


NAME	Dr. SINDHU K S	
DESIGNATION	ASSISTANT PROFESSOR IN CHEMISTRY MORNING STAR HOME SCIENCE COLLEGE ANGAMALY	
QUALIFICATION	M.Sc B.Ed Ph.D	
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TEACHING INTERESTS
Organic Chemistry, Spectroscopy, Quantum Mechanics

RESEARCH AREAS
Organic Catalysis and green chemistry

ACADEMIC/PROFESSIONAL QUALIFICATIONS*

NAME OF THE PROGRAMME	INSTITUTION/UNIVERSITY	YEAR OF PASSING
BSc Chemistry	St. Xavier's College For Women Aluva, Mahatma Gandhi University Kottayam	2003
MSc Chemistry (Organic)	School of Chemical Sciences, Mahatma Gandhi University Kottayam	2007
BEd Physical Science	UCTE Muvattupuzha, Mahatma Gandhi University Kottayam	2004
PhD in Chemistry	School of Chemical Sciences, Mahatma Gandhi University Kottayam	2017

CAREER HISTORY/TEACHING EXPERIENCE

DESIGNATION	INSTITUTION/UNIVERSITY	YEAR OF SERVICE
Lecturer in Chemistry	Mangalam College of Engineering Kottayam	2009
Assistant Section Officer	Mahatma Gandhi University Kottayam	2009-2017

PHD THESIS

SL.NO	TITLE	GUIDE NAME	INSTITUTION	MONTH/YEAR
	Innovative strategies for iron-catalyzed cross-coupling reactions in aqueous medium under aerobic conditions	Dr. G AnilKumar	School of Chemical Sciences, Mahatma Gandhi University Kottayam	April 2017

AWARDS/ACHIEVEMENTS/OTHERS*

SL.NO.	NAME OF AWARDS/ ACHIEVEMENTS/OTHERS	DESCRIPTION	MONTH/ YEAR
1	UGC JRF	93 rd Rank	June 2012
2	Best paper award	National Seminar "Green Chemistry for Environmental Sustainability" Conducted at Bharata Mata, College, Thrikkakkara, Kerala .	7-8 February 2017
3	Internship in Department of Chemistry, IIT Kanpur	MSc Project done in IIT Kanpur (On Lewis acid mediated 3+2 cycloaddition reaction of aziridines with phenyl acetylenes, under the auspicious guidance of Prof. V. K Yadav, Dept of Chemistry, IIT Kanpur.)	1 st January 2007 to 31 st May 2007

JOURNAL PUBLICATIONS

SL.NO.	TITLE	NAME OF JOURNAL / VOL. NO / ISSUE NO / PAGE NOS	IMPACT FACTOR	MONTH / YEAR
1	Investigation of the inhibitory activity of some dietary bioactive flavonoids against SARS-CoV-2 using molecular dynamics simulations and MM-PBSA calculations Journal of Biomolecular Structure and Dynamics”	Jibin K. Varughese, K. L. Joseph Libin , K. S. Sindhu , A. V. Rosily and T. G. Abi Journal of Biomolecular Structure and Dynamics, 2021 Feb 23;1-16	3.2	2021
2	“An Efficient Protocol For The Synthesis Of Thioethers Via Iron-Catalyzed Cross-Coupling Reaction And Its Mechanistic Investigation”	K. S. Sindhu, George Mathai T. G Abi and Gopinathan Anilkumar. <i>Polyhedron</i> , 2018, 158, 270	2.1	2017
3	“A green approach for arylation of phenols using iron catalysis in water under aerobic conditions”	K.S Sindhu, S.M UjwalDev, K. Keerthi Krishnan and Gopinathan Anilkumar. <i>J. Catal.</i> , 2017, 348, 146.	7.3	2017
4	“Iron-catalyzed sonogashira type cross-coupling reaction of aryl iodides with terminal alkynes in water under aerobic conditions”	K.S. Sindhu, Amrutha P. Thankachan, Anns Maria Thomas and Gopinathan Anilkumar. <i>Chemselect</i> , 2016, 3, 556.	1.8	2016
5	“An efficient iron-catalyzed S-arylation of aryl and alkylthiols with aryl halides in presence of water under aerobic conditions”	K.S. Sindhu, Amrutha P. Thankachan, Anns Maria Thomas and Gopinathan Anilkumar. <i>Tetrahedron Lett.</i> , 2015, 56, 4923.	2.4	2015

