Science* (manuscript under preparation).

Patent Filed:

Title: "Process for preparation of multi layer graphene and nano-composites thereof"

Application no: 201911022529 (2019/06/06)

Authors: Swati Ghosh Acharyya, **Gadde Ravi Kiran**, Byram Chandu, Soma Venugopal Rao, Tarak Nath de, Badiganti Veera Sekhar

Conference and Workshop

1. **Ravi Kiran Gadde**, Swati G. Acharyya, “Bulk Synthesis of Few Layered Graphene using ULAL of Graphite under Ambient Conditions” Frontiers in Nanoscience and Technology, 6-7 April 2018, Centre for Nanotechnology, University of Hyderabad.(Poster)
2. Ravi Kiran Gadde, Chandu Byram, Swati G. Acharyya, Venugopal Rao Soma,Vadali.V. S.S. Srikanth, “Bulk Synthesis Of Few-Layered Graphene using ultrafast Laser Ablation Of Graphite”, DAE-BRNS Theme Meeting on Ultrafast Science 2017 (UFS-2017), University of Hyderabad, Hyderabad, November 02-04, 2017. (Poster)
3. Ravi Kiran Gadde, Chandu Byram, Swati G. Acharyya, Venugopal Rao Soma,Vadali.V. S.S. Srikanth, “LASER ablation of suspended graphite powder to obtain fewlayered graphene in bulk quantities” Conference proceeding in NIGIS, CORCON 2017, 17-20 September, Mumbai, India (Oral Presentation).
4. Delivered a talk on Laser assisted fabrication large area graphene at Nuclear Fuel Complex on National Science day – 2016 function on 29th Feb 2016.
5. Ravi Kiran Gadde, Chandu Byram, Swati G. Acharyya, Venugopal Rao Soma,Vadali.V. S.S. Srikanth, “Fabrication of large area graphene on Ni 200 by using laser for corrosion resistance”, International Conference on "Application of Lasers in Manufacturing 2015 (CALM 2015)” on 9-10 September 2015 in New Delhi, in association with Messe Muenchen India and Co-Located with the “Laser World of Photonics India 2015”. (Poster)
6. Participated in two day National seminar on “Metallurgy for Non- metallurgists” organized by T R A Education & Research foundation and Mahatma Gandhi Institute of Technology Hyderabad, during January 29-30, 2015.
7. Participated in the two day National Workshop on “Evaluation and Prevention of Corrosion and Failures- 2012” conducted at School of Engineering Sciences and Technology, University of Hyderabad, Hyderabad during 29-30th November 2012.

Academic Achievements and Extracurricular Activities

1. Awarded cash prize of INR 3,500 for the project on “Fabrication of multifunctional elevator driven by solar energy with 89C51 micro controller” during B.Tech. in 2009.
2. Won second prize in college level carom competition in 2009.
3. Elected as a School Board Member (ABVP) from School of Engineering Sciences and Technology (2014-2015).
4. During Ph.D. University BBL fellowship granted.

In this endeavor of earning my Ph.D., I have worked closely with a team of researchers, professors and learned the values of good lab practices. During my I assisted/helped five(5) M.Tech. Project students in carrying out their project work on “graphene on Nickel substrate using laser irradiation, graphene based polymer nanocomposites (PVA, PVDF), etc.” with my supervisor. We often engage in scientific discussions which has improved our understanding of concepts. We helped each other in setting up the lab, establishing experimental setups and even in manuscript writing and editing. We appreciated every effort of others, either it could be an experimental demonstration in lab or acceptance of work in any peer reviewed journals. We always believe that this mutual help and mutual understanding has led us in progressive directions. Thus, I can firmly say that, I can work well as a team member, team leader and always willing to learn and

update myself with ongoing research as well as contributing to it.

This experience can help me

- **To perform** an active role in teaching and establishment of lab.
- **To assist** in writing manuscripts for the publication, and conference presentation of the results of the research
- **To contribute** to the supervision of Ph.D., Masters students, and undergraduate students at your Institution.

My resume highlights my background and qualifications, my enthusiasm and determination can be revealed during a personal meeting.

Declaration:

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

(Dr. G.RAVI KIRAN)