



NAME: P.BOOMI

DESIGNATION: ASSISTANT PROFESSOR

Contact

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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 Chemistry	First
Ph.D	Alagappa University	2014	Chemistry	Highly Recommended

Teaching Experience

Total Teaching Experience : 10 Years 1 Months

Position	Institution	Duration
Assistant Professor	Alagappa University	2015-Till Date

Research Experience

Total Research Experience : 10 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	04.12.2015- Till date

Academic and Additional Responsibilities

S.No	Position	University Bodies	Period	
			From	To
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 committee	Alagappa University	2023	Till Date
8	M.Sc. Biochemistry Course Co-ordinator	Alagappa University	2025	Till Date

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
Research	PDF	-	-
	Ph.D	1	4
	M.Phil	1	-
Project	PG	34	-
	UG / Others	-	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
55	49	-	28	Book 1, Chapters-4 and Patent 2

Cumulative Impact Factor (as per JCR) : 206.5

h-index : 31

i10 index : 36

Total Citations : 2670

Funded Research Projects

Ongoing Projects:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
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

- Top 5% Global Scientist, SciRank Global Scientific Index, 2025.
- Top 2% Scientist Top 2% Scientists Leading Minds in Science, Stanford University & Elsevier, (2025)
- Top 2% Scientist Top 2% Scientists Leading Minds in Science, Stanford University & Elsevier, (2024)
- Top 2% Scientist Top 2% Scientists Leading Minds in Science, Stanford University & Elsevier, (2023)
- Academic and Research Excellence Award-2024, Alagappa University, Karaikudi, Tamil Nadu, India, (05.09.2024).
- 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 Alagappan 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 (09-10th. 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 Member	8 th National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design"[SBCADD'2016]	2016	Department of Bioinformatics, Alagappa University, Karaikudi
Organizing Committee Member	9 th National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design"[SBCADD'2017]	2017	Department of Bioinformatics, Alagappa University, Karaikudi
Organizing Committee Member	10 th National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design"[SBCADD'2018]	2018	Department of Bioinformatics, Alagappa University, Karaikudi
Chair session	National Conference on Advance Materials for Sustainable Energy and Sensors (NCAMSES-2019),	2019.	Department of Physics, Alagappa University, Karaikudi
Organizing Committee Member	International Conference on Recent Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD 2019),	2019	Department of Bioinformatics, Alagappa University, Karaikudi
Chair session	International Conference on Recent Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD 2019),	2019	Department of Bioinformatics, Alagappa University, Karaikudi
Chair session	International Conference on Recent Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD 2022),	2022	Department of Bioinformatics, Alagappa University, Karaikudi
Organizing Committee Member	International Conference on Recent Structural Bioinformatics and Computer Aided Drug Design	2025	Department of Bioinformatics, Alagappa University, Karaikudi

	(ICSBCADD 2025),		
Chair session	International Conference on Recent Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD 2025),	2025	Department of Bioinformatics, Alagappa University, Karaikudi

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 nd -4 th , 2008	Presented
2.	International conference on Materials for the Millennium (MATCON-2010), Cochin University of Science and Technology, Kerala. Synthesis, Characterization and application of TiO₂ for degradation of dyes.	Jan. 11 th -13 th , 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 th -16 th , 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 th -5 th , 2011	Presented
5.	International conference on Advanced Polymeric Materials (APM-2011), CIPET, Chennai. Synthesis and Characterization of Polypyrrole Platinum- nanocomposite.	March, 25 th -27 th , 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 st -23 rd , 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 th -9 th , 2016	Presented
8.	International Conference on Recent Trends in Microbiology, Department of Microbiology, Alagappa University, Karaikudi.	Dec.7 th -8 th 2016	Presented

	Phytochemical screening and antimicrobial activity of <i>Cucumisanguria</i> L. Leaves.		
9.	International Conference on Frontier Areas in Chemical Technologies, Department of Industrial Chemistry, Alagappa University, Karaikudi. Synthesis and characterization of silver nanoparticles conjugate with antibiotics and its enhanced antibacterial activity. Ionic liquid –assisted one-step synthesis of rGO/MnCO₃ composite for High performance super capacitor electrode.	July, 6 th -8 th , 2017	Presented
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 th -14 th , 2019	Presented
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),	Sep. 6 th , 2019.	

