Sri Venkateswara College

(University of Delhi)
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Print Date : 24-06-2026

1. Personal Profile

Title: **Dr.** First Name: **RANGARAJAN** Last Name: **T. M.**

Designation: **ASSISTANT PROFESSOR** Mobile No. **----------**

Phone No. (Office) **----------** Phone No. (Residence): **----------**

Email: **rt.m@svc.ac.in** Webpage: **https://www.svc.ac.in/SVC_MAIN/Departments/FacultyChemistry/Rangarajan.php**

Facebook: **http://loop.frontiersin.org/people/2825148/overview?referrer=orcid_profile** Twitter: **http://www.scopus.com/inward/authorDetails.url?authorID=23486371100&partnerID=MN8TOARS**

LinkedIn: **https://www.linkedin.com/in/rangrajan-t-m-a9a008269/** Instagram: **0000-0002-5972-1879**

Youtube: **https://www.webofscience.com/wos/author/record/L-3865-2014** Research Gate Link: **https://www.researchgate.net/profile/Ranga-Rajan**

Google Scholar Link: **https://scholar.google.co.in/citations?user=6Qe4WPAAAAAJ&hl=en**

Address: **----------**

2. Educational Qualifications

Degree/ Certification	Institution	Year
M.Sc	Madurai Kamaraj University	2006
M.Phil.	Madurai Kamaraj University	2007
Ph.D.	University of Delhi	2015

3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	POST DOCTORATE	DEPARTMENT OF CHEMISTRY Dr. Reddy's Inst. of Life Sciences and University of Hyderabad	06.May.2015 - 11.Feb.2016	Synthesis of Intermediates and API Drug
CAREER PROFILE	POST DOCTORATE	DEPARTMENT OF CHEMISTRY School of Chemistry, University of Hyderabad	12.Feb.2016 - 23.Dec.2016	Natural Products Synthesis

CAREER PROFILE	SR. RESEARCH ASSISTANT	DEPARTMENT OF CHEMISTRY API Division, R&D Synthesis, Shasun Research Centre, Chennai	03.Mar.2008 - 08.Jan.2009	API Synthesis
CAREER PROFILE	SR. RESEARCH ASSISTANT	DEPARTMENT OF CHEMISTRY Project Assistant-II: Electroorganic Division, CSIR-Central Electrochemical Research Institute (CECRI)	12.Jan.2009 - 30.Nov.2011	Electrochemical perfluorination reaction, Electroorganic Synthesis.
CAREER PROFILE	SR. RESEARCH ASSISTANT	DEPARTMENT OF CHEMISTRY JRF, and SRF, Sri Venkateswara College, University of Delhi	15.Dec.2011 - 30.Apr.2015	
CAREER PROFILE	ASSISTANT PROFESSOR	DEPARTMENT OF CHEMISTRY Sri Venkateswara College, University of Delhi	02.Aug.2017 - 15.Feb.2023	
CAREER PROFILE	ASSISTANT PROFESSOR	DEPARTMENT OF CHEMISTRY Sri Venkateswara College, University of Delhi	17.Feb.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ICT ACADEMY COMMITTEE Sri Venkateswara College, University of Delhi	25.Aug.2023 - 31.Jul.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PROCTORIAL COMMITTEE Sri Venkateswara College, University of Delhi	01.Oct.2023 - 31.Aug.2025	
ADMINISTRATIVE ASSIGNMENTS	CO-CONVENER	DEPARTMENT OF CHEMISTRY Sri Venkateswara College, University of Delhi	01.Aug.2024 - 31.May.2025	Departmental Magazine Committee

