

Curriculum Vitae



Dr. ARIFUDDIN MOHAMMED

M.Sc., Ph.D., (Chemistry)

Awards / Honors

- ② **Associate Fellow** of Telengana Academy of Sciences (2016).
- ② **Post Doctoral Research Fellow**, August 2003–August 2004 Dr. Ehud Keinan, Adjunct Professor, Departments of Molecular Biology & Chemical Biology, The Scripps Research Institute, CA, USA. / Schulich Faculty of Chemistry, Technion City, Haifa 32000, Israel.
- ② **Senior Research Trainee**, November 2002 - July 2003. Dr. Ahmed Kamal, Biotransformation Laboratory, Division of Organic Chemistry - I, Indian Institute of Chemical Technology, Hyderabad – 500007. A. P. India
- ② **Post Doctoral Research Fellow**, November 2001 - November 2002. Dr. Midoux Patrick, Centre de Biophysique Molculaire, CNRS, Rue Charles Sadron, 45071, Orleans Cedex 02, France
- ② **Senior Research Fellowship (SRF)** (1999) awarded by Council of Scientific and Industrial Research (CSIR) India.
- ② **Gold Medalist** (Awarded by Madina Educational Society-Hyderabad in 1999)
- ② **Listed in the AD Scientific Index 2025(20th Nov-24)**
World ranking: 437,435 (2,395,573): In Asia-86,202 (685,706): In India-12,514 (129,129): 5th Rank in Maulana Azad National Urdu University MANUU, Natural Sciences / Chemical Sciences As on 06-01-2025
(<https://www.adscientificindex.com/scientist/mohammed-arifuddin/4623100>)



Professional Positions:

- ❑ **Assistant Professor (Contractual)**, Chemistry, Directorate of Distance Education (DDE), MANUU- MULANA AZAD NATIONAL URDU UNIVERSITY, Hyderabad-India- since **7th Jan-2022- till date**
- ❑ **Adjunct Professor (Honorary Position)**, 1st Feb-2020 to 14th July-2020, and from 16th November-2020 -31st dec-2021
Department of Chemistry Anwar-Ul-Uloom College (Autonomous)-Hyderabad
- ❑ **Assistant Professor**, 1st April 2013 to 31st Jan-2020. (6 years, 9 months, 4 weeks, and 2 days), National Institute of Pharmaceutical Education and Research (NIPER, Hyderabad), Balanagar, Hyderabad, India.
- ❑ **Laboratory Facilitation Manager**. 04th August 2009 to 31st March-2013. (3 years, 7 months, 3 weeks, and 6 days) National Institute of Pharmaceutical Education and Research (NIPER, Hyderabad), Balanagar, Hyderabad, India.
- ❑ **Senior Research Scientist, R & D**, 1st May 2005 to 31st July 2009 (4 years, 6 months, 3 weeks, and 5 days). AVRA Laboratories Pvt. Ltd, Hyderabad-India
- ❑ **Research Scientist, R & D**, Chemical Business, SRF Limited. Since 16th August 2004 to 30th April 2005 (11 months and 2 weeks). SRF Limited, Chennai. India

Google Scholar H-Index as on 26-12-2025			ResearchGate score: as on 26-12-2025	
Cited by			Research Interest: 888.7	
	All	Since 2020	Citations: 1,540	
Citations	1662	1126	h-index: 23	
h-index	24	19		
i10-index	54	42		

Research Profiles Links:

1. **Google Scholar:** Dr. Mohammed Arifuddin <https://scholar.google.com/citations?hl=en&tzom=480&user=FW62FXUAAAAJ>
2. **Scopus:** Scopus Author ID: 6603025616
3. **Research gate:** https://www.researchgate.net/profile/Arifuddin_Mohammed
4. **LinkedIn:** <https://www.linkedin.com/in/arifuddin-mohammed-5753634/>
5. **Orcid ID:** <https://orcid.org/0000-0002-0158-5683>
6. **Sciforum:** <https://sciprofiles.com/profile/1042542>
7. **Web of Science ResearcherID** AAB-6363-2021
8. **Vidwan ID:** <https://vidwan.inflibnet.ac.in/profile/57171>
9. **ScholarGPS® ID:** 84043650594539

Publications / Book Chapters (Total 138)

- ☐ **Publications:** 87 National and International paper (Highest Impact factor: 8.20 Lowest Impact factor: 0.509)
- ☐ **Review Articles:** 14 review articles
- ☐ **Patents:** 4 international Patents
- ☐ **Book Chapters:** 33 book chapters
- ☐ **Presentations:** 24 poster presentations at National and International seminars

Research Supervision: Supervised 4 students for their Ph.D:

4 Students is Ph.D., awarded

39 M.Pharm, students completed their dissertation work.

Reviewer: Acting as reviewer for more than 40 journals.

Education:

- ☐ **Ph. D. (Organic Chemistry)**, 2003 Osmania University. Hyderabad-India. Supervisor Dr. Ahmed Kamal, Indian Institute of Chemical Technology, Hyderabad, A. P., India.
Thesis title *“Development of Methodologies for the Opening of Oxiranes; Regeneration of Carbonyl Compounds and Synthesis of New Podophyllotoxin Congeners as Anticancer Agents”*.
- ☐ **M. Sc. (English Medium)**, (Organic Chemistry), 1995, First Division, Osmania University, Hyderabad, A. P., India.
- ☐ **B. Sc. (Chemistry, Biology)**, 1992, First Division, Osmania University, Hyderabad, A. P., India.

Experience

- ☐ Total 23 year teaching and research experience
- ☐ 11 years of teaching experience
- ☐ 23 years of extensive research experience in the design, multistep synthesis and characterization of novel compounds for biological evaluation that leads into drug candidates.

Teaching Experience: (Total 11 years of exclusive teaching experience)

Teaching expertise:	Industrial Experience:
Teaching Experience: (Total 11 years of teaching experience)	I am having total of 20 years of industrial experience and having the following expertise
Courses Thought Organic synthesis, Natural product chemistry, Heterocyclic chemistry, Reaction mechanism, Drug design, drug action, asymmetric synthesis, spectroscopy and other broad areas of organic chemistry	☐ Very well versed and having experience in Organic Synthesis/Multi-step Synthesis.
Courses Handled (PhD/M.S (Pharm)) ☐ For M. Pharm Logic in Organic Synthesis-I (MC-520) Structure and Function of Bio-molecules (MC-630) ☐ For Ph.D Stereo-selective and Stereo-specific Synthesis (MC-710)	☐ Handling reactions from mg to gram scale.
☐ Worked as Junior lecturer in Anwar-Ul-Uloom College, Malleypally, Hyderabad. From-September 1995 to June 1996 (Morning Section).	☐ Sound Knowledge of isolation, separation & purification techniques.
☐ Worked as Junior Lecturer in Shadan Junior College for Boys, Khairtabad. Hyderabad, from October 1995 to June 1996 (Afternoon Section).	☐ Experience in characterization and identification of Organic molecules using spectroscopy techniques like NMR, IR, LCMS, HPLC
	☐ Well versed in literature search and designing of new synthetic route
	☐ Positive and confident individual with strong work ethics.
	☐ Team player and good communications skills.

Research Interests:

- ☐ Synthetic Organic Chemistry, Medicinal Chemistry (synthesis of Anticancer and anti-infective agents) and Development of New Methodology in Organic synthesis.

Research Experience:

- ☐ 25 years of extensive research experience (including 7 years of Ph. D., i.e., 1996-2003) in the design, multi-step synthesis and characterization of novel compounds for biological evaluation that leads into drug candidates particularly in the area of anticancer and anti-infective agents.

Project Handled:

- ☐ Assisted as a team member in the completion of the collaborative projects of Yamanouchi Pharmaceutical Co., (Japan) and Ranbaxy Ltd., India for the synthesis of biologically active compounds.(Worked in IICT)
- ☐ Surved in several custom synthetic projects (more than 250 projects) at AVRA Laboratories Private Limited, Hyderabad. India.
- ☐ Completed DBT Project: Title: “Design and Development of novel anti-tubercular agents targeting Shikimate kinase protein”
Name of Principal Investigator: Dr. Md. Arifuddin: Name of Co-PI/Co-Investigator: Dr. Sharmishta Banerjee, Dr. M. Mallika: Institute: NIPER-Hyderabad & Hyderabad Central University.