	Department of Chemistry, Sree Sevugan Annamalai College, Devakottai. <i>In Silico Study on Molecular Dynamics Simulation of Self assembled nanoparticles against Chikungunya viral disease.</i> <i>Development of Novel Self Assembled Amphiphilic Twin Drugs Nanocarriers by using in silico approach</i>		Presented
18.	International Conference on Recent Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD 2019), Department of Bioinformatics, Alagappa University, Karaikudi. Pharmacoinformatic Exploration of MMP inhibitor for the treatment of Diabetic Retinopathy from <i>Pinus pinaster</i> Phytoligands. Identification potent novel antiviral compound through the computational method.	Dec. 11 th -13 th , 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 designing 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
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 th -26 th 2020	Presented
25.	8 th International Symposium on Computational Biology, Bioinformatics & Ayur Informatics,	January 6-8 th 2022	Presented

	University of Kerala. An <i>In silico</i> approach of computationally designed anticancer twin-drug against breast cancer		
26.	International conference on recent trends in Structural bioinformatics and Computer aided drug design (ISCBADD 2022), Department of Bioinformatics, Alagappa University. <i>In silico</i> molecular docking and Molecular Dynamic Simulation of designed twin drug against cancer	October 21-25 th 2022	Presented
27.	International conference on recent trends in Structural bioinformatics and Computer aided drug design (ISCBADD 2022), Department of Bioinformatics, Alagappa University. Development of Novel amphiphilic drug-drug conjugates through the <i>in silico</i> approach against breast cancer	October 21-25 th 2022	Presented
28.	International conference on Frontier areas in Chemical Technologies, Department of Industrial chemistry, Alagappa University. Computationally designing Glutathione-CeO2 anticancer agent for Drug Discovery against Breast Cancer Treatment	February 16-18 th 2023	Presented
29.	International conference on Frontier areas in Chemical Technologies, Department of Industrial chemistry, Alagappa University. <i>In silico</i> Molecular Dynamic simulation of designed Drug-Drug Amphiphilic drug-drug against cancer	February 16-18 th 2023	Presented
30.	International conference on Frontier areas in Chemical Technologies, Department of Industrial chemistry, Alagappa University. Study on <i>In silico</i> molecular docking and Molecular Dynamic simulation of Computationally Designed twin drug against Breast cancer	February 16-18 th 2023	Presented
31.	International Conference on Biotechnological Interventions In food, Agriculture, Nutrition and Health Sciences for the Sustainable Management of Bioresources (BIFANHS 2023), Department of Biotechnology, Sri Ramakrishna College of Arts and Science, Coimbatore. An <i>In silico</i> approaches of designed twin drugs as anticancer agent against breast cancer	October 04-05 th 2023	Presented
32.	International Conference on Biotechnological Interventions In food, Agriculture, Nutrition and Health Sciences for the Sustainable Management of Bioresources (BIFANHS 2023), Department of Biotechnology, Sri Ramakrishna College of Arts and Science, Coimbatore. Designing of amphiphilic drug-drug conjugates through the <i>In silico</i> approaches as anticancer agents breast cancer	October 04-05 th 2023	Presented
33.	2 nd International Conference on Recent Trends in	February 06-07 th	Presented

