CURRICULUM VITAE

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Academics

Degree	University	Subject	Year	Class
Ph.D.	Solapur	Chemistry (Nanotechnology**)** Prof. Sharon & Prof. Maldar. (*Registered 1st Jan. 2007*)	2010	September-2010
M.Sc.	Mumbai	Organic chemistry	2000	II **nd**
B.Sc.	Mumbai	Chemistry	1997	I **st**

Professional Experience

Name of company	Position	Nature of work	Period
Polytechnic di Torino, Italy	Research Scientist,	Functionalities based on Bismuth nanostructures	June-2011 till date
Polytechnic di Torino, Italy	Research Scientist,	Epoxy resin composite with CNT and study the mechanical and adhesive properties of the composite on a metal surface for aerospace application.	June-2010 till May-2011
Department of Science and Technology (DST), Nanotechnology research center (NTRC), Model College, Dombivli, MS, India.	Research Fellow	Development of Super capacitor by Carbon nano tube synthesized using plant derived precursors.	September-2009 to May-2010
Genoa University, Italy	Research Scholar	Linear low density polyethylene (LLDPE) Nanocomposite with carbon nano tubes (CNTs) synthesized from waste Polyethylene (PE) Plastic: preparation, performance and characterization.	January-2008 to January-2009
University Grant Commission (UGC), NTRC, Birla college, Kalyan, India	Junior research fellow (JRF)	Developed environment friendly method for conversion of waste polyethylene plastic into Carbon Nano material, Wax and Light Diesel oil (LDO).	May-2007 to December-2008
Arch Pharmalabs Ltd., Taloja MIDC, Raigad.	Executive R&D	Engaged n producing different molecules for drug like Anticancer, antifungal	December-2005 to February-2007
M/s Eurochem Ind. Taloja, MIDC, Raigad.	R&D Chemist & In-charge of ETP & Environment	Manufacturing of commercial Bromine, Sodium Bromide, Hydrobromic acid	December – 2000 to November-2005

Research Activity

1. Objective

Conversion of virgin and waste polyethylene plastic to value added products like Carbon nano material, Wax and Light diesel oil from chemical vapour deposition method with an aim to make the environment clean from waste plastic. Exploit the products applications in various fields like polymer nano composite.

Introduction to Ph.D. research topic

Aim of the research was to study "Conversion of Waste Polyethylene (PE) Plastic with Eco friendly method like Chemical Vapor Deposition (CVD). The process must adopt green chemistry with minimal use of chemicals to form Carbon Nano Material (CNM) and burnable Wax. Emphasis will be laid on making the process environmentally and economically acceptable and Characteristic the products so as to standardize the reproducibility.
The plastic and specifically carry bags (below 20 micron thickness) are not the real problem but lack of proper management of plastics and improper segregation was the root cause of all problems related to plastics. The promise of recycling plastics keeps this hazardous waste industry alive. Hence the objective focuses on Conversion of plastic rather than recycling is selected as the main objective.

2. Objective

Linear low density polyethylene (LLDPE) nanocomposite with carbon nano tubes (CNTs) synthesized from waste Polyethylene (PE) Plastic: preparation, performance and characterization.

Introduction to research work done in Italy

Carbon nano structure (CNT) synthesized from the waste plastic (Ph.D. work) by different methods was used as filler in the virgin LLDPE polymer composite. The filler used as a reference was LLDPE polymer nano composite with CNT commercial (Bayer). Preparation of composite and specimens are made by Micro-extrusion and mini press. Analysis was done with various methods.

Following properties of virgin LLDPE polymer nano composite with Carbon nano structure as filler.

A) Electrical properties.
B) Fire properties.
C) Photo-oxidation properties.

Honors and awards

- **Post doc position in Polytechnic di Torino, Italy** (2010-till date).
  Working on *"Study the mechanical and adhesive properties of nano composite of Epoxy resin and Carbon nano tube"*.

- **Indo-Italian research Scholarship** (**MIUR**), **University of Genova, Italy** (2008-2009).
  Worked on "*Linear low density polyethylene (LLDPE) nanocomposite with carbon nano tube (CNT) synthesized from waste Polyethylene (PE) Plastic: preparation, performance and characterization".*

Research Interest

- Synthesis and application of Carbon nano material.
- Waste Polyethylene plastic treatment and uses of Carbon nano material in Polymer composite
- Study the enhancement and application of Polymer with Carbon nano material.

Professional qualification

- **Diploma in Office Computing** from **Y.C.M.O.U** in the year 1999.

- **WASTE WATER ANALYSIS** Course from '**Advance Training Institute'**,
  Mumbai (Gov. of India) in the year 2002.

QUALITIES

- Enthusiastic, Confident & Energetic with an ability to learn.
- Friendly, Hardworking.

Strengths

- Positive & Result Oriented approach.
- Confident, Persuasive & Realistic.
- Motivator with strong Interpersonal Skills.

References

1) Prof Maheshwar Sharon
Research Director,
Professor Emeritus (CSIR, UGC)
Adjunct Professor (Mumbai University),
NSN Research Center for Nanotechnology and Bionanotechnology,
SICES Degree College of Arts Science and Commerce,
Jambhulpatha, Ambernath (W), 421 505, Maharashtra, India

2) Prof. N.N. Maldar,
Ex. Vice chanceller,
Professor, Chemistry Department,
Solapur University, Kegaon, Solapur.-413 255 (India)

3) Prof. Alberto Tagliaferro,
Chair - Thin Film Division - IUVSTA
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(Pravin V. Jagdale)