

NAME: P.BOOMI
DESIGNATION: ASSISTANT PROFESSOR

**Contact** 

Address : Department of Bioinformatics

Alagappa University, Karaikudi, Tamil Nadu, India

Employee Number : 34404

Contact Phone (Office) : +91 4565 230346

Contact Phone (Mobile) : +91 9486031423

Contact e-mail(s) : <u>pboomi1983@gmail.com</u>, <u>boomip@alagappauniversity.ac.in</u>

## Academic Qualifications

Degree	Institution	Year	Branch	Class
B.Sc.,	Madurai Kamaraj University	2003	Chemistry	First
M.Sc.,	Alagappa University	2007	Chemistry	First
M.Phil	Alagappa University	2008	Industrial	First
			Chemistry	
Ph.D	Alagappa University	2014	Chemistry	Highly Recommended

## **Teaching Experience**

Total Teaching Experience : 8 Years 3 Months

Position	Institution	Duration
Assistant Professor	Alagappa University	2015-Till Date

## Research Experience

Total Research Experience : 8 Years 3 Months

Position	Institution / University	Duration
Research Associate	HRDG-CSIR, CECRI, Karaikudi	01.10.2015 to 03.12.2015
Assistant Professor	Alagappa University, Karaikudi	04.12.2014- Till date

## **Academic and Additional Responsibilities**

S.No	Position	University Bodies	Pe	eriod
			From	То
1	Book Club	Alagappa University	2018	Till Date
2	Equal Opportunity Cell	Alagappa University	2022	Till Date
3	Book Talk Program	Alagappa University	2022	Till Date
4	National Service Scheme	Alagappa University	2023	Till Date
5	ALUTES Event Co-ordinator	Alagappa University	2023	Till Date
6	ALAGU AARAM Event Co-ordinator	Alagappa University	2022	Till Date
7	Campus Infrastructure Facilitating	Alagappa University	2023	Till Date
	committee			

### **Areas of Research**

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

### **Patents Filed**

- Bio Feed for Aquaculture
- A Process for Extraction of Copper Oxide Nanoparticles using Green Synthesis

Research Supervision / Guidance						
Program	of Study	Completed	Ongoing			
	PDF	-	-			
Research	Ph.D	-	3			
	M.Phil	1	-			
	PG	26	-			
Project	UG / Others	-	4			

### **Publications**

Inte	International		ational	Others	
Journals	Conferences	Journals Conferences		Books / Chapters / Monographs / Manuals	
44	23	-	28	Book 1, Chapters-3 and Patent 2	

Cumulative Impact Factor (as per JCR) : 182
h-index : 24
i10 index : 34
Total Citations : 1834

## **Funded Research Projects**

## **Ongoing Projects:**

S.No Agency Period		riod	Project Title	Budget	
5.110	rigency	From	To	Troject Title	(Rs. In lakhs)
1	DST-SERB (SURE)	2023	2025	Mechanistic Investigation Involved in the Development of Hybrid Self- Assembly Prodrug Targeting Breast Cancer	27.90
2	RUSA-2.0	2018	2024	Greener synthesis of glutathione-metal oxide nanocomposite and its <i>in vitro</i> antibacterial and anticancer activities	12.00

## **Distinctive Achievements / Awards**

- Promising Researcher Award-2022, Alagappa University, Karaikudi, Tamil Nadu, India, (05.11.2022)
- Quality of Enhancement in Teaching and Research Award, ALU-RUSA 2.0, Alagappa University, Karaikudi, Tamil Nadu, India, (12.01.2021)
- Vallal Alagappar Research Recognition Award, Alagappa University, Karaikudi, Tamil Nadu,

- India, (12.01.2021)
- Young Visiting Researcher Award with Rs. 25000 cash prize-School of Biological and Food Engineering, Anyang Institute of Technology, Henan province, China, (25.10.2019)
- Research Associate-HRDG-CSIR, New Delhi, CECRI-Karaikudi (01.10.2015 to 03.12.2015)
- Senior Research Fellow-(UGC-BSR, New Delhi)-Alagappa University, Karaikudi, (09.02.2013 to 26.09.2014)
- Junior Research Fellow-(UGC-BSR, New Delhi)-Alagappa University, Karaikudi (08.02.2011 to 08.02.2013)
- Best presentation for research paper-Presented in seminar on Application of Nanotechnology, in current agricultural practices, Dr. Zahir Husain College, Ilayangudi (09-10<sup>th</sup>. 02.2011).
- Junior Research Fellow-Project Assistant-CSIR, CECRI, Karaikudi (06.04.2009 to 05.10.2009)

### **Events organized in leading roles**

Number of Seminars / Conferences / Workshops / Events organized:

Position	Programme	Duration	Institution
Organizing Committee	8 <sup>th</sup> National Symposium cum	2016	Department of
Member	Workshop on "Recent Trends in		Bioinformatics, Alagappa
	Structural Bioinformatics and		University, Karaikudi
	Computer Aided Drug		
	Design"[SBCADD'2016]		
Organizing Committee	9 <sup>th</sup> National Symposium cum	2017	Department of
Member	Workshop on "Recent Trends in		Bioinformatics, Alagappa
	Structural Bioinformatics and		University, Karaikudi
	Computer Aided Drug		
	Design"[SBCADD'2017]		
Organizing Committee	10 <sup>th</sup> National Symposium cum	2018	Department of
Member	Workshop on "Recent Trends in		Bioinformatics, Alagappa
	Structural Bioinformatics and		University, Karaikudi
	Computer Aided Drug		
	Design"[SBCADD'2018]		
Chair session	National Conference on Advance	2019.	Department of Physics,
	Materials for Sustainable Energy		Alagappa University,
	and Sensors (NCAMSES-2019),		Karaikudi
Organizing Committee	International Conference on	2019	Department of
Member	Recent Structural Bioinformatics		Bioinformatics, Alagappa
	and Computer Aided Drug Design		University, Karaikudi
	(ICSBCADD 2019),		
Chair session	International Conference on	2019	Department of
	Recent Structural Bioinformatics		Bioinformatics, Alagappa
	and Computer Aided Drug Design		University, Karaikudi
	(ICSBCADD 2019),		
Chair session	International Conference on	2022	Department of
	Recent Structural Bioinformatics		Bioinformatics, Alagappa
	and Computer Aided Drug Design		University, Karaikudi
	(ICSBCADD 2022),		

