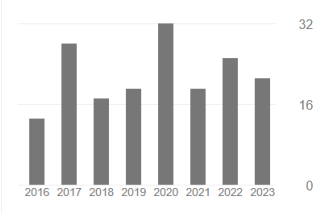
Captain. Dr. Aruna Kumar D.B.

M.Sc., M. Tech., Ph.D., D.Sc. Associate Professor, Department of Chemistry,
Tumkur University, Tumakuru and Associate NCC Officer,

Google Scholar

Citation indices	All	Since 2018
Citations	318	116
h-index	9	7
i10-index	9	6
Total Number of Publications		42



Area of research: Synthetic Organic Chemistry, Spectroscopy, Analytical Chemistry
Drug Designing and material chemistry:
Scopus Author profile https://www2.scopus.com/authid/detail.uri?authorId=11839694400
Google Scholar link:https://scholar.google.co.in/citations?user=PfWOd5gAAAAJ&hl=en

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Professional Experience

Institution	Designation	Service rendered	
Department of PG studies and research in Industrial Chemistry, Kuvempu University Shankaraghatta, Karnataka	Guest Lecturer	Sept-2001	March-2002
CMR-Institute of Technology, Whitefield, Bangalore	Lecturer	March-2002	Sept -2003
Department of PG studies and research in Industrial Chemistry, Kuvempu University Shankaraghatta, Karnataka	Guest Lecturer	Sept- 2003	May-2006
Department of Chemistry, Government Science College, Tumkur, Karnataka.	Lecture	July -2006	Oct-2007
Department of PG Studies in Chemistry, University College of Science, Tumkur, Karnataka.	Assistant Professor	Oct.-2007	Jan- 2010
Department of Studies in Chemistry, University College of Science, Tumkur, Karnataka.	Associate Professor	July-2020	Till date

As Associate NCC officer at UCS, Tumkur

1. Commissioned as Associate NCC officer with lieutenant rank after PRCN Training at Officers Training Academy in 2007 stood first in the training.
2. Received CM Commendation Award from Govt. of Karnataka in 2010.
3. Promoted as Captain in NCC in 2015.
4. Attended many National Integration camps escorting NCC cadets to MP, UP, PUNJAB and in Karnataka.
5. Giving the Institutional Training to thousands of Cadets of UCS since 2006.
6. Involved in conducting the SSCD activities through NCC at Tumkur.
7. Received the Karnataka and Goa NCC Deputy Directorate General commendation in 2021.

Academic Qualification:

S.N	Qualification	Degree	University/ Board	Subjects	Specialisation	YOP	%	Division
1	Research Degree	Ph.D.,	Kuvempu university	Organic Chemistry	Synthetic Chemistry	2007	-	-
3	Master Degree	M.Tech	Mangalore University	Chemical Engineering	Chemical Plant Design	2001	70.00	Distinction
4	Master Degree	M.Sc.	Kuvempu university	Organic Chemistry	Industrial Chemistry	1999	68.50	First
5	Bachelor's Degree	B.Sc.	Mysore University	Physics, Maths and Chemistry	PCM	1997	68.00	First
6	PUC	PUC	PU Board, Bangalore	Physics, Chemistry, Math‟s and Biology	PCMB	1994	62.00	First
7	SSLC		SSLC Board, Bangalore	Kannada, English, Hindi, Social, Science and Math‟s	-	1992	64.33	First

Thesis title:

S.N.	Degree	Title
1	M.Tech.,	"Reuse of black liquor for production of paper"
2	Ph.D.	"Synthesis of Novel Heterocyclic Compounds Encompassing Furan Nucleus of Biological Importance"

Other Courses

a. 3 Month certificate course in **"Bioprocess Engineering"** from center for continuing education, IISc, Bangalore.

Experience

- **Teaching and Academic Experience**

  Academics: Teaching and academic experience: 23 years

PG	22 years
UG	12 years

- **Orientation /Refresher Course: 5**
- **Research Experience: 16** years of research experience.
- **Research Projects:** Completed 02 research projects. **Worth 19 Lakhs**.

1. Major research project entitled: **"ISOLATION AND CHARACTERIZATION OF BIOACTIVE SECONDARY METABOLITES FROM MEDICINAL PLANTS IN THE PARTS OF PENINSULA CRATON FOR ACTIVITY AGAINST SKIN DISEASES - AN ETHNOBOTANICAL INVESTIGATION**. Duration: 3 years, (01-05-2009 to 31-04-2012), Cost: Rs. 4, 39,500=00, Sanctioned from UGC, New Delhi, successfully completed
2. Major research project entitled: **"CONVENTIONAL AND SOLVENT-FREE SYNTHESES OF PHARMACOLOGICALLY IMPORTANT FURAN AND ITS DERIVATIVES".** Sanctioned from Department of Science and Technology, Government of India-FAST TRACK SCHEME Successfully completed.

