

Name of the Teaching Staff	Dr. B. JEBASINGH			
Designation	Associate Professor			
Department	Department of Applied Chemistry			
School	School of Sciences, Media and Management			
Date of Joining the Institution	16 th July 2012			
Qualification with Specialization	UG	PG	Ph.D.	
	Chemistry	Chemistry	Chemistry	
Value Additions	Post Doctoral Fellow, <i>UGC Research Awardee, Indian Young Researcher</i>			
Research Expertise	Medicinal Organic Chemistry and Nanochemistry			
Subjects Teaching	Under Graduate		Post Graduate	
	Nanochemistry & Next Gen. Materials Applied Chemistry Chemistry in Everyday Life Environmental Science Forensic Sciences Laboratory Inorganic Chemistry Laboratory, Engineering Chemistry		Medicinal Organic Chemistry Synthetic Organic Chemistry Lab Research Methodology and IPR Chemical Thermodynamics and Electrochemistry Entrepreneurship and Business Plan Qualitative Inorganic Analysis Lab Cheminformatics, HPLC MASS Technology	
Total Experience in Years	Teaching	Industry	Research	
	9	0.5	16*	
Papers Published	National	--	International	12
Papers Presented in Conference	National	04	International	11
Conferences / Symposiums / Seminars / Workshops Participated	National	35	International	08
FDP / STTP / MDP / Summer / Winter School attended	11			
M.Phil. / Ph.D. Guidance	Field		University	
	Medicinal Organic Chemistry and Nanochemistry		KITS	
Ph.D. Projects Guided	Ph.D.s	02	Project at Master's Level	16
Professional Memberships	ACS, MRS, ESMI, RSC etc			
Consultancy Activities	1) Microbiological Laboratories Research and Service (P) Ltd, Cbe, 2) Unilever R&D (P) Ltd, Bangalore 3) Sami Labs (P) Ltd 4) Neo Sciences Labs (P) Ltd, Chennai 5) Molecular Imaging Probe Technologies (P) Ltd, 6) Ami BioSciences, Coimbatore			

	<p>7) KMCH, Coimbatore</p> <p>8) Chematech-mdt Macrocycles design Technologies, Dijon, France</p>
Awards & Honours	<p>1) Best Research Award from New Science Innovations 2020 Awards</p> <p>2) Achiever's Award-2016 from Karunya University-Coimbatore</p> <p>3) Research Award for Teachers by UGC Delhi (25 Lakhs) National Level Award</p> <p>4) Fast Track- Young Scientist Awardee from DST Govt. of India with grant Rs 25.05 lakhs</p> <p>5) Achiever's Award- 2014 from Karunya University-Coimbatore</p> <p>6) Best Faculty Award–2015 in TN & Kerala Region by Nehru Group of Institutions, Coimbatore</p> <p>7) CDD Researcher at ICSN-CNRS, Govt. of France, Paris.</p> <p>8) Postdoc Fellowship: Funds from CIRCMSB, Bari-IT, for Biomedical Research.</p> <p>9) Indian Young Researcher Award: 2006-2008 – MIUR, IndoItalian collaboration research, Italy.</p> <p>10) Research Associate: 2005-2006 Defense Research Development Organization, Delhi, India.</p> <p>11) Senior Research Fellow: 2002-2004 Defense Research Development Organization, Delhi, India.</p> <p>12) Junior Research Fellow: 1998-2001 Council of Scientific and Industrial Research – India.</p>
Grants Fetched	<p>1) DST-DPRP Industry Collaboration Project Rs 98.95 Lakhs, 2017-2020.</p> <p>2) UGC – DAE Consortium Research, IGCAR, Kalpakkam Node – 07.32 Lakhs, 2017-2020.</p> <p>3) Research Award 2012-2014 for Teachers by UGC Delhi (25 Lakhs) National Level Award</p> <p>4) Fast Track- Young Scientist Awardee from DST Govt. of India with grant Rs 25.05 lakhs</p> <p>5) Karunya Seed Money Grant Rs. 25,000 /-</p> <p>6) Postdoc Fellowship: 2008-09 Funds from CIRCMSB, Bari-IT, Euro: 27,458.</p> <p>7) Short Term Grant from Telethon S. p. a., Rome, Italy, Euro 8000 in 2008.</p> <p>8) Kao Corporation Japan 2006-2007 – in Collaboration with Universita di Torino, Italy – Euro 33,564.</p>
Interaction with Professional Institutions	<p>1) CeNSE, IISc Bangalore, India</p> <p>2) BRAC-BRNS, DAE, Chempur, Mumbai,</p> <p>3) C-MET, MeitY, Pune</p> <p>4) University of Buffalo, State University of New York, USA</p> <p>5) Universita di Torino, Italy</p> <p>6) Universita de Bourgogne, Dijon, France.</p> <p>7) ICSN-CNRS, Govt. of Franch, Paris France.</p> <p>8) Dept of Chemistry and Chemical Biology, Boston University, USA</p>
Educational Details with Institute / University Name	<p>B.Sc. – Chemistry, Rajapalayam Rajus College/M. K. University</p> <p>M.Sc. – Chemistry, Bishop Heber College/Bharathidasan University</p> <p>M.Phil. –</p> <p>Ph.D. – Chemistry, Loyola College/University of Madras</p>
Experience	<p>May 2017- till now Associate Professor, Department of Chemistry, S&H, Karunya University, Coimbatore, Tamilnadu, INDIA.</p> <p>July 2012- April 2017 Assistant Professor SG, Department of Chemistry, S&H, Karunya University, Coimbatore, Tamilnadu, INDIA.</p>