# **Events Participated**

# **Events participated & presented in International Conferences, Seminars and symposiums**

S.No	Name of the conference, place and title	Date	Paper presented/ participated
1.	International conference on Frontiers in Chemical Science, Madras Christian College, Chennai.  Synthesis and Characterization of Poly(2-aminothiophenol)/Ag composite.	Oct. 2 <sup>nd</sup> -4 <sup>th</sup> , 2008	Presented
2.	International conference on Materials for the Millennium (MATCON-2010), Cochin University of Science and Technology, Kerala.  Synthesis, Characterization and application of TiO <sub>2</sub> for degradation of dyes.	Jan. 11 <sup>th</sup> -13 <sup>th</sup> , 2010	Presented
3.	International conference on Nanomaterials and Nanotechnology (NANO-2010), K.S.R. Technology, Trichangode.  Synthesis and Characterization of Polyaniline-ruthenium composite.	Dec. 13 <sup>th</sup> -16 <sup>th</sup> , 2010	Presented
4.	International conference on Advanced Materials and its Applications (ICAMA-2011), Kalasalingam University, Krisnankovil.  Synthesis and Characterization of Polyaniline Platinum- nanocomposite.	March, 4 <sup>th</sup> -5 <sup>th</sup> , 2011	Presented
5.	International conference on Advanced Polymeric Materials (APM-2011), CIPET, Chennai.  Synthesis and Characterization of Polypyrrole Platinum- nanocomposite.	March, 25 <sup>th</sup> -27 <sup>th</sup> , 2011	Presented
6.	International conference on Recent Advance in Textile and Electrochemical Sciences (RATES-2013), Alagappa University, Karaikudi.  Synthesis and Characterization of Polyaniline-Palladium nanocomposite.	March, 21 <sup>st</sup> -23 <sup>rd</sup> , 2013	Presented
7.	International Conference on Recent Trends in Biosciences, Dept. of Biotechnology, Alagappa University, Karaikudi.  Improved anticancer activity of Polyaniline-metal nanocomposite against Human Hepatocellular (HepG2) carcinoma cell line.	April, 7 <sup>th</sup> -9 <sup>th</sup> , 2016	Presented
8.	International Conference on Recent Trends in Microbiology, Department of Microbiology, Alagappa University, Karaikudi.  Phytochemical screening and antimicrobial activity of Cucumisanguria L. Leaves.	Dec.7 <sup>th</sup> -8 <sup>th</sup> 2016	Presented
9.	International Conference on Frontier Areas in Chemical Technologies, Department of Industrial Chemistry, Alagappa University, Karaikudi.  Synthesis and characterization of silver	July, 6 <sup>th</sup> -8 <sup>th</sup> , 2017	Presented

	nanoparticles conjugate with antibiotics and its enhanced antibacterial activity.  Ionic liquid –assisted one-step synthesis of rGO/MnCO <sub>3</sub> composite for High performance super capacitor electrode.	di di	
10.	Third Asian Conference on Science, Technology & Medicine (ACSTM-2019), Carlton Palace Hotel, Deira Dubai, UAE.  Polyaniline-Bimetal Nanocomposite with its Potential Anticancer Activity against Human hepatocellular carcinoma (HepG2) cell line.	Feb.12 <sup>th</sup> -14 <sup>th</sup> , 2019	Presented
11.	Sixth Annual Conference 2019 of the Asian Council of Science Editors (ACSE), Carlton Palace Hotel, Deira Dubai, UAE.	Feb. 2 <sup>th</sup> -14 <sup>th</sup> , 2019	Participated
12.	International Conference on Nanomedicine (ICON)-2019, School of Chemistry & School of Biotechnology, Madurai Kamaraj University, Madurai.  Antiviral activity of greener Lycopene conjugated with metal nanocomposite for the management of Dengue.	Feb. 12 <sup>th</sup> -14 <sup>th</sup> , Feb, 2019	Presented
13.	International Conference on Recent Advances in Material Science (ICRAMS-2019), PG & Research Department of Physics, National College, Tiruchirappali.  Investigation of the Structural, Optical and Surface Morphological Properties Mn doped ZnS nanoparticles.	Feb. 04 <sup>th</sup> -06 <sup>th</sup> , 2019	Presented
14.	International Conference on Applied Nanoscience and Technology (ICANN-2019), Department of Nanoscience Technology, Alagappa University, Karaikudi	March, 18 <sup>th</sup> & 19 <sup>th</sup> , 2019	Participated
15.	International Conference on Bioplastics (BIOP 2019), Department of Microbiology, Alagappa University, Karaikudi	April, 2 <sup>nd</sup> , 2019	Participated
16.	International Conference on Frontier Areas in Chemical Technologies-2019, School of Chemical Sciences, Department of Industrial Chemistry, Alagappa University, Karaikudi.  Synthesis and applications of gold nanoparticles using fenugreek seed extract with their antibacterial, UV protection and anticancer	July, 25 <sup>th</sup> and 26 <sup>th</sup> , 2019	Presented
17.	International Conference on Recent Advances in Applied Chemical Sciences (ICRAACS), Department of Chemistry, Sree Sevugan Annamalai College, Devakottai.  In Silico Study on Molecular Dynamics Simulation of Self assembled nanoparticles against Chikungunya viral disease.  Development of Novel Self Assembled	Sep. 6 <sup>th</sup> , 2019.	Presented

	Amphiphilic Twin Drugs Nanocarriers by using in silico approach		
18.	International Conference on Recent Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD 2019), Department of Biinformatics, Alagappa University, Karaikudi. Pharmacoinformatic Exploration of MMP inhibitor for the treatment of Diabetic Retinopathy from Pinus pinaster Phytoligands. Identification potent novel antiviral compound through the computational method.	Dec. 11 <sup>th</sup> -13 <sup>th</sup> , 2019	Presented
19.	International conference on Emerging Trends in Materials for Energy and Biomedical Applications, Department of Science and Humanities, Thalavapalayam, Karur.  E-Pharmacophore based Virtual screening for deigning a potential inhibitor for FlmH protein	07 <sup>th</sup> March, 2020	Presented
20.	International conference on Emerging Trends in Materials for Energy and Biomedical Applications, Department of Science and Humanities, Thalavapalayam, Karur.  Identification of novel Potent inhibitor against Alzheimer Disease by using Pharmacophore Modeling approaches	07 <sup>th</sup> March, 2020	Presented
21.	International Webinar Series on "Application of Bioinformatics in drug design-(COVID-19)", Department of Biotechnology, KIT, Coimbatore.	May 13 <sup>th</sup> 2020	Participated
22.	Three Days International Virtual Seminar on "The Role of Nanotechnology Against COVID 19" Department of Nanoscience and Technology, Alagappa University, Karaikudi.	May 20-22 <sup>nd</sup> 2020	Participated
23.	International Webinar Series on "Gene and Drug Delivery Systems for Therapeutic Applications", School of Chemical and Biotechnology, SASTRA Deemed to be University	May 29 <sup>th</sup> 2020	Participated
24.	International Virtual Conference on Engineering, Medical, Biomedical and Biological Sciences, SynBiogenica Labs, India, ACE international; Pte Ltd, Singapore  Development of novel amphiphilic twin drug through the <i>in silico</i> approach against breast cancer	October 24 <sup>th</sup> -26 <sup>th</sup> 2020	Presented
25.	8 <sup>th</sup> International Symposium on Computational Biology, Bioinformatics & Ayur Informatics, University of Kerala.  An In silico approach of computationally designed anticancer twin-drug against breast cancer	January 6-8 <sup>th</sup> 2022	Presented