- **Seminar / Workshops/ Conference: National conference/workshops organized – 10, Conferences attended – 30, Invited Talks – 5, Papers/posters presented – 10**.

- **Books Published: I**nternational -02
  - **Biological and Synthetic strategies importance of Benzofuran** published by **LAP LAMBERT** Academic Publishing (978-6200258960).
  - "Voltametric Applications in Drug detection: Mini Review" in **Voltammetry for Sensing Applications** published by **Bentham Science Publications** (978-981-5039-72-6).

- **Research Articles:** National- 08, International- 34, Total Publications- 42

- **Trainings attended**: 05;

- **Awards: 02**

- **Professional Membership: 05**

Tumkur University Teachers Association

- **Administrative Experience:**
  - **Coordinator: IQAC UCS, Tumkur**
  - Worked as **Special Officer**, Tumkur University, Tumakuru.
  - Worked as a **Coordinator** for P.G. Course M.Sc., Chemistry of Tumkur University.
  - **Chairman,** Department Council, Dept. of Organic Chemistry, Tumkur University.
  - Worked as a **Coordinator** for P.G. Course M.Sc., in Organic Chemistry of Tumkur University.
  - Worked as HOD of Chemistry Department UG UCS, Tumkur
  - Worked as Chairman of BOS in Chemistry, Chairman BOS in NCC, Chairman BOS in Rovers and Rangers.
  - Worked as Chairman and Member of BOE of Tumkur University and Other state Universities.

- **Research Guidance: 6**

Degree	Awarded	Pursuing
Ph.D.	03	03

- **Thesis Titles of Ph.D. students**

Sl. N	Name of Research scholar	Ph.D. Thesis Titles	Year of Completion	Remarks/Status
1	Krishnaswamy G	Design, Synthesis, characterization and biological evaluation of Pharmacologically important Furan and its derivatives.	2019	Ph. D. awarded
2	Venkataramana V	Development and validation of new HPLC method for the quantitative determination of active components in bulk drugs, pharmaceutical evaluation and newly synthesisd compounds	2020	Ph. D. awarded
3	Shinoj Kumar P P	Synthesis, characterization and biological studies of Novel heterocyclic compounds containing Nitrogen and sulphur.	2020	Ph. D. awarded

4	Rudreshappa G E	Synthesis, characterization of nano materials and their applications	-	Theis submitted
5	Swamy S	Syntheses, charecterization of ferrite based nano materials and their applications	-	Ongoing
6	Srinivasa	Yest to provide	-	Completed course work

- List of publications: since 2017

Sl. No	**Title of the paper**	**Name of the Journal /Publisher in case of book**	**Date of Publication and impact factor if any**	**Volume and Issue Number and pages**
1	Synthesis, crystal structure, Hirshfeld surface studies and frontier orbitals analysis of 4-(1-benzofuran-2-yl)-2-methyl-6-phenylpyrimidine. G Krishnaswamy, PK Murthy, PA Suchetan, NR Desai, DBA Kumar,	Chemical Data Collections	August- 2017 Scopus cite Score-2.9	9, 143-151 ISSN: 2405-8300
2	3-[6-(4-Methoxyphenyl)-2-methylpyrimidin-4-yl]-2-(4-methylpiperazin-1-yl) quinoline., 2018, VD Singh, S Anthal, NR Desai, DB Aruna Kumar, S Sreenivasa, R Kant.	IUCr Data	January-2018 peer-reviewed	3 (1), x180030, ISSN 2414-3146
3	Structural and spectroscopic characterization, reactivity study and charge transfer analysis of the newly synthetized 2-(6-hydroxy-1-benzofuran-3-yl) acetic acid. P Krishna Murthy, G Krishnaswamy, StevanArmaković, Sanja J Armaković, PA Suchetan, Nivedita R Desai, V Suneetha, R SreenivasaRao, G Bhargavi, DB Aruna Kuma	Journal of Molecular Structure	June 2018 Cite Score-4.6	1162(81-95) ISSN: 0022-2860
4	tert-Butyl 4-{3-[6-(4-methoxyphenyl)-2-methylpyrimidin-4-yl]quinolin-2-yl}piperazine-1-carboxylate. Sumati Anthal, Vikram. D. Singh, N. R. Desai, D. B. Aruna kumar, S. Sreenivasa, Kamni and Rajni Kanta	IUCrData (2018). 3, x180427	March 2018 peer-reviewed	3, x180427 ISSN 2414-3146
5	Synthesis, Crystal structure and Molecular Docking Studies of Novel 2-(4-benzoylpiperazin-1-yl)quinoline-3-carbaldehyde, Nivedita R Desai, Arun KumarDoyijodeBasappa,Suchetan P. A., LokanathNeratur,Naveen S, Shivaraja G, S. Sreenivasa,	Chemical Data Collections	December 2019, Scopus cite Score-2.9	24, 100282, ISSN: 2405-8300
6	Stability Indicating RP-HPLC Method for the Estimation of ORLISTAT in Bulk and Pharmeceutical Dosage Forms	Eurasian Journal of Analytical Chemistry	April 2019 Impact Factor 0.6	14 (2): 27-35 ISSN: 1306-3057