4. Other Profiles

Other Profile Name/ Description

5. Research Guidance

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status

6. Research Projects

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction

7. Publications

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link

JOURNAL PAPER (International)	Unveiling the choline chloride–thiourea (1 : 1) DES as a greener medium and reagent for pyrimidinethione synthesis from ?,?-unsaturated carbonyl compounds	Organic & Biomolecular Chemistry	1. S. Apeksha, Y. Ankit, V. Shashwat, T. Khushi, T. M. Rangarajan,* P. Sharda,* (Corresponding Author)	https://doi.org/10.1039/D5OB00182J
JOURNAL PAPER (International)	Deep Eutectic Solvents (DESs): Emerging viable solvent systems for transition-metal-catalyzed cross-coupling reactions	Journal of Molecular Liquids	Sharda Pasricha,* Pragya Gahlot, T. M. Rangarajan,* Shikha, Deepak, Harsh Pahuja, Divya Yadav, Pratham, Khushboo Pilania, Sachid Anand (Corresponding Author)	https://doi.org/10.1016/j.molliq.2025.127287
JOURNAL PAPER (International)	Oxime functionalized Chalcones: Unveiling a new class of Chalcones with potent Antiplasmodial activity against blood-stages of Plasmodium falciparum in culture	Bioorganic and Medicinal Chemistry Letters	Reeta Chaudhary, Ayushee, Vinoth Rajendran,* T. M. Rangarajan,* (Corresponding Author)	https://doi.org/10.1016/j.bmcl.2025.130143
JOURNAL PAPER (International)	Greener media for nanocatalysts in Suzuki Miyaura reaction	Coordination Chemistry Reviews	P. Sharda,* Sachidanand, S. Abhay, Y. Srishti, A. Sunny, T. Nikita, T. M. Rangarajan,* Kavita Mittal (Corresponding Author)	https://doi.org/10.1016/j.ccr.2025.216431

JOURNAL PAPER (International)	Recent Progress in Synthetic and Natural Catechol?O?methyltransferase Inhibitors for Neurological Disorders	ACS Omega	5. S. Bindra, A. Datta, H. K. A. Yasin, R. R. Thomas, S. Verma, A. Patel, D. G. T. Parambi, S. N. Mali, T. M. Rangarajan,* and B. Mathew* (Corresponding Author)	https://doi.org/10.1021/acsomega.4c06190
JOURNAL PAPER (International)	Oxime Derivatives: A Valid Pharmacophore in Medicinal Chemistry	ChemistrySelect	6. C. Namitha, K. Bose, C. T. Amrutha, R. T. Riya, A. Karthika, B. Sandeep, S. Sooraj, H. A. Hasan, K. Sunil, T. M. Rangarajan, A. G. Al-Sehemi, G. Prashant, H. Kim, B. Mathew (Joint Author)	https://doi.org/10.1002/slct.202401726
JOURNAL PAPER (International)	Optimal exploitation of supported heterogenized Pd nanoparticles for C-C cross-coupling reactions	Coordination Chemistry Reviews	A. Srivastava, H. Kaur, H. Pahuja, T. M. Rangarajan, R. S. Varma, Sharda Pasricha (Corresponding Author)	https://doi.org/10.1016/j.ccr.2024.215763
JOURNAL PAPER (International)	A Comprehensive Review of the Docking Studies of Chalcone for the Development of Selective MAO-B Inhibitors	CNS Neurological Disorders - Drug Targets	A. Krishna, S. Kumar, S. T. Sudevan, A. K. Singh, L. K. Pappachen, T. M. Rangarajan, M. A. Abdelgawad, B. Mathew (Joint Author)	http://dx.doi.org/10.2174/1871527322666230515155

JOURNAL PAPER (International)	Click Chemistry": An Emerging Tool for Developing a New Class of Structural Motifs against Various Neurodegenerative Disorders	ACS Omega	A. Manoharan, J. Jayan, T. M. Rangarajan, K. Bose, F. Benny, R. S. Ipe, S. Kumar, N. Kukreti, M. A. Abdelgawad, M. M. Ghoneim, H. Kim, Mathew, B. (Joint Author)	https://doi.org/10.1021/acsomega.3c04960
JOURNAL PAPER (International)	An efficient method to access spiro pseudoindoxyl ketones: evaluation of indoxyl and their N-benzylated derivatives for inhibition of the activity of monoamine oxidases	RSC Adv	K. Perumal, J. Lee, S. B. Annes, S. Ramesh, T. M. Rangarajan, B. Mathew, Hoon Kim (Joint Author)	https://doi.org/10.1039/D3RA03641C
JOURNAL PAPER (International)	Exploration of a new class of monoamine oxidase B inhibitors by assembling benzyloxy pharmacophore on halogenated chalcones	Chemical Biology & Drug Design	A. K. Singh, S. –M. Kim, J. M. Oh, M. A. Abdelgawad, M. M. Ghoneim, T. M. Rangarajan, S. Kumar, S. T. Sudevan, D. Trisciuzzi, O. Nicolotti, H. Kim, B. Mathew (Joint Author)	https://doi.org/10.1111/cbdd.14238
JOURNAL PAPER (International)	Langlois' Reagent: An Efficient Trifluoromethylation Reagent	SynOpen	K. Anusha, M. Megha, Shikha, T. M. Rangarajan*, Sharda Pasricha (Corresponding Author)	DOI: 10.1055/a-2024-1382
JOURNAL PAPER (International)	Solid-support Heterogenized Palladium Nanoparticles: Propitious Vehicles for Sonogashira Cross-Coupling Reaction	SynOpen	S. Abhay, A. Nishita, Sachidanand, Y. Divya, T. M. Rangarajan*, Sharda Pasricha (Corresponding Author)	DOI: 10.1055/a-2011-9319

