



**Dr. P. BOOMI**  
**Assistant Professor**

## Contact

Address	:	Department of Bioinformatics
	:	Alagappa University
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Date of Joining	:	04.12.2015 AN
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## Academic Qualifications: M.Sc., M.Phil., Ph.D

- B.Sc, Chemistry, Madurai Kamaraj University, 2003
- M.Sc-Chemistry, Alagappa University, Karaikudi, 2007.
- M.Phil-Industrial Chemistry, Alagappa University, Karaikudi, 2008.
- Ph.D –Chemistry, Alagappa University, Karaikudi, September, 2014.

## Teaching Experience: 04. 12. 2015 to till date

## Research Experience: 04. 12. 2015 to till date

## Additional Responsibilities:

S.No.	Position - Dept. of Bioinformatics	Organization
1	Co- Coordinator, coaching for competitive exams (NET/SET/GATE/BINC etc.) (Dec-2016 to May-2017)	Alagappa University
2	Co- Coordinator, Industry Linkage (Dec-2016-till date)	Alagappa University
3	Co- Coordinator, IQAC (July- 2017- till date)	Alagappa University
4	Co- Coordinator, VVP/NSS (July-2017 till date)	Alagappa University
5	Co- Coordinator, Remedial coaching class (Dec-2016 to May-2017)	Alagappa University
6	Member, Employability skills/career guidance (Dec-2016 to till date)	Alagappa University
7	Member, Purchase Committee (Dec-2016-till date)	Alagappa University
8	Member, Research Committee (Dec-2016-till date)	Alagappa University
9	Member, Curriculum Development	Alagappa University
10	Member, Examination Board	Alagappa University

## Areas of Research

Material Chemistry, Environmental Chemistry, Electro Analytical Chemistry, Nano material synthesis, polymer synthesis, Electrochemistry, Bio-inorganic chemistry, Self assembled nanoparticles synthesis using small molecules, nano drug delivery, Antimicrobial activity and Anticancer activity.

## Extension activities

1. Short Term Course on Professional Enrichment, (STC-2017), (07.08.2017-13.08.2017) College of Education, Alagappa University, Karaikudi
2. Short Term Training program on Research Publication and Anti-Plagiarism (09.10.2017-15.10.2017), Department of English and Foreign Languages and Centre for Technical and Academic Writing, Alagappa University, Karaikudi.
3. 100<sup>th</sup> Orientation program (15.11.2017-12.12.2017), UGC-HRDC, Bharathidasan University, Thiruchirappalli.

## Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	-	-
	M.Phil.	-	1
Project	PG	6	2
	Diploma	1	-

## Publications

International		National		Others
Journals	Conferences/workshops	Journals	Conferences/Workshops	Books/Book chapters
13	18	-	25	1

**Cumulative Impact Factor (as per JCR) : 44.918**

**h-index : 6**

**i10 index : 6**

**Total Citations : 238**

## Distinctive Achievements /Award

1. **JRF**-Project Assistant -CSIR, CECRI, Karaikudi (06.04.2009 to 05.10.2009)
2. Best research paper Award presented in seminar on Application of Nanotechnology, in current agricultural practices, Dr.Zahir Husain College, Ilayankudi (2011).
3. **Junior Research Fellow**- (UGC-BSR, New Delhi)-Alagappa University, Karaikudi (08.02.2011 to 08.02.2013)
4. **Senior Research Fellow**- (UGC-BSR, New Delhi)-Alagappa University, Karaikudi, (09.02.2013 to 26.09.2014)
5. **Research Associate**-HRDG-CSIR, New Delhi, CECRI-Karaikudi (01.10.2015 to 03.12.2015).

## Events organized in leading roles

1. Organizing Committee Member in 8<sup>th</sup> National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design"[SBCADD'2016], at Alagappa University, Karaikudi.

