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CURRICULUM VITAE OF Dr.N.NAGENDRA GANDHI

Name : **Dr.N.Nagendra Gandhi**
Position : **Professor**
Year of Experience : 31 years & 8 months (As on June'2019)
Education : Ph.D (Chemical Engg), Anna University, INDIA
M.Tech (Chem. Engg), Anna University, INDIA
B.Tech (Chem. Engg), Anna University, INDIA

Address for Communication

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Employment Record:

Period	Designation and Address	Nature of Job
Jan 2009 – present	**Professor** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching, Research and Administration
Aug 2006 – Dec 2008	**Associate Professor** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching, Research and Administration
Jun 2001 – July 2006	**Assistant Professor** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching, Research and Administration
Aug 1996- May 2001	**Senior Lecturer** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching and Research
Oct 1990- Jul 1996	**Lecturer** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching and Research
Oct 1987 - Sept 1990	**Teaching Assistant** Department of Chemical Engineering A.C.Tech Campus, Anna University, Chennai-600 025	Teaching

Abroad Assignment:

Period	Country Visited	Purpose of visit
Nov – Dec'2007	Kyung Hee University, South Korea	Research Collaboration
Feb-Mar' 2012	Dubai, Abu-Dhabi, Muscat, Qatar, Kuwait	NRI Admissions

Area of Expertise:

- Mass transfer
- Petroleum refinery Engineering
- Environmental Toxicology
- Nano materials and Characterization
- Green Chemistry

Membership of professional bodies:

- **Life Member**: Indian Institute of Chemical Engineers (IICHE), **India**
- **Life Member**: Indian Society for Technical Education, (ISTE), **India**

Awards/Honors:

1. Chairman, IIChE- CRC Elected, 2016
2. Chairman, Local Organizing Committee, CHEMCON 2016 (69 th Annual Conference of Indian Institute of Chemical Engineers)
3. Leadership Award, IIChE, 2016
4. Chief Guest for Annual day/Sports day in Alma Mater. (Two schools and one college ie.Loyola College)
5. Invited to deliver over 100 motivational lectures in schools and colleges

Ongoing Projects:

- **Principal Investigator**, "Development of Acidity sensor for use in aqueous reprocessing streams", BRNS – Rs. 34.135 lakhs
- **Mentor**- " To Study the application of HRP mimics nanozyme (Ruthenium nanoparticles conjugated DNA aptamers) in the development of nanozyme linked apto–sorbent assay (NLASA) for the detection of Mycobacterium tuberculosis antigens", UGC – DSK Post-doctoral fellow- Rs23.60 lakhs.

National /International Collaboration:

National

Name of Institute	Collaborator	Collaboration
NIT- Trichy	Dr.S.Saravanan Associate Professor Chemical Engineering	Extraction of proteins

Theses guided:

Ph.D : 15 & 12 (completed & Ongoing) MS/MTech : 64 (Completed)

PUBLICATIONS

No of Book/Book Chapter written : 1
No of papers published in National journal :
No of papers published in International journal : 93

Book :

K.Balu and N.Nagendra Gandhi, "Questions You Can Expect in Interviews" Anna University, Chennai, India (2006)

List of papers published : 93

Publication Details

1. D.Manikandan, D.Gnanaprakash, J Arun, N.Nagendragandhi, U.Mani and K.Kathiravan, "Antibacterial and anticancer activities of silver nanoparticles biosynthesized using Embelia ribes Burm.f. berries extract, Indian Journal of experimental biology,57,175-180,2019.

2. J.Pramila, J.S.BerilMelbiah, D.Rana, N. NagendraGandhi, A.Nagendran and D.Mohan. "Permeation Characteristics of tailored Poly (m-phenylene isophthalamide) ultra-filtration membranes and probing its efficacy on bovine serum albumin separation" Polymer Testing, 67 pp 218 -227 2018.