JOURNAL PAPER (National)	A simple and benign route to acetylation of primary aromatic amines: An undergraduate chemistry experiment	Resonance: Journal of Science Education	Sharda Pasricha, T. M. Rangarajan (Joint Author)	https://link.springer.com/article/10.1007/s12045-023-1551-2
JOURNAL PAPER (International)	Two dimensional-QSAR and molecular dynamics studies of a selected class of aldoxime- and hydroxy-functionalized chalcones as monoamine oxidase-B inhibitors	Journal of Biomolecular Structure and Dynamics	B. Mathew, V. Ravichandran, S. Raghuraman, T. M. Rangarajan, M. A. Abdelgawad, I. Ahmad, H. M. Patel & Hoon Kim (Joint Author)	https://doi.org/10.1080/07391102.2022.2146198
JOURNAL PAPER (International)	Introduction of benzyloxy pharmacophore into aryl/ heteroaryl chalcone motifs as a new class of monoamine oxidase B inhibitors	Scientific Reports	T. S. Sachithra, J. M. Oh, M. A. Abdelgawad, M. A. S. Abourehab, T. M. Rangarajan, K. Sunil, I. Ahmad, H. Patel, H. Kim, B. Mathew (Joint Author)	https://www.nature.com/articles/s41598-022-26929-x
JOURNAL PAPER (International)	FDA-Approved Trifluoromethyl Group-Containing Drugs: A Review of 20 Years	Processes	S. N. Aathira, K. S. Ashutosh, K. Astik, K. Sunil, S. Sukumaran, P. K. Vishal, K. P. Leena, T. M. Rangarajan, H. Kim, M. Bijo (Joint Author)	https://doi.org/10.3390/pr10102054
JOURNAL PAPER (International)	Revealing the role of benzyloxy pharmacophore in the design of a new class of MAO-B inhibitors	Archiv der Pharmazie	T. S. Sachithra, T. M. Rangarajan, A. G. Al-Sehemi, S. N. Aathira, P. K. Vishal, Bijo Mathew (Joint Author)	https://doi.org/10.1002/ardp.202200084

JOURNAL PAPER (International)	Development of 2D, 3D-QSAR and Pharmacophore Modeling of Chalcones for the Inhibition of Monoamine Oxidase B	Combinatorial Chemistry & High Throughput Screening	B. Mathew, H. A. Chonny, D. Sanal, T. M. Rangarajan, N. Marraiki, G. E. S. Batiha, L. Scotti, M. T. Scotti (Joint Author)	http://dx.doi.org/10.2174/138620732466621081612573
JOURNAL PAPER (International)	Aldoxime- and Hydroxy-Functionalized Chalcones as Highly Potent and Selective Monoamine Oxidase-B Inhibitors	Journal of Molecular Structure	Jong Min Oh, T. M. Rangarajan*, Reeta Chaudhary, Nicola Gambacorta, Orazio Nicolotti, Sunil Kumar, Bijo Mathew*, Hoon Kim (Corresponding Author)	https://doi.org/10.1016/j.molstruc.2021.131817
JOURNAL PAPER (International)	Replacement of Chalcone-Ethers with Chalcone-Thioethers as Potent and Highly Selective Monoamine Oxidase-B Inhibitors and their Protein-Ligand Interactions	Pharmaceuticals	Bijo Mathew, Jong-Min Oh, Ahamed Khames, Mohamed A Abdelgawad, T. M. Rangarajan, Lekshmi R Nathg, Clement Agoni, Mahmoud E. S. Soliman, Githa Elizabeth Mathew, Hoon Kim (Joint Author)	https://doi.org/10.3390/ph14111148
JOURNAL PAPER (International)	Recent Updates on Pyrazolines Derivatives as Promising Scaffold for Neuropsychiatric and Neurodegenerative disorders	Current Topics in Medicinal Chemistry	T. M. Rangarajan*, Bijo Mathew* (Corresponding Author)	http://dx.doi.org/10.2174/156802662199921090212313