# **Events participated in International Workshops**

S.No	Name of the conference and place	Date	Paper presented/ participated
1.	Workshop on Second international advanced functional Materials (SIWAN-2013), Anna University, Chennai,	Jan. 28 <sup>th</sup> -30 <sup>th</sup> , 2013	Participated
2.	India-Japan Workshop on Biomolecular Electronics and Organic Nanotechnology for Environment Preservation (IJWBME-2013), Delhi Technical University, Delhi,	Dec. 13 <sup>th</sup> -15 <sup>th</sup> , 2013	Participated
3.	Workshop on international Frontier Areas in Chemical Technologies (FACTs-2014), Alagappa University, Karaikudi,	Feb. 21 <sup>st</sup> -22 <sup>nd</sup> , 2014	Participated
4.	International Workshop on Data Science and Analysis, Department of computer science, Alagappa University, Karaikudi	Sep. 27 <sup>th</sup> -28 <sup>th</sup> , 2016	Participated
5.	International Workshop on Biomedical applications in Translational Research (BATR-2019) Department of Biomedical Science, Alagappa University, Karaikudi	June, 6 <sup>th</sup> & 7 <sup>th</sup> , 2019	Participated

## **Events participated/presented in National Conferences, Seminars and symposiums**

S.No	Name of the conference and place	Date	Paper presented/ participated
1.	National seminar on Application Oriented	March, 10 <sup>th</sup> -11 <sup>th</sup> ,	
	nanomaterials (NANOMAT-2005), Alagappa	2005.	Participated
	University, Karaikudi.		
2.	National seminar on Recent Advance in Textile and	Dec. 19 <sup>th</sup> -20 <sup>th</sup> ,	
	Electrochemical Sciences (RATES-2008),	2008.	Participated
	Alagappa University, Karaikudi.		
3.	National symposium on Importance of nanoscience	March, 14 <sup>th</sup> -15 <sup>th</sup> ,	
	and technology (INST-2009), Alagappa University,	2009.	Participated
	Karaikudi		
4.	National seminar on Application of	Feb. 9 <sup>th</sup> -10 <sup>th</sup> , 2011	
	Nanotechnology in current Agricultural Practices		
	(NANO FARM-2011), Department of Biology, Dr.		<b>D</b> 1
	Zakir Husain College, Ilayangudi.		Presented
	Synthesis and characterization of		
	polypyrrole/Ruthenium nanocomposite.		
5.	National conference on Recent Trends in Green	Aug. 5 <sup>th</sup> -6 <sup>th</sup> , 2011	
	Synthesis (RTGS-2011), Alagappa University,		
	Karaikudi.		Presented
	Chemical synthesis of Palladium nanoparticles		

	stabilized by 1-Butyl-3-methylimidazolium		
6.	tetrafluoroborate ionic liquid.  Conference on Recent Advance in Textile and Electrochemical Sciences (RATES-2012), Alagappa University, Karaikudi.	March, 22 <sup>th</sup> -23 <sup>th</sup> , 2012	Participated
7.	8 <sup>th</sup> National Symposium cum workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design, (SBCADD, 2016) Dept. of Bioinformatics, Alagappa University, Karaikudi.  Toxicity of Au and Au-Pt metal nanoparticles against cancer cell lines (HepG2): Recent insights from in vitro study.	Feb. 16 <sup>th</sup> -19 <sup>th</sup> , 2016	Presented
8.	National Seminar on Nanomaterials for Specialized Applications (NMSA-2017) & World Standards day Dept. of Nanosciecne and Technology, Alagappa University, Karaikudi.	Feb. 9 <sup>th</sup> -10 <sup>th</sup> , 2017	Participated
9.	One day conference on Exploring Commercialization of Biosensor In India, Department of Bioelectronics, and Biosensor, Alagappa University, Karaikudi.	March, 14 <sup>th</sup> 2017	Participated
10.	One day National Conference on "Recent Trends in Microbiology (NCTM-2017), Department of Microbiology, Alagappa University, Karaikudi.	Sep. 27 <sup>th</sup> , 2017	Participated
11.	10 <sup>th</sup> National Symposium cum workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD 2018) Dept. of Bioinformatics, Alagappa University, Karaikudi.	Feb. 20 <sup>th</sup> -23 <sup>th</sup> , 2018	Participated
12.	DST sponsored National Conference on Nanomaterials (NCT-2019), Department of Physics, LRG Government Arts College for Women, Tirupur.  Ionic Liquid Assisted Green synthesis and Characterization of strontium cerium mixed oxide nanoparticles using plant and its as antibacterial and antioxidant properties.  Studies on the effect of Fe doped MgO nanoparticles by co-precipitation method.  Preparation and transition metal doped SnO <sub>2</sub> nanoparticles synthesis by co-precipitation method	2019	Presented
13.	Proceeding of the National Conference on Space Astronomy and Nanomaterials, Department of Physics, Idhaya College for Women, Sarugani.  A greener approach to synthesize gold nanoparticles for multi-functional finishing of	Feb, 11 <sup>th</sup> , 2019	Presented

	cotton fabric and anticancer activity			
14.	11 <sup>th</sup> National Symposium cum workshop on Recent	Feb.	$12^{th}$ - $15^{th}$ ,	
	Trends in Structural Bioinformatics and Computer	2019		
	Aided Drug Design (SBCADD 2019) Dept. of			
	Bioinformatics, Alagappa University, Karaikudi.			
	Study on molecular docking and dynamics using			Presented
	computaional approach for protein pkb-			Tresented
	potential target in stomach cancer.			
	E-pharmacophore based virtual screening and			
	molecular dynamic to identify syk inhibitors			
	glioblastoma.			
15.	National Conference on Advanced Materials for	March,	$20^{\text{th}}$ - $22^{\text{th}}$ ,	Participated
	Sustainable Energy and Sensors, Dept. of Physics,	2019		
	Alagappa University, Karaikudi.			