	N.V. Venkataramana, Nivedita R Desai, Swamy Sreenivasa, D.B. Aruna Kumar,			
7	Stability Indicating Reverse Phase-HPLC Method for the Estimation of Doxorubicin in Bulk and Pharmaceutical Dosage Forms, NV Venkataramana, Aruna Kumar DB, Nivedita R Desai	Eurasian Journal of Analytical Chemistry	October 2020 Impact Factor 0.6	15 (2): 1-12 ISSN: 1306-3057
8	Synthesis, Characterization, PASS Prediction and in silico ADME Studies of Ester and Ether Linked 1,4-Disubstituted 1,2,3-Triazoles Derivatives via Click Approach, G. Krishnaswamy, P. Raghuram shetty, , B. Roop, Salma Banu , H.J. Preritha, B.S. Rajeshwari , M. Ravikumar, K. Pruthviraj, , D.B. Aruna Kumar And S. SREENIVASA	Asian Journal of Chemistry;	July 2020 SJR-0.15	32,(8) 1857-1864, ISSN:0970-7077
9	Synthesis, Characterization, Pass prediction, In-silico ADME, Molecular docking and Cyclic voltammetry studies of 1, 4, 5-trisubstituted 1, 2, 3-triazole ethanone and ethanol derivatives via Metal free approach. Krishna swamy G. Golla Ramesh. Pruthviraj K, Salma Banua. Roopa B. H.J.Preritha. B.S.Rajeshwari, M. Ravikumar, P.Raghuram Shetty. D.B.Aruna Kumar and S.Sreenivasa	Chemical Data Collections	August 2020 Scopus cite Score-2.9	28, 100617, ISSN: 2405-8300 ,
10	Design, synthesis, PASS prediction, *in-silico* ADME and molecular docking studies of substituted-(*Z*)-3-benzylidine-5-aza-2-oxindole derivatives (Part-1),PP Shinoj Kumar, G Krishnaswamy, Nivedita R Desai, S Sreenivasa, DB Aruna Kumar	Chemical Data Collections	February 2021 Scopus cite Score-2.9	31, 100452, ISSN: 2405-8300 ,
11	Synthesis, characterization, antimicrobial and in-silico studies of (1, 1-dibenzofuran-2-yl) ethyl terephthalamide derivatives Krishnaswamy Gurunathan1 , Desai Nivedita R , Naika Raja Naika Hanuma3 , Aruna Kumar Doyijode B.2 and Sreenivasa S	Res. J. Chem. Environ.	May -2021 SCI impact factor of 0.636	25 (5), 68-79, E-ISSN: 2278-4527
12	Highly Facile, Regio- and Stereoselective Synthesis of Spiropyrrolidine-5-aza-2-oxindole Derivatives through Multicomponent 1,3-Dipolar Cycloaddition Reaction and Their In-Vitro and In-Silico Biological Studies. P. P. Shinoj Kumar, G. Krishnaswamy, Nivedita R. Desai,Dr. S. Sreenivasa, D. B. Aruna Kumar	Chemistry select	impact factor-2.109	6, (35), 9407-9414 ISSN:2365-6549