JOURNAL PAPER (International)	Deciphering the detailed structure-activity relationship of coumarins as Monoamine oxidase enzyme inhibitors-An updated review	Chemical Biology & Drug Design	V. P. Koyiparambath, K. P. Rajappan, T. M. Rangarajan, G. A. S. Abdullah, M. Pannipara, V. Bhaskar, A. S. Nair, S. T. Sudevan, S. Kumar, B. Mathew (Joint Author)	https://doi.org/10.1111/cbdd.13919
JOURNAL PAPER (International)	Current Progress in quinazoline derivatives as acetylcholinesterase and monoamine oxidase inhibitors	ChemistrySelect	A. R. Nisha, G. A. S. Abdullah, D. G. T. Parambi, T. M. Rangarajan, O. Nicolotti, K. Hoon, B. Mathew (Joint Author)	https://doi.org/10.1002/slct.202101077
JOURNAL PAPER (International)	(Hetero-)(Arylidene)arylhydrazides as Multitarget-Directed Monoamine Oxidase Inhibitors	ACS Combinatorial Science	A. Palakkathondi, J. M. Oh, S. Dev, T. M. Rangarajan, S. Kaipakasseri, F. S. Kavully, N. Gambacorta, O. Nicolotti, H. Kim, Bijo Mathew (Joint Author)	https://doi.org/10.1021/acscombsci.0c00136
JOURNAL PAPER (International)	Novel Class of Chalcone Oxime Ethers as Potent Monoamine Oxidase-B and Acetylcholinesterase Inhibitors	Molecules	J. M. Oh, T. M. Rangarajan*, Reeta, R. P. Singh, Manjula Singh, Raj Pal Singh, A. R. Tondo, N. Gambacorta, O. Nicolotti, Bijo Mathew*, Hoon Kim (Corresponding Author)	https://doi.org/10.3390/molecules25102356

JOURNAL PAPER (International)	An Easy Access to Oxime ethers by Pd?Catalyzed C–O Cross?Coupling of Activated Aryl bromides with Ketoximes and Chalcone oximes	Chinese Journal of Chemistry	Reeta, T. M. Rangarajan*, Raj Pal Singh, Rishi Pal Singh*, Manjula Singh (Corresponding Author)	https://doi.org/10.1002/cjoc.201900540
JOURNAL PAPER (International)	Efficient solvent- and temperature-tuned access to aldoxime ethers and phenolic functions by Pd-catalyzed C–O cross-coupling of aldoximes with aryl bromides and bromo-chalcones	New Journal of Chemistry	Reeta, T. M. Rangarajan*, Kumar Kaushik, Rishi Pal Singh, Manjula Singh, and Raj Pal Singh (Corresponding Author)	https://doi.org/10.1039/C9NJ05124D
JOURNAL PAPER (International)	Ethyl Acetohydroxamate Incorporated Chalcones: Discovery of A Novel Class Of Multimodal Monoamine Oxidase-B Inhibitors Against Alzheimer's Disease	CNS Neurological Disorders - Drug Targets	Reeta, Seung Cheol Baek, Jae Pil Lee, T. M. Rangarajan*, Ayushee, Rishi Pal Singh, Manjula Singh, Giuseppe Felice Mangiatordi, Orazio Nicolotti, Hoon Kim*, Bijo Mathew (Corresponding Author)	https://doi.org/10.2174/1871527318666190906101326
JOURNAL PAPER (International)	Synthesis of Novel Chalcones through Palladium-Catalyzed C–O Cross-Coupling Reaction of Bromo-Chalcones with Ethyl Acetohydroxamate and Their Antiplasmodial Evaluation against Plasmodium falcipuram in Vitro	Bioorganic Chemistry	Reeta, V. Rajendran, T. M. Rangarajan*, Ayushee, R. P. Singh*, Manjula Singh (Corresponding Author)	https://doi.org/10.1016/j.bioorg.2019.02.016

