Resume

Address	:	Department of Bioinformatics Alagappa Unniversity, Karailudi, Tamil Nadu, India			
Date of Joining	:	04.12.2015			
Employee Number	:	34404			
Date of Birth	:	10.05.1983	N. Contraction of the Contractio		
Contact Phone (Office)	:	+91 4565 230346			
Contact Phone (Mobile)	:	+91 9486031423 Dr. P. Boomi Assistant Professo			
Email Id	:	pboomi1983@gmail.com pboomibioinformatics2015@gmail.com boomip@alagappauniversity.ac.in	oomi1983@gmail.com oomibioinformatics2015@gmail.com		
Scopus	:	https://www.scopus.com/authid/detail.uri?authorId=5519	91343000		
Web of Science	:	https://publons.com/researcher/3066710/p-boomi/			
ORCID	:	https://orcid.org/0000-0002-0472-137X			
Google Scholar	:	https://scholar.google.com/citations?user=ieelhD4AAAAJ&hl=en			
Linkedin link	:	https://www.linkedin.com/in/dr-pandi-boomi-95a24a34/			
Researchgate link	:	https://www.researchgate.net/profile/Dr_P_Boomi			

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.	Member, BioInformatics and Drug Discovery Society	Alagappa University
2.	Co-Coordinator, coaching for competitive exams	Alagappa University
	(NET/SET/GATE/BINC etc.) (Dec-2016 to May-2017)	
3.	Co- Coordinator, Industry Linkage (Dec-2016-till date)	Alagappa University
4.	Co- Coordinator, IQAC (July- 2017- till date)	Alagappa University
5.	Co- Coordinator, VVP/NSS (July-2017 till date)	Alagappa University
6.	Co- Coordinator, Remedial coaching class (Dec-2016 to May-2017)	Alagappa University
7.	Member, Employability skills/career guidance (Dec-2016 to till date)	Alagappa University
8.	Member, Purchase Committee (Dec-2016-till date)	Alagappa University
9.	Member, Research Committee (Dec-2016-till date)	Alagappa University
10.	Member, Curriculum Development	Alagappa University
11.	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. Refresher Course, UGC-HRDC, Bharathidasan University, Thiruchirappalli, from 16.07.2019 to 29.07.2019.
- **2. 100**th **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**.

Research Supervision / Guidance

P	rogram of Study	Completed	Ongoing
Research	Ph.D.	-	2
	M.Phil.	1	-
Project	PG	8	1
	Diploma	1	-
	Other Project Trainee	5	-

Publications

International		National		Others	
Journals Conferences/workshops		Journals	Conferences/Workshops	Books/Book chapters	
35	23	-	28	Books-1	Chapters-3

Cumulative Impact Factor (as per JCR) : 119.834

Average Impact Factor : 3.42

h-index (As per Google scholar) : 13

i10 index : 15

Total Citations : 689

Funded Research Project

i	S.No	Agency	Period		Project title	Budget	(in
			From	To		Lakhs)	
	1	RUSA-2.0	2018	2019	Greener synthesis of glutathione-metal oxide nanocomposite and its <i>in vitro</i> antibacterial and anticancer activities	12.00	

Distinctive Achievements / Award

- **1. 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)
- 2. Research Associate-HRDG-CSIR, New Delhi, CECRI-Karaikudi (01.10.2015 to 03.12.2015).
- **3. Senior Research Fellow**-(UGC-BSR, New Delhi)-Alagappa University, Karaikudi, (09.02.2013 to 26.09.2014)
- **4. Junior Research Fellow**-(UGC-BSR, New Delhi)-Alagappa University, Karaikudi (08.02.2011 to 08.02.2013)
- **5. Best presentation for research paper**-Presented in seminar on Application of Nanotechnology, in current agricultural practices, Dr. Zahir Husain College, Ilayangudi (09-10th. 02.2011).
- 6. Junior Research Fellow-Project Assistant-CSIR, CECRI, Karaikudi (06.04.2009 to 05.10.2009)

Events organized in leading roles

- 1. Organizing Committee Member in 8th 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 9th 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 10th 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 11th 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, 20th-22nd March, 2019.
- 6. Organizing Committee Member in International Conference on Recent Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD 2019), Department of Bioinformatics, Alagappa University, Karaikudi.
- 7. Chair session in International Conference on Recent Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD 2019), Department of Bioinformatics, Alagappa University, Karaikudi.