	Vaccines and Biomaterials for Animal Health (RTVBAH-2025), Department of Animal Health and Management, Alagappa University. Development of Sustainable Silver Nanoparticles for Targeted Anticancer Activity against Gastric Cancer	2025	
34.	2 nd International Conference on Materials and Applied Science for Society (ICMASS-2025), PG and Research Department of Physics, Alagappa College of Arts and Science, Karaikudi. Development of Carbon Quantum Dots Coated with ZnO nanoparticles for Targeted Cancer Treatment and Drug Delivery.	March 13-14 th 2025	Presented
35.	2 nd International Conference on Materials and Applied Science for Society (ICMASS-2025), PG and Research Department of Physics, Alagappa College of Arts and Science, Karaikudi. Ionic Liquid-Mediated Synthesis of Metal Oxide-Doped Carbon Quantum Dots for Targeted Drug Delivery	March 13-14 th 2025	Presented
36.	International Conference on “FutureBio 2025: Smart Technologies and Sustainable Strategies in Biosciences” (FSTSSB-2025), Department of Animal Health and Management, Alagappa University Karaikudi-630 003. Computational Drug Repurposing Approaches Identify Promising Inhibitors of KRAS G12D Mutation	September 29 th - 30 th 2025	Presented
37.	International Conference on “FutureBio 2025: Smart Technologies and Sustainable Strategies in Biosciences” (FSTSSB-2025), Department of Animal Health and Management, Alagappa University Karaikudi-630 003 Design and <i>In Silico</i> Evaluation of a Disulfide-Bond Conjugated Novel Drug for Targeted Breast Cancer Therapy	September 29 th - 30 th 2025	Presented
38.	International Conference on “Symbiotic Microorganisms as Emerging Tool in Traditional and Herbal Medicine”, Department of Biochemistry, Idhaya College for Women, Sarugani. <i>In silico</i> Design and Evaluation of Combinatorial Phytocompounds through Molecular Docking and Dynamic simulation against Prostate Cancer	October 8 th , 2025	Presented
39.	International Conference cum Workshop on “Global Summit on Innovative Drug Design, Discovery, and Translational Research”, Department of Bioinformatics, School of Life Sciences, Pondicherry University, Pondicherry. Computationally designing novel small molecule using existing FDA Approved drugs against Colorectal Cancer and performed for Molecular Docking and Molecular Dynamics Simulation	October 29 th -31 st , 2025	Presented

	studies		
40.	International Conference cum Workshop on “Global Summit on Innovative Drug Design, Discovery, and Translational Research”, Department of Bioinformatics, School of Life Sciences, Pondicherry University, Pondicherry. Design and <i>In silico</i> Evaluation of Disulfide-Bonded Imiquimod Conjugate as Targeted Therapeutics Against Breast Cancer	October 29 th -31 st , 2025	Presented
41.	International Conference on “Life Sciences for Human Sustainability with special emphasis on control of Vector-Borne Disease”. Department of Microbiology, Syed Ammal Arts and Science College, Ramanathapuram – 623513 Computational Insights into Multi-Target Therapeutics potential of conjugated phytochemicals from <i>Decalepis hamiltonii</i> and <i>Trichosanthes cucumerina</i> for Prostate cancer treatment	November 12 th – 14 th , 2025	Presented
42.	3 rd International Conference cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [ICSBCADD’2025], department of Bioinformatics, Alagappa University, Karaikudi – 630003. Computational Design of a Novel Disulfide-Bond Based Prodrug IMQ-S-S-IMQ for Breast Cancer Therapy	December 17 th - 19 th , 2025	Presented
43.	3 rd International Conference cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [ICSBCADD’2025], department of Bioinformatics, Alagappa University, Karaikudi – 630003. Computational Exploration of <i>Amomum subulatum</i> Phytocompounds Through Network Pharmacology to Identify Hub Genes and Potential Therapeutics for Breast Cancer	December 17 th - 19 th , 2025	Presented
44.	3 rd International Conference cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [ICSBCADD’2025], department of Bioinformatics, Alagappa University, Karaikudi – 630003. Computational Evaluation of GC–MS Derived Phytocompounds from Two Medicinal Plants as Potential RAC1 Inhibitors for Breast Cancer Therapy.	December 17 th - 19 th , 2025	Presented
45.	3 rd International Conference cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [ICSBCADD’2025], department of Bioinformatics, Alagappa University, Karaikudi – 630003. Computational and Experimental Investigation of phytocompounds from <i>Andrographis echinoides</i>	December 17 th - 19 th , 2025	Presented

	plant and synthesis of Metal Oxide nanoparticles by green method		
46.	International Conference On Ai for Genomics and Drug Discovery (ICAGDD-2026), Department of Bioinformatics, Bharathiar University, Coimbatore - 641046 Computational Identification of Potential Anticancer Drugs from FDA-Approved Antibiotics Against Breast Cancer Through a Drug Repurposing Approach	January 28 th - 30 th - 2026	Presented
47.	International Conference on Ai for Genomics and Drug Discovery (ICAGDD-2026), Department of Bioinformatics, Bharathiar University, Coimbatore - 641046 Computationally Designed Single and Conjugated Small Molecules from Plant-Derived Phytocompounds and Conventional Drugs against Life-Threatening Diseases	January 28 th - 30 th - 2026	Presented
48.	International Conference on Bioengineering (ICB 2026), School of Bioengineering, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India. Identification of novel potent small molecules using Machine Learning against the WEE1 kinase protein through molecular docking and molecular dynamics simulations	March 11 th – 13 th , 2026	Presented
49.	International Conference on Bioengineering (ICB 2026), School of Bioengineering, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India. Structure Based In Silico Design of Herbal Drug Conjugates Targeting Breast Cancer Protein	March 11 th – 13 th , 2026	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 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. 13-15 th , 2013	Participated
3.	Workshop on international Frontier Areas in Chemical Technologies (FACTs-2014), Alagappa University, Karaikudi,	Feb. 21-22 nd , 2014	Participated
4.	International Workshop on Data Science and Analysis, Department of computer science,	Sep. 27-28 th , 2016	Participated

