Koneru Lakshmaiah Education Foundation



(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

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DEPARTMENT OF CHEMISTRY

KLEF/ CHEM / IQAC - STUDENT/ SQ.9/ Alumni Contributions DETAILS OF ALUMNI CONTRIBUTIONS

KL Chem Neon Lights- Alumni Association

Date: 22-03-2021

Time:12:00 PM to 1:00 PM

Link: https://meet.google.com/cti-pvbf-zie

Number of faculty attended: 9

Number of students and scholars attended: 30

Number of Alumni attended: 11

Name of the activity: Guest Lecture by aluminus Dr. Mufsir Kuniyil on "NO-doped graphene

metal oxide nano composites as catalyst for organic transformations."

Summary:

Graphene is considered a promising catalyst candidate due to its 2D nature, single-atom thickness, zero bandgap and very high surface to volume ratio. Further, graphene oxide (GO) has been used as a catalytic support material for metal/metal oxide nanoparticles due to its tunable electrical properties. In addition, its high chemical stability and ultrahigh thermal conductivity may possibly promote high loading of catalytically active sites. This review article focuses on the recent progress in the catalytic applications of GO especially (i) as catalytic-support material (GO/reduced graphene oxide supported metal/metal oxide nanohybrids) for the green synthesis of biologically relevant molecules, (ii) for metal-free catalysis and (iii) for electrocatalysis, with special focus on graphene contribution to catalytic efficiency. The critical overview and future perspectives are also discussed.



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Faculty In Charge

Head of the Department