

Curriculum Vitae



Name : Dr. Sugandha V. Khangar (Wagh)
Qualification : M.Sc. Ph.D. (Physics)
Designation : Assistant Professor
College : Mahatma Fule Arts, Commerce & Sitaramji Chaudhari
Science Mahavidyalaya, Warud, Dist. Amravati-444906.
Address : W/O Mr. Atul N Wagh
Flat No. 102, Mahalaxmi Palace I, Narhari Nagar,
Manewada- Besa Road Nagpur
Pin: 440027
Cell No. : 9975768840
E-Mail : sugandhakhangar2000@gmail.com
Date of Birth : 10/06/1985
Nationality : Indian

Academic Qualification Details :

Examination passed	College/ Institute	Board/ University	Subject/ Specialization	Year of passing	Division/G rade
Ph.D.	PGTD of Physics, Campus Amravati Road Nagpur	RTM Nagpur University, Nagpur	Ultrasonic Study of Polymer solution (Physics)	2015	NA
M.Sc.	PGTD of Physics, Campus, Amravati Road Nagpur	RTM Nagpur University, Nagpur	Condensed Matter Physics	2008	I
B.Sc.	Anand Niketan College Warora	RTM Nagpur University, Nagpur	Physics, Electronics, Mathematics	2006	I
H.S.S.C.	Anand Niketan College Warora	Divisional Board Nagpur	General Science	2003	II
SSC	Lokmanya Girl's highschool Warora	Divisional Board Nagpur	Eng, Marathi, Hindi-sanskrit, maths, Sci, Soc. Sci	2001	I

Experience: Teaching : UG: 11 Yrs PG: 02 Yrs

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Research : 05 Yrs

Ph.D. Thesis Title : **Ultrasonic and Related Studies in Advanced Organic Polymer Solutions**

Ph.D. Supervisor : Dr.Omprakash P Chimankar

Ph.D. Co-Supervisor : Dr. Vivek D. Bhandakkar

Area of Research : Ultrasonics, Polymer

Ph.D/M.Phil Guidance : Nil

Paper Published : 11

Paper Presented : International 06 National 11

Book Published : Nil

Articles Published :--

Invited Talk & Guest Lectures : 1 (Not having certificate)

Conference/Workshop Attended : International 05 National 13

Research Project Completed :

 Minor Research Project : Nil

 Major Research Project : Nil

Position Held :--Nil

Awards/Scholarships :--Nil

Works on Various University Committees: Nil

RESEARCH PROFILE**1. Research Papers published in journals:**

Sr. No	Title	Name of Authors as mentioned in paper	Journal, Vol. No., Page No. Year	Impact Factor or if any	ISSN/ ISBN No.
1.	Study of Miscibility of Aqueous Polyacrylamide (PAA) Solution	Sugandha V. Khangar and Omprakash P. Chimankar	International J. of Engineering and innovative technology (IJEIT		Volume 3, Issue 11, May 2014; pp. 148-150, ISSN: 2277-3754
2.	Ultrasonic Investigation of Dipole- Induced Interactions in Binary Solutions of Cellulose Acetate with Cyclohexanone and Carbontetrachloride (CCl ₄)	Khangar S. V. and Chimankar O.P.	International J. of Advanced Information Science and Technology (IJAIST)		Vol. 25, No. 25, May 2014; pp. 102-108, ISSN: 2319-2682
3.	Study of Thermodynamical Properties of Aqueous Polyvinyl Pyrrolidone (Pvp) Solution	Sugandha V. Khangar, Omprakash P. Chimankar and V.D. Bhandakkar	(GJRA) Global J. of Research Analysis		Vol. 3, Issue 6, June 2014; pp- 73-76, ISSN : 2277-8160
4.	Ultrasonic Characterization of Aqueous polyvinyl pyrrolidone (PVP)	Sugandha V. Khangar and Omprakash P. Chimankar	International journal of physical sciences		pp. 1351-1357, ISSN: 2348-0130 ; 4(10) 2014
5.	Ultrasonic Investigation of Dipole- Dipole Interaction in Binary Solution of Cellulose Acetate + Water	Sugandha V. Khangar and Omprakash P. Chimankar, Ranjeeta S Shriwas and Sushma Patil	International journal of Science and Research (IJSR)		pp. 331-334 ISSN (online): 2319-7064, 2015
6.	A Comparative Study of Molecular Interactions of Pure Cow Milk and Branded Milk	Ranjeeta Shriwas, O P Chimankar, Sugandha Khangar, R Turkar, S T Hiwarkar;	International journal of Science and Research (IJSR)		pp. 261-262, ISSN (online): 2319-7064, 2015
7.	Molecular interaction study of Linolic acid with α - tocopherol by ultrasonic technique	Sushma Patil , M.S. Deshpande , Sugandha V. Khangar, Omprakash P. Chimankar and Atul N. Wagh	Palegia Research Library, Der-Chemica- Sinica		pp. 361-366, 2015