Events participated & presented in International Conferences, Seminars and symposiums

Total: 23 Presented – 17 Participated-06

S.N	lo	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 nd -4 th , 2008	Presented

	International conference on Materials for the	Jan. 11 th -13 th ,	
	Millennium (MATCON-2010), Cochin	2010	
2.	University of Science and Technology, Kerala.		Presented
	Synthesis, Characterization and application of		
	TiO ₂ for degradation of dyes.		
	International conference on Nanomaterials and	Dec. 13 th -16 th ,	
	Nanotechnology (NANO-2010), K.S.R.	2010	
3.	Technology, Trichangode.		Presented
	Synthesis and Characterization of Polyaniline-		
	ruthenium composite.		
	International conference on Advanced Materials	March, 4 th -5 th ,	
	and its Applications (ICAMA-2011),	2011	
4.	Kalasalingam University, Krisnankovil.	2011	Presented
4.			Fresenteu
	Synthesis and Characterization of Polyaniline		
	Platinum- nanocomposite.	a sth a sth	
	International conference on Advanced Polymeric	March, 25 th -27 th ,	
5.	Materials (APM-2011), CIPET, Chennai.	2011	
3.	Synthesis and Characterization of Polypyrrole		Presented
	Platinum- nanocomposite.		
	International conference on Recent Advance in	March, 21 st -23 rd ,	
	Textile and Electrochemical Sciences (RATES-	2013	
6.	2013), Alagappa University, Karaikudi.		Presented
	Synthesis and Characterization of Polyaniline-		
	Palladium nanocomposite.		
	International Conference on Recent Trends in	April, 7 th -9 th ,	
	Biosciences, Dept. of Biotechnology, Alagappa	2016	
	University, Karaikudi.	2010	Presented
7.			Tresented
, .	Improved anticancer activity of Polyaniline-		
	metal nanocomposite against Human		
	Hepatocellular (HepG2) carcinoma cell line.		
	International Conference on Recent Trends in	Dec.7 th -8 th 2016	
		Dec./ -8 2016	
0	Microbiology, Department of Microbiology,		7 0 (1
8.	Alagappa University, Karaikudi.		Presented
	Phytochemical screening and antimicrobial		
	activity of Cucumisanguria L. Leaves.	ath oth and	
	International Conference on Frontier Areas in	July, 6 th -8 th , 2017	
	Chemical Technologies, Department of Industrial		
	Chemistry, Alagappa University, Karaikudi.		
	Synthesis and characterization of silver		Presented
9.	nanoparticles conjugate with antibiotics and		
	its enhanced antibacterial activity.		
	Ionic liquid –assisted one-step synthesis of		
	rGO/MnCO ₃ composite for High performance		
	super capacitor electrode.		
	Third Asian Conference on Science, Technology	Feb.12 th -14 th ,	
10.	& Medicine (ACSTM-2019), Carlton Palace	2019	
10.	Hotel, Deira Dubai, UAE.	2017	Presented
	How, Della Dubal, UAL.		1 1 CSCIIICU

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	Polyaniline-Bimetal Nanocomposite with its Potential Anticancer Activity against Human hepatocellular carcinoma (HepG2) cell line.		
11.	Sixth Annual Conference 2019 of the Asian Council of Science Editors (ACSE), Carlton Palace Hotel, Deira Dubai, UAE.	Feb. 2 th -14 th , 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 th -14 th , 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 th -06 th , 2019	Presented
14.	International Conference on Applied Nanoscience and Technology (ICANN-2019), Department of Nanoscience Technology, Alagappa University, Karaikudi	March, 18 th & 19 th , 2019	Participated
15.	International Conference on Bioplastics (BIOP 2019), Department of Microbiology, Alagappa University, Karaikudi	April, 2 nd , 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 th and 26 th , 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 Amphiphilic Twin Drugs Nanocarriers by using in silico approach	Sep. 6 th , 2019.	Presented
18.	International Conference on Recent Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD 2019), Department of	· · · · · · · · · · · · · · · · · · ·	Presented