3. Manikandan Dhayalan, Michael Immanuel JesseDenison, Manikandan Ayyar, N.N.Gandhi, Kathiravan Krishnan and Baykal Abdulhadi, "Biogenic synthesis, characterization of gold and silver nanoparticles from coleus forskohlii and their clinical importance" Journal of Photochemistry and photobiology,B: Bilogy, 183,251-257 2018.

4. D. Vidhya Lakshmi, L. Anitha Jegadeeshwari, N. Arunodhaya, E. Vasanth Kumar and N. Nagendra Gandhi, "Preparation and characterization of low cost adsorbent from

groundnut foliage by chemical activation" Journal of Environmental Biology,39,400-405,2018.

5. N. Arunodhaya and N. Nagendra Gandhi, "Thermodynamic Aggregation Behaviour of P-Cymene in Hydrotropic Solution" International Journal of Environment and Sustainable Development,17, 258-272,2018.

6. L. Anitha Jegadeeshwari and N. Nagendra Gandhi, "Synthesis of Biogenic Nano-scale Gold products by natural tribes and their inborn antimicrobial activity" International Journal of Environment and Sustainable Development,17, 202-215, 2018.

7. L.Anitha Jegadeeshwari, N.Darathy, E.Vasanth Kumar, D.Vidhyalakshmi and N.Nagendra Gandhi." Tribal plants and their in-born antimicrobial activities" Asian journal of pharmaceutical and clinical research 2017

8. L. Anitha Jegadeeshwari, N. Arunodhaya, E. Vasanth Kumar and N. Nagendra Gandhi. "Effect of hydrotropes on solubility, mass transfer coefficient and thermodynamic properties of the drug meftal spas" , Journal of Chemical and pharmaceutical sciences, Volume 9 (1) 243-249 2016.

9. D.Manikandan, D.Michael Immanuel , L.Anitha Jegadeeshwari, K.Kathirvan and N.Nagendra Gandhi. "In vitro antioxidant, antimicrobial, cytotoxic potential of gold and silver nanoparticles prepared using Embelia ribes" Natural product Research, 31(4) 465-468 2016.

10. D. Manikandan, L. Anitha Jegadeeshwari and N. Nagendra Gandhi. "Biological Activity Sources from Traditionally Used tribe And Herbal Plants Material", Asian journal of pharmaceutical and clinical research, 2015, Vol 8(16).

11. D. Manikandan, D.Gnana Prakash and N.Nagendra Gandhi. "A Rapid and Green Route to synthesis of Silver nanoparticles from Plectrantus Barbatus (Coleus Forskohlii) root extract for Antimicrobial Activity", International journal of ChemTech Research,2014, 4391-4396.

12. D. Manikandan, S.Thenesh Kumar and N.Nagendra Gandhi. "Efficacy of Biosynthesized silver nanoparticles as antimicrobial agent against Staphylococcus barbatus (Coleus Forskohlii) aqueous root extract", Research journal of Chemistry and Environment, 2014, Vol 18(12).

13. Raja C, Sampath Kumar V, Antony Bertie Morais, Nagendra Gandhi N." Quantitative analysis of mebendazole bulk sample using sodium salicylate hydrotropic agent" .International Journal of Current Pharmaceutical Research 2013; 5(2), 93-94

14. Antony Bertie Morais, C.Raja, V.Sampath Kumar, N.Nagendra Gandhi, "New quantitative estimation of famoditine using hydrotropic solubilizing agents",

International Journal of Pharmacy and Pharmaceutical Science Research 2013; 3(2): 58-60.

15. G. Rajasekhar reddy, Antony bertie morais and N. Nagendra Gandhi "Green Synthesis, Characterization and in-vitro Antibacterial Studies of Gold Nanoparticles by Using senna siamea Plant Seed Aqueous Extract at Ambient Conditions" Asian Journal of Chemistry; 2013, 25(15), pp 8541-8544.