	Alagappa University, Karaikudi		
5.	International Workshop on Biomedical applications in Translational Research (BATR-2019) Department of Biomedical Science, Alagappa University, Karaikudi	June, 6 - 7 th , 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 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	March, 14 th -15 th , 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. Toxicity of Au and Au-Pt metal nanoparticles against cancer cell lines (HepG2): Recent insights from in vitro study.	Feb. 16 th -19 th , 2016	Presented
8.	National Seminar on Nanomaterials for Specialized Applications (NMSA-2017) & World Standards day Dept. of Nanoscience 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 SnO₂ 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 using computaional approach for protein pkb-potential target in stomach cancer. E-pharmacophore based virtual screening and molecular dynamic to identify syk inhibitors glioblastoma.	Feb. 12 th -15 th , 2019	Presented
15.	National Conference on Advanced Materials for Sustainable Energy and Sensors, Dept. of Physics, Alagappa University, Karaikudi.	March, 20 th -22 th , 2019	Participated

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 st , 2008	Participated
2.	National workshop on Green process techniques for industrial application (GREPTIA-2009), Alagappa University, Karaikudi	March, 20 th -21 st , 2009	Participated
3.	Workshop an Electroanalytical Techniques, Alagappa University, Karaikudi	Oct. 11 th -13 th , 2010	Participated
4.	Workshop on Recent Trends in Electrochemistry, CSIR-CECRI, Karaikudi	April, 28 th , 2011	Participated
5.	State level workshop on Structural Solving by Powder X-ray Diffraction (SLWSSP-XRD-2011), Alagappa University, Karaikudi	July, 26 th -27 th , 2011	Participated
6.	Workshop on Characterization Techniques (NWCT-1, 2012), Alagappa University, Karaikudi	March, 24 th -26 th , 2012	Participated
7.	Two day lecture workshop on Advance Chemistry, Alagappa University, Karaikudi	Sep. 20 th -21 th , 2013	Participated
8.	World Animal Day celebration, Department of Animal Health and Management, Alagappa University, Karaikudi	Oct. 4 th , 2017	Participated
9.	Four days workshop on Commercialization Prospects of Microbial Formulates, Department of Microbiology, Alagappa University, Karaikudi	Jan. 22 th -25 th 2018	Participated
10.	One day workshop on Design and Development of MOOCs for the Faculty Members of Alagappa University and Affiliated Colleges, Alagappa University, Karaikudi.	Nov. 8 th , 2018.	Participated
11.	First Two days National Workshop on Indigenous Cow Management and their Value Added Products (ICMVAP-2K18), Department of Animal Health Management, Alagappa University, Karaikudi.	Dec.18 th & 19 th , 2018	Participated
12.	One day Workshop on Practicing Nai Talim, Experimental Learning, Community Engagement and Vocational Education, Alagappa University College of Education & Centre for Gandhian Studies, Alagappa University, Karaikudi	Sep. 3 rd , 2019	Participated
13.	One day Workshop on Water conservation, Department of Microbiology, Alagappa University, Karaikudi.	Nov. 22 nd , 2019	Participated

14.	Three Days Skill Training Workshop on Structural Bioinformatics and Computer Aided Drug Design (WSBCADD-25)	Oct 23 rd – 25 th , 2025	Participated
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Extension activities

1. **Refresher Course**, UGC-HRDC, Bharathidasan University, Thiruchirappalli, from **16.07.2019 to 29.07.2019**.
2. **100th 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, Nagapattinam, **23.05.2020**.
6. **Refresher Course**, UGC-HRDC, Bharathidasan University, Thiruchirappalli, from **27.07.2023 to 09.08.2023**.
7. **Refresher Course**, UGC-MMTTC, Madurai Kamaraj University, Madurai, from **07.11.2024 to 20.11.2024**.
8. **Nurturing Future Leadership Programme**, UGC-MMTTP, Bhavan’s S.P. Jain Institute of Management & Research, Mumbai, from **04.08.2025 to 08.08.2025**.