List of Publications of Dr. Mohammed Arifuddin:

Highest Impact factor: 8.40 Lowest Impact factor: 0.509

S. No	Authors	Title	Journal	Year	Volume	Page No	Impact Factor
1	Ahmed Kamal, M. Arifuddin and N. V. Rao	Improved efficient conversion of aldehyde to nitriles Via their N, N – dimethyl hydrazones	Synthetic Communication	1998	28	4507-4512 DOI: 10.1080/00397919808004513	2.1 (2022) Impact Factor
2	Ahmed Kamal, M. Arifuddin and N.V.Rao	Facile transformation of N, N-dimethylhydrazones and tosylhydrazones to ketones with dimethylsulfate and potassium carbonate	Synthetic Communication	1998	28	3927-3931 doi.org/10.1080/00397919808004950	2.1 (2022) Impact Factor

3	Ahmed Kamal, M. Arifuddin and Maddamshetty.V.Rao	Enantioselective ring opening of epoxide with TMSN ₃ in the presence of β – cyclodextrin: An efficient route to 1, 2-azido alcohols	Tetrahedron Asymmetry	1999	10	4261-4264 https://doi.org/10.1016/S0957-4166(99)00464-4	2.126
4	Ahmed Kamal , M. Arifuddin and K. Venkata Ramana	An efficient and rapid regeneration of carbonyl compounds from their N, N – dimethylhydrazones by chlorotrimethylsilane/sodium iodide	Chemistry Letters	1999	-	827-828 https://doi.org/10.1246/cl.1999.827	1.715
5	Ahmed Kamal, E. Laxman and M. Arifuddin	An efficient reduction of azides to amines: Synthesis of DNA interactive pyrrolo [2,1-c] [1,4] benzodiazepines	Tetrahedron Letters	2000	41	7743-7746 https://doi.org/10.1016/S0040-4039(00)01319-8	1.82
6	Ahmed Kamal, M. Arifuddin and M. V. Rao	Facile and rapid regeneration of carbonyl compounds from their N, N – dimethyl hydrazones employing transition metal complexes.	Synthetic Letters	2000	-	1482-1484 DOI: 10.1055/s-2000-7636	2.0
7	Ahmed Kamal, B. Ashwini Kumar and M. Arifuddin	A one-pot, efficient and facile synthesis of 4β-arylaminopodophyllotoxins: Synthesis of NPF and GL-331 as DNA-topoisomerase II inhibitors	Tetrahedron Letters	2003	44	8457–8459 https://doi.org/10.1016/j.tetlet.2003.09.110	1.8
8	Ahmed Kamal, B. Ashwini Kumar, M. Arifuddin, <u>Sunanda Dastidar</u>	Synthesis and biological activity of new 4β-amido and 4β-sulphonamido analogues of podophyllotoxin	Bioorganic & Medicinal Chemistry	2003	11	5135-5142 10.1016/j.bmc.2003.08.019	3.5
9	Kamal, Ahmed; Laxman, E.; Ramesh Khanna, G. B.; Reddy, P. S. M. M.; Rehana, Tasneem; Arifuddin, M.; Neelima, K.; Kondapi, Anand K.; Dastidar, Sunanda G.	Design, synthesis, biological evaluation and QSAR studies of novel bisepipodophyllotoxins as cytotoxic agents	Bioorganic & Medicinal Chemistry	2004	12	4197-4209 doi: 10.1016/j.bmc.2004.05.026	3.5

10	Ahmed Kamal, B. Ashwini Kumar, M. Arifuddin and Midoux Patrick	An efficient and facile nitration of aromatic compounds with nitric acid/zinc chloride under ultrasonic conditions	Ultrasonics Sonochemistry	2004	11	455-457 https://doi.org/10.1016/j.ultsonch.2003.08.001	8.4
11	Ahmed Kamal, S. F. Adil and M. Arifuddin	Ultrasonic activated efficient and facile method for the cleavage of epoxides with aromatic amines	Ultrasonics Sonochemistry	2005	12	429-431 https://doi.org/10.1016/j.ultsonch.2004.08.002	8.4
12	Ahmed Kamal, Syed Kaleem Ahmed, Mahendra Sandbhor, Mohammed Naseer Ahmed Khan and Mohammed Arifuddin	Bi(Otf) ₃ -catalyzed Regioselective Ring Opening of Epoxides with Phenols: Facile Synthesis of 1,3-Diaryloxy-2-propanols	Chemistry Letters	2005	34	1142-1143 https://doi.org/10.1246/cl.2005.1142	1.715
13	Ahmed Kamal, N. Lakshmi Gayatri, D. Rajasekhar Reddy, P. S. Murali Mohan Reddy, M. Arifuddin, Sunanda G. Dastidar, Anand K. Kondapi and M. Rajkumar	Synthesis and biological evaluation of new 4β-anilino- and 4β-imido-substituted podophyllotoxin congeners	Bioorganic & Medicinal Chemistry	2005	13	6218-6225 https://doi.org/10.1016/j.bmc.2005.06.032	3.5
14	Ahmed Kamal, B. Ashwini Kumar, M. Arifuddin, Sunanda G. Dastidar	Synthesis and Biological Activity of New 4β-N-Heteroaryl Analogues of Podophyllotoxin	Letters in Drug Design & Discovery	2006	3	205-209 https://doi.org/10.2174/157018006776286907	1.0
15	Abdulla, Amina S, Arun Kumar Y, Arifuddin M, Rajanna K C	Mild and Efficient Nitration of Aromatic Compounds Mediated by Transition Metal Complexes	Synthetic Communication	2011	19	2946-2951 doi.org/10.1080/00397911.2010.515432	2.1 (2022) Impact Factor

16	M Arifuddin, N Lakshmikant, N Rajasekar & D B Shinde	Zinc Chloride Promoted Efficient and Facile BOC Protection of Amines	Indian Journal of Chemistry, Section B	2012	51 (B)	1168-1172 DOI: 10.1002/chin.201247047	0.456
17	F. Aneesa, K. C. Rajanna, Y. Arun Kumar, and M. Arifuddin	Transition Metal Ions as Efficient Catalysts for Facile Ortho-Formylation of Phenols under Vilsmeier–Haack Conditions	Organic Chemistry International	2012	-	doi.org/10.1155/2012/289023	0.50
18	Wajid Syed, Tasneem Mohammed, Arifuddin Mohommed, Mohamed N Al-Arifi	Transition metal complexes mediated efficient and facile cleavage of oximes and phenylhydrazones to carbonyl compounds	Asian Journal of Pharmaceutical and Clinical Research (Asian J Pharm Clin Res),	2015	8	96-98 https://journals.innovareacademics.in/index.php/ajpcr/article/view/4423 .	0.48
19	Syed Safiullah Ghor, Md Ikram Ahmed, Md. Arifuddin, Md Shoaibuddin Khateeb,	Evaluation of analgesic and anti-inflammatory activities of formulation containing camphor, menthol and thymol.	International Journal of Pharmacy and Pharmaceutical Sciences, (Int. J. Pharm. Pharm. Sci)	2016	8	271-274	0.51
20	K. C. Rajanna., Aneesa Ferdose., K. Rajender Reddy., Md. Arifuddin., M. Moazzam Ali	Transition metal ions as catalysts for efficient formylation of hydrocarbons with Vilsmeier –Haack reagents: Kinetics and mechanism	Journal of Solution Chemistry	2016	45	371-394 https://doi.org/10.1007/s10953-016-0442-5	1.2

21	Safiullah S G., Shazia S., Fouzia F., Ummara H., Arifuddin M., Tasneem M	Isolation of phytosterols from the methanolic extract of leaves of <i>Ficus dalhousiae</i> Miq	Research Journal of Pharmaceut ical, Biological and Chemical Sciences	2016	7	847-854	0.35
22	Srinivas Angapelly, P.V. Sri Ramya, Andrea Angeli, Simona Maria Monti, Martina Buonanno, Mallika Alvala, Cladiu T. Supuran, Mohammed Arifuddin	Discovery of 4-sulfamoyl-phenyl- β - lactams as a new class of potent carbonic anhydrase isoforms I, II, IV and VII inhibitors: the first example of subnanomolar CA IV inhibitors	Bioorganic & Medicinal Chemistry	2017	25	539–544 DOI: 10.1016/j.bmc.2016.11.027	3.5
23	Prathapa Reddy Maddiguda, Srinivas Angapalley, Shweta Sawner, & Arifuddin Mohammed	Ultrasonic Accelerated Efficient & Mild Chemo-Selective Synthesis Of 2-Aryl-1- Arylmethyl-1 <i>H</i> -1,3-Benzimidazoles Promoted By Ammonium Molybdate	<i>Heterocycli c Letters</i>	2017	7	65-73	-

24	P.V. Sri Ramya, Srinivas angapelly, Bathini Nagendra Babu, chander Singh Digwal, Atulya Nagarsenkar, Gannaju Srinivasulu, B Prasanth, Mohammed Arifuddin, Kumar Kanneboina, Krishnan Rangan and Ahmed Kamal	Metal-Free C–C Bond Cleavage: One-Pot Access to 1,4-Benzoquinone linked N-Formyl Amides/Sulfonamides/ Carbamates using Oxone	Asian Journal of Organic Chemistry	2017	6	1008–1013 https://doi.org/10.1002/ajoc.201700266	2.7
25	SrinivasAngapelly, P.V. Sri Ramya, AndreaAngelib, Sonia Del Prete,Clemente Capasso, MohammedArifuddin, Claudiu T. Supuran	Development of sulfonamides incorporating phenylacrylamido functionalities as carbonic anhydrase isoforms I, II, IX and XII inhibitors	Bioorganic & Medicinal Chemistry	2017	25	5726-5732 DOI: 10.1016/j.bmc.2017.08.047	3.5
26	Srinivas Angapelly, P. V. Sri Ramya, Andrea Angeli, Claudiu T Supuran and Mohammed Arifuddin	Novel sulfocoumarin/coumarin/4-sulfamoylphenyl bearing indazole-3-carboxamide hybrids: Synthesis and Selective inhibition of tumor associated carbonic anhydrase isozymes IX and XII	ChemMed Chem	2017	12	1578-1584 DOI: 10.1002/cmdc.201700446	3.4