16. G. Rajasekhar reddy, Antony bertie morais and N. Nagendra Gandhi "2,2-Diphenyl-1-Picrylhydrazyl Free Radical Scavenging Assay and Bacterial Toxicity of Protein Capped Silver Nanoparticles for Antioxidant and Antibacterial Applications" Asian Journal of Chemistry; Vol. 25, No. 15 (2013), accepted.

17. J. Sivapriya, P. Saravanan, N. Nagendra Gandhi, S. Renganathan "Kinetics and equilibrium uptake on biosorption of acid black 24 using Azolla caroliniana" Indian Journal of Environmental Protection 12/2013; 33(12):1014-1023.

18. M. Reema, P. Saravanan, P. Saranya, N. Nagendra Gandhi, S.Renganathan"Equilibrium and kinetic studies on the removal of acid green 27 dye using positively charged biosorbent Ocimum tenuiflorum Indian Journal of Environmental Protection 01/2013; 33(3):194 - 205.

19. M. Divyamahalakshmi, P. Saravanan, P. Saranya, N. Nagendra Gandhi, S. Renganathan "Phytoaccumulation of Basic Red 23 dye using fresh water submerged live Ceratophyllum demersum plant"Indian Journal of Environmental Protection 01/2013; 33(7):593-601.

20. E. Thiyagarajan, P. Saravanan, S. Shiyamala Devi, N. Nagendra Gandhi, S. Renganathan "Biosorption of reactive red 2 using positively charged Metapenaeus monoceros shells"Journal of Saudi Chemical Society. 01/2013.

21. V. Sampath Kumar, C. Jayakumar, C. Raja and N . Nagendra Gandhi, "Hydrotropic Aggregation Behavior of Butyl Stearate", Chemical and Materials Engineering 1(1), 1-7, 2013

22. K. Ramachandran, T. Suganya, N.Nagendra Gandhi, S. Renganathan"Recent Developments for Biodiesel Production by Ultrasonic Assist Transesterification Using Different Heterogeneous Catalyst: A Review" 2013/6, Renewable and Sustainable Energy, 22,410-418.

23. Antony Bertie Morais, and Nagarajan Nagendra Gandhi, "Hydrotropic effect and thermodynamic analysis on the solubility and mass transfer coefficientt enhancement of ethylbenzene" Korean Journal of Chemical Engineering, DOI: 10.1007/s11814-012-0213 (2013).

24. Suganya, T., Nagendra Gandhi, N., Renganathan, S, "Production of algal biodiesel from marine macroalgae Enteromorpha compressa by two step process: Optimization and kinetic study" Bioresource Technology 128 , pp. 392-400, (2013).

25. P.Sivakumar, S.Sindhanaiselvan, N.NagendraGandhi S.ShiyamalaDevi S.Renganathan, “Optimization and kinetic studies on biodiesel production from underutilized Ceiba Pentandra oil” Fuel,103,693-698,2013.

26. M. Dhinakaran, antony bertie morais and N. Nagendra Gandhi, “Extraction of Vanillin Through Hydrotropy”, Asian Journal of Chemistry; Vol. 25, No. 1 (2013).

27. G. Rajasekhar Reddy, Antony bertie morais and N. Nagendra Gandhi, “Synthesis, Characterization and in-vitro Antibacterial Studies of Gold Nanoparticles by Using senna siamea Plant Seed Aqueous Extract at Ambient Conditions” Asian Journal of Chemistry” Vol. 25, No. 11 (2013)

28. J.Jisha,G.Basker,P.Saravanan, P.Saranya, S.Shyamaladevi, N.Nagendragandhi and S,Renganathan, “Equilibrium and kinetic modeling on biosorption of Acid Red 88 from aqueous solution using Typha latifolia”, Indian Journal of Environmental Protection,33,793-803,2013.

29. D. Gnana Prakash , S. Thenesh Kumar , N. Nagendra Gandhi, “ Enhancement of solubility and mass transfer coefficient of benzoic acid through hydrotropy”, Polish Journal of Chemical Technology, 15,46-50,2013.