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8.	Ultrasonic and spectroscopic investigation of polychloroprene and polymethyl methacrylate Blends	Sushma Patil , M.S. Deshpande , Sugandha V. Khangar , Omprakash P. Chimankar	Acoustical Society of America (ASA) Volume 38, Issue 4		ISSN: 0001-4966
9.	Measurement of viscosity of highly viscous polymer solution using nondestructive ultrasonic technique.	Sugandha V. Khangar , O. P. Chimankar, D. V. Nandanwar & J. N. Ramteke	Journal of Pure and Applied Ultrasonics (JPAU) Volume 41, pp 94-96		ISSN: 0256-4637
10.	“Frequency and Temperature Dependence of Ultrasonic Properties of Aqueous PVA Solution Using Pulse-Echo Technique”	S V Khangar O P Chimankar R Y Bakale Y S Tamgadge	IJSRST Vol.8 Issue 1, Jan-Feb 2021	7.21 4	Online ISSN:2395-602X Print ISSN: 2395-6011
11.	“Study Of Doped blend Film and its Application as an Sensor Material”	R Y Bakale Y G Bakale S V Khangar	IJSRST Vol.8 Issue 1, Jan-Feb 2021	7.21 4	ISSN:2395-602X Print ISSN: 2395-6011

2. Full Papers in Conference proceedings:

Sr. No.	Name of Conference	Level	Title of Paper	Name of Authors as mentioned in paper	Place & Date	ISSN/ ISBN No.
1.	International Symposium on Ultrasonics	International	Ultrasonic Investigation of Dipole-Dipole Interaction in Binary Solution of Cellulose Acetate + Water	Sugandha V. Khangar and Omprakash P. Chimankar, Ranjeeta S Shriwas and Sushma Patil	22- 24 January 2015 Dept of Physics Campus Nagpur	pp. 331-334 ISSN (online): 2319-7064,

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2.	International Symposium on Ultrasonics	International	A Comparative Study of Molecular Interactions of Pure Cow Milk and Branded Milk	Ranjeeta Shriwas, O P Chimankar, Sugandha Khangar, R Turkar, S T Hiwarkar;	22- 24 January 2015 Dept of Physics Campus Nagpur	pp. 261-262, ISSN (online): 2319-7064,
3.	Advanced material in industries	National conference	“Preparation and ultrasonic characterization of polystyrene with CCl ₄ , C ₆ H ₆ & CS ₂ for industrial applications	Sugandha Khangar, O.P.Chimankar , Ranjeeta Shriwas, and V. D. Bhandakkar	10 th -11 th February -2012, I.Y. College, Jogeshwari, Mumbai;	
4.	Material preparation and characterization	National seminar	; Study of polymer-solvent interaction in aqueous hydroxyl ethyl and propyl cellulose	S.V. Khangar, O.P.Chimankar , R.S. Shriwas, V.D. Bhandakkar and D. Ganvir	24 th Feb 2013, UGC Sponsored and Sindhu Mahavidyalaya, Nagpur	
5	Material preparation and characterization	National seminar	Intermolecular interaction in Soybean oil+ Ethanol by ultrasonic measurements	Ranjeeta Shriwas, O.P.Chimankar , S.V. Khangar, R.H. Dongarwar and S. Jajodia	24 th Feb 2013, UGC Sponsored and Sindhu Mahavidyalaya, Nagpur	
6.	VIMARSH	National conference	Ultrasonic velocity and density studies in some Refined and Unrefined Oils	Ranjeeta Shriwas, O.P.Chimankar , S.V. Khangar, and S. Jajodia	12 th -13 th Sept. 2013, Chouksey Engineering College Bilaspur. CGCOST sponsored	
7.	Advance material,	National conference	Study of compatibilit	S.V.Khangar, O.P.Chimankar	2014, Katol UGC sponsored and	P.P.17 9 181,