	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.		
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 th 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 th March, 2020	Presented
21.	International Webinar Series on "Application of Bioinformatics in drug design-(COVID-19)", Department of Biotechnology, KIT, Coimbatore.	May 13 th 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 nd 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 th 2020	Participated

Events participated in International Workshops

Total:	05		Participated-05
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 th -30 th , 2013	Participated
2.	India-Japan Workshop on Biomolecular Electronics and Organic Nanotechnology for Environment Preservation (IJWBME-2013), Delhi Technical University, Delhi,	Dec. 13 th -15 th , 2013	Participated
3.	Workshop on international Frontier Areas in Chemical Technologies (FACTs-2014),	Feb. 21 st -22 nd , 2014	Participated

	Alagappa University, Karaikudi,		
	International Workshop on Data Science and	Sep. 27 th -28 th ,	Participated
4.	Analysis, Department of computer science,	2016	
	Alagappa University, Karaikudi		
	International Workshop on Biomedical	June, 6 th & 7 th ,	Participated
_	applications in Translational Research (BATR-	2019	
5.	2019) Department of Biomedical Science,		
	Alagappa University, Karaikudi		

Events participated/presented in National Conferences, Seminars and symposiums

Total: 15 Presented -06 Participated-09

S.No	Name of the conference and place	Date	Paper presented/ participated
1.	National seminar on Application Oriented nanomaterials (NANOMAT-2005), Alagappa University, Karaikudi.	March, 10 th -11 th , 2005.	Participated
2.	National seminar on Recent Advance in Textile and Electrochemical Sciences (RATES-2008), Alagappa University, Karaikudi.	Dec. 19 th -20 th , 2008.	Participated
3.	National symposium on Importance of nanoscience and technology (INST-2009), Alagappa University, Karaikudi	2009.	Participated
4.	National seminar on Application of Nanotechnology in current Agricultural Practices (NANO FARM-2011), Department of Biology, Dr. Zakir Husain College, Ilayangudi. Synthesis and characterization of polypyrrole/Ruthenium nanocomposite.	Feb. 9 th -10 th , 2011	Presented
5.	National conference on Recent Trends in Green Synthesis (RTGS-2011), Alagappa University, Karaikudi. Chemical synthesis of Palladium nanoparticles stabilized by 1-Butyl-3-methylimidazolium tetrafluoroborate ionic liquid.	Aug. 5 th -6 th , 2011	Presented
6.	Conference on Recent Advance in Textile and Electrochemical Sciences (RATES-2012), Alagappa University, Karaikudi.	March, 22 th -23 th , 2012	Participated
7.	8 th National Symposium cum workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design, (SBCADD, 2016) Dept. of Bioinformatics, Alagappa University, Karaikudi.	Feb. 16 th -19 th , 2016	Presented

	Toxicity of Au and Au-Pt metal nanoparticles		
	against cancer cell lines (HepG2): Recent insights from in vitro study.		
8.	National Seminar on Nanomaterials for Specialized Applications (NMSA-2017) & World Standards day Dept. of Nanosciecne and Technology, Alagappa University, Karaikudi.	Feb. 9 th -10 th , 2017	Participated
9.	One day conference on Exploring Commercialization of Biosensor In India, Department of Bioelectronics, and Biosensor, Alagappa University, Karaikudi.	March, 14 th 2017	Participated
10.	One day National Conference on "Recent Trends in Microbiology (NCTM-2017), Department of Microbiology, Alagappa University, Karaikudi.	Sep. 27 th , 2017	Participated
11.	10 th 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 th -23 th , 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 ₂ nanoparticles synthesis by co-precipitation method	Jan, 24 th -25 th , 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 cotton fabric and anticancer activity	Feb, 11 th , 2019	Presented
14.	11 th National Symposium cum workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD 2019) Dept. of Bioinformatics, Alagappa University, Karaikudi. Study on molecular docking and dynamics	Feb. 12 th -15 th , 2019	Presented

	using computaional approach for protein pkb- 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 Sustainable Energy and Sensors, Dept. of Physics, Alagappa University, Karaikudi.	March, 20 th -22 th , 2019	Participated