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 / Administrative Committee / Academic Committee	Role
2015 - till date	Member, Board of studies in the Department of Bioinformatics, Alagappa University	Framing the Curriculum
2025 – till date	Member, Board studies in the Msc. Biochemistry in Department of Bioinformatics, Alagappa University	Framing the

		Curriculum
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Academic Bodies 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

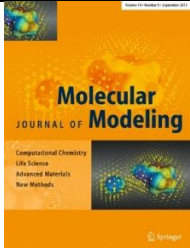
1. **Invited lecture** on “Synthesis of Metal Nanoparticles and Polymer Based Metal Nanocomposite for Biomedical Application” in India-UK Second International Conference on Bishop Heber College, Tiruchirappali, **04th - 06th, February, 2019.**
2. **Invited resource person** for Science Exhibition, in 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.**

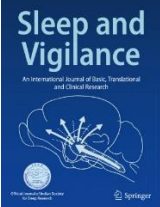
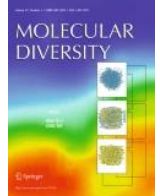
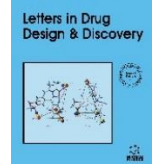
5. **Invited lecture** on “Nanomaterials for Multidisciplinary Applications”, in International Conference on Emerging Trends in Physics, Department of Physics, Madurai Nadars Pioneer Meenakshi Women’s College, Poovanthi, Sivagangai, **08th, February, 2020.**
6. **Invited lecture** on “Nanomaterial synthesis 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.**
7. **Invited lecture** on “Nanomaterials for Multidisciplinary Applications” in One day International Seminar 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, **07th, 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, **28 – 30th 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, **4-6th, 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, **9th, 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, **9th, 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, **9th, March, 2022.**
15. **Invited speaker** on “Bioinformatics approaches to COVID-19 & Nanoformulations to Biological Applications” ICans ALUMNI Lecture on 5D10TBA, Department of

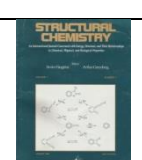
Industrial Chemistry, Alagappa University, Karaikudi, , **23rd, March, 2022.**

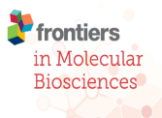
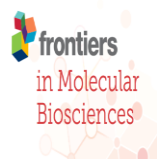
16. **Invited speaker** on “Computationally Designed Small Molecules against Life threatening Disease and their Impact in Drug Discovery” National Conference on Bioengineering and Nanotechnology in Medicine & Biology, Department of Biotechnology, Sree Ramakrishna College of Arts and Science, Coimbatore, **23-24th, March, 2023.**
17. **Invited speaker** on “Development of Alternative Therapies for Human Disorder Through Chemical, Greener and Computational Approaches” International Conference on "**Biotechnological Interventions in Food, Agriculture, Nutrition, and Health Science for the Sustainable Management of Bioresources (BIFANHS-2023)**", Department of Biotechnology, Sree Ramakrishna College of Arts and Science, Coimbatore, **4 and 5th, October, 2023.**
18. **Invited lecture** on “ Impact of Recent Science courses”, Department of Chemistry, NPR Arts & Science college, **09th August 2024.**
19. **Invited lecture** on “Innovative Approaches in Drug Discovery for Life-Threatening Diseases: The Role of Bioinformatics”, School of Bioscience and technology, Vellore Institute of Technology, Vellore, **10th February 2025.**

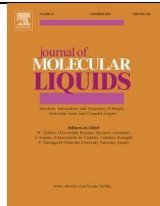
List of Research Articles / Recent Publication