# **Event participated in National Workshops**

S.No	Name of the conference and place	Date	Paper presented/ participated
1.	National workshop on Green Chemistry, Alagappa University, Karaikudi	March, 31 <sup>st</sup> , 2008	Participated
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	Participated
3.	Workshop an Electroanalytical Techniques, Alagappa University, Karaikudi	Oct. 11 <sup>th</sup> -13 <sup>th</sup> , 2010	Participated
4.	Workshop on Recent Trends in Electrochemistry, CSIR-CECRI, Karaikudi	April, 28 <sup>th</sup> , 2011	Participated
5.	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	Participated
6.	Workshop on Characterization Techniques (NWCT-1, 2012), Alagappa University, Karaikudi	March, 24 <sup>th</sup> -26 <sup>th</sup> , 2012	Participated
7.	Two day lecture workshop on Advance Chemistry, Alagappa University, Karaikudi	Sep. 20 <sup>th</sup> -21 <sup>th</sup> , 2013	Participated
8.	World Animal Day celebration, Department of Animal Health and Management, Alagappa University, Karaikudi	Oct. 4 <sup>th</sup> , 2017	Participated
9.	Four days workshop on Commercialization Prospects of Microbial Formulates, Department of Microbiology, Alagappa University, Karaikudi	Jan. 22 <sup>th</sup> -25 <sup>th</sup> 2018	Participated
10.	One day workshop on Design and Development of MOOCs for the Faculty Members of Alagappa University and Affiliated Colleges, Alagappa	Nov. 8 <sup>th</sup> , 2018.	Participated

	II.''. IZ'1 1'		
	University, Karaikudi.		
11.	First Two days National Workshop on Indigenous	Dec.18 <sup>th</sup> & 19 <sup>th</sup> ,	
	Cow Management and their Value Added Products	2018	
	(ICMVAP-2K18), Department of Animal Health		<b>Participated</b>
	Management, Alagappa University, Karaikudi.		
12.	One day Workshop on Practicing Nai Talim,	Sep. 3 <sup>rd</sup> , 2019	
	Experimental Learning, Community Engagement		<b>Participated</b>
	and Vocational Education, Alagappa University		
	College of Education & Centre for Gandhian		
	Studies, Alagappa University, Karaikudi		
13.	One day Workshop on Water conservation,	Nov. 22 <sup>nd</sup> , 2019	
	Department of Microbiology, Alagappa University,		Participated
	Karaikudi.		

#### **Extension activities**

- 1. Refresher Course, UGC-HRDC, Bharathidasan University, Thiruchirappalli, from 16.07.2019 to 29.07,2019.
- 2. 100<sup>th</sup> Orientation program, UGC-HRDC, Bharathidasan University, Thiruchirappalli, from 15.11.2017 to 12.12.2017.
- 3. Short Term Training program on Research Publication and Anti-Plagiarism Department of English and Foreign Languages and Centre for Technical and Academic Writing, Alagappa University, Karaikudi from 09.10.2017 to 15.10.2017.
- **4. Short Term Course** on Professional Enrichment, (STC-2017), College of Education, Alagappa University, Karaikudi, from **07.08.2017** to **13.08.2017**.
- **5. Faculty Development Program** Webinar on "Intellectual Property Rights and its Commercial Aspects" Department of Chemistry, Tamil Nadu fisheries University, Nagapattinum, **23.05.2020**.
- **6. Refresher Course**, UGC-HRDC, Bharathidasan University, Thiruchirappalli, from **27.07.2023 to 09.08.2023.**

### Overseas Exposure / Visits

- Dubai, Deira-(Feb, 2019)
- China, Henan Province, Henan City-(Oct, 2019)

### **Membership**

#### **Professional Bodies**

- 1. Life member: BIDDS (Bioinformatics Drug Discovery Society), Tamil Nadu, Karaikudi.
- **2.** Senior Member: Chemical, Biological& Environmental Engineering Society (HKCBEES), Hong Kong, (Member NO.: 101762)

### **Advisory Board**

Year / Period	Name of the BoS / AdministrativeCommittee /	
	Academic Committee	
2015 till date	Member, Board of studies in the Department of	Framing
	Bioinformatics, Alagappa University	the
	2.22	Curriculum

Academic Bodi	es in Other Institutes/ Universities	
Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
Life Member	Member, Bio-informatics and Drug Discovery Society	Member
Dec-2016 to May-2017	Coaching for competitive exams NET/SET/GATE/BINC etc.)	Co-Coordinator,
Dec-2016-till date	Industry Linkage	Co- Coordinator
July- 2017- till date	IQAC	Co- Coordinator
July-2017 till date	VVP/NSS	Co- Coordinator
Dec-2016 to May-2017	Remedial coaching class	Co- Coordinator
Dec-2016 to till date	Employability skills/career guidance	Member
Dec-2016-till date	Purchase Committee	Member
Dec-2016-till date	Research Committee	Member
Dec-2016-till date	Curriculum Development	Member
Dec-2016-till date	Examination Board	Member

## Resource persons in various capacities

1. **Invited lecture** on "Synthesis of Metal Nanoparticles and Polymer Based Metal Nanocomposite for Biomedical Application" in India-UK Second International Conference on Bishop Heber College,

- Tiruchirappali, 04<sup>th</sup> 06<sup>th</sup>, February, 2019.
- Invited resource person for Science Exhibition, in Seventh day Matriculation School, Paramakudi, 08<sup>th</sup>
   February, 2019
- 3. **Invited lecture** on "Nanomaterials for Biomedical Applications: *In silico* and *In vitro* studies", in International conference on recent advances in applied chemical sciences, Sree Sevugan Annamalai College, Devakottai, 6<sup>th</sup>, September, 2019.
- Invited lecture on "Nanobioinformatics in Biomedical Applications", in International Convention and Exhibition Center, School of Biological and Food Engineering, Anyang Institute of Technology, China, 25<sup>th</sup>, October, 2019.
- Invited lecture on "Nanomaterials for Multidisciplinary Applications", in International Conference on Emerging Trends in Physics, Department of Physics, Madurai Nadars Pioneer Meenakshi Women's College, Poovanthi, Sivagangai, 08<sup>th</sup>, February, 2020.
- 6. **Invited lecture** on "Nanomaterial synthesis with their in vitro and in silico approaches", in International Conference on Nanomaterial synthesis and Applications, Department of Physics, Caussanel College of Arts and Science, Muthupettai on 19<sup>th</sup>, February, 2020.
- Invited lecture on "Nanomaterials for Multidisciplinary Applications" in One day International Seminor on Current Scinario in Nanodevices and its Applications, Department of Physics, Ananda College, Devakottai, 03<sup>rd</sup>, March, 2020.
- 8. **Invited lecture** on "Synthesis of metal nanoparticles and its *in silico* and *in vitro* approaches for drug delivery" in International Conference on Emerging Trends in Materials for Energy and Biological Application, Department of Science and Humanities, Thalavapalayam, Karur, **07**<sup>th</sup>, **March**, **2020**.
- Invited speaker on "In silico identification of drug molecules and nanoformulation: in vitro and in vivo approach against emerging diseases" International Webinar Conference on Biomaterials on Healthcare Application, Department of Biotechnology, Karunya Institute of Technology and Sciences during, 28 30<sup>th</sup> May, 2020.
- 10. Invited speaker on "Nano drug delivery for emerging diseases; In silico and In vitro approaches" International Webinar Conference on Facts and Perspective of Integrative Biology, Department of Biotechnology, Sree Ramakrishna College of Arts and Science, Coimbatore, 2-4th, June, 2020.
- 11. **Invited speaker** on "Nano formulations for Therapeutic Applications" International Online Faculty Development Program on Recent Advanced In Nanomaterials, St. Joseph's College of Engineering, Chennai, 4-6<sup>th</sup>, June, 2020.
- 12. **Invited speaker** on "Computational Approach to Identify the small Molecules Against Infectious Disease" DBT-CTEP, Ministry of Science and Technology, Govt. of India, New Delhi, Department of Computer