27	P.V. Sri Ramya, Srinivas Angapelly, Andrea Angeli, Chander Singh Digwal, Mohammed Arifuddin, Bathini Nagendra Babu, Claudiu T. Supuran and Ahmed Kamal	Discovery of curcumin inspired sulfonamide derivatives as a new class of carbonic anhydrase isoforms I, II, IX and XII inhibitors	Journal Of Enzyme Inhibition And Medicinal Chemistry	2017	32	1274-1281 DOI: 10.1080/14756366.2017.1380638	5.6 (2022) Impact Factor
28	Srinivas Angapelly, P.V. Sri Ramya, Routhu Sunitha Rani, C. Ganesh Kumar, Ahmed Kamal and Mohammed Arifuddin	Ultrasound assisted, VOSO ₄ catalyzed Synthesis of 4-thiazolidinones: Antimicrobial Evaluation of indazole-4-thiazolidinone derivatives	Tetrahedron Letters	2017	58	4632-4637 https://doi.org/10.1016/j.tetlet.2017.10.070	1.8
29	Srinivas Angapelly, P. V. Sri Ramya, Rohini Sodhi, Andrea Angeli, Krishnan Rangan, Narayana Nagesh, Claudiu T. Supuran and Mohammed Arifuddin	Iodine-mediated one-pot intramolecular decarboxylation domino reaction for accessing functionalized 2-(1,3,4-oxadiazol-2-yl)anilines with carbonic anhydrase inhibitory action	Journal of Enzyme Inhibition and Medicinal Chemistry	2018	33	615-618 doi: 10.1080/14756366.2018.1443447	5.6 (2022) Impact Factor
30	Sarief, Abdulla, Haque, Sk Manirul, Arifuddin, Mohammed, Syed Mudabbir Feroze	Werner Transition Metal Complexes (WTMC) Mediated, Mild and Efficient Chemo-selective Acylation of Phenols and Anilines under Solvent free Condition	Journal of the Chinese Chemical Society	2018	65	1104-1109 doi.org/10.1002/jccs.201800013	1.8

31	Pratima Khadkikar, Sridhar Goud, Arifuddin Mohammed, Ananthathatmula Ragamanvitha, Arshad Rizvi, Sharmista Banerjee, Mukesh Doble, Mallika Alvala	An efficient and facile Green synthesis of Bisindole Methanes as potential Mtb FtsZ inhibitors.	Chemical Biology & Drug Design	2018	92	1933-1939 doi: 10.1111/cbdd.13363	3.0
32	Mohammed Safwan Ali Khan, Nishat Ahmed, Misbah, Mohammed Arifuddin, Zainul Amiruddin Zakaria, Mohammad M.Al- Sanea, Syeda Umme Kulsoom Khundmiri, Inshah Ahmed, Saleha Ahmed, Pooi Ling Mok	Anti-nociceptive mechanisms of flavonoids – rich methanolic leaf extract from Terminalia coriacea (Roxb.) Wight & Arn. Leaves	Food and Chemical Toxicology	2018	115	523-531 doi: 10.1016/j.fct.2018.03.021	5.572
33	Srinivas Angapelly, Arbaj Jabbar Khan, P. V. Sri Ramya, Andrea Angeli, Claudiu T. Supuran, Mohammed Arifuddin	Synthesis and Biological Evaluation of 4-sulfamoylphenyl/sulfocoumarin carboxamides as selective inhibitors of carbonic anhydrase isoforms hCA II, hCA IX and hCA XII	ChemMed Chem	2018	13	1165-1171 doi: 10.1002/cmdc.201800180	3.4

34	Mohammed Safwan Ali Khan, Misbah, Nishat Ahmed, Mohammed Arifuddin, Abdullah Rehman, Mok Pooi Ling	Indole alkaloids and anti-nociceptive mechanisms of Tabernaemontana divaricata (L.) R. Br. Flower methanolic extract	Food and Chemical Toxicology	2018	118	953-962 doi: 10.1016/j.fct.2018.06.007	5.572
35	Pavitra S. Thacker, Mallika Alvala, Mohammed Arifuddin, Andrea Angeli, Claudiu T. Supuran	Design, synthesis and biological evaluation of coumarin-3-carboxamides as selective carbonic anhydrase IX and XII inhibitors	Bioorganic Chemistry	2019/ May	86	386-392 doi: 10.1016/j.bioorg.2019.02.004	5.1
36	Nerella Sridhar Goud, S. Mahammad Ghouse, Mohammed Arifuddin, Mallika Alvala, Andrea Angeli, Claudiu T. Supuran	Synthesis and biological evaluation of coumarin-1,3,4-oxadiazole hybrids as selective carbonic anhydrase IX and XII inhibitors	Bioorganic Chemistry	2019/ June	87	765-772 https://doi.org/10.1016/j.bioorg.2019.04.004	5.1
37	Pavitra S. Thacker, Pirpasha Shaikh, Andrea Angeli, Mohammed Arifuddin and Claudiu T. Supuran	Synthesis and biological evaluation of novel 8-substituted quinoline-2-carboxamides as carbonic anhydrase inhibitors	Journal of Enzyme Inhibition and Medicinal Chemistry	2019/ June	34	1172-1177 doi: 10.1080/14756366.2019.1626376.	5.6 (2022) Impact Factor
38	Baijayantimala Swain, Andrea Angeli, Srinivas Angapelly, Pavitra S Thacker, Priti Singh, Claudiu T. Supuran and Mohammed Arifuddin	Synthesis of a new series of 3-functionalised-1-phenyl-1,2,3-triazole sulfamoylbenzamides as carbonic anhydrase I, II, IV and IX inhibitors	Journal of Enzyme Inhibition and Medicinal Chemistry	2019/ June	34	1199-1209 doi: 10.1080/14756366.2019.1629432.	5.6 (2022) Impact Factor

39	Baijayantimala Swain, Chander Singh Digwal, Andrea Angeli, Mallika Alvala , Priti Singh, Claudiu T. Supuran Mohammed Arifuddin	Synthesis and exploration of 2-morpholino-4-phenylthiazol-5-yl acrylamide derivatives for their effects against carbonic anhydrase I, II, IX and XII isoforms as a non-sulfonamide class of inhibitors	Bioorganic & Medicinal Chemistry	2019/ November	27	115090 doi: 10.1016/j.bmc.2019.115090.	3.5
40	Saleem Yousuf Bhat, Peddapaka Jagruthi, Angapelly Srinivas, Mohammed Arifuddin, Insaf Ahmed Qureshi	Synthesis of quinoline-carbaldehyde derivatives as novel inhibitors for leishmanial methionine aminopeptidase 1	European Journal of Medicinal Chemistry	2020/ January	186	111860 https://doi.org/10.1016/j.ejmech.2019.111860	6.7
41	Kesari Lakshmi Manasa, Sravya Pujitha, Aaftaab Sethi, Arifuddin Mohammed, Mallika Alvala, Andrea Angeli, Claudiu T. Supuran	Synthesis and biological evaluation of imidazo[2,1-b]thiazole based sulfonyl piperazines as novel carbonic anhydrase II inhibitors	Metabolites	2020/ March	10(4).	Pii: E136. Doi: 10.3390/metabo10040136	4.1
42	Priti Singh, Baijayantimala Swain, Pavitra S. Thacker, Dilep Kumar Sigalapalli, P. Purnachander Yadav, Andrea Angeli, Claudiu T. Supuran and Mohammed Arifuddin	Synthesis and carbonic anhydrase inhibition studies of sulfonamide based indole-1,2,3-triazole chalcone hybrids	Bioorganic chemistry	2020/ April	99	103839 https://doi.org/10.1016/j.bioorg.2020.103839	5.1

43	Pavitra S. Thacker, Andrea Angeli, Omkar S. Argulwar, Prerna L. Tiwari, Mohammed Arifuddin and Claudiu T. Supuran	Design, synthesis and biological evaluation of coumarin linked 1,2,4-oxadiazoles as selective carbonic anhydrase IX and XII inhibitors	Bioorganic Chemistry	2020/ May	Volume 98,	103739 DOI: 10.1016/j.bioorg.2020.103739	5.1
44	Krishna Kartheek Chinchilli, Andrea Angeli, Pavitra S Thacker, Laxman Naik Korra, Rashmita Biswas, Mohammed Arifuddin and Claudiu T. Supuran	Design, synthesis and biological evaluation of 1,2,3-triazole linked triazino[5,6-b]indole-benzene sulfonamide conjugates as potent carbonic anhydrase I, II, IX and XIII inhibitors	Metabolites	2020/ May	7804 10	metabolites-780410 DOI: 10.3390/metabo10050200	4.1
45	Rambabu Sirgamalla, Kurumanna Adem, Sakram Boda, Ashok Kommakula, Suryam Neradi, Shyam Perka, Kiran Bojja and Mohammed Arifuddin	DABCO mediated one pot synthesis of 2-(3-benzyl-2, 6-dioxo-3, 6-dihydropyrimidin-1(2H)-yl)-N-(4-(1, 3-dioxo-1H-benzo [de]isoquinolin-2(3H)-yl) aryl) acetamides as antimicrobial agents.	Journal of Heterocyclic Chemistry	2020/2 nd June	-	JHET-20-0225 https://doi.org/10.1002/jhet.4055	2.4
46	Baijayantimala Swain, Andrea Angeli, Priti Singh, Claudiu T. Supuran, Mohammed Arifuddin	New Coumarin/Sulfocoumarin linked Phenylacrylamides as Selective Transmembrane Carbonic Anhydrase Inhibitors: Synthesis and In-Vitro Biological Evaluation	Bioorganic & Medicinal Chemistry	2020/June	28 (15)	115586 doi: 10.1016/j.bmc.2020.115586	3.5