2. Organizing committee member in 9<sup>th</sup> National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2017], at Alagappa University, Karaikudi.
3. Organizing committee member in 10<sup>th</sup> National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2018], at Alagappa University, Karaikudi.
4. Organizing committee member in 11<sup>th</sup> National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2019], at Alagappa University, Karaikudi.
5. Chair session in National Conference on Advance Materials for Sustainable Energy and Sensors (NCAMSES-2019), at Department of Physics, Alagappa University, Karaikudi, 20<sup>th</sup> - 22<sup>nd</sup> March, 2019.

### **Events participated in International (Conferences, Seminars and symposiums)**

1. International conference on “Frontiers in Chemical Science”, Madras Christian College, Chennai, October, 2<sup>nd</sup>-4<sup>th</sup>, 2008.
2. International conference on “Materials for the Millennium” (MATCON-2010), Cochin University of Science and Technology, Kerala, January, 11<sup>th</sup>-13<sup>th</sup>, 2010.
3. International conference on “Nanomaterials and Nanotechnology” (NANO-2010), K.S.R. Technology, Trichangode, December, 13<sup>th</sup>-16<sup>th</sup>, 2010.
4. International conference on “Advanced Materials and its Applications” (ICAMA-2011), Kalasalingam University, Krisnankovil, March, 4<sup>th</sup>-5<sup>th</sup>, 2011.
5. International conference on “Advanced Polymeric Materials” (APM-2011), CIPET, Chennai, March, 25<sup>th</sup>-27<sup>th</sup>, 2011.
6. International conference on “Recent Advance in Textile and Electrochemical Sciences” (RATES-2013), Alagappa University, Karaikudi, March, 21<sup>st</sup>-23<sup>rd</sup>, 2013.
7. International Conference on “Recent Trends in Biosciences”, Dept. of Biotechnology, Alagappa University, Karaikudi, April, 7<sup>th</sup>-9<sup>th</sup>, 2016.
8. International Conference on “Recent Trends in Microbiology”, Department of Microbiology, Alagappa University, karaikudi, December, 7<sup>th</sup>-8<sup>th</sup> 2016.

9. International Conference on “Frontier Areas in Chemical Technologies”, Department of Industrial Chemistry, Alagappa University, Karaikudi, July, 6<sup>th</sup>-8<sup>th</sup>, 2017.
10. India-UK Second International Conference on Advanced Nanomaterials for Energy, Environmental and Healthcare Applications (ANEH-2019), Bishop Heber College & Swanseya University, United Kingdom, Tiruchirappali, 4<sup>th</sup> – 6<sup>th</sup>, Feb, 2019.
11. Third Asian Conference on Science, Technology & Medicine (ACSTM-2019), Carlton Palace Hotel, Deira Dubai, UAE, 12<sup>th</sup> -14<sup>th</sup>, Feb, 2019.
12. Sixth Annual Conference 2019 of the Asian Council of Science Editors (ACSE), Carlton Palace Hotel, Deira Dubai, UAE, 12<sup>th</sup> -14<sup>th</sup>, Feb, 2019.
13. International Conference on Nanomedicine (ICON)- 2019, School of Chemistry & School of Biotechnology, Madurai Kamaraj University, Madurai-21, TN-India 25 & 26 Feb, 2019.
14. International Conference on Recent Advances in Material Science (ICRAMS-2019), PG & Research Department of Physics, National College, Tiruchirappali, 04<sup>th</sup>-06<sup>th</sup>, Feb, 2019.