- Applications, Information Technology and Computer Science, V.V.Vanniaperumal College for Women, Virudhunagar, 9<sup>th</sup>, Feb. 2022.
- 13. **Invited speaker** on "How to Protect Communicable Disease" National Science Day Mendeleev Commemoration Day Celebration, PG Department of Chemistry, Aril Anandar College, Karmathur Madurai, 9<sup>th</sup>, March, 2022.
- 14. **Invited speaker** on "Role of Computational Chemistry in Innovative Research and Applications" State Level Seminar under UGC Anatomy Grand on Modern Trends in Chemistry, 9<sup>th</sup>, March, 2022.
- 15. **Invited speaker** on "Bioinformatics approaches to COVID-19 & Nanoformulations to Biological Applications" ICans ALUMNI Lecture on 5D10TBA, Department of Industrial Chemistry, Alagappa University, Karaikudi, , 23<sup>rd</sup>, March, 2022.
- 16. **Invited speaker** on "Computationally Designed Samll Molecules against Life threatening Disease and their Impact in Drug Discovery" National Conference on Bioengineering and Nanotechnology in Medicine & Bioilogy, Department of Biotechnology, Sree Ramakrishna College of Arts and Science, Coimbatore, **23**-24<sup>th</sup>, March, 2023.
- 17. **Invited speaker** on "Development of Alternative Therapies for Human Disorder Thorough Chemical, Greener and Computational Approaches" International Conference on "**Biotechnological Interventions in Food, Agriculture, Nutrition, and Health Science for the Sustainable Management of Bioresources (<b>BIFANHS-2023**), Department of Biotechnology, Sree Ramakrishna College of Arts and Science, Coimbatore, **4 and 5**th, October, 2023.

#### **List of Research Articles / Recent Publication**

S.NO	Journal Publications	Impact Factor
1.	G. Wang, Z. Jiang, Y.Song, Y. Xing, S. He, P. Boomi, Gut microbiota contribution to selenium deficiencyinduced gut-liver inflammation, Journal of Biofactor, April 2023, 1-15. DOI:	IUBMB  Journals
	10.1002/biof.2006 Scopus Indexed Journal.	I.F-6.438
2.	R. Sangavi, S. Muthumanickam, N. Malligarjunan, R. Jothi, P. Boomi, S. Arivudainambi, M. Raman, C.G. Joshi, S.K. Pandian, S.	Structure and Dynamics
	Gowrishankar, In silico analysis unravels the promising anticariogenic efficacy of fatty acids against dental caries causing Streptococcus mutans. Journal of Biomolecular Structure and	0
	Dynamics, November, (2023), 22, 1-16 Scopus Indexed Journal.	I.F-5.235
3.	A. Abirami, S. Muthumanickam, P. Boomi, P. Soumi T. Sivasudha, Evaluation of Rapanone and Nectandrin B as novel inhibitors for targeting the metastatic regulator protein BACH1 using breast cancer cell line Mcf-7. J Journal of Biomolecular Structure and Dynamics, September, (2023), 23, 1-16 Scopus Indexed	Structure of Biomelecular Structure of Dynamics
	Journal.	1.1 3.233

4.	S. Muthumanickam, B. Ramachandran, , P. Boomi, J.	Make It May 19 M
	Jeyakanthan, H. Gurumallesh Prabu, S. Jegatheswaran, K.	Journal of Biomolecular Structure and Dynamics
	Premkumar, Combination of bendamustine-azacitidine against Syk target of breast cancer: an in silico study <b>Journal of</b>	
	Biomolecular Structure and Dynamics, April, (2023), 26, 1-	⊕ tenzer
	13, Scopus Indexed Journal.	I.F-5.235
5.	B. ArjunKumar, V. Vetrivelan, G. Ramalingam, A. Manikandan, S.	PHYSICA (B)
	Viswanathan, P. Boomi, G. Ravi, Computational studies and experimental fabrication of DSSC device assembly on 2D-layered	**************************************
	TiO <sub>2</sub> and MoS <sub>2</sub> @TiO <sub>2</sub> nanomaterials, <b>Physica B: Condensed</b>	And the second s
	Matter, May (2022) 633. 413770, Scopus Indexed Journal	I.F-2.436
6.	B. Ramachandran, C. Jeyarajpandian, J. Mercy Jeyaseelan, D.	STRUCTURAL
	Prabhu, S. Rajamanikandan, P. Boomi, R. Venkateswari, J. Jeyakanthan, Quercetin-induced apoptosis in HepG2 cells and	avertuges addressed a
	identification of quercetin derivatives as potent inhibitors for	
	Caspase-3 through computational methods, Structural	I.F-1.795
	Chemistry, May (2022) 33, 867-1893, Scopus Indexed Journal	
7.	K. Solomon Ebenezer, C. Tamilselvan, R. Manivanan, S. Ravikumar,	
	P. Boomi, Synergistic Compositions of Traditional Medicine	
	(SIDDHA) against Perilous +ssRNA Coronavirus a Future Alternative Medicine - A Mini Review, Acta Scientific	AS
	Pharmaceutical Sciences, March (2021) 5.4, 55-66, Scopus	I.F-1.020
	Indexed Journal	
8.	S. Vasudevan, A. Venkatraman1, Syed Ali Mohammed Yahoob,	JABB Johns of Apples
	Sasirekha, M. Jojula, S. Ravikumar, P. Boomi, Biochemical	A A
	evaluation and molecular docking studies on encapsulated astaxanthin for the growth inhibition of <i>Mycobacterium</i>	
	tuberculosis, Journal of Applied Biology & Biotechnology,	to command the command
	September (2021) 9, 31-39, Scopus Indexed Journal.	
9.	S. Muthumanickam, A. Kamaladevi, P. Boomi*, S. Gowrishankar, S. Karutha Pandian, Indian ethnomedicinal phytochemicals as	frontiers in Molecular
	promising inhibitors of RNA binding domain of SARS-CoV-2	Biosciences
	nucleocapsid phosphoprotein: an in silico study, Frontiers in	
	Molecular Biosciences, Molecular Diagnostics and Therapeutics, July (2021), 8, 637329, Scopus Indexed	I.F-5.246
	Journal.	
10.	S. Muthumanickam, P. Boomi*, M. Nachiappan, R. Balajee, R. Widhyayathi C. Boorani S. Cowrighankar, V. Wang, M. Biruntha, P.	frontiore
	Vidhyavathi G. Poorani, S. Gowrishankar, Y. Wang, M. Biruntha, R. Subaskumar C. Balakumar, M. F. Bayan, J. Jeyaraman, H.G. Prabu	frontiers in Molecular
	K. Solomon, In Silico Screening of Natural Phytoconstituents	Biosciences
	Towards Identification of Potential Lead Compounds to Treat	I E E 246
	COVID-19, Frontiers in Molecular Biosciences, Molecular Diagnostics and Therapeutics, July (2021), 8. 637122, Scopus	I.F-5.246
	Indexed Journal.	
11.	V. Karthik, S. Poornima, H. Barabadi, V. Arumugam, D. Daniel Raj,	
	S. Manikandan, S. Ramasamy, K. Anand, P. Boomi, C. Balakumar,	