JOURNAL PAPER (International)	Synthesis and Evaluation of Antiplasmodial Activity of 2,2,2-Trifluoroethoxychalcones and 2-Fluoroethoxy Chalcones against Plasmodium falciparum in Culture	Molecules	K. Devi, V. Rajendran, Ayushee, T. M. Rangarajan,* R. P. Singh*, P. C. Ghosh, Manjula Singh (Corresponding Author)	https://doi.org/10.3390/molecules23051174
JOURNAL PAPER (International)	Palladium-Catalyzed Rapid Methoxylation and Deuteriomethoxylation of Bromo-Chalcones: Uncovering the Catalytic Activity of the Pd/tBuXPhos Catalyst System	ChemistrySelect	Reeta, T. M. Rangarajan,* Ayushee, Rishi Pal Singh, R. P. Singh (Corresponding Author)	https://doi.org/10.1002/slct.201601761
JOURNAL PAPER (International)	A General and Efficient Pd-Catalyzed Rapid 2-Fluoroethoxylation of Bromo-Chalcones	Journal of Fluorine Chemistry	T. M. Rangarajan,* Kavita Devi, Akhilesh K. Verma, Rishi Pal Singh and Raj Pal Singh (Corresponding Author)	https://doi.org/10.1016/j.jfluchem.2016.04.013
JOURNAL PAPER (International)	A General, Mild, and Efficient Palladium-Catalyzed 2,2,2-Trifluoroethoxylation of Activated Aryl Bromides and Bromo-Chalcones: Bromo-Chalcones a New Coupling Partner in Cross-Coupling Reaction	Tetrahedron	T. M. Rangarajan,* Kavita Devi, Ayushee, Ashok K. Prasad, Rishi Pal Singh (Corresponding Author)	https://doi.org/10.1016/j.tet.2015.08.071
JOURNAL PAPER (International)	Mild and Efficient Palladium/BrettPhos-Catalyzed Methoxylation and Deuteriomethoxylation of Activated Aryl Bromides	Tetrahedron Letters	T. M. Rangarajan,* Raju Brahma, Ayushee, Ashok K. Prasad, Akhilesh K. Verma and Rishi Pal Singh (Corresponding Author)	https://doi.org/10.1016/j.tetlet.2015.03.045

JOURNAL PAPER (International)	BrettPhos Ligand Supported Palladium-Catalyzed C?O Bond Formation through an Electronic Pathway of Reductive Elimination: Fluoroalkoxylation of Activated Aryl Halides	Chemistry - A European Journal	T. M. Rangarajan, Rajendra Singh, Raju Brahma, Kavita Devi, Rishi Pal Singh, R. P. Singh, and Ashok K. Prasad (First Author)	https://doi.org/10.1002/chem.201404121
JOURNAL PAPER (International)	Products Formed at Intermediate Stages of Electrochemical Perfluorination of Propionyl and n-Butyryl Chlorides. Further Evidence in Support of NiF3 Mediated Free Radical Pathway	Journal of Fluorine Chemistry	T. M. Rangarajan, S. Sathyamoorthi, D. Velayutham, M. Noel, R. P. Singh and Raju Brahma (First Author)	https://doi.org/10.1016/j.jfluchem.2010.12.004
JOURNAL PAPER (International)	Anodic oxidation of alkane carboxylates and perfluoroalkane carboxylates at platinum and graphite anodes: Product selectivity and mechanistic aspects	IONICS	T. M. Rangarajan, D. Velayutham and M. Noel (First Author)	https://link.springer.com/article/10.1007/s11581-011-0587-6

8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number

9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From-To
2025	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	"AI-Powered Modern Tools for Research"	05.Mar.2025 - 07.Mar.2025
2025	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	International	"Two-Week International Faculty Development Program on Advanced Computational and Experimental Research in Physics"	21.Jul.2025 - 01.Aug.2025
2024	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	MEMBER	College	""Mastering MS Word andExcel: Faculty Workshop""	11.Sep.2024 - 11.Sep.2024

Dr. RANGARAJAN T. M.