47	Saleem Yousuf Bhat, Sonal Bhandari, Pavitra Suresh Thacker, Mohammed Arifuddin and Insaf Ahmed Qureshi	Development of quinoline-based hybrid as inhibitor of methionine aminopeptidase 1 from Leishmania donovani	Chemical Biology & Drug Design	2021	97 (2)	315-324 DOI: 10.1111/cbdd.13783	3.0
48	Pavitra S.Thacker, Nerella Sridhar Goud, Omkar S.Argulwar, JyothsnaSoman, Andrea Angeli, Mallika Alvala, Mohammed Arifuddin, Claudiu T. Supuran	Synthesis and biological evaluation of some coumarin hybrids as selective carbonic anhydrase IX and XII inhibitors	Bioorganic Chemistry	November 2020,	104	¹⁰⁴²⁷² https://doi.org/10.1016/j.bioorg.2020.104272	5.1
49	Priti Singh, Parvatha Purnachander Yadav, Baijayantimala Swain, Pavitra S. Thacker, Andrea Angeli, Claudiu T. Supuran and Mohammed Arifuddin	Discovery of a novel series of indolylchalcone-benzenesulfonamide hybrids acting as selective carbonic anhydrase II inhibitors	Bioorganic Chemistry	2021(Jan)	108	104647 https://doi.org/10.1016/j.bioorg.2021.104647	5.1
50	Pavitra S. Thacker, Danaboina Srikanth, Andrea Angeli, Priti Singh, Krishna Kartheek Chinchilli, Mohammed Arifuddin, and Claudiu T. Supuran	Coumarin-Thiourea Hybrids Show Potent Carbonic Anhydrase IX and XIII Inhibitory Action	ChemMed Chem	2021 April-20 th	16 (8)	1252-1256 DOI: 10.1002/cmdc.202000915	3.4

51	Baijayantimala Swain, Abhay, Priti Singh, Andrea Angeli, Kamtam Aashritha, Narayana Nagesh, Claudiu T. Supuran and Mohammed Arifuddin	3-Functionalised Benzenesulphonamide based 1,3,4-oxadiazoles as Selective Carbonic Anhydrase XIII Inhibitors: Design, Synthesis and Biological Evaluation	Bioorganic Medicinal Chemistry Letters	2021	37	127856 https://doi.org/10.1016/j.bmcl.2021.127856	2.7
52	Baijayantimala Swain, Kamtam Aashritha, Priti Singh, Andrea Angeli, Abhay, Dilep Kumar Sigalapalli, Venkata Madhavi Yaddanapudi, Claudiu T. Supuran and Mohammed Arifuddin.	Design and Synthesis of Benzenesulfonamide linked imidazo[2,1-b][1,3,4]thiadiazole Derivatives as Carbonic Anhydrase I and II Inhibitors	Archiv der Pharmazie	2021	354(7)	e2100028 DOI: 10.1002/ardp.202100028	5.1
53	K Muni Chandra, Nerella Sridhar Goud, Mohammed Arifuddin, Mallika Alvala, Ravi Alvala, Andrea Angeli, Claudiu T Supuran	Synthesis and biological evaluation of novel 4, 7-disubstituted coumarins as selective tumor-associated carbonic anhydrase IX and XII inhibitors	Bioorganic Medicinal Chemistry Letters	2021	39	127877 DOI: 10.1016/j.bmcl.2021.127877	2.7
54	Pavitra S. Thacker, Prerna L. Tiwari, Andrea Angeli, D. Srikanth1, Baijayanti mala Swain, Mohammed Arifuddin and Claudiu T. Supuran	Synthesis and biological evaluation of coumarin-linked 1,2,3-triazoles as potent inhibitors of carbonic anhydrases IX and XIII involved in tumorigenesis	Metabolites	2021	11(4)	225 DOI: 10.3390/metabo11040225	4.1

55	Noorunnisa Begum, Sadiya Mustaq, Syeda Sameena Aziz, Mohammed Arifuddin	Rapid and Spontaneous Synthesis of Schiff Bases Catalyzed by Sulfuric Acid under Environmentally Benign Condition	Indian Journal of Advances in Chemical Science	2021	9(3)	218-225 DOI: 10.22607/IJACS.2021.903019	-
56	Priti Singh, Abhishek Choli, Baijayantimala Swain, Andrea Angeli, Santosh K. Sahoo, Venkata M. Yaddanapudi, Claudiu T. Supuran, Mohammed Arifuddin	Design and development of novel series of indole-3-sulfonamide ureido derivatives as selective carbonic anhydrase II inhibitors	Archiv der Pharmazie	2021	355(1)	e2100333. https://doi.org/10.1002/ardp.202100333	5.1
57	Priti Singh, Dilep Kumar Sigalapalli, Nerella Sridhar Goud, Baijayantimala Swain, Santosh Kumar Sahoo, Andrea Angeli, Afzal B. Shaik, Venkata Madhavi Yaddanapudi, Claudiu T. Supuran and Mohammed Arifuddin	Ureidosulfocoumarin Derivatives As Selective and Potent Carbonic Anhydrase IX and XII Inhibitors	ChemMed Chem	2021	Volume 17, Issue 5 March 4, 2022	e202100725 https://doi.org/10.1002/cmdc.202100725	3.4

58 (AUC)	Baijayantimala Swain, Priti Singh, Andrea Angeli, Santosh Kumar Sahoo, Venkata Madhavi Yaddanapudi, Claudiu T. Supuran and Mohammed Arifuddin	Efficient One-pot Synthesis of 3,3-di(indolyl)indolin-2-ones from Isatin and Indole Catalyzed by VOSO ₄ as Non-Sulfonamide Carbonic Anhydrase Inhibitors	Anticancer Agents Med Chem	2022	22(13)	2358-2366 DOI: 10.2174/1871520622666220202112014	2.469
59 (SIF)	Pavitra S. Thacker, Mohammed Arifuddin, Claudiu T. Supuran, Perna L. Tiwari, Nerella Sridhar Goud, D. Srikanth, Andrea Angeli	Synthesis and Biological Evaluation of Coumarin Carboxamides as Selective and Potent Inhibitors of Carbonic Anhydrases IX and XII	Anti-Cancer Agents in Medicinal Chemistry	2022	22 (14)	2647–2654 DOI: 10.2174/1871520622666220304184525	2.469
60 (SIF)	Baijayantimala Swain, Santosh Kumar Sahoo, Priti Singh, Andrea Angeli, Venkata Madhavi Yaddanapudi, Claudiu T. Supuran and Mohammed Arifuddin	Exploration of 2-phenylquinoline-4-carboxamide linked benzene sulfonamide derivatives as isoform selective inhibitors of transmembrane human carbonic anhydrases	European Journal of Medicinal Chemistry	2022 (March)	234	114247 https://doi.org/10.1016/j.ejmech.2022.114247	6.7

61 (MAN UU)	Krishna Kartheek Chinchilli, Venkata Nagamani Royyala, Pavitra S. Thacker, Andrea Angeli, Srikanth Danaboina, Priti Singh, Srinivas Nanduri, Claudiu T. Supuran and Mohammed Arifuddin	Design, synthesis, SAR and biological evaluation of Saccharin based hybrids as potent carbonic anhydrase inhibitors	Archiv der Pharmazie	2022	355(8)	e2200019. DOI: 10.1002/ardp.202200019	5.1
62	Priti Singh,Santosh Kumar Sahoo,Nerella Sridhar Goud,Baijayantimal a Swain,Venkata Madhavi Yaddanapudi, Mohammed Arifuddin	Microwave-Assisted Copper-Catalyzed One-Pot Synthesis of 2-Aryl/Heteroaryl- 4-Quinolones via Sequential IntramolecularAza-Michael addition and Oxidation	Asian Journal of Organic Chemistry	2022 (May)		e202200181 doi.org/10.1002/ajoc.202200181	3.116
63	Priti Singh, Nerella Sridhar Goud, BaijayantimalaSwai n, Santosh Kumar Sahoo, Abhishek Choli, Andrea Angeli, Bhoopendra Singh Kushwah,VenkataM adhaviYaddanapudi, Claudiu T. Supuran and Mohammed Arifuddin	Synthesis of a new series of quinoline/pyridine indole-3-sulfonamide hybrids as selective carbonic anhydrase IX inhibitors	Bioorganic & Medicinal Chemistry Letters	2022- 05- 18(Ma y)		128809 https://doi.org/10.1016/j.bmcl.2022.128809	2.94