12.	A. Selvaraj, M. Saravanan, Emerging Therapeutic Approaches to Combat COVID-19: Present status and future perspectives, Frontiers in Molecular Biosciences, Molecular Diagnostics and Therapeutics, March, (2021), 8, 604447, Scopus Indexed Journal.  S. Gowrishankar, S. Muthumanickam, A. Kamaladevi, C. Karthika, R. Jothi, P. Boomi, D. Maniazhagu, S. Karutha Pandian, Promising phytochemicals of traditional Indian herbal steam inhalation therapy to combat COVID-19 – An in silico study, Food and Chemical Toxicology, February, (2021), 148, 111966, Scopus	frontiers in Molecular Biosciences  I.F-5.246
13.	Indexed Journal.  K. Anand, S. Abdul Naeem, T. Ghazi, R, Muthusamy, G. Gupta, M. Tambuwala, H. Dureja, S. Sachin Kumar, D. Chellappan, D. Kamal, P. Boomi, M. Saravanan, Anil Chuturgoon, Induction of caspasemediated apoptosis in HepG2 liver carcinoma cells using mutagen-antioxidant conjugated self-assembled novel carbazole nanoparticles and in silico modeling studies, ACS Omega, December, (2020), 6, 265–277, Scopus Indexed Journal.	I.F-6.023  ACS OMEGA  I.F-3.512
14.	K. Shanmugapriya, S. Palanisamy, P. Boomi*, R. Subaskumar, S. Ravikumar, T. Thayumanavan, An eco-friendly Gnaphalium polycaulon mediated silver nanoparticles: Synthesis, characterization, antimicrobial, wound healing and drug release studies, Journal of Drug Delivery Science and Technology, November, (2020), 102202, Scopus Indexed Journal.	I.F-3.981
15.	M. Karunakaran, K. Kasirajan, M. Balaji, P. Boomi, S. Mahalingam, S. Balamurugan, Cyclodextrin functionalized multi-layered MoS2 nanosheets and its biocidal activity against pathogenic bacteria and MCF-7 breast cancer cells: Synthesis, characterization and invitro biomedical evaluation, Journal of Molecular Liquids, October, (2020), 114631, Scopus Indexed Journal.	OUTDIE OF THE PROPERTY OF THE
16.	S. Muthumanickam, T. Indhumathi, P. Boomi*, R. Balajee, J. Jeyakanthan, K. Anand, S. Ravikumar, P. Kumar, A. Sudha, Z. Jiang, <i>In silico</i> approach of naringin as potent phosphatase and tensin homolog (PTEN) protein agonist against prostate cancer, <b>Journal of Biomolecular Structure and Dynamics</b> , October, (2020), 9, 1-10, Scopus Indexed Journal.	Juria d Biomolecular Structure and Dynamics
17.	P. Boomi*, R. Ganesan, G. Poorani, S. Jegatheeswaran, C. Balakumar, H. Gurumallesh Prabu, K. Anand, N. Marimuthu Prabhu, J. Jeyakanthan, M. Saravanan, Phyto-engineered Gold Nanoparticles (AuNPs) with Potential Antibacterial, Antioxidant, and Wound Healing Activities under <i>in vitro</i> and <i>in vivo</i> Conditions, International Journal of Nanomedicine, October, (2020), 15, 7553–7568, Scopus Indexed Journal.	Dovepress  open access to scentific and medical resourch  International Journal of Nanomedicine  I.F-6.400

1.5		and the second second
18.	M. Karunakaran, S. Maheswari, K. Kasirajan, B. Chandrasekar, P. Boomi, Yttrium- substituted SnO2 thin films and its gas sensing activity against NH3 gas: Characterization and sensitivity evaluation, Sensors & Actuators: A. Physical, August, (2020), 315, 112303, Scopus Indexed Journal.	SENSORS ACTUATORS ACTUATORS I.F-3.407
19.	H. Mary, V.M. Nadar, P. Patel, D. Umapathi, V. Joseph Antony, S. Manivannan, P. Santhiyagu, P. Boomi, G. Muthusamy, Y. Rathinam, P. Kumar, Selective antibacterial and apoptosis-inducing effects of hybrid gold nanoparticles – a green approach, Journal of Drug Delivery Science and Technology, October, (2020), 59, 101890,	I.F-3.981
20.	B. Babu, S.Palanisamy, M. Vinosha, R. Anjali, P. Kumar, P. Boomi, M.Tabarsa, S. You, N.M. Prabhu, Bioengineered gold nanoparticles from marine seaweed <i>Acanthophora spicifera</i> for pharmaceutical uses: antioxidant, antibacterial, and anticancer activities, Bioprocess and Biosystems Engineering, July, (2020), 43, 2231–2242, Scopus Indexed Journal.	Bioprocess and Biosystems Engineering  General Contract C
21.	P. Boomi*, G. Poorani, S. Selvam, S. Palanisamy, S. Jegatheeswaran, K. Anand, C. Balakumar, K. Premkumar, H. Gurumallesh Prabu, Green Biosynthesis of gold nanoparticles using Croton sparsiflorus leaves extract and evaluation of UV protection, antibacterial and anticancer applications, Applied Organometallic Chemistry, January, (2020), 34, e5574. Scopus Indexed Journal.	Applied Organometallic Chemistry  I.F-4.105
22.	K. Anand, T. Naicker, S. Baijnath, M.J. Mphahlele, N. Kumar Katari, S.J. Zamisa, C. Balakumar, K. Vijayakumar, S. Palanisamy, M. Saravanan, P. Boomi, Anil Chuturgoon, TPGS-mediated one-pot synthesis, XRD structural analysis, antimicrobial evaluation and molecular docking of novel heterocycles as potential inhibitors of p53-MDM2 protein, Journal of Molecular Structure, February, (2020), 1202, 127252. Scopus Indexed Journal.	MOLECULAR STRUCTURE  I.F-3.196
23.	K. Anand, R. Rajamanikandan, A. Selva Sharma, M. Ilanchelian, Faez Iqbal Khan, C. Tiloke, Naresh Kumar Katari, P. Boomi, M. Saravanan, S. Palanisamy, M. Ramesh, C. Balakumar, Dakun Lai, A.A. Chuturgoon, Human serum albumin interaction, <i>in silico</i> and anticancer evaluation of pine-gold nanoparticles, Process Biochemistry, February, (2020), 89, 98-109, Scopus Indexed Journal.	BIOCHEMISTRY  I.F-3.757
24.	S Maheswari, M Karunakaran, K Kasirajan, P Boomi, Transition Metal (Ni) Doped SnO2 Nanoparticles Synthesized by Co-Precipitation Method, Sensor Letters, December, (2019), 179, 19-923. Scopus Indexed Journal.	SENSOR Legarithm has typing has to generate the Annual Con- transport of t