13	Voltammetric Applications in Drug Detection: Mini Review: G Krishnaswamy, G Shivaraja, S Sreenivasa, Aruna Kumar DB	Voltammetry for Sensing Applications		2022, 281-305
14	Synthesis of novel 5-(4-N-Alkyl-piperazin-1-yl)-1-benzofuran-2-yl)-3-substituted phenyl propenone derivatives as antibacterial agents: In vitro and In silico studies: Aruna Kumar D.B. Krishnaswamy G, Desai Nivedita R, Raja Naika H, Sreenivasa S	Research Journal of Chemistry and Environment,		27(1), 2023/1 78-85
15	Green Synthesis of Cerium Oxide Nanoparticles, Antibacterial Studies and as Catalyst for the Conversion of Cotton Seed Oil into Biodiesel: G.E. Rudreshappa, Madhu Chennabasappa, S. Sreenivasa, S. Vijaya Kumar, K.V. Yatish, G. Nagaraju, H.M. Suresh Kumar, And D.B. Aruna Kumar.	Asian Journal of Chemistry,		2022, 34(9), 2415-2423,
16	Electrodeposition and corrosion behavior of Sn and Sn reduced graphene oxide coatings on mild steel from the non-cyanide acid chloride bath solution:Dharanendra R.A , Bhavana R, Sreenivasa S. Aruna Kumar D.B and Shet Prakash M.	Rsearch Journal of Chemistry and Environment		Vol. 27 (8) August (2023) Res. J. Chem. Environ. https://doi.org/10.25303/2708rjce0107 1
17	The Structural and Multiple Applicational Study of Alkaline Earth Metal Spinel (AB2O4) Ferrites:Swamy S, Arun Kumar D B, Gurushantha K, Meena S, Keshavamutrhy K	Asian Journal of Chemistry, -		Accepted
18	Green synthesis of Zinc Oxide nanoparticles, antibacterial studies and investigation as catalyst for the conversion of pumpkin oil into Biodiesel: G.E. Rudreshappa, Madhu Chennabasappa, S. Sreenivasa, S. Vijaya Kumar, K.V. Yatish, G. Nagaraju, H.M. Suresh Kumar, And D.B. Aruna Kumar	Research Journal of Chemistry and Environment-		Accepted
19	Highly Facile, Regio- and Stereoselective Synthesis of Spiropyrrolidine-5-aza-2-oxindole Derivatives through Multicomponent 1,3-Dipolar Cycloaddition Reaction and Their In-Vitro and In-Silico Biological Studies: P. P. Shinoj Kumar, G. Krishnaswamy, Nivedita R. Desai, Dr. S. Sreenivasa, D. B. Aruna Kumar	Chemistry Select		6 (35), September 21, 2021. Pages 9407-9414, https://doi.org/10.1002/slct.202102118
20	Synthesis, characterization, antimicrobial and in-silico studies of (1, 1-dibenzofuran-2-yl) ethyl terephthalamide derivatives: Krishnaswamy Gurunathan, Desai Nivedita R, Naika Raja NaikaHanuma,	Research Journal of Chemistry and Environment		Vol. 25 (5) May (2021), 68-79

	Aruna Kumar Doyijode B and Sreenivasa S			
21	Design, synthesis, PASS prediction, *in-silico* ADME and molecular docking studies of substituted-(*Z*)-3-benzylidine-5-aza-2-oxindole derivatives: (Part-1) P.P.Shinoj Kumar, Krishnaswamy G, Nivedita R. Desai , S. Sreenivasa, D.B. Aruna Kumar	Chemical Data Collections		Volume 31, February 2021, 100617 https://doi.org/10.1016/j.cdc.2020.100617
22	Synthesis, Characterization, Pass prediction, *In-silico* ADME, Molecular docking and Cyclic voltammetry studies of 1, 4, 5-trisubstituted 1, 2, 3-triazole ethanone and ethanol derivatives via Metal free approach: Krishnaswamy G, Golla Ramesh, Pruthviraj K, Salma Banu, Roopa B, H.J. Preritha, B.S. Rajeshwari, M. Ravikumar, P. Raghuram Shetty, D.B. Aruna Kumar, S Sreenivasa	Chemical Data Collections		Volume 28, August 2020, 100452 https://doi.org/10.1016/j.cdc.2020.100452
23	Synthesis, Characterization, PASS Prediction and in silico ADME Studies of Ester and Ether Linked 1,4-Disubstituted 1,2,3-Triazoles Derivatives via Click Approach: G. Krishnaswamy, P. Raghuram Shetty, , B. Roopa, Salma Banu, H.J. Preritha, B.S. Rajeshwari, M. Ravikumar, K. Pruthviraj, D.B. Aruna Kumar and S. Sreenivasa	Asian Journal ofChemistry		2020, 32(8) 1857-1864