64 (SIF)	Sadiya Mushtaq, Noorunnisa Begum, Syeda Sameena Aziz and Mohammed Arifuddin	AMMONIUM NICKEL SULFATE (TUTTON'S SALT) MEDIATED RAPID AND FACILE SYNTHESIS OF SCHIFF BASE UNDER ENVIRONMENTAL FRIENDLY CONDITION	Interntional Journal of Advanced Research (IJAR)	2022	10(05)	1085-1093 DOI: 10.21474/IJAR01/14818	SJIF-Impact Factor: 7.337
65 (MA NU U)	Pavitra S. Thacker, Vaishnavi Newaskar, Andrea Angeli, Dilep Kumar Sigalapalli, Nerella Sridhar Goud, Hepsibha Chirral, Afzal B. Shaik, Mohammed Arifuddin and Claudiu T. Supuran	Synthesis and biological evaluation of coumarin-thiazole hybrids as selective Carbonic Anhydrase IX and XII inhibitors	Archiv der Pharmazie	2022		e2200232. DOI: 10.1002/ardp.202200232	5.1
66	Baijayantimala Swain, Abrar Khan, Priti Singh, Vaibhav S Marde, Andrea Angeli, Krishna Karthek Chinchilli, Venkata Madhavi Yaddanapudi, Simone Carradori, Claudiu T Supuran, Mohammed Arifuddin	Design, Synthesis and Biological Assessment of Rhodanine-Linked Benzenesulfonamide Derivatives as Selective and Potent Human Carbonic Anhydrase Inhibitors	Molecules	2022	27(22)	8028 DOI: 10.3390/molecules27228028	4.6

67	Aaftaab Sethi, Sharon Munagalasetty, Mohammed Arifuddin, Simone Carradori, Mallika Alvala, Claudiu T Supuran, Ravi Alvala	Coumarin and piperazine conjugates as selective inhibitors of the tumor-associated Carbonic Anhydrase IX and XII isoforms.	Anti-cancer Agents in Medicinal Chemistry	2023	23(10)	1184-1191 DOI: 10.2174/1871520623666230202123535	2.469
68	Samreen Kauser, Qasim Ullah, Mohammed Arifuddin, Salman Ahmad Khan, Aram Rehman	Saccharomyces cerevisiae (Baker's Yeast) catalyzed efficient and facile chemo-selective synthesis of aldimines	Results in Chemistry	2023	5	100839 https://doi.org/10.1016/j.rechem.2023.100839	2.3
69	Shaik Mahammad Ghouse, Kavyaraj Bahatam, Andrea Angeli, Gaurav Pawar, Krishna Kartheek Chinchilli, Venkata Madhavi Yaddanapudi, Arifuddin Mohammed, Claudiu T Supuran, Srinivas Nanduri	Synthesis and biological evaluation of new 3-substituted coumarin derivatives as selective inhibitors of human carbonic anhydrase IX and XII	Journal of Enzyme Inhibition and Medicinal Chemistry	2023	38 (1),	218576 DOI: 10.1080/14756366.2023.2185760	5.6 (2022) Impact Factor
70	Bandigi Narsimulu, Rahila Qureshi, Pranay Jakkula, Priti Singh, Mohammed Arifuddin, Insaf Ahmed Qureshi.	Exploration of seryl tRNA synthetase to identify potent inhibitors against leishmanial parasites	International Journal of Biological Macromolecules	2023	237	124118 DOI: 10.1016/j.ijbiomac.2023.124118	8.2

71	Bhavita Kattula, Bharati Reddi, Aruna Jangam, Lekhika Naik, Bala Manikanta Adimoolam, Suresh Vavilapalli, Sayanna Are, Jagadeshwar Reddy Thota, Surender Singh Jadav, Mohammed Arifuddin, Anthony Addlagatta	Development of 2- chloroquinoline based heterocyclic frameworks as dual inhibitors of SARS-CoV-2 Mpro and PLPro □	Internation al Journal of Biological Macromole cules	2023	Volu me 242, Part 2,	124772 https://doi.org/10.1016/j.ijbiomac.2023.124772	8.2
72	Krishna Kartheek Chinchilli, Ravikumar Akunuri, Shaik Mahammad Ghouse, Devandla Soujanya, Andrea, Ramulu Parupalli, Mohamm ed Arifuddin , Venkata Madhavi Yaddanapudi, Claudi u T. Supuran, Srinivas Nanduri	Design, synthesis, and structure– activity studies of new rhodanine derivatives as carbonic anhydrase II, IX inhibitors	Archiv der Pharmazie	2023	e2300 205.	Doi.org/10.1002/ardp.202300205	5.1

73	<u>Shaik</u> <u>Mahammad</u> <u>Ghouse, Kareena</u> <u>Sinha, Alessandr</u> <u>o</u> <u>Bonardi, Gaurav</u> <u>Pawar, Satyaveni</u> <u>Malasala, Srikan</u> <u>th</u> <u>Danaboina, Arif</u> <u>uddin</u> <u>Mohammed, Ve</u> <u>nkata M.</u> <u>Yaddanapudi, Cl</u> <u>audiu T.</u> <u>Supuran, Sriniva</u> <u>s Nanduri</u>	6-Aminocoumarin oxime-ether/sulfonamides as selective hCA IX and XII inhibitors: Synthesis, evaluation, and molecular dynamics studies	Archiv der Pharmazie	2023		e2300316 DOI: 10.1002/ardp.202300316	5.1
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74	Ojaswitha Omni, Niccolò Paoletti, Alessandro Bonardi, Paola Gratteri, Harshada Anil Bhalerao, Shashikanta Sau, Srinivas Nanduri, Arifuddin Mohammed, Nitin Pal Kalia, Rajesh Sonti, Claudiu T. Supuran, Venkata Madhavi Yaddanapudi	Exploration of 3-aryl pyrazole tethered sulfamoyl carboxamides as carbonic anhydrase inhibitors	Archiv der Pharmazie	2023	Volume 35 6, Issue 11	2300309 doi: 10.1002/ardp.202300309.	5.1
75	Samreen Kauser, Qasim Ullah, Ar am Rehman, Sal man Ahmad Khan & Arifuddin Moha ammed	Efficient and Facile One-Pot Multi-Component Synthesis of Betti Bases Using Baker's Yeast for the First Time	Polycyclic Aromatic Compound s	2024	Volume 44, 2024 – Issue 8	5412-5423 DOI: 10.1080/10406638.2023.2265022	2.4

76	Nahid Fatema, Qasim Ullah, Mohammed Arifuddin, Salman Ahmed khan, M. Vijjulatha	Green and Efficient Chemo- selective Synthesis of Chalcone Imines (α,β -unsaturated imine) by using Baker's Yeast as Biocatalyst by the Condensation of Arylamines with Chalcones	Asian Journal of Chemistr y	2023	<i>Vol.</i> 35, <i>No.</i> 11	2809-2814 https://doi.org/10.14233/ajchem.2023.30302	UGC care listed- Scopus Indexed
77	Krishna K Chinchilli, Priti Singh, Baijayantimala Swain, Nerella S Goud, Dilep K Sigalapalli, Abhishek Choli, Andrea Angeli, Srinivas Nanduri, Venkata M Yaddanapudi, Claudiu T Supuran, Mohammed Arifuddin	<u>Development of Novel Indole-3- sulfonamide-heteroaryl Hybrids as Carbonic Anhydrase Inhibitors: Design, Synthesis and in-vitro Screening</u>	Anti- Cancer Agents in Medicina l Chemistr y	2023	23,1 1	1225-1233 doi.org/10.2174/1871520623666230227092821	2.469

78	Baijayantimala Swain, Vaibhav S. Marde, Priti Singh, Andrea Angeli, Abrar Khan, Venkata Madhavi Yaddanapudi, Qasim Ullah, Claudiu T. Supuran and Mohammed Arifuddin.	Design, synthesis and biological evaluation of 3-benzenesulfonamide linked 3-hydrazinoisatin derivatives as carbonic anhydrase inhibitors	Archiv der Pharmazie	2024	-	e2300718	5.1
79	Priti Singh, Sridhar Goud Nerella, Baijayantimala Swain , Andrea Angeli , Qasim Ullah, Claudiu T. Supuran , Mohammed Arifuddin	Design, synthesis and in vitro evaluation of novel thiazole-coumarin hybrids as selective and potent human carbonic anhydrase IX and XII inhibitors	International Journal of Biological Macromolecules	2024	268	131548 <i>10.1016/j.ijbiomac.2024.131548</i>	8.2

80	Vadankula, Govinda Raju; Nilkanth, Vipul; Rizvi, Arshad; Yandrapally, Sriram; Agarwal, Anushka; Chirra, Hepshibha; Biswas, Rashmita ; Arifuddin, Mohammed; Nema, Vijay; Mallika, Alvala; Mande, Shekhar; Banerjee, Sharmistha	Confronting tuberculosis: A synthetic quinoline-isonicotinic acid hydrazide hybrid compound as a potent lead molecule against Mycobacterium tuberculosis	ACS Infectious Diseases	2024	10 (6)	2288–2302 (https://doi.org/10.1021/acsinfectdis.4c00277)	5.3
81	Janish Kumar , Jyotisha, Rahila Qureshi , Peddapaka Jagruthi , Mohammed Arifuddin , Insaf Ahmed Qureshi	Discovery of 8-hydroxyquinolin-2-carbaldehyde derivatives as inhibitors for M1 aminopeptidase of <i>Leishmania donovani</i>	International Journal of Biological Macromolecules	2024	Available online 26 August	135105 (https://doi.org/10.1016/j.ijbiomac.2024.135105)	7.7
82	S Sanwer, A Nasreen, B Swain, J Peddapaka, R Alvala, M Arifuddin	Synthesis and antimicrobial evaluation of novel 8-hydroxyquinoline containing benzimidazole hybrids	Discover Chemistry	2025 (Feb)	2 (1),	17 https://doi.org/10.1007/s44371-025-00093-3	