25.	S. Muthumanickam, K. Langeswaran, P. Sangavi, P. Boomi, Screening of inhibitors as potential remedial against Ebolavirus infection: pharmacophore-based approach, Journal of Biomolecular Structure and Dynamics, January, (2020), 30, 1-14. Scopus Indexed Journal.	Journal of Biomolecular Structure and Dynamics  I.F-5.235
26.	S. Jegatheeswaran, C. Yurong, L. Han, M.K. Mohamed Subarkhan, V. Vasantha Ruban, P. Boomi, W. Hangxiang, Y. Yuming, MMP-9 Responsive Dipeptide-tempted Natural Protein hydrogel-based Wound dressings for accelerated healing action of Infected diabetic wound, International Journal of Biological Macromolecules, Jun, (2020), 153, 1058-1069, Scopus Indexed Journal.	Biological Macromolecules  I.F-6.957
27.	P. Rajasekar, S. Palanisamy, R. Anjali, M. Vinosha, M. Thillaieswari, B. Malaikozhunda, P. Boomi, M. Saravanan, Y. SangGuan, N.M. Prabhu, <i>Cladophora fascicularis</i> Mediated Silver Nanoparticles: Assessment of Their Antibacterial Activity Against Aeromonas hydrophila, Journal of Cluster Science. September, (2019), 31, 673–683, Scopus Indexed Journal.	JOURNAL OF CLUSTER SCIENCE LICEUTING REMODILISTES Line MARGINITUES  Line MARGINITUES
28.	S. Palanisamy, R. Anjali, M. Vinosha, M. Reka, S. Selvakumar, P. Boomi, K. Anand, N.M. Prabu, S.S.S Somasundaram, Y. Sang Guan, Synthesis of <i>Oldenlandia umbellata</i> stabilized silver nanoparticles and their antioxidant effect, antibacterial activity and biocompatibility using human lung fibroblast cell line WI-38, Process Biochemistry. August, (2019), 86, 196-204. Scopus Indexed Journal.	PROCESS BIOCHEMISTRY  I.F-3.757
29.	C. Zhao, J. Jiao, W. Zhou, Y. Zhang, H. Liu, X. Yang, P. Boomi, Y. Cai, A Novel Design and Fabrication of Ascorbic Acid Sensitive Biosensor Based on Combination of HAP/rGO/AuNPs Composite and Ascorbate Oxidase, Journal of Cluster Science. March, (2019), 31, 337-346. Scopus Indexed Journal.	JOHNAL OF CLUSTER SCIENCE INCLUSION EMPOCHATICLES SAN INCIDENTALISTS  L.F3.061
30.	K. Natchimuthu, P. Boomi, S. Ramasamy, D. Karthik, R. Balachandar, Optimization of culture medium for improved production of antimicrobial compounds by Amycolatopsis sp AS9 isolated from vermicasts, Biocatalysis and Agricultural Biotechnology, May, (2019), 20, 101186. Scopus Indexed Journal.	Biocatalysis and Agricultural Biotechnology
31.	R. Balachandar, P. Gurumoorthy, N. Karmegam, H. Barabadi, R. Subbaiya, K. Anand, P. Boomi, M. Saravanan, Plant-Mediated Synthesis, Characterization and Bactericidal Potential of Emerging Silver Nanoparticles Using Stem Extract of Phyllanthus pinnatus: A Recent Advance in Phytonanotechnology, Journal of Cluster Science, May, (2019), 30, 1481-1488. Scopus Indexed Journal.	JOURNAL OF CLUSTER SCIENCE Inections and extensive states and extensive states and extensive states are the confidentials.  L.F3.061