6	“Recent developments and applications of Cadiot-Chodkiewicz reaction”	K. S. Sindhu, Amrutha P. Thankachan, P. S. Sajitha and Gopinathan Anilkumar. <i>Org. Biomol. Chem.</i> , 2015, 13, 6891.	3.6	2015
7	“Recent advances and applications of Glaser coupling employing greener protocols”	K. S. Sindhu and Gopinathan Anilkumar. <i>RSC Adv.</i> , 2014, 4, 27867.	3.3	2014
8	“Recent advances in the syntheses, transformations and applications of 1,1-dihalocyclopropanes”	Amrutha P. Thankachan, K. S. Sindhu, K. Keerthi Krishnan and Gopinathan Anilkumar. <i>Org. Biomol. Chem.</i> , 2015, 13, 8780.	3.6	2015
9	“A novel and efficient zinc-catalyzed thioetherification of aryl halides”	Amrutha P. Thankachan, K. S. Sindhu, K. Keerthi Krishnan and Gopinathan Anilkumar. <i>RSC Adv.</i> , 2015, 5, 32675.	3.3	2015
10	“An efficient zinc-catalyzed cross-coupling reaction of aryl iodides with terminal aromatic alkynes”	Amrutha P. Thankachan, K. S. Sindhu, K. Keerthi Krishnan and Gopinathan Anilkumar. <i>Tetrahedron Lett.</i> , 2015, 56, 5525.	2.4	2015
11	“An overview of Zn-catalyzed enantioselective aldol type C–C bond formation”	Amrutha P. Thankachan, S. Asha, K. S. Sindhu and Gopinathan Anilkumar. <i>RSC Adv.</i> , 2015, 5, 62179.	3.3	2015
12	“A general and inexpensive protocol for the Cu-catalyzed C–S cross-coupling reaction between aryl halides and thiols”	Anns Maria Thomas, Sujatha Asha, K. S. Sindhu, Gopinathan Anilkumar. <i>Tetrahedron Lett.</i> , 2015, 56,	2.4	2015

		6560.		
13	“Recent Developments and Perspectives in the Ruthenium-catalyzed Epoxidation reactions”	S.M UjwalDev, K. S. Sindhu, Amrutha P. Thankachan and Gopinathan Anilkumar. <i>Tetrahedron</i> , 2016, 72, 6175.	2.6	2016
14	“Experimental and Mechanistic Exploration of Zn-catalyzed Sonogashira-type cross-coupling reactions”	Amrutha P. Thankachan, T. G Abi, K. S. Sindhu, and Gopinathan Anilkumar. <i>Chemselect</i> , 2016, 1, 1.	1.8	2016
15	“Recent advances and perspectives in Manganese-catalyzed epoxidation reactions”	Keerthi Krishnan, Anns Maria Thomas, K. S Sindhu, and Gopinathan Anilkumar. <i>Tetrahedron</i> , 2016, 72, 1.	2.6	2016
16	“Recent advances in the transition metal catalyzed etherification reactions”	K. Keerthi Krishnan, S. M. Ujwaldev, K. S. Sindhu and Gopinathan Anilkumar <i>Tetrahedron</i> , 2016, 27, 7393.	2.6	2016
17	“Synthesis of Diaryl and Arylalkyl Sulfides <i>via</i> Zinc-Catalyzed Thioetherification Reactions”	Amrutha P. Thankachan, K. S. Sindhu, K. Keerthi Krishnan and Gopinathan Anilkumar, <i>The Chemist</i> , 2016, 89, 9.		2016
18	“Synthesis of substituted benzofurans and indoles by Zn-catalyzed tandem Sonogashira-cyclization strategy”	Amrutha P. Thankachan, K. S. Sindhu, S.M UjwalDev and Gopinathan Anilkumar. <i>Tetrahedron Lett.</i> , 2017, 58, 536.	2.4	2017

