

CURRICULUMVITAE



Mr.P.MANOJKUMAR

2/145, Kilakukkadu
Thengalpalayam (PO)
Rasipuram (TK)
Namakkal – 636 301
Tamilnadu, India

Mobile : 9944321999, 8838674545

Email : manojgroupz@gmail.com

Research Expertise:

- Nanostructured materials
- Green synthesis
- Photocatalytic studies
- Energy Applications (Storage and conversion)

Academic Qualifications:

S. No.	Qualification	University/ Institution	Year of Passing	Marks Scored
1.	M.Tech (Nanotechnology)	K. S. Rangasamy college of Technology Tiruchengode, Namakkal	2020	91 %
2.	M.Phil.(Physics)	Thiruvalluvar Government Arts and Science College, Rasipuram, Namakkal	2017	84 %
3.	M.sc,(Physics)	K.S.R College of Arts & Science Tiruchengode, Namakkal	2015	74 %
4.	B.Sc.,(Physics)	K.S.R College of Arts & Science Tiruchengode, Namakkal	2013	60 %
5.	HSC	Govt. Higher Secondary School, Puthupalayam, Rasipuram, Namakkal	2010	66 %
6.	SSLC	Shree Gayathri Higher Secondary School Salem	2008	59 %

Experience Details:

i) Work experience:

Position Held	Name & Place of The Institution	Period	Nature of duties
Technical Staff	Centre for Nanoscience and Technology K.S.Rangasamy college of Technology, Tiruchengode Namakkal.	01 year 02 Months (May2017–June2018) (June2020 –Till date)	Instruments Handling, Research Assistance for Post-doctoral fellows and researchers

As mentioned above, I was working as Technical staff at Centre for Nanoscience and Technology (Anna University approved Centre). Due to this exposure, I am well versed to operate the following instruments.

- Fourier Transform Infrared Spectrometer (FTIR)
- Electrochemical workstation(Autolab)
- X-ray florescence spectrometer (XRF)
- Ball milling
- UV Visible Spectrometer(UV)
- Photoluminescence Spectrometer(PL)
- Particle Size analyzer(DLS)
- Spin Coater
- Spray Pyrolyser

ii) Research experience –Projectworks:03

In M.Tech. : Survey on Newfangled ($\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$) pervoskite cathode material and WSG electrolyte additive in advanced Mg alkaline Battery System

In M.Phil. : Green synthesis and characterization of SnO_2 nanoparticles using *Plantranthous Ambonicus* leave extract using solvothermal process

In M.Sc. : Structural properties of quinoline one based sensitizers for dye-sensitized Solar cell

iii) List of Research Publications:07

1. R. Brindha, R. Mohanraj, **P. Manoj Kumar**, M. Selvam, and K. Sakthipandi (2020) Hybrid Electrochemical Behavior of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ Nano Pervoskite and Recycled Polar Interspersed Graphene for Metal-Air Battery System, *Journal of The Electrochemical Society*, 167:120539
DOI: 10.1149/1945-7111/abb34f
2. A. Balamurugan, **P. Manoj Kumar**, M. Sudha (2020) Anticorrosive applications of mesoporous nickel oxide nanoparticles coated on Zn and Mg surfaces in aqueous electrolyte medium, *Journal of Bio and Tribo corrosion*,
DOI: 7:6010.1007/s40735-021-00492-w
3. K.C. Suresh, **P. Manoj Kumar**, E. Ranjith Kumar, Y A Syed Khadar, A. Balamurugan (2020) Green synthesis of SnO_2 nanoparticles using *Delonix elata* leaf extract: Evaluation of its structural, optical, morphological and photo catalytic properties, *SN Applied sciences* 2:1-13
DOI: 10.1007/s42452-020-03534-z
4. M. Sudha, **P. Manoj Kumar** and A. Balamurugan (2020) Sonochemical synthesis of Nickel doped ZnO Nanostructures for Environmental Remediation, *RESEARCH REVIEW International Journal of Multidisciplinary*,
DOI: 10.5281/zenodo.3832132 (UGC Listed journal)
5. M. Sudha, **P. Manoj Kumar**, A. Balamurugan, Y.A. Syed Khadar (2019) Synthesis and Characterization of Lanthanum added ZnO Nanostructures, *Journal of Information and Computational Science*,
DOI: 10.12733/JICS.2019.V9I12.535569.11243 (UGC Listed journal)
6. M. Sudha, Y.A. Syed Khadar, **P. Manoj Kumar**, A. Balamurugan (2019) Influence of synthesis methods on various properties of Zinc oxide nanostructures, *The International journal of analytical and experimental model analysis*,
DOI: 18.0002.IJAEMA.2020.V12I1.200001.015095 (UGC Listed journal)
7. K. C. Suresh, M Sudha, A. Balamurugan, **P. Manoj kumar**, Y.A. Syed Khadar (2019) ZnO nanoparticles: Biosynthesis and characterization of its Multifunctional property, *Journal of Information and Computational Science*,
DOI: 10.12733/JICS.2019.V9I12.535569.11244 (UGC Listed journal)

Additional Responsibilities:

- **Organizing Committee member** for the DST inspires Programme for school students during 2017-18 organized by Centre for Nanoscience and Technology held at K.S.Rangasamy College of Technology, Tiruchengode (More than 15 Batches).
- **Organizing Committee member** for the International Workshop on Health risk assessment of Nanoparticles held during Sep 11-13, 2017 at K. S. Rangasamy College of Technology, Tiruchengode.
- **Organizing Committee member** for the Science Academies Lecture Workshop on Nanobiotechnology held on Jan 25- 27, 2016 at K. S. Rangasamy College of Technology, Tiruchengode.

Personal Details:

Father : Shri. K. Periyasamy, Driver

Mother : Mrs. P. Suseela, Housewife

Date of Birth & Age : 11.01.1993 & 27

Caste & Religion : BC & Hindu

Marital Status : Single

Languages Known : English & Tamil

Declaration:

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



SIGNATURE

(MANOJKUMAR)

Date :

Place: Namakkal, Tamilnadu