	<p>Jan 2012-June 2012 Postdoctoral Fellow, ICMUB, University of Bourgogne, DIJON, France Nov' 2010-Dec'2011 CDD Researcher in ICSN-CNRS, French Government, Paris, France</p> <p>Oct'2008- Oct'2010, as Postdoctoral Fellow on “Synthesis & Characterization of Molecular Imaging probes-targeted Responsive systems/Enzyme sensitive” in Centre of Molecular Imaging, University of Torino, Via Nizza 52, Torino – 10126, Italy.</p> <p>June 2006 - Sep' 2008, as Indian Young Researcher in “Synthesis & Characterization of Molecular Imaging probes-Metal based novel targeted systems” Department of Chemistry IFM, University of Torino, Via Pietra Guiria 7, Torino, Italy</p> <p>December 2005-May 2006, as Research Scientist (R&D) in Nicholas Piramal India Ltd, R&D-Center, Ennore, Chennai, India. (Step Reduction Schemes)</p> <p>June 2005- Dec 2005, as Full-Time Lecturer in Department of Chemistry (Evening College), Guru Nanak College, for PG Chemistry Organic/Inorganic topics, Chennai, India.</p> <p>2001-2005, as Senior Research Fellow in the DRDO project entitled as “Synthesis and Relaxivity Studies of Gadolinium(III) complexes of Biomacromolecule Appended Polyazapolyoxycarboxylate Macrocycles” and “Synthesis and Spectroscopic, Photochemical, and Electrochemical Studies of Photochemical Supramolecular Assemblies as Light Harvesting Antennas” in Department of Chemistry, Loyola College, Chennai, India.</p> <p>1998-2001, as Junior Research Fellow in the CSIR project entitled as “Synthesis and Relaxivity Studies of Dinuclear Gadolinium(III) complexes of ADP-conjugated Polyazapolyoxycarboxylate Macrocycles as Contrast Enhancing Agent in Magnetic Resonance Imaging” in Department of Chemistry, Loyola College, Chennai, India</p>
Contact Details	<p>Room No: 18 Building : S&H Block (IInd Floor) Mobile : 9952008385 Intercom : 4409 E-mail : jebasinghb@karunya.edu Google Scholar link : Webpage(if any) :</p>
<p><u>Papers Published</u></p> <ol style="list-style-type: none"> 1. Molecular Imaging Probe: Synthesis and Characterization of Gd(III) Complex of Tetrahydrazinated Cyclen with Enriched Exchangeable Protons for High-Resolution Images in MRI, Divya Rajendran, Judith Elizabeth, Sundar Manoharan, Nagabhusan Vellala, Brahmadathan Kootallur, Jebasingh Bhagavathsingh. <i>J. Organomet. Chem.</i> 2021 (under review). 2. A Portable Sensor for Escherichia Coli Detection in Complex Water Matrices Using Two-Dimensional Functionalized Graphene Oxide Nanosheets. Lina Rose, Anita Mary, Johnson I, Ganesh Srinivasan, Lakshmi Priya, Jebasingh Bhagavathsingh. <i>Sci. Reports.</i> 2021 (In Press). 3. Efficiency Assessment of Aluminium and Copper Electrodes in the Removal of Red BFL Dye Aqueous Solution in Electrocoagulation. Parameswari K, Jithin C J, Subbiah Kavitha, Dhanasekaran Padmanabhan, Jegathambal Palanichamy, Jebasingh Bhagavathsingh, Asath Murphy S, Jovitha Jane. <i>Environmental Research</i> 2021 (Accepted). 4. Synthesis and Characterization of Stretchable IPN Polymers from Biodegradable Resins Incorporated With Styrene and Methyl Methacrylate Monomers for Enhanced Mechanical Strength. Mercy Eben, Karthick Cithuraj, Justus Shakina, Jebasingh Bhagavathsingh. <i>Eur. Polymer J.</i> 2020, 138, 109957 doi.10.1016/j.eurpolymj.2020.109957. 5. Copper(II) Complex Intercalated Graphene Oxide Nanocomposites as Versatile, Reusable Catalysts for Click Reaction. Angel Green Samuel, Karthikeyan Nagarajan, Karthick Cidhuraj, Bhalerao Gopal, Sujay Chakravarty, Varadharajaperumal Selvaraj, Emmanuvel Lourdusamy, Jebasingh Bhagavathsingh. <i>Appl. Organomet. Chem.</i> 2020, e6017. doi. 10.1002/aoc.6017. 	