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CONFERENCE PUBLICATIONS

SL.NO.	TITLE	NAME OF CONFERENCE	VENUE, MONTH / YEAR
1	Iron-catalyzed thioetherification of thiols with aryl halides	National Seminar on “ Recent Trends in Chemistry ”	Conducted at Basalius College Kottayam, on 6-7 November 2014
2	An Efficient Iron-Catalyzed Cross Coupling Reaction of Thiols with Aryl Halides	27th Kerala Science Congress	Conducted at Alappuzha, Kerala on 27-29 January 2015
3	Iron-catalyzed cross coupling reaction of thiols with aryl halides in water	National Seminar on “ Chemistry for Tomorrows world ”	Conducted at B. K. College Amalagiry, Kottayam on 22-23 January 2015
4	Iron-catalyzed cross coupling reaction of thiols with aryl halides in water under aerobic conditions – a greener approach	25th Swadeshi Science congress	Conducted at Sanskrit University, Kalady, Kerala on 16-18 December 2015
5	Novel iron-catalyzed sonogashira type cross-coupling reactions in water under aerobic conditions	National Seminar on “ Advanced Topic in Chemistry-ATC 2015 ”	Conducted at S. N. College, Nattika, Thrissur, Kerala on 19-20 August 2015
6	Synthesis of diaryl alkynes <i>via</i> iron-catalyzed	28th Kerala Science congress	Conducted at Calicut

	sonogashira type cross-coupling reactions in water under aerobic conditions		University, Kozhikode, Kerala on 28-30 January 2016
7	Iron-catalyzed cross-coupling of aryl iodides with phenols in aqueous media: a green and efficient protocol for the synthesis of diaryl ethers	29th Kerala Science congress	Conducted at Mar Thoma College, Thiruvalla, Kerala on 28-30 January 2017
8	Synthesis of diaryl ethers via iron catalysis using water as solvent under aerobic conditions – a greener approach	National seminar on “ Green Chemistry for Environmental Sustainability ”	Conducted at Bharata Mata, College, Thrikkakkara, Kerala on 7-8 February 2017
9	A green protocol for the synthesis of diaryl sulfides via iron-catalyzed cross-coupling in aqueous medium	International Conference on “Advances in Material Science “ ICAM 2018	Conducted by Dept. of Chemistry, Sree Sankara College Kalady on 24-25 October 2018
10	“A greener approach towards iron-catalyzed sonogashira type cross-Coupling reactions in water”	International Symposium on new trends in applied chemistry (NTAC 2019)	Dept. of Chemistry, S H College Thevara on 14-15 January, 2019

SEMINARS/CONFERENCES/WORKSHOPS ATTENDED

SL.NO	NAME OF THE PROGRAMME	NAME OF THE ORGANISER & SPONSORING AGENCY	VENUE & DATE	LEVEL *
1	International Symposium on advances in organic Chemistry	Mahatma Gandhi University Kottayam	School of Chemical Sciences, 9-12 January 2006	International
2	National Conference on Advances in physical and Theoretical Chemistry	Dept. of Chemistry, University of Calicut. UGC, CSIR, DST, DBT and KSCSTE	University of Calicut, 19-20 March 2009	National
3	Workshop on NMR spectroscopy and Mass Spectrometry	SRIBS, KSCSTE Trivandrum	CUSAT, 18-20 July 2013	National
4	Seminar on Polymers and Environment	IUCNN, Mahatma Gandhi University Kottayam and United States-India Educational Institution, New Delhi	IUCNN, 4 September 2013	National
5	National Workshop on Mass Spectrometry	IUIC, Mahatma Gandhi University Kottayam and DST	IUIC, Kottayam 5-6 September 2013	National
6	Recent Trends in Macromolecular Science and Engineering	SRIBS, KSCSTE Trivandrum	30-31 September 2013	National
7	Recent Trends in Organic and Bioorganic Chemistry	SRIBS, KSCSTE Trivandrum	Kottayam, 18-20 July 2014	National
8	Workshop on Stereochemistry	SRIBS, KSCSTE Trivandrum	Kottayam, 8-10 January 2016	National

Seminars Conducted

Convener of National Seminar on Current Trends in Chemistry conducted by Dept of Chemistry MSHS College Angamaly in association with KSCSTE on 14-15 February 2019