### **Events participated in National (Conferences, Seminars and symposiums)**

1. National seminar on “Application Oriented nanomaterials” (NANOMAT-2005), Alagappa University, Karaikudi, March, 10<sup>th</sup>-11<sup>th</sup>, 2005.
2. National seminar on “Recent Advance in Textile and Electrochemical Sciences” (RATES-2008), Alagappa University, Karaikudi, December, 19<sup>th</sup>-20<sup>th</sup>, 2008.
3. National symposium on “Importance of nanoscience and technology” (INST-2009), Alagappa University, Karaikudi, March, 14<sup>th</sup>-15<sup>th</sup>, 2009.
4. National conference on “Recent Advance in Textile and Electrochemical Sciences” (RATES-2009), Alagappa University, Karaikudi, December, 4<sup>th</sup>-5<sup>th</sup>, 2009.
5. National seminar on Application of “Nanotechnology in current Agricultural Practices” (NANO FARM-2011), Department of Biology, Dr. Zakir Husain College, Ilayangudi, February, 9<sup>th</sup>-10<sup>th</sup>, 2011.
6. National conference on “Recent Trends in Green Synthesis” (RTGS-2011), Alagappa University, Karaikudi, August, 5<sup>th</sup>-6<sup>th</sup>, 2011.

7. Conference on “Recent Advance in Textile and Electrochemical Sciences” (RATES-2012), Alagappa University, Karaikudi, March, 22<sup>th</sup>-23<sup>th</sup>, 2012.
8. 8<sup>th</sup> National Symposium cum workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” Dept. of Bioinformatics, Alagappa University, Karaikudi, February 16<sup>th</sup>-19<sup>th</sup>, 2016.
9. National Seminar on “Nanomaterials for Specialized Applications” (NMSA-2017) & “World Standards day” Dept. of Nanoscience and Technology, Alagappa University, Karaikudi February, 9<sup>th</sup>-10<sup>th</sup>, 2017.
10. One day conference on “Exploring Commercialization of Biosensor In India”, Department of Bioelectronics, and Biosensor, Alagappa University, Karaikudi, March, 14<sup>th</sup> 2017.
11. One day National Conference on “Recent Trends in Microbiology” (NCTM-2017), September, 27, 2017. Department of Microbiology, Alagappa University, Karaikudi
12. 10<sup>th</sup> National Symposium cum workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” 20<sup>th</sup>-23<sup>th</sup>, February, 2018, Dept. of Bioinformatics, Alagappa University, Karaikudi.
13. One day workshop on Design and Development of MOOCs for the Faculty Members of Alagappa University and Affiliated Colleges, 8<sup>th</sup> November, 2018. Alagappa University, Karaikudi.
14. First Two days National Workshop on Indigenous Cow Management and their Value Added Products (ICMVAP-2K18), Department of Animal Health Management, Alagappa University, Karaikudi, 18<sup>th</sup> & 19<sup>th</sup> December, 2018.
15. DST sponsored National Conference on Nanomaterials (NCT-2019), Department of Physics, LRG Government Arts College for Women, Tirupur, 24<sup>th</sup> -25<sup>th</sup>, Jan, 2019.
16. Proceeding of the National Conference on Space Astronomy and Nanomaterials, Department of Physics, Idhaya College for Women, Sarugani, 11<sup>th</sup> Feb, 2019.
17. 11<sup>th</sup> National Symposium cum workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” Dept. of Bioinformatics, Alagappa University, Karaikudi, 12<sup>th</sup>-15<sup>th</sup>, February, 2019

## **Events participated in International Workshops**

1. Workshop on “Second international advanced functional Materials” (SIWAN-2013), Anna University, Chennai, January, 28<sup>th</sup>-30<sup>th</sup>, 2013.
2. India-Japan Workshop on “Biomolecular Electronics and Organic Nanotechnology for Environment Preservation” (IJWBME-2013), Delhi Technical University, Delhi, December, 13<sup>th</sup>-15<sup>th</sup>, 2013.
3. Workshop on international “Frontier Areas in Chemical Technologies” (FACTs-2014), Alagappa University, Karaikudi, February, 21<sup>st</sup>-22<sup>nd</sup>, 2014.
4. International Workshop on “Data Science and Analysis, Department of computer science”, Alagappa University, Karaikudi, September, 27<sup>th</sup>-28<sup>th</sup>, 2016.