83	Jagruti Peddapaka, Aayesha Nasreen, Tulja Sanam, Mahammad Ghouse Shaik, Baijayantimala Swain, Shweta Sanwer, Ravi Alvala, Mohammed Arifuddin, Sridhar Goud Nerella	Facile synthesis, antimicrobial activity, and molecular docking analysis of 8-hydroxyquinoline-4-thiazolidinone hybrids	Future Medicinal Chemistry	2025 (Feb)	17, 4	1-13 https://doi.org/10.1080/17568919.2025.2463876	3.2
84	<u>Priti Singh</u> , <u>Sridhar Goud Nerella</u> , <u>Baijaya ntimala Swain</u> , <u>Andrea Angeli</u> , <u>Samreen Kausar</u> , <u>Qasim Ullah</u> , <u>Claudiu T Supuran</u> ³ , <u>Mohammed Arifuddin</u>	Synthesis of Chromene-linked Bis-indole Derivatives as Selective Tumor-associated Carbonic Anhydrase IX Inhibitors	Anticancer Agents Med Chem	2025 (April)	25(6)	399 – 410 doi:10.2174/0118715206341087241029064945	2.46

85	S Kausar, Q Ullah, M Arifuddin, A Rahman	Baker's yeast bio-catalyzed green and efficient synthesis of 3-indolylmethanamine via Aza-Friedel Crafts Reaction of indole with imines	Discover Chemistry	2025 (April)	2 (1),	83 https://doi.org/10.1007/s44371-025-00156-5	-
86	Qasim Ullah, Aarifa Maryam, Samreen Kausar & Mohammed Arifuddin	Baker's Yeast Mediated Efficient and Mild Nitration of Aromatic Compounds	RJOC Russian Journal of Organic Chemistry	2025-07-17(accepted July)		Article id:OrgChem2560252Qasim	0.9
87		First Efficient, Facile Synthesis of β -Aminoketones via the Nucleophilic Addition of Acetophenone to Imines Using Baker's Yeast as a Catalyst	Indian Journal of Advances in Chemical Science	2025 (11 th Aug-25)		Accepted : Manuscript Number: IJACS-2025-014	
			Cumulative Impact factors				

Review Articles

S. No	Authors	Title	Journal	Year	Volume	Page No	Impact Factor
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1	Arifuddin Mohammed., Srinivas Angapally	Diverse Pharmaceutical Efficacy of 2-chloro-3-formylquinoline Derivatives- A Review	Current Trends in Pharmaceutical Sciences	2014	2	64-75	-
2	Mohammed Arifuddin, Neeraj Kumar Chauhan, Laxmi Keshav Kritika, Pramod Kumar Dubey	Diverse Pharmacological Aspects of 2-Amino-4-Phenylthiazole Derivatives-A Review	Heterocyclic Letters	2017	7 (4)	1185-1210	-
3	Syed Safiullah Ghori, Asma Khanam, Mohammed Safwan Ali Khan and Mohammed Arifuddin	Ficus Dalhousiae Miq.: A Rare Plant Species Of Medicinal Importance	Plant Archives	2020	20	4227-4231	
4	Sridhr Goud Nerella, Priti Singh, Mohammed Arifuddin, Claudiu T Supuran	Anticancer carbonic anhydrase inhibitors: a patent and literature update 2018-2022	Expert Opinion on Therapeutic Patents	2022	Volume 37, 2022 – Issue 1	1454-1463 doi: 10.1080/13543776.2022.2083502	6.6
5	Sridhar Goud Nerella, Priti Singh, Pavitra S Thacker, Mohammed Arifuddin, Claudiu T Supuran	PET radiotracers and fluorescent probes for imaging human carbonic anhydrase IX and XII in hypoxic tumors	Bioorganic Chemistry	2023		106399 doi: 10.1016/j.bioorg.2023.106399	5.1
6	Md. Mohasin, Md. Zafer Alam, Alimuddin, Qasim Ullah, Mohammed Arifuddin, Salman Ahmad Khan	A Mini Review on Pyrazolines as Fluorescent Chemosensor for Fe ³⁺ ion	Journal of Coordination Chemistry	2024	77(1-2):	1-10	1.9

7	Sridhar Goud, Nerella, Pavitra S. Thacker, Mohammed Arifuddin, Claudiu T Supuran	Tumor associated carbonic anhydrase inhibitors: rational approaches, design strategies, structure activity relationship and mechanistic insights	European Journal of Medicinal Chemistry Reports	2024	Volume 10,	100131	7.088
8	Qasim Ullah, Aram Rahman, Mohammad Arifuddin , Ira Khan, Nizamul-Haque Ansari, Pathan Arif Ali Khan	A MINI REVIEW ON CARBAZOLE FLUORESCENT CHEMOSENSORS FOR THE DETECTION OF Cu (II) ION: A COMPREHENSIVE REVIEW	Journal of Fluorescence	2024	Accepted (Dec-24)	(Submission ID ca961f63-c021-4f5c-b0ba-46464b603343)	3.1
9	Q Ullah, SA Khan, M Arifuddin , M Mohsin, S Kausar, N Fatema, MF Ahmer	Recent Developments in Colorimetric and Fluorometric Detection Methods of Trivalent Metal Cations (Al^{3+} , Fe^{3+} and Cr^{3+}) Using Schiff Base Probes: At a Glance	Journal of Fluorescence	2025 (January	35,	543–557 https://doi.org/10.1007/s10895-023-03514-7	3.1
10	Priti Singh, Mohammed Arifuddin, Claudiu T Supuran, Sridhar Goud Nerella	Carbonic anhydrase inhibitors: Structural insights and therapeutic potential	Bioorganic Chemistry,	2025 (March)	156	108224	4.7

11	Priti Singh, Mohammed Arifuddin, Claudiu T Supuran, Sridhar Goud Nerella	Carbonic anhydrase inhibitors: Structural insights and therapeutic potential	Bioorganic Chemistry,	2025 (March)	156	108224	4.7
12	SG Nerella, MG Shaik, P Singh, M Arifuddin, Q Ullah, CT Supuran	Antibody-drug conjugates and radioconjugates targeting carbonic anhydrase IX and XII in hypoxic tumors: Bench to clinical applications	Bioorganic Chemistry,	2025 (June)	159	108408 https://doi.org/10.1016/j.bioorg.2025.108408	4.7
13	Qasim Ullah, Aram Rahman, Aarifa Maryam, Mohammad Arifuddin, H. Aleem Basha	Indole based Chemosensors for Bivalent and Trivalent Metal Ions Detection: At a Glance (2011-2025)	Journal of Fluorescence	2025-07- 17(july)		Accepted Submission ID a3ee542c-8a73-4faa-baac- 5f4c5e643707	3.1
14	Zuverya Zareen, Aram Rahman, Anzar Jahan , Salahuddin Syed ,Mohammad Arifuddin	Thiophene based chemosensors: a comprehensive review on synthesis and detection of cations and anions	Inorganica Chimica Acta	1 April 2026,		Volume 593, 123042	3.2

Patents:

1. A Process for the synthesis of new podophyllotoxin dimers as potential DNA -Topoisomerase II inhibitors.
Ahmed. Kamal, E. Laxman, **M. Arifuddin**, G. B. R. Khanna, J. S. Yadav, K. V. Raghavan
Indian Patent Appl. No. 381/DEC/2001 dated. 29.03.01
US Patent :- US6441198.
2. Podophyllotoxin derivatives as antitumour agents
Ahmed Kamal, **M. Arifuddin**, B. Ashwini Kumar.
Applied for Indian Patent. Appl.No:- 139/DEL/2003. - WO2004073375A2- Awarded - 2004
3. Prepn. of 4 β -amino and 4 β -amido derivatives of podophyllotoxin and 4'-O-demethylepipodophyllotoxin as antitumor agents.
Kamal Ahmed, **Arifuddin Mohammed**, Kumar Banala Ashwani, Dastidar Sunanda Ghose.
PCT Int. Appl. (2004), WO2004073375

Books Chapters

Number of books and chapters /units in books/SLMs published by teachers and other academics of the Institution								
Sl. No.	Name of the teacher/ other academic	Title of the book	Title of the Chapter/Unit	Year of publication	ISBN number of the publication	Affiliating Institute at the time of publication	Name of the publisher	Link of the publications
1	Dr. Mohammed Arifuddin	Organic Chemistry III and Physical Chemistry II (3 rd Semeste-B.Sc)	Unit-19 Preparation of Phenol formaldehyde resin (Bakelite)	2022	BSCH311CCT (BKID-062) (ISBN:978-93-95203-13-5)	MANUU	MANUU	-
2	Dr. Mohammed Arifuddin	Organic Chemistry III and Physical Chemistry II (3 rd Semester-B.Sc)	Unit-20 Preparation of urea-formaldehyde resin	2022	BSCH311CCT (BKID-062) (ISBN:978-93-95203-13-5)	MANUU	MANUU	-
3	Dr. Mohammed Arifuddin	Organic Chemistry III and Physical Chemistry II (3 rd Semester-B.Sc)	Block –II Unit-21 Determination of heat capacity of a calorimeter (Translation)	2022	BSCH311CCT (BKID-062) (ISBN:978-93-95203-13-5)	MANUU	MANUU	-