30. G.Geoprincy, B.N.Vidhya Srri, U.Poonguzhali, N.Nagendra Gandhi and S.Renganathan, “A review on green synthesis of silver nanoparticles”, Asian Journal of Pharmaceutical and clinical research, 6,8-12,2013.

31. P.Saranya, P.Saravanan, N.Nagendragandhi and S.Renganathan, “Bioremediation of textile dyes using terrestrial and aquatic plants- A Review” Indian Journal of Environmental Protection,35,567-577,2013.

32. Thenesh Kumar .S, Nagendra Gandhi. N, “A study on the properties of hydrotrope solutions for the enhancement of solubility of p-aminobenzoic acid through hydrotropy” International Journal of Pharmacy and Pharmaceutical Sciences 4 (4) , pp. 324-330, (2012).

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35. Dhinakaran.M, Antony Bertie Morais, and Nagendra Gandhi.N Influence of Hydrotrope on Solubility And Mass Transfer Co Efficient Enhancement of Triphenylcarbinole ,Research journal of chemical Science,2(5),31-34, (2012).

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37. G.Geoprincy, N.Nagendra Gandhi, S.Renganathan, “Novel antibacterial effects of alumina nano particles on bacillus cerus and baillus subtilis in comparison with antibiotics” International journal of pharmacy and pharmaceutical sciences; 4,544-548, 2012.

38. Antony Bertie Morais, M.Dhinakaran, and N. Nagendra Gandhi, **“**Hydrotropic effect on the solubility and the mass transfer coefficient enhancement of cyclohexene”, International journal of institutional pharmacy and life science; .2,74-83, 2012.

39. Arunodhaya.N and Nagendra Gandhi. N “Experimental evaluation of flutamide drug using sodium Salicylate hydrotrope “International Journal of Institutional Pharmacy and Life Sciences 2,1-5, 2012.

40. M. Dhinakaran, antony bertie morais and N. Nagendra Gandhi, “Reflection Of Hydrotropy Technique In The Segregation Of 1,1/1,2-Diphenylethane” . African Journal of Basic & Applied Sciences 4 (2): 55-59, 2012.

41. D. Gnana prakash, S. Thenesh kumar and N. Nagendra Gandhi, **“**Enhancement of Solubility and Mass Transfer Coefficient of Cinnamic Acid through Hydrotropy”, Asian Journal of Chemistry; 24, 3582-3586, 2012.

42. Antony Bertie Morais, D.Sreenivasan, G.Rajasekhar Reddy and N.Nagendra Gandhi,“Effect of hydrotropes on solubility and mass transfer coefficient of 1, 2-dichloroethane**”** International Journal of Chemical Engineering and Applied Sciences 2, 6-12, 2012.

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44. C Jayakumar, AP Morais, N Arunodhaya, N.Nagendragandhi, “Solubility enhancement of theophylline drug using different solubilization techniques”, International Journal of Pharmaceutical and Clinical Science,10,7-10, 2012

45. G.Geoprincy, A.Mangala Gowri, N.NagendraGandhi and S.Renganathan, “Cytotoxicity, Antibacterial and Antifungal Effects Of Silver

NanoparticlesSynthesized From The AaviLeaf Extract", International Journal of Engineering Research and Technology,1,1-18, 2012.

46. Saranya.V, Sundari. N, Nagendra Gandhi. N, **"**Quantitative Spectrophotometric Determination Of Phenytoin Sodium Tablets Using Sodium Salicylate As Hydrotropic Solubilizing Agent", International Journal of Universal Pharmacy and Life Sciences 2(2): March-April 2012.

47. P.Saravanan, P.Sivakumar, G.Geoprincy, N.Nagendra Gandhi and S.Renganathan. "Biosorption of Acid Green 1 Using Dried Rhoduturula Glutinis Biomass", Indian journal of Environmental protection, 2012, vol: 32, no: 3 pp 207-214.

48. K.Rakesh, and N.Nagendra Gandhi, "Extraction Studies Through Hydrotropy – L-Tyrosine"**,** International Journal of Chemical Science and Technology 2012; 2(2): 13-19.