Events participated in National Workshops

Events participated in National Worksnops				
Total:	Total: 13 Participated-13			
S.No			Paper presented/	
5.110	Name of the conference and place	Date	participated	
1	National workshop on Green Chemistry,	March, 31 st , 2008	Participated	
1.	Alagappa University, Karaikudi			
	National workshop on Green process techniques	March, 20 th -21 st ,		
2.	for industrial application (GREPTIA-2009),	2009	Participated	
_,	Alagappa University, Karaikudi		_	
	Workshop an Electroanalytical Techniques,	Oct. 11 th -13 th ,		
3.	Alagappa University, Karaikudi	2010	Participated	
	Workshop on Recent Trends in Electrochemistry,	April, 28 th , 2011		
4.		April, 26, 2011	Participated	
	CSIR-CECRI, Karaikudi	z i a cth a th	r ai ucipateu	
	State level workshop on Structural Solving by	July, 26 th -27 th ,	TD 41.1 ()	
5.	Powder X-ray Diffraction (SLWSSP-XRD-	2011	Participated	
	2011), Alagappa University, Karaikudi			
	Workshop on Characterization Techniques	March, 24 th -26 th ,		
6.	(NWCT-1, 2012), Alagappa University,	2012	Participated	
	Karaikudi			
	Two day lecture workshop on Advance	Sep. 20 th -21 th ,	Participated	
7.	Chemistry, Alagappa University, Karaikudi	2013	•	
	World Animal Day celebration, Department of	Oct. 4 th , 2017		
8.	Animal Health and Management, Alagappa	,	Participated	
	University, Karaikudi		F	
	Four days workshop on Commercialization	Jan. 22 th -25 th		
9.	Prospects of Microbial Formulates, Department	2018	Participated	
	of Microbiology, Alagappa University, Karaikudi			
	One day workshop on Design and Development	Nov. 8 th , 2018.		
	of MOOCs for the Faculty Members of Alagappa	, _ , _ , _ ,	Participated	
10.	University and Affiliated Colleges, Alagappa		•	
	University, Karaikudi.			
	•	Dec.18 th & 19 th ,		
11.	First Two days National Workshop on Indigenous Cow Management and their Value	Dec.18 & 19, 2018		
11.	Added Products (ICMVAP-2K18), Department	2010	Participated	
	Added Froducts (ICIVIVAI-2IX10), Department		1 al nopaleu	

	of Animal Health Management, Alagappa University, Karaikudi.		
	One day Workshop on Practicing Nai Talim,	Sep. 3 rd , 2019	
	Experimental Learning, Community Engagement		Participated
12.	and Vocational Education, Alagappa University		
	College of Education & Centre for Gandhian		
	Studies, Alagappa University, Karaikudi		
	One day Workshop on Water conservation,	Nov. 22 nd , 2019	
13.	Department of Microbiology, Alagappa		Participated
	University, Karaikudi.		

Overseas Exposure / Visits

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

Membership in professional / national / international 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)

Reviewer for Journals

S.No	Journal name	Publisher
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
5	Applied Organometallic Chemistry	Wiley
6	Journal of Material Chemistry C	RSC
7	SN Applied Science	Springer
8	Microscopy Research and Techniques	Wiley

Resource persons in various capacities/ invited talk

- 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, 04th - 06th, February, 2019.
- Invited resource person for Science Exhibition, in Seventh day Matriculation School, Paramakudi, 08th
 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, 6th, September, 2019.
- 4. **Invited lecture** on "Nanobioinformatics in Biomedical Applications", in International Convention and Exhibition Center, School of Biological and Food Engineering, Anyang Institute of Technology, China, 25th, 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, 08th, 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 19th, 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, 03rd, 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**th, **March**, **2020**.
- 9. 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 May 28 30th 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, June 2-4th 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, June 4-6th 2020.