4	Dr. Mohammed Arifuddin	Organic Chemistry III and Physical Chemistry II (3 rd Semester-B.Sc)	Unit-22 Determination of heat of neutralization of Hydrochloric Acid with Sodium Hydroxide (Translation)	2022	BSCH311CCT (BKID-062) (ISBN:978-93-95203-13-5)	MANUU	MANUU	-
5	Dr. Mohammed Arifuddin	Organic Chemistry III and Physical Chemistry II (3 rd Semester-B.Sc)	Unit-23 Measurement of pH of different solutions like aerated drinks, fruit juices, shampoos and soaps using pH-meter (Translation)	2022	BSCH311CCT (BKID-062) (ISBN:978-93-95203-13-5)	MANUU	MANUU	-
6	Dr. Mohammed Arifuddin	Organic Chemistry III and Physical Chemistry II (3 rd Semester-B.Sc)	Unit-24 Determination of strength of strong acid (HCl) by pH metric titration with strong base (NaOH) (Translation)	2022	BSCH311CCT (BKID-062) (ISBN:978-93-95203-13-5))	MANUU	MANUU	-
7	Dr. Mohammed Arifuddin	Organic Chemistry-IV and Physical Chemistry-III (4 th Semester-B.Sc)	Unit-1: Aldehydes and Ketones	2023	BSCH401CCT (ISBN: 978-93-95203-78-4)	MANUU	MANUU	-
8	Dr. Mohammed Arifuddin	Organic Chemistry-IV and Physical Chemistry-III (4 th Semester-B.Sc)	Unit 2: Nucleophilic Addition Reactions	2023	BSCH401CCT (ISBN: 978-93-95203-78-4)	MANUU	MANUU	-
9	Dr. Mohammed Arifuddin	Organic Chemistry-IV and Physical Chemistry-III (4 th Semester-B.Sc)	Unit-3: Mechanism of Some name Reactions	2023	BSCH401CCT (ISBN: 978-93-95203-78-4)	MANUU	MANUU	-
10	Dr. Mohammed Arifuddin	Organic Chemistry-IV and Physical Chemistry-III (4 th Semester-B.Sc)	Unit- 6: Dicarboxylic acids and Active Methylene Compounds	2023	BSCH401CCT (ISBN: 978-93-95203-78-4)	MANUU	MANUU	-
11	Dr. Mohammed Arifuddin	Organic Chemistry-IV and Physical Chemistry-III (4 th Semester-B.Sc)	Unit-7: Amines	2023	BSCH401CCT (ISBN: 978-93-95203-78-4)	MANUU	MANUU	-

		Semester-B.Sc)						
12	Dr. Mohammed Arifuddin	Organic Chemistry-IV and Physical Chemistry-III (4 th Semester-B.Sc)	Unit- 8: Nitro compounds, nitriles, isonitriles and Diazonium salts	2023	BSCH401CCT (ISBN: 978-93-95203-78-4)	MANUU	MANUU	
13	Dr. Mohammed Arifuddin	Organic Chemistry-IV and Physical Chemistry-III (4 th Semester-B.Sc)	Unit-17: Preparation of Benzoic acid	2023	BSCH401CCT (ISBN: 978-93-95203-78-4)	MANUU	MANUU	
14	Dr. Mohammed Arifuddin	Organic Chemistry-IV and Physical Chemistry-III (4 th Semester-B.Sc)	Unit-18: Preparation of Nitro benzene	2023	BSCH401CCT (ISBN: 978-93-95203-78-4)	MANUU	MANUU	
15	Dr. Mohammed Arifuddin	Organic Chemistry-IV and Physical Chemistry-III (4 th Semester-B.Sc)	Unit-19: Preparation of Acetanilide	2023	BSCH401CCT (ISBN: 978-93-95203-78-4)	MANUU	MANUU	
16	Dr. Mohammed Arifuddin	Organic Chemistry-IV and Physical Chemistry-III (4 th Semester-B.Sc)	Unit-20: Preparation of para bromo acetanilide	2023	BSCH401CCT (ISBN: 978-93-95203-78-4)	MANUU	MANUU	
17	Dr. Mohammed Arifuddin	B. Sc- V th Sem- (MPC and ZBC) Course Title: Analytical Method in Chemistry	Unit 13: General Aspects of Chromatography	2023	BSCH502DST (ISBN: 978-813-968803-1-6)	MANUU	MANUU	
18	Dr. Mohammed Arifuddin	B. Sc- V th Sem- (MPC and ZBC) Course Title: Analytical Method in Chemistry	Unit 14: Paper chromatography	2023	BSCH502DST (ISBN: 978-813-968803-1-6)	MANUU	MANUU	
19	Dr. Mohammed Arifuddin	B. Sc- V th Sem- (MPC and ZBC) Course Title: Analytical Method in	Unit 15: Thin layer chromatography	2023	BSCH502DST (ISBN: 978-813-968803-1-6)	MANUU	MANUU	

		Chemistry						
20	Dr. Mohammed Arifuddin	B. Sc- V th Sem- (MPC and ZBC) Course Title: Analytical Method in Chemistry	Unit 16: Gas Chromatography and HPLC	2023	BSCH502DST (ISBN: 978-813-968803-1-6)	MANUU	MANUU	
21	Dr. Mohammed Arifuddin	B. Sc- V th Sem- (MPC and ZBC) Course Title: Analytical Method in Chemistry	Unit 17: Separation of amino acids by Paper Chromatography	2023	BSCH502DST (ISBN: 978-813-968803-1-6)	MANUU	MANUU	
22	Dr. Mohammed Arifuddin	B. Sc- V th Sem- (MPC and ZBC) Course Title: Analytical Method in Chemistry	Unit 18: Separation of a mixture of Sudan Yellow and Sudan Red by TLC technique and their identification on the basis of their R _f values	2023	BSCH502DST (ISBN: 978-813-968803-1-6)	MANUU	MANUU	
23	Dr. Mohammed Arifuddin	B. Sc- V th Sem- (MPC and ZBC) Course Title: Analytical Method in Chemistry	Unit 19: Chromatographic separation of active ingredients of plants, flowers and juices by TLC technique	2023	BSCH502DST (ISBN: 978-813-968803-1-6)	MANUU	MANUU	
24	Dr. Mohammed Arifuddin	B. Sc- V th Sem- (MPC and ZBC) Course Title: Analytical Method in Chemistry	Unit 20: Separation of Different Colours from Food Coloured Products by Column Chromatography	2023	BSCH502DST (ISBN: 978-813-968803-1-6)	MANUU	MANUU	
25	Dr. Mohammed Arifuddin	B. Sc- VI th Sem- (MPC and ZBC) Course Title: Inorganic Chemistry II & Physical Chemistry IV	Unit 1: Chemistry of Elements of First Transition Series	2024	BSCH603DST (ISBN: 978-81-972234-3-3)	MANUU	MANUU	
26	Dr. Mohammed Arifuddin	B. Sc- VI th Sem- (MPC and ZBC) Course Title: Inorganic Chemistry II & Physical	Unit 2: Chemistry of Elements of Second and Third Transition Series	2024	BSCH603DST (ISBN: 978-81-972234-3-3)	MANUU	MANUU	

		Chemistry IV						
27	Dr. Mohammed Arifuddin	B. Sc- VI th Sem- (MPC and ZBC) Course Title: Inorganic Chemistry II & Physical Chemistry IV	Unit 6: Hard and Soft acids and Bases (HSAB)	2024	BSCH603DST(ISBN: 978-81-972234-3-3)	MANUU	MANUU	
28	Dr. Mohammed Arifuddin	B. Sc- VI th Sem- (MPC and ZBC) Course Title: Inorganic Chemistry II & Physical Chemistry IV	Unit 7: Bioinorganic Chemistry	2024	BSCH603DST(ISBN: 978-81-972234-3-3)	MANUU	MANUU	
29	Dr. Mohammed Arifuddin	B. Sc- VI th Sem- (MPC and ZBC) Course Title: Inorganic Chemistry II & Physical Chemistry IV	Unit 8: Chemistry of Noble gases	2024	BSCH603DST(ISBN: 978-81-972234-3-3)	MANUU	MANUU	
30	Dr. Mohammed Arifuddin	B. Sc- VI th Sem- (MPC and ZBC) Course Title: Inorganic Chemistry II & Physical Chemistry IV	Unit- 17: Preparation and calculation of percentage yield of tetra-ammine copper (II) sulphate complex. $[\text{Cu}(\text{NH}_3)_4]\text{SO}_4$	2024	BSCH603DST(ISBN: 978-81-972234-3-3)	MANUU	MANUU	
31	Dr. Mohammed Arifuddin	B. Sc- VI th Sem- (MPC and ZBC) Course Title: Inorganic Chemistry II & Physical Chemistry IV	Unit- 18: Preparation and calculation of percentage yield of Sodium trioxalato ferrate (II) complex, $\text{Na}_3[\text{Fe}(\text{C}_2\text{O}_4)_3]$	2024	BSCH603DST(ISBN: 978-81-972234-3-3)	MANUU	MANUU	
32	Dr. Mohammed Arifuddin	B. Sc- VI th Sem- (MPC and ZBC) Course Title: Inorganic Chemistry II & Physical Chemistry IV	Unit- 19: Analysis of an known simple salt for one cation and one anion using systematic procedure for the qualitative inorganic analysis	2024	BSCH603DST(ISBN: 978-81-972234-3-3)	MANUU	MANUU	
33	Dr. Mohammed Arifuddin	B. Sc- VI th Sem- (MPC and ZBC)	Unit- 20: Analysis of an unknown simple salt for one	2024	BSCH603DST(ISBN: 978-81-972234-3-3)	MANUU	MANUU	