49. N.Sundari, T.Radhika, V.Saranya, and N. Nagendra Gandhi,"Quantitative Analysis of Salbutamol Bulk Sample Using Nicotinamide Hydrotrope" International Journal of Pharmacy and Pharmaceutical Science Research 2012; 2(1) 16-19.

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51. Monitha .M, and Nagendra Gandhi .N, "Environmental Toxicology-Assessment and Remediation of Toxic Metals in Soil",International Journal of Environmental Biology 2012; 2(2): 59-66.

52. Karthikeyan K, Nagendra Gandhi N, "Enhancement of Solubility and Mass Transfer Coefficient of Cyclohexane through Hydrotropy", International Journal of Chemical and Analytical Science, 2012, 3(4), 1348-1352.

53. G. Rajasekhar reddy, Antony bertie morais, D.sreenivasan, N.nagendra Gandhi. "Green synthesis, characterization and *in-vitro* antibacterial activity of polyshaped gold nanoparticles by using *senna siamea (lam.)* Plant leaf extract", International Journal of Green chemistry and Bioprocess, 2012, 2(1):1-5.

54. Nagarajan Nagendra Gandhi, Masilamani Dhinakaran, Antony Bertie Morais. "Solubility and Mass Transfer Coefficient Enhancement of Triphenyl Phosphate in Water through Hydrotropy", International Journal Of Institutional Pharmacy And Life Sciences, 2012, 2 (1), 106-115.

55. Gangireddy Rajasekhar Reddy, Nagarajan Nagendra Gandhi, "Environmental Friendly Bio Synthesis and Characterization of silver Nanoparticles by using Senna Saimea Plant Leaf Aqueous Extract", International journal of Institutional Pharmacy and Life Sciences, 2012.

56. P. Saravanan, P. Sivakumar, G. Geoprincy, N. Nagendra Gandhi, S. Renganathan "Biosorption of acid green 1 using dried rhodoturula glutinis biomass" Indian Journal of Environmental Protection 03/2012; 32(3):207-214.

57. J. Jisha, P. Saravanan, N. Nagendra Gandhi, S. Renganathan, "Biosorption of ReactiveBrill Red 5B by Aegle marmelos wood waste biomass", Journal of Engineering Science and Technology, 2012 (Accepted).

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59. M. Dhinakaran, antony bertie morais and N. Nagendra Gandhi, "Enhanced Solubility and separation of of m/p – Aminonitrobenzene using different hydrotropic solution". Science and Technology,2 81-86, 2012.

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61. S.Theneshkumar and N.Nagendragandhi, "Association model of hydrotropy for the effect of hydrotropes on solubility and mass transfer coefficient of acetylsalicylic acid" , Int J Pharm Pharma Sci, 4, 600 – 605,2012.

62. M. Dhinakaran, antony bertie morais and N. Nagendra Gandhi, "Reflection Of Hydrotropy Technique In The Segregation Of O/P-Dibromobenzene". Chemical Science Transactions (Accepted).

63. S.Divya(A)Kalpana,Citra Kalyanaraman and N.Nagendra Gandhi" Application of H_2O_2 and UV/H_2O_2" processes for enhancing the Biodegradability of Reactive Black 5 Dye" journal of environmental science and engineering; Vol53,No.3(2011).

64. G. Geoprincy, P. Saravanan, N. Nagendra Gandhi, S. Renganathan, "A novel approach for studying the combined antimicrobial effects of silver nanoparticles and antibiotics through agar over layer method and disk diffusion method", Digest Journal of Nanomaterials and Biostructures, 38 Oct – Dec 2011, Vol 6, No. 4, 1557-1565 (2011) 4113-4117.

65. J. Kalpana, P. Saravanan, N. Nagendra Gandhi and S. Renganathan, "Equilibrium modelling on biosorption of basic violet 1 dye using Calotropis gigantea biomass", Indian Journal of Environmental protection. Vol.31, No. 10, 825-832, 2011.

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