6. Facile Synthesis of 1,4-Disubstituted 1,2,3-Triazoles Using Tetraaza-coordinated Copper(II) Complexes as Efficient Catalysts. Angel Green Samuel, **Jebasingh B.** *Chemistry Select* **2020**,5, 1-5.
7. A Tris-(2-aminoethyl)amine-Intercalated Graphene Oxide as an Efficient 2D Material for Cerium Ion Fluorescent Sensor Applications. Stephen Elsie, Angel Green, Divya Rubavathi, Abiram Angamuthu, Bhalerao Gopal, **Jebasingh B.** *ACS Omega* **2019**, 7, 111-117.
8. A Facile Synthesis of Bis-(phtthalimidoethyl)-amine Functionalized Graphene Oxide (GO-bis(PIEA)) and Its Dual Performance as a Supercapacitor Electrode and Fluorescence Sensor Ramesh, P. ; **Jebasingh, B.** *Material Chem. Phy.* **2019**, 152, 46-54.
9. Facile and Effective Oxidation of Graphite Using Sodium Metaperiodate Ramesh, P.; **Jebasingh, B.** *Materials Lett.* **2017**, 305-309.
10. Synthesis and Characterization of a Versatile Supramolecular Synthon and its Tetranuclear Ru(II) Complexes, Pitchaikani Raja, Y.; Alexander, V. ; **Jebasingh, B.** *Eur. J. Inorg. Chem.*, **2021**, (Under revision).
11. Glycosylation of L-DOPA and Dopamine by Chemical methods. **B. Jebasingh**, Massimo Bertoldi, Franco Fedeli, Silvio Aime. *Tetrahydron Letts*, **2021**, (Under revision).
12. β -Gal gene expression MRI reporter in melanoma tumour cells. Design, Synthesis, *in vitro* and *in vivo* testing of a Gd(III) containing probe forming a high relaxivity, melanin like structure upon β -gal enzymatic activation. **B. Jebasingh**, Eliana Ginanlio, Franco Fedeli, Silvio Aime. *Bioconjugate Chem.* **2011**, 22(12), 2625-2635.
13. Highly Shifted LIPOSCEST Agents Based on the Encapsulation of Neutral polynuclear Paramagnetic Shift Reagents. Enzo Terreno, Alessandro Barge, Lorena Beltrami, Gaiancarlo Cravotto, Daniela Delli Castelli, Franco Fedeli, **B. Jebasingh**; Silvio Aime. *Chem. Commun.* **2008**, 600-602.
14. Microwave assisted synthesis of 1,4,7,10-tetraazacyclododecane. **Jebasingh, B.**; Alexander, V. *Syn. Commun.* **2006**, 36(5), 653 – 657.
15. Synthesis and Relaxivity Studies of a Tetranuclear Gadolinium(III) Complex of DO3A as a Contrast-Enhancing Agent for MRI. **Jebasingh, B.**; Alexander, V. *Inorg. Chem.* **2005**, 44(25), 9434-9443.
16. Efficient Reduction of tetrakis(2-cyanoethyl)cyclen with Sodium/Toluene and Synthesis of Carboxyethyl-, Hydroxyethyl, and Carboxy ester functionalized pendant arms of cyclens. **Jebasingh, B.**; Alexander, V. *Syn. Commun.* **2004**, 34, 2843-2848.
17. Monoalkylation of Cyclen **Jebasingh, B.**; Alexander, V. *Chem. Rev.* **2021**, (manuscript under preparation).

Papers Presented in Conference

1. Presented Paper in National Symposium on Nanoscience and Nanotechnology (NSNST-2018) organized by CeNSE, IISc Bangalore on 20-22nd June 2018.
2. Presented paper in National Conference on Advancement in Pharmaceutical Sciences in Department of Pharmaceutical sciences, Anna University BIT Campus, Trichy on 03-04th February 2017.
3. Poster Paper in international conference “Chennai Chemistry Conference” in CLRI, Chennai, India on February 7-10, 2013.
4. Poster Presentation in International conference “COST ACTION D38”, on “Molecular Imaging Probes Developments” in Lisbon, Portugal on April 27-29, 2008.

Patents : Nil

Books / Book Chapters : NIL

Research Group Members

- 1) Mr. Xavier Thaliyazky (2020)
- 2) Mr. T.V. Dinesh (2020)
- 3) Ms. Angel Green (2016) - DST project
- 4) Ms. Divya Rubavathi (2016) – UGC-DAE-CSR Project
- 5) Mr. Srinivasan (2017) – UGC-DAE-CSR Project
- 6) Mr. P. Ramesh (2014) - UGC Project
- 7) Mr. Dinesh (Project Assistant) –DST project
- 8) Mr. Uma Maheswaran (Project Assistant)- MLRS DST project



Any other additional details

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