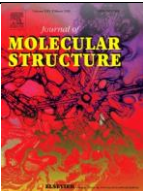
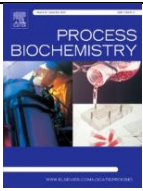
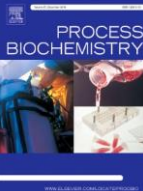
S.NO	Journal Publications	Impact Factor
1.	Rathika Regurajan, Merlin Sobia Poomani, Iyyadurai Mariappan, Venkatesh Subramanian, Muthumanickam Sankar, Boomi Pandi , Krishnaveni Muthan. Computational Analysis of Azole Derivatives Targeting the PI3K/AKT/mTOR Pathway with In Vitro Cytotoxicity and Autophagy Evaluation. Journal of Biochemical and Molecular Toxicology , April 2026, 40(5), e70859. DOI: 10.1002/jbt.70859. Scopus Indexed Journal	 I.F – 2.8
2.	Wafa Houran, Balakumar Chandrasekaran, Sankar Muthumanickam and Pandi Boomi . Computational Molecular Docking and Molecular Dynamics Simulations of Potential Inhibitors from Cistus incanus (Cistaceae) Against Ebola Virus. Biophysica 2026, 6(2), 29; DOI: 10.3390/biophysica6020029. Scopus Indexed Journal	 I.F – 1.4
3.	Swaminathan Ramalingam, Anuradha Venkatraman, Sankar Muthumanickam, Boomi Pandi , Syed Ali Mohamed Yacoob, Balajee Ramachandran & Yogananth Nagarajan. An investigation of fucoidan as a potential inhibitor against DENV/NS3 proteases through molecular dynamics simulations and DFT studies. Journal of Molecular Modeling , November 2025, Volume 31, article number 32, DOI: 10.1007/s00894-025-06527-0, Scopus Indexed Journal	 I.F – 2.5

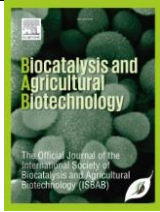
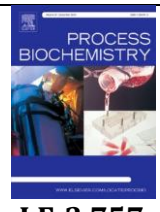
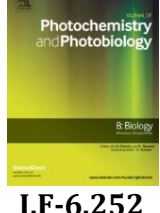
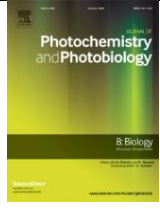
4.	Soumi Paul, Muthumanickam Sankar, Pandi Boomi , Selvakumar Murugesan, Praveen Kumar Kumar & Sivasudha Thilagar. In Silico Approaches for Determining Clinically Feasible Phytohypnotic. Sleep and Vigilance , October 2025, Volume 9, pages 253–270, DOI: 10.1007/s41782-025-00321-x, Scopus Indexed Journal.	 I.F-2.2
5.	Sankar Muthumanickam, Murugesan Manikandan, Boomi Pandi , Balajee Ramachandran, Sonamuthu Jegatheswaran, Mangaiyarkarasi Rajkumar, Jeyaraman Jeyakanthan. In silico design and evaluation of a hydrophobic-hydrophilic combinatorial drug systems for targeted breast cancer therapy. Biochemical and Biophysical Research Communications , September 2025, 781, 152499. DOI:10.1016/j.bbrc.2025.152499.	 I.F-2.2
6.	Gomathi Rajagopal, Balajee Ramachandran, Paradesi Deivanayagam, Venkatesan Srinivasadesikan, Boomi Pandi , Saravanan Muthupandian, Rajamanikandan Sundarraj, Goyitom Gebremedhn Gebru. Induction of zinc conjugated with Doxorubicin for the prevention of aggregating β -catenin in the Wnt signaling pathway investigated through computational approaches. PloS one , April 2025, 20, 4, e0316665. DOI: 10.1371/journal.pone.0316665. Scopus Indexed Journal.	
7.	Sankar Muthumanickam, Balajee Ramachandran, Jeyaraman Jeyakanthan, Sonamuthu Jegatheswaran & Boomi Pandi* . Designing a novel drug–drug conjugate as a prodrug for breast cancer therapy: in silico insights. Molecular Diversity , June 2024, 29, 991-1007, DOI: 10.1007/s11030-024-10886-w. Scopus Indexed Journal.	 I.F-3.8
8.	Ravichellam Sangavi, Sankar Muthumanickam, Nambiraman Malligarjunan, Ravi Jothi, Pandi Boomi , Seenichamy Arivudainambi, Muthusamy Raman, Chaitanya G Joshi, Shunmugiah Karutha Pandian, Shanmugaraj Gowrishankar. In silico analysis unravels the promising anticariogenic efficacy of fatty acids against dental caries causing Streptococcus mutans. Journal of Biomolecular Structure and Dynamics , November 2023, 41, 611-626, DOI: 10.1080/07391102.2023.2283155. Scopus Indexed Journal.	 I.F-2.4
9.	Abirami Arunachalam, Muthumanickam Sankar, Boomi Pandi , Soumi Paul & Sivasudha Thilagar, Evaluation of Rapanone and Nectandrin B as novel inhibitors for targeting the metastatic regulator protein BACH1 using breast cancer cell line Mcf-7, Journal of Biomolecular Structure and Dynamics , September 2023, 11185-11200, DOI: 10.1080/07391102.2023.2260880. Scopus Indexed Journal.	 I.F-2.4
10.	Chandrasekaran, Balakumar, Pandi Boomi , Mohammad F. Bayan, Sankar Muthumanickam, and Mohammad H. Alyami. "Computational Design of a Novel Inhibitor against COVID." Letters in Drug Design & Discovery 21, no. 17, August 2024, 3934-3945. DOI: 10.2174/0115701808322637240722052915. Scopus Indexed Journal.	 I.F-1.6