## **Events participated in National Workshops**

1. National workshop on “Green Chemistry”, Alagappa University, Karaikudi, March, 31<sup>st</sup>, 2008
2. National workshop on “Green process techniques for industrial application” (GREPTIA-2009), Alagappa University, Karaikudi, March, 20<sup>th</sup>-21<sup>st</sup>, 2009
3. Workshop on “Electroanalytical Techniques”, Alagappa University, Karaikudi, October, 11<sup>th</sup>-13<sup>th</sup>, 2010.
4. State level workshop on “Structural Solving by Powder X-ray Diffraction” (SLWSSP-XRD-2011), Alagappa University, Karaikudi, July, 26<sup>th</sup>-27<sup>th</sup>, 2011.
5. Workshop on “Characterization Techniques” (NWCT-1, 2012), Alagappa University, Karaikudi, March, 24<sup>th</sup>-26<sup>th</sup>, 2012.
6. Workshop on Recent Trends in Electrochemistry, CSIR-CECRI, Karaikudi, April, 28<sup>th</sup>, 2011.
7. Two day lecture workshop on “Green Chemistry”, Alagappa University, Karaikudi, September, 20<sup>th</sup>-21<sup>th</sup>, 2013.
8. Four days workshop on “Commercialization Prospects of Microbial Formulates”, Department of Microbiology, Alagappa University, Karaikudi. 22<sup>th</sup>-25<sup>th</sup> January 2018.

## Overseas Exposure / Visits

1. Dubai, Deira-(2019)

## Membership in professional / national / international bodies

1. Life member: BIDDs (Bioinformatics Drug Discovery Society), Tamil Nadu, Karaikudi.

## Reviewer for Journals

1. RSC Advances (RSC)
2. New Journal of Chemistry (RSC)
3. Journal of Inorganic and Organometallic Polymers and Materials (Springer)
4. Journal of Photochemistry & Photobiology, B: Biology (Elsevier)

## Resource persons in various capacities

1. Invited lecture on Synthesis of Metal Nanoparticles and Polymer Based Metal Nanocomposite for Biomedical Application, Bishop Heber College & Swanseya University, United Kingdom, Tiruchirappali, 4<sup>th</sup> – 6<sup>th</sup>, Feb, 2019.
2. Invited resource person for Science Exhibition, Seventh day Matriculation School, Paramakudi, 8<sup>th</sup> Feb, 2019

## List of publications

1. **P. Boomi**, G. Poorani, S.Palanisamy, S. Selvam, G. Ramanathan, S. Ravikumar, H. Barabadi, H. Gurumallesh Prabu, J. Jeyakanthan, M. Saravanan, **March, (2019)**, Evaluation of Antibacterial and Anticancer Potential of Polyaniline-Bimetal Nanocomposites Synthesized from Chemical Reduction Method, **Journal of Cluster Science**, Accepted DOI:Org/10.1007/s10876-019-01530-x, **1-12 (I.F. 1.715)**.
2. M. Anandan, G. Poorani, **P. Boomi**, K. Varunkumar, K. Anand, A. Anil Chuturgoon, M. Saravanan, H.Gurumallesh Prabu, **February, (2019)**, Green synthesis of anisotropic silver nanoparticles from the aqueous leaf extract of *Dodonaea viscosa* with their Antibacterial and Anticancer activities, **Process Biochemistry**, Accepted, DOI: Org/10.1016/j.procbio.2019.02.014, **(I.F.2.616)**.