Research publication in SCI journals

S.NO	Journal publication	Impact Factor
1.	S. Muthumanickam, A. Kamaladevi, P. Boomi*, S. Gowrishankar, S. Karutha Pandian, Indian ethnomedicinal phytochemicals as promising inhibitors of RNA binding domain of SARS-CoV-2 nucleocapsid phosphoprotein: an in silico study, Frontiers in Molecular Biosciences, Molecular Diagnostics	frontiers in Molecular Biosciences
2.	and Therapeutics, Accepted, February (2021), Scopus Indexed Journal. V. Karthik, S. Poornima, H. Barabadi, V. Arumugam, D. Daniel Raj, S. Manikandan, S. Ramasamy, K. Anand, P. Boomi, C. Balakumar, A. Selvaraj, M. Saravanan, Emerging Therapeutic Approaches to Combat COVID-19: Present status and future perspectives, Frontiers in Molecular Biosciences, Molecular Diagnostics and Therapeutics, Accepted, January (2021), Scopus Indexed Journal.	frontiers in Molecular Biosciences
3.	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 Indexed Journal.	Food and Chemical Toxicology
4.	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 caspase-mediated 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.	ACS OMEGA I.F-2.87
5.	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.	JDDST S APP APP I.F-2.734
6.	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 in-vitro biomedical evaluation, Journal of Molecular Liquids, October, (2020), 114631, Scopus Indexed Journal.	MOLECULAR LIQUIDS ***Committee of the committee of the c
7.	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, Journal of Biomolecular Structure and Dynamics, October, (2020), 9, 1-10, Scopus Indexed Journal.	Structure and Dynamics I.F-3.310

8.	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 over access to scientify and revokul research International Journal of Nanomedicine I.F-5.115
9.	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 I.F-2.904
10.	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,	JDDST I.F-2.734
11.	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 Management Control of the C
12.	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-3.14
13.	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-2.463
14.	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.	PROCESS BIOCHEMISTRY I.F-2.952

15.	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 LETTERS From the law to th
16.	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, December, (2019), 30, 1-14. Scopus Indexed Journal.	James of Biomolecular Structure and Dynamics
17.	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-5.162
18.	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 LECTURE & MARCHETTERS AND MARCHETTE
19.	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 bio-compatibility using human lung fibroblast cell line WI-38, Process Biochemistry. August, (2019), 86, 196-204. Scopus Indexed Journal.	PROCESS BIOCHEMISTRY I.F-2.952
20.	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.	JOURNAL OF CLUSTER SCIENCE LICELAND AND RECEIVED LICELAND AND RECEI
21.	K. Natchimuthu, P. Boomi, S. Ramasamy, D. Karthik, R. Balachandar, Optimization of culture medium for improved production of antimicrobial compounds by Amycolatopsis spAS9 isolated from vermicasts, Biocatalysis and Agricultural Biotechnology, May, (2019), 20, 101186. Scopus Indexed Journal.	Biocatalysis and Agricultural Biotecfinology

		2000
22.	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 LICETURE MICHAELIST LICETURE MICHAELIS
23.	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.	JOURNAL OF CUSTER SCIENCE INCLUDED AMPRICATIONS AND WATER PROPERTY OF THE PROP
24.	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-2.952
25.	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 INTERIOR INTERIO
26.	R, Anjali, S. Palanisamy, M. Vinosha, M. Thenmozhi, P. Rajasekar, T. Marudhupandi, P. Kumar, P. Boomi, N.M. Prabhu, Phyto-mediated 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
27.	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 Brown I.F-4.383
28.	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.	Photochemistry and Photobiology Below I.F-4.383

29.	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.	Normal of Materials Chemistry A
30.	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 (ISSN:2320-1355).	OPEN Journal of Access Global Biosciences
31.	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 of the state of the
32.	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-5.572
33.	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.	COLORAND SHEARES A PROPERTY OF THE PROPERTY OF
34.	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.	COLIDERAND SURFACES BEAUTION IN THE PROPERTY OF THE PROPERTY O
35.	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.	Jeweyster bound of Tropical Disease
	Book chapter	III D
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). 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, 1 st Edition, Accepted, March 2021, ISBN: 9780128210130	Handbrook on Nano-biomaterials for Therapeutics and Dupretic Applications Dispatch (Applications) Banks of the Managhaman Applications of the Managhaman
3	K. Vijayakumar, K. Anand, P. Boomi, R. Surendrakumar, Theranostics and radiopharmaceuticals in cancer treatment, Handbook on Nano-biomaterials for Therapeutics and Diagnostic Applications, 1 st Edition, Accepted, March 2021, ISBN: 9780128210130	Handbook on Nanc-bernsterals Deprivate Applications Deprivate Applications Linear Conference Conf
	Book Edited	
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