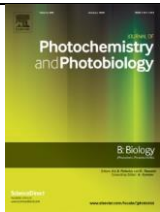
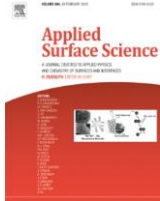
11.	Wang, Y., Weng, S., Tang, Y., Lin, S., Liu, X., Zhang, W., Liu, G., Pandi, B. , Wu, Y., Ma, L. and Wang, L., 2024. A transmembrane scaffold from CD20 helps recombinant expression of a chimeric claudin 18.2 in an in vitro coupled transcription and translation system. Protein Expression and Purification , 215, March 2024, p.106392. DOI: 10.1016/j.pep.2023.106392. Scopus Indexed Journal.	 I.F-1.2
12.	G. Wang, Z. Jiang, Y. Song, Y. Xing, S. He, P. Boomi , Gut microbiota contribution to selenium deficiency-induced gut-liver inflammation, Journal of Biofactor , April 2023, 1-15. DOI: 10.1002/biof.2006 Scopus Indexed Journal.	 I.F-6.438
13.	R. Sangavi, S. Muthumanickam, N. Malligarjunan, R. Jothi, P. Boomi , S. Arivudainambi, M. Raman, C.G. Joshi, S.K. Pandian, S. Gowrishankar, In silico analysis unravels the promising anticariogenic efficacy of fatty acids against dental caries causing Streptococcus mutans. Journal of Biomolecular Structure and Dynamics , November, (2023), 22, 1-16 Scopus Indexed Journal.	 I.F-5.235
14.	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. Journal of Biomolecular Structure and Dynamics , September, (2023), 23, 1-16 Scopus Indexed Journal.	 I.F-5.235
15.	S. Muthumanickam, B. Ramachandran, , P. Boomi , J. Jeyakanthan, H. Gurumalles Prabhu, S. Jegatheswaran, K. Premkumar, Combination of bendamustine-azacitidine against Syk target of breast cancer: an in silico study Journal of Biomolecular Structure and Dynamics , April, (2023), 26, 1-13, Scopus Indexed Journal.	 I.F-5.235
16.	B. ArjunKumar, V. Vetrivelan, G. Ramalingam, A. Manikandan, S. Viswanathan, P. Boomi , G. Ravi, Computational studies and experimental fabrication of DSSC device assembly on 2D-layered TiO ₂ and MoS ₂ @TiO ₂ nanomaterials, Physica B: Condensed Matter , May (2022) 633. 413770, Scopus Indexed Journal	 I.F-2.436
17.	B. Ramachandran, C. Jeyarajpandian, J. Mercy Jeyaseelan, D. Prabhu, S. Rajamanikandan, P. Boomi , R. Venkateswari, J. Jeyakanthan, Quercetin-induced apoptosis in HepG2 cells and identification of quercetin derivatives as potent inhibitors for Caspase-3 through computational methods, Structural Chemistry , May (2022) 33, 867-1893, Scopus Indexed Journal	 I.F-1.795
18.	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 Pharmaceutical Sciences , March (2021) 5.4, 55-66, Scopus Indexed Journal	 I.F-1.020