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	NCAM-		y in aqueous Polyvinyl Pyrrolidone (PVP) using Pulse Echo Technique	and V.D.Bhandakkar	department of Physics Nabira Mahavidyalaya Katol	ISBN: 97893 81432 709
8.	Ultrasonics(NSU-XX),.	National symposium	Study of miscibility of aqueous polyacrylamide (PAA solution)	S.V.Khangar and O.P.Chimankar	, Jan 2014 Department of Physics, Ravenshaw University, Cuttack	pp 246-249
9.						

3. Papers presented in Conferences / Seminar / Symposia / Workshop:

Sr. No.	Title of Paper	Title of Event	Level	Date	Organizer
1.	Estimation of volume expansivity polystyrene with CCl_4 , C_6H_6 & CS_2 solution	Innovations in Basic Sciences in the Realm of Modern Education	National Seminar	27 th & 28 th Dec.2008	UGC, CSIR, DST, J.B. Science College Wardha
2.	"Preparation and ultrasonic characterization of polystyrene with CCl_4 , C_6H_6 & CS_2 for industrial applications	National conference	National	10 th -11 th February -2012	, I.Y. College, Jogeshwari, Mumbai;
3.	-----	National Conference on Ultrasonics	National Conference	2012	National Physical Laboratory, New Delhi
4.	Study of polymer-solvent interaction in aqueous hydroxyl ethyl and propyl cellulose	Material preparation and characterization	National Seminar	24 th Feb 2013	, UGC Sponsored and Sindhu Mahavidyalaya, Nagpur.
5.	"Ultrasonic characterization of various thermo acoustic	Nanomaterials: New Horizon for Betterment	National Conference	2013	Shree Shivaji Science College Nagpur

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	parameters of Tussar silk in aqueous KOH”	of Mankind			
6.	Ultrasonic velocity and density studies in some Refined and Unrefined Oils	VIMARSH	National conference	12 th -13 th Sept. 2013	Chouksey Engineering College Bilaspur. CGCOST sponsored
7.	“Molecular Interaction studies of Polyvinyl Pyrrolidone (PVP) in aqueous medium.	Acoustics 2013	international conference	Nov. 11-15, 2013	NPL, New Delhi,
8.	Ultrasonic Investigation of Dipole- Dipole Interaction in Binary Solution of Cellulose Acetate + Water	Ultrasonics (ICU) 2015	International Symposium	22- 24 January 2015	Dept of Physics Campus Nagpur
9.	Ultrasonic Investigation of Dipole- Dipole Interaction in Binary Solution of Cellulose Acetate + Water	Ultrasonics (ICU) 2015	International Symposium	22- 24 January 2015	Dept of Physics Campus Nagpur
10.	Thermodynamical studies of polyblend solutions.	ISU 2015	Poster Presentation International Symposium	22- 24 January 2015	Department of Physics RTMNU, Nagpur.
11.	Acoustic Parameters of aqueous Polyacrylamide at 5 MHz	(ICAPCM-2020)	international conference	13-16 February 2020	Department of Physics RTMNU, Nagpur.
12.	Frequency and Temperature Dependence of Ultrasonic Properties of Aqueous Polymer	Advanced Material Science & Nanotechnology (NANOMAT-	International Web Conference	20-21 Jun 2020	Department of Physics, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, Dist. Amravati, Maharashtra

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	Solutions Using Pulse-Echo Technique	2020)			
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4. Conferences / Seminar / Symposia / Workshop Attended:

