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ABSTRACT BOOK

International Conference on Recent Advances in Chemical and Biological Sciences

ICRACBS-2022
25-26 September, 2022

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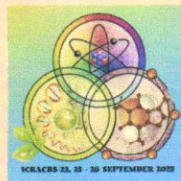


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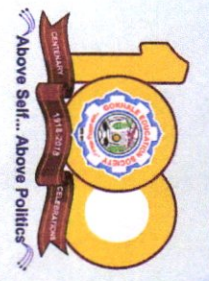
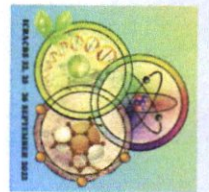
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Certificate

This is to certify that Dr. /Mr. /Ms. Dr. Saksh Gadane of

Reena Mehta College, Bhayander has Participated / Presented paper

entitled Intensivity of plasma & deposition of nanoparticle

under vacuum pressure & its applications in the Two days

International Conference ICRACBS-2022 on 25th and 26th September 2022 organized by IQAC,

Department of Chemistry and Biological Sciences.

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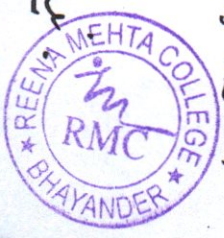
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Intensity Of Plasma And Deposition Of Nanoparticle Under Vacuum Pressure And Its Applications

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Abstract: Deposition of nanoparticles are proportional to the intensity of plasma. Deposition of Nanoparticles under influence of vacuum pressure, argon gas and materials with DC power supply were studied. The material (copper) deposited after bombarding the argon gas with flow rate 10-25 sccm by mass flow controller and power supply from 540V DC source to sputter source which is attached from vacuum chamber. There are different parameter which helps to make stable and intense to plasma inside vacuum pressure with argon gas and power supply. Plasma triggering source can be different design like circular, rectangular and square *etc.* The plasma physics enormously contribute to nanotechnology for obtaining Nanoparticles of different materials like Copper, Aluminum, Titanium, Titanium dioxide (TiO₂), Gold, Silver *etc.* The different materials are used as target can be obtained deposition of materials. Deposition of materials to be used for coating. The coating of materials are obtained from different sputter source. It is used for chip coating and for low power voltage which are used in electronic devices and it is also for growth of Polly and single crystalline. Plasma physics makes easier for Nanoparticle deposition on mobile chip as conductor for minor voltage and used for coating on watches, Glass windows coating for partial transparent glass and for cancer treatment.




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