32.	P. Boomi*, G. Poorani, S. Palanisamy, S. Selvam, G. Ramanathan, S. Ravikumar, H. Barabadi, H. Gurumallesh Prabu, J. Jeyakanthan, M. Saravanan, Evaluation of Antibacterial and Anticancer Potential of Polyaniline-Bimetal Nanocomposites Synthesized from Chemical Reduction Method, Journal of Cluster Science. March, (2019), 30, 715–726, Scopus Indexed Journal.	JOHNAL OF CUSTER SCIENCE INCLUME A ACQUISTERS LAST ROCKETS HARCELS LAST ROCKETS LAS
33.	M. Anandan, G. Poorani, P. Boomi, K. Varunkumar, K. Anand, A. Anil Chuturgoon, M. Saravanan, H. Gurumallesh Prabu, Green synthesis of anisotropic silver nanoparticles from the aqueous leaf extract of Dodonaea viscosa with their Antibacterial and Anticancer activities, Process Biochemistry. February, (2019), 80, 80–88, Scopus Indexed Journal.	PROCESS BIOCHEMISTRY  I.F-3.757
34.	P. Boomi*, R.M. Ganesan, G. Poorani, H.G. Prabu, S. Ravikumar, J. Jeyakanthan, Biological synergy of greener gold nanoparticles by using <i>Coleus aromaticus</i> leaf extract, Materials Science & Engineering C, January, (2019), 99, 202–210. Scopus Indexed Journal.	MATERIALS SCIENCE & ENGINEERING  I.F. 7.328
35.	R, Anjali, S. Palanisamy, M. Vinosha, M. Thenmozhi, P. Rajasekar, T. Marudhupandi, P. Kumar, P. Boomi, N.M. Prabhu, Phytomediated synthesis of silver nanoparticles using fucoidan isolated from <i>Spatoglossum asperum</i> and assessment of antibacterial activities, <i>J. Photochem. Photobiol</i> , August, (2018), 185, 117–125. Scopus Indexed Journal.	Photochemistry and Photobiology
36.	M. Balaji, S. Jegatheeswaran, P. Nithya, P. Boomi, S. Selvam, M. Sundrarajan, 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, J. Photochem. Photobiol, January, (2018), 178, 371-379. Scopus Indexed Journal.	Photochemistry and Photobiology
37.	P. Boomi*, J. Anandha Raj, S.P. Palaniappan, G. Poorani, S. Selvam, H.G. Prabu, P. Manisankar, J. Jeyakanthan, V.K. Langeswaran, Improved conductivity and antibacterial activity of poly(2-aminothiophenol)-silver nanocomposite against human pathogens, J. Photochem. Photobiol, January, (2018), 178, 323–329, Scopus Indexed Journal.	Photochemisty and Photobiology  R Rober  I.F-6.252
38.	S. Selvam, B. Balamuralitharan, S. Jegatheeswaran, Mi-Young Kim, S.N. Karthick, J. Anandha Raj, P. Boomi, M. Sundrarajan, K. Prabakar, Hee-Je Kim, Electrolyte imprinted graphene oxide-Chitosan chelate with copper crosslinked composite electrodes for intense cyclic stable flexible supercapacitors, Journal of Materials Chemistry A, December, (2016), 5, 1380-1386. Scopus Indexed Journal.	Materials Chemistry A  Francis Transcription of Materials Chemistry A  Francis Transcription of Materials Chemistry A  Francis Transcription of Materials Chemistry A
39.	Arivoli Appavu, Sathiamoorthi Thangavelu, Satheeshkumar Muthukannan, Joseph Sahayarayan Jesudoss, P. Boomi, "Study of Water Quality Parameters of Cauvery River Water, in Erode Region", Journal of Global Biosciences, (2016), 5, 4556-4567	OPEN Journal of ACCESS Global Biosciences

	(ISSN:2320-1355).	
40.	P. Boomi*, H. Gurumallesh Prabu, P. Manisankar, S. Ravikumar, Study on Antibacterial activity of Chemically Synthesized PANI-Ag-Au nanocomposite, Applied surface Science, May, (2014), 300, 66-72, Scopus Indexed Journal.	Applied Surface Science  1-100. Letter with a management of the state
41.	P. Boomi*, H. Gurumallesh Prabu, J. Mathiyarasu, Synthesis, characterization and antibacterial activity of polyaniline/Pt-Pd nanocomposite, European Journal of Medicinal Chemistry, January, (2014), 72, 18–25, Scopus Indexed Journal.	I.F-6.514
42.	P. Boomi*, H. Gurumallesh Prabu, Synthesis, characterization and antibacterial analysis of polyaniline/Au-Pd nanocomposite, Colloids and Surfaces A: Physicochem. Eng. Aspects, July, (2013), 429, 51–59, Scopus Indexed Journal.	COLIDITA UNITALISMA SUPERIORISMA PROPERIORISMA PROPERIORIS
43.	P. Boomi*, H. Gurumallesh Prabu, J. Mathiyarasu, Synthesis and characterization of polyaniline/Ag-Pt nanocomposite for improved antibacterial activity, Colloids and Surfaces B: Biointerfaces, March, (2013), 103, 9-14, Scopus Indexed Journal.	COLLODS AND SIDE ACTS B DOGGET LESS B DOGGT LESS B
44.	S. Ravikumar, R. Gokulakrishnan, P. Boomi*, In vitro antibacterial activity of the metal oxide nanoparticles against urinary tract infectious bacterial pathogens, Asian Pacific Journal of Tropical Disease, April, (2012), 2, 85-89, Scopus Indexed Journal.	Januariente domini de Tropical Disease
	Book Chapters	
1	H. Gurumallesh Prabu, P. Boomi, Polyaniline: Mono- and Bi-Metal Composite "Encyclopedia of Biomedical Polymer and Polymeric Biomaterials", November, (2015), Taylor & Francis, Vol: 11, 6089-6100, (DOI: 10.1081/E-EBPP-120049948, eBook ISBN: 9781351237970). Scopus Indexed Journal.	Taylor & Francis
2	D. Zewdu, A. Wondimu, H. Barabadi, M. Ali Mahjoub, S. Ravikumar, P. Boomi, M. Saravanan, Emerging Mesoporous Silica Nanoparticles Mediated Controlled and Targeted Drug Delivery System: Present Status and Future Prospects, Handbook on Nano-biomaterials for Therapeutics and Diagnostic Applications, 1st Edition, Accepted, March 2021, ISBN: 9780128210130	Flandbook on Ness-shormerids On the reposition and the state of the st

1	S. Balamurugan, Anand T. Krishnan, Dinesh Goyal, Balakumar Chandrasekaran, P. Boomi, Computation in Bioinformatics and Its Multidisciplinary Applications, 2021	Scrivener Publishing John Wiley & Sons
	1119654718, 9781119654711	Wiley
4.	S. Muthumanickam, P. Boomi*, R. Subashkumar, S. Palanisamy, A. Sudha, K. Anand, C. Balakumar, M. Saravanan, G. Poorani, Yao Wang, and M. Syed Ali, An Insight of Protein Structure Predictions Using Homology Modeling, Computation in BioInformatics: Multidisciplinary Applications, Accepted, October 2021, ISBN:	GOMPUTATION IN BIOINFORMATICS  A contract of the contract of t
3	K. Vijayakumar, K. Anand, P. Boomi, R. Surendrakumar, Theranostics and radiopharmaceuticals in cancer treatment, Handbook on Nano-biomaterials for Therapeutics and Diagnostic Applications, 1st Edition, Accepted, March 2021, ISBN: 9780128210130	Handbook on Nano-Bormaterials Branguaries and Blass on the Agent and Blass of the Agent and

Patent Published						
S.No	Tile of the patent	Name of the inventors with affiliation	Application number & filing Date	Status		
1	Bio Feed for Aquaculture	Dr. R. Subashkumar R. Karthick Dr. S. Rathish kumar Dr. B.L. Shivakumar Dr. THA. Thayumanavan Dr. P. Boomi Dr. A. Sivaranjini	202141046236 & 11/10/2021	Published		
2	A Process for Extraction of Copper Oxide Nanoparticles using Green Synthesis	Dr. A. Sivaranjini Dr. R. Subashkumar Dr. P. Boomi Dr. S. Santhosh Baboo Dr. B. L. Shivakumar A. Aswini Dr. J. Jeyakanthan Dr. H. Gurumallesh Prabu Dr. P. Sagadevan	202141049992 & 07/12/2021	Published Under examination		

Date : 6.03.2024 Place : Karaikudi

Name: Dr.P.Boomi

Designation: Assistant Professor