		Course Title: Inorganic Chemistry II & Physical Chemistry IV	cation and one anion using systematic procedure for the qualitative inorganic analysis					
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Presentations:

- Presented a paper on "New method for the conversion of thiocarbonyl compounds to carbonyl compounds."
Ahmed Kamal, B. S. P. Reddy, B. S. N. Reddy. E. Laxman and **M. Arifuddin**
Presented in Indo-German Symposium "Organic Synthesis-Growing interface with adjacent sciences" Sept 27-28. 1997.
at IICT. Hyderabad.
- Stereo selective enzymatic amidation of azido functionality. Synthesis of
4 β - amidopodophyllotoxin congeners by bakers yeast
Ahmed Kamal, M. V. Rao, **M. Arifuddin** and N. L. Gayatri.
Presented in "Chira Tech 97" November 11-13, 1997, at Philadelphia, Pennsylvania, 19106, USA.
- Enantioselective ring opening of epoxide with TMSN₃ in the presence of β - cyclodextrin. An efficient route to 1, 2-azido
alcohols
Ahmed Kamal, **M. Arifuddin** and Maddamshetty.V. Rao.
Presented in National Symposium on Green Chemistry. New Delhi. India
January 11-13 1999.
- Synthesis and anticancer activity of new 4 β -amino substituted congeners of podophyllotoxin.
Ahmed Kamal, G. Ramesh, N. L. Gayatri and **M. Arifuddin**
Presented in "Second National Symposium in Chemistry "IICT Hyderabad, India January 27-29, 2000.
- Design and synthesis of novel podophyllotoxin dimers as potential DNA-topoisomerase II inhibitors.
Ahmed Kamal E. Laxman and **M. Arifuddin**
Presented in Vth International Symposium on Bio-organic Chemistry (ISBOC 2000) (IUPAC) January 31- Feb-4, 2000. Pune.
India
- Synthesis and anticancer activity of new 4- β - amino substituted congeners of podophyllotoxin.
Ahmed Kamal, G. Ramesh, N. L. Gayatri and **M. Arifuddin**
Presented in Second National Symposium in Chemistry Jan 27-29, 2000, IICT, Hyderabad, India
- Synthesis of new analogues of podophyllotoxin as topoisomerase II inhibitors.
Ahmed Kamal, B. Ashwini Kumar, and **M. Arifuddin**

- Ramanbhai Foundation 1st International Symposium Jan 23-24, 2003, Ahmedabad, India.
8. Design, Synthesis, Characterization and Biological Activity of Schiff's Bases Derived from 2-Chloro-3-Formylquinoline and its Metal Complexes
Yamuna Penuka, Shabaz Eqbal, C. Rohit, Talla Venu, Md. Arifuddin,* Kolupula Srinivas, MEDCHEM congress-25-26-February 2011. IICT/NIPER-Hyderabad.
 9. Molecular mechanism involved in the anti-nociceptive activity of *Terminalia Coriacea (Roxb.)* wright & arn. Leaf methanolic extract, isolation and characterization of three flavonol glycosides
Syed azizullah Ghorl., Mohammed Safwan Ali Khan., Nishat Ahmed., Mohammed Arifuddin., Zainul Amiruddin Zakaria International Anatomical and Biomedicall Scientific Conferences 2015 (IABS-2015), 18th -20th August 2015, Faculty of Medicine and health Sciences, Univeriti Putra Malaysia, Malaysia.
 10. In-vivo mechanistic evidences of anti-nociceptive effect, isolation and characterization of indole alkaloids from *Tabernaemontana divericata* {L.} R. Br. Flower methanolic extract
Mohammed Saafwan Ali Khan., Abdul Manan mat Jais., Misbah M., Mohammed Arifuddin., Norhafizah Mohtarrudin International Anatomical and Biomedicall Scientific Conferences 2015 (IABS-2015), 18th -20th August 2015, Faculty of Medicine and health Sciences, Univeriti Putra Malaysia, Malaysia.
 11. Synthesis and molecular docking studies of 4-91,3-Thiazol-2-yl)morpholine-benzamidazole conjugates as dual mTOR/P13K α inhibitors.
Shams Aaghaz, Chander Singh Digwal, Upasana yadav, M. Arifuddin, Ahmed Kamal.
International Conference on “ Biochemistry, Nutrition and Pharmacy in human welfare: recent trends and future challenges”.2-5 September-2015
Department of Biochemistry, Osmania University, Hyderabad.
(Got best poster Award)
 12. Mild and selective synthesis of 2-aryl-1-arylmethyl-1*H*-benzimidazoles
Shweta Sawner, Prathapa R. M., Srinivas A., Arifuddin M.
International Conference on “ Biochemistry, Nutrition and Pharmacy in human welfare: recent trends and future challenges”.2-5 September-2015
Department of Biochemistry, Osmania University, Hyderabad.
 13. Ammonium molybdate mediated efficient and facile synthesis of Dihydropyrimidones
Sonal B., Pavitra S. T., Arifuddin M.
International Conference on “ Biochemistry, Nutrition and Pharmacy in human welfare: recent trends and future challenges”.2-5 September-2015

Department of Biochemistry, Osmania University, Hyderabad.

14. Design of Novel Anti-staphylococcal agents acting against bacterial cell division protein (FtsZ) using computer aided drug design.
Mugilarasi P., Mallika M., M. Arifuddin
International Conference on “ Biochemistry, Nutrition and Pharmacy in human welfare: recent trends and future challenges”. 2-5 September-2015
Department of Biochemistry, Osmania University, Hyderabad.
(Got best poster Award)
15. Antimicrobial activity of *Ficus dalhousiae* miq. Leaf extract and stigmasterol from it.
Syed safiullah ghor, Fouzia Fatima, Mohammed Arifuddin, Shazia Siddiqua & Umme Ummara
Conference on Drug Discovery & Development (Global Scenario-Indian perspective), 20-21 November 2015. NIPER-Hyderabad, India.
16. Design, synthesis and biological evaluation of 8-hydroxyquinoline-4-Thiazolidinone derivatives
Srinivas Angapally, Jagruthi. P., Mohammed Arifuddin
Conference on Drug Discovery & Development (Global Scenario-Indian perspective), 20-21 November 2015. NIPER-Hyderabad, India.
17. Development of small molecules targeting bacterial cell division protein (FtsZ) as anti-staphylococcal agents using computational approach.
Mugilarasi P., Mallika M., M. Arifuddin., Alvala R.
International Conference and Workshop on Structure based Designing & Application to infectious Diseases. 1st-5th February 2016, School of Life Sciences, University of Hyderabad, Hyderabad. India.
18. Shweta Sawner, Srinivas A. & Arifuddin M.; Ultrasound Accelerated Synthesis of Novel Benzimidazole Derivatives as Potential Anticancer Agents, National Symposium on Recent Trends in Green Chemistry and Technology (RTGC), 27th-28th February, 2017, Department of Chemistry, Anwar-ul-uloom College (autonomous), Hyderabad-I.T.S.
19. Novel Sulfocoumarin/Coumarin/4-Sulfamoylphenyl Bearing Indazole-3-Carboxamide Hybrids: Synthesis and Selective Inhibition Of Tumor Associated Carbonic Anhydrase Isozymes IX And XII,
Srinivas Angapelly, P.V. Sri Ramya, Andrea Angeli, Claudiu T. Supuran, Mohammed Arifuddin, SPER 7th Annual International Conference & Exhibition [SPER 2018], B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai [Tamil Nadu], 23rd-24th February, 2018. (Poster number- PCH 03).
20. Synthesis and exploration of 2-morpholino-4-phenylthiazol-5-yl acrylamide derivatives for their therapeutic effect against carbonic anhydrase I, II, IX and XII isoforms as a non-sulfonamide class of inhibitors, Baijayantimala Swain, Chander Singh

Digwal, Andrea Angeli, Claudiu T. Supuran, Mallika Alvala , Priti Singh, Mohammed Arifuddin., 8 th PhD/MS National Poster Symposium on “Recent Advances in Chemical and Pharmaceutical Sciences” (RACPS-2019) 21st December 2019., At NIPER-Hyderabad, Hyderabad, T.S. India

21. Design, Synthesis and Biological Evaluation of Coumarin-3-Carboxamides as Selective Carbonic Anhydrase IX and XII Inhibitors, Pavitra S. Thacker, Mallika Alvala, Mohammed Arifuddin, Andrea Angeli and Claudiu T. Supuran, 8 th PhD/MS National Poster Symposium on “Recent Advances in Chemical and Pharmaceutical Sciences” (RACPS-2019) 21st December 2019., At NIPER-Hyderabad, Hyderabad, T.S. India
22. Design, synthesis, and biological evaluation of 1,2,3-triazole-linked triazino[5,6-b]indole-benzene sulfonamide conjugates as potent carbonic anhydrase I, II, IX , and XIII inhibitors
Krishna Kartheek, Andrea Angeli, Claudiu T. Supuran *, Mohammed Arifuddin *
6th International Electronic Conference on Medicinal Chemistry -1-30th November-2020-Published: 06 November 2020 by MDPI in session General: Presentations- DOI : 10.3390/ECMC2020-07395

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