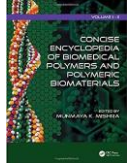
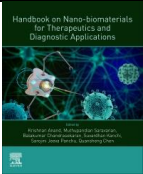
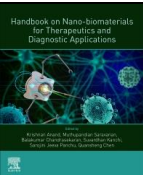
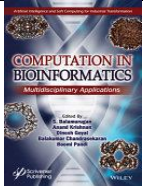
19.	S. Vasudevan, A. Venkatraman ¹ , Syed Ali Mohammed Yahoob, Sasirekha, M. Jojula, S. Ravikumar, P. Boomi , Biochemical evaluation and molecular docking studies on encapsulated astaxanthin for the growth inhibition of <i>Mycobacterium tuberculosis</i> , Journal of Applied Biology & Biotechnology , September (2021) 9, 31-39 , Scopus Indexed Journal .	
20.	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 and Therapeutics , July (2021), 8, 637329 , Scopus Indexed Journal .	 I.F-5.246
21.	S. Muthumanickam, P. Boomi* , M. Nachiappan, R. Balajee, R. Vidhyavathi G. Poorani, S. Gowrishankar, Y. Wang, M. Biruntha, R. Subaskumar C. Balakumar, M. F. Bayan, J. Jeyaraman, H.G. Prabu K. Solomon, In Silico Screening of Natural Phytoconstituents Towards Identification of Potential Lead Compounds to Treat COVID-19, Frontiers in Molecular Biosciences, Molecular Diagnostics and Therapeutics , July (2021), 8, 637122 , Scopus Indexed Journal .	 I.F-5.246
22.	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 , March, (2021), 8, 604447 , Scopus Indexed Journal .	 I.F-5.246
23.	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 .	 I.F-6.023
24.	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 .	 I.F-3.512
25.	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

26.	M. Karunakaran, K. Kasirajan, M. Balaji, P. Boomi , S. Mahalingam, S. Balamurugan, Cyclodextrin functionalized multi-layered MoS ₂ 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.	 I.F-6.165
27.	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.	 I.F-5.235
28.	P. Boomi* , R. Ganesan, G. Poorani, S. Jegatheeswaran, C. Balakumar, H. Gurumalles Prabhu, 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.	 I.F-6.400
29.	M. Karunakaran, S. Maheswari, K. Kasirajan, B. Chandrasekar, P. Boomi , Yttrium- substituted SnO ₂ thin films and its gas sensing activity against NH ₃ gas: Characterization and sensitivity evaluation, Sensors & Actuators: A. Physical , August, (2020), 315, 112303, Scopus Indexed Journal.	 I.F-3.407
30.	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
31.	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.	 I.F-3.210
32.	P. Boomi* , G. Poorani, S. Selvam, S. Palanisamy, S. Jegatheeswaran, K. Anand, C. Balakumar, K. Premkumar, H. Gurumalles Prabhu, 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.	 I.F-4.105

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34.	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.	 I.F-3.757
35.	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.	 I.F-0.31
36.	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.	 I.F-5.235
37.	S. Jegatheeswaran, C. Yurong, L. Han, M.K. Mohamed Subarkhan, V. Vasantha Ruban, P. Boomi , W. Hangxiang, Y. Yuming, MMP-9 Responsive Diptide-templated 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.	 I.F-6.957
38.	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.	 I.F-3.061
39.	S. Palanisamy, R. Anjali, M. Vinosha, M. Reka, S. Selvakumar, P. Boomi , K. Anand, N.M. Prabhu, 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.	 I.F-3.757

40.	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.	 I.F-3.061
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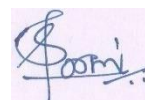
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S.No	Tile of the patent	Name of the inventors with affiliation	Application number & filing Date	Status
1	Bio Feed for Aquaculture	Dr. R. Subashkumar R. Karthick Dr. S. Rathish kumar Dr. B.L. Shivakumar	202141046236 & 11/10/2021	Published

		Dr. THA. Thayumanavan Dr. P. Boomi Dr. A. Sivaranjini		
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. Gurumalles Prabu Dr. P. Sagadevan	202141049992 & 07/12/2021	Granted

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