3. **P. Boomi**, R.M. Ganesan, G. Poorani, H. Gurumallesh Prabu, S. Ravikumar, J. Jeyakanthan, **January**, (2019), Biological synergy of greener gold nanoparticles by using *Coleus aromaticus* leaf extract, **Materials Science & Engineering C**, **99**, 202–210 (I.F. 5.08).
4. R, Anjali, S. Palanisamy, M. Vinosha, M. Thenmozhi, P. Rajasekar, T. Marudhupandi, P. Kumar, **P. Boomi**, N.M. Prabhu, **August**, (2018), Phyto-mediated synthesis of silver nanoparticles using fucoidan isolated from *Spatoglossum asperum* and assessment of antibacterial activities, **Journal of Photochemistry & Photobiology, B: Biology**, **185**, 117–125 (I.F-3.165).
5. **P. Boomi**, J. Anandha Raj, S.P. Palaniappan, G. Poorani, S. Selvam, H. Gurumallesh Prabu, P. Manisankar, J. Jeyakanthan, V.K. Langeswaran, **January**, (2018), Improved conductivity and antibacterial activity of poly(2-aminothiophenol)-silver nanocomposite against human pathogens, **Journal of Photochemistry & Photobiology B: Biology**, **178**, 323–329. (I.F-3.165).
6. M. Balaji, S. Jegatheeswaran, P. Nithya, **P. Boomi**, S. Selvam, M. Sundrarajan, **January**, (2018), Photoluminescent Reduced Graphene Oxide Quantum Dots from Latex of *Calotropis Gigantea* for Metal Sensing, Radical Scavenging, Cytotoxicity, and Bioimaging in *Artemia Salina*: A Greener Route, **Journal of Photochemistry & Photobiology, B: Biology**, **178**, 371-379 (I.F-3.165).
7. S. Selvam, B. Balamuralitharan, S. Jegatheeswaran, Mi-Young Kim, S.N. Karthick, J. Anandha Raj, **P. Boomi**, M. Sundrarajan, K. Prabakar, Hee-Je Kim, (2017), “Electrolyte imprinted graphene oxide-Chitosan chelate with copper crosslinked composite electrodes for intense cyclic stable flexible supercapacitors”, **Journal of Materials Chemistry A**, **5**, 1380-1386 (IF: 9.931).
8. Arivoli Appavu, Sathiamoorthi Thangavelu, Satheeshkumar Muthukannan, Joseph Sahayarayan Jesudoss, **P. Boomi**, (2016), “Study of Water Quality Parameters of Cauvery River Water, in Erode Region”, **Journal of Global Biosciences**, **5**, 4556-4567 (ISSN:2320-1355).

9. **P. Boomi**, H. Gurumallesh Prabu, P. Manisankar, S. Ravikumar, (2014), “Study on Antibacterial activity of Chemically Synthesized PANI-Ag-Au nanocomposite”, *Applied surface Science*, **300**, 66-72. (I.F: 4.439).
10. **P. Boomi**, H. Gurumallesh Prabu, J. Mathiyarasu, (2014), “Synthesis, characterization and antibacterial activity of polyaniline/Pt-Pd nanocomposite”, *European Journal of Medicinal Chemistry*, **72**, 18–25. (I.F: 4.816).
11. **P. Boomi**, H. Gurumallesh Prabu, J. Mathiyarasu, (2013), “Synthesis and characterization of polyaniline/Ag–Pt nanocomposite for improved antibacterial activity”, *Colloids and Surfaces B: Biointerfaces*, **103**, 9-14. (I.F: 3.997).
12. **P. Boomi**, H. Gurumallesh Prabu, (2013), “Synthesis, characterization and antibacterial analysis of polyaniline/Au-Pd nanocomposite”, *Colloids and Surfaces A: Physicochem. Eng. Aspects*, **429**, 51–59. (I.F: 2.829).
13. S. Ravikumar, R. Gokulakrishnan, **P. Boomi**, (2012), “In vitro antibacterial activity of the metal oxide nanoparticles against urinary tract infectious bacterial pathogens”, *Asian Pacific Journal of Tropical Disease*, **2**, 85-89.

#### Book Chapter

1. Polyaniline: Mono- and Bi-Metal Composite H. Gurumallesh Prabu, **P. Boomi**, (2015), “Encyclopedia of Biomedical Polymer and Polymeric Biomaterials”, Taylor & Francis (Encyclopedia of Biomedical Polymers and Polymeric Biomaterials), 6089-6100, (DOI: 10.1081/E-EBPP-120049948)