Sr. No.	Theme	Level	Date	Organizer
1.	Advanced Technologies in Materials and Crystals.	National Conference	28 th & 29 th Jan. 2008	Dr. Ambedkar College RTM Nagpur University
2.	Materials Preparation & Characterization.	National Seminar	30-31 March,2007	R. T. M. Nagpur, held at VANAMATI-Nagpur
3.	VIRTUAL LAB	In- House faculty training Programme	23 Oct 2015	GNIET in association with IIT Bombay
4.	“Strategies & Challenges in Higher Education during COVID-19 Lockdown Period in India with reference to the World”	International E-conference	15-17 May 2020	Government Vidarbha Institute of Science & Humanities, Amravati, India
5.	Physical Education Post Covid Era	National Webinar	21-22 July 2020	Indian Association of Physics Teacher(IAPT)

5. Invited Lectures & session Chairmanship: Nil

Sr. No.	Title	Academic Session	Event	Level	Date	Organizer

6. Year wise Research Guidance: Nil

Sr. No.	Year	Degree (M.Phil/PhD)	No. of Students		
			Enrolled	Awarded	Submitted

7. Research Projects (Minor/Small Grants): Nil

Sr. No.	Title	Major/Minor	Funding Agency	Period	Amount Sanctioned	Sanctioned Letter	Status

8. Training Courses, Teaching-Learning-Evaluation Technology Programmes, Faculty Development Programmes (not less than one week duration)

Sr. No.	Programme	Duration	Organized By
1.	SWAYAMs/MOOCs Online Certification Course on "Experimental Physics II" Amal Kumar Das	(12 Weeks, January-April 2020)	IIT Kharagpur (MHRD)
2.	FDP Online Certification Course on "Moodle: Learning Management System"	(1 Week, May 7- May 12) 2020	Dr. D. Y. Pathrikar College, Aurangabad(MGM University, IIT Bombay)
3.	FDP on "Effective Online Teaching-Learning Methods"	(1 Week, May 18-May 23) 2020	GWCOET, Nagpur
4.	FDP on "Educational Video Creation (EVC-2020)"	(3 days, May 11-May 13) 2020	Toshniwal College, Sengaon, Marathwada University
5.	FDP on "Managing online classes and co-creating MOOCs"	15 Days (May 18-June 03, 2020)	Ramanujan college, New Delhi
6.	National level FDP on G-Suite and Allied Tools in Education, Teaching & E-content Development	29 June to 4 July 2020	PG. Department of Computer Science and Engineering (SGBAU)
7.	Faculty Induction Programme-I (Guru Dakshata)	Sept 07- Oct 06 2020	UGC-HRDC Sant Gadge baba Amravati University, Amravati.
9.	Swayam NPTL Course on "Experimental Physics I"	12 Weeks, Sept-Dec 2020	IIT Kanpur MHRD

10. Book Published: Nil

Sr. No.	Title & Page No.	Authors	Type of Book	Publisher	ISSN/ISBN No	No. of Co- authors

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11. Editorial Board Member: Nil

Sr. No.	Title & Page No.	Type of Books	Publisher	ISSN/ISBN No	No. of Co- authors

12. Articles/Chapters published in Book: Nil

Sr. No.	Title & Page No.	Book Title, Editor & Publisher	ISSN/ISBN No.	Authors	Whether Main authors
1.	“Molecular interaction of Ultrasonic parameters in Aqueous Polymer	“Interdisciplinary Research and Innovation”	ISBN:978-81-947154-6-7	S V Khangar, O P Chimankar, R Y Bakale and Y. S Tamgadge	S V Khangar
2.	“Conduction Mechanism of Blend polymer film”	“Interdisciplinary Research and Innovation”	ISBN:978-81-947154-6-7	R Y Bakale. Y G Bakale and S V Khangar	R Y Bakale

13. Events Organized:

Sr. No.	Events	Level	Funded By	Date	Position

14. Special Achievement: :-

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15. Other Membership: Life member of Ultrasonic Society of India ... Membership
No: LM 254

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