S.P.C.G.C., Ajmer

Faculty Profile

1. **Name:** **Dr. Rashmi Sharma**
2. **Designation:** **Associate Professor**
3. **Department:** **Chemistry**
4. **Educational Qualification:**

Level	Name of University/Board	Year	Title/ Remark/ Medal
P.G.	M.D.S.Univ.	1990	Gold Medal Winner
M.Phil.	-	-	-
Ph.D.	M.D.S.Univ.	1996	Micellar Features of Copper (II) Soaps
Other	NET	1990	

5. **Experience: Teaching / Research**

UG	29	**PG**	28	**Research**	**28**

6. **Membership (Academic Bodies/ Research societies):**

1.Life –Member of Indian Chemical Society(SF/5408(LM)2000)

2. Life –Member of Indian Science Congress L-12213

3.Life –Member of Journal of Lipid,Science and Technology L-240

4.Life – Member of SSM'D-641

5.Life – Member of Medicinal and Aromatic Plants of India MAPAI

6.Member of COC, M.D.S.University, Ajmer2015-16,2017-18,2019-20

7.Member of BOS, Textile Chemistry ,M.D.S.University, Ajmer2017-18,2019-2020

Signature

7. **M.O.O.C (Developed by Faculty): Nil**

8. **Awards Received: Nil**

9. **Academic Courses Attended:**

Course	Place	Sponsoring Agency	Duration
Orientation Course	ASC,Jodhpur	UGC	26.7.99 to 21.8.99
Refresher	1)S.D.College Beawer	Univ .of Delhi	9-14Sep.1994
	2)M.D.S.Univ. Ajmer	UGC	7.11.02 to 27.11.02
	3)M.D.S.Univ. Ajmer	UGC	30.9.04 to20.10.04
Others (Workshop/ Summer School/ Camp etc.)	Yoga Shiksha Shivir ,Nagdandi,Kashmir	Vivekanand Kendra, Kanyakumari	20.6.16to29.6.16

10. **Seminar/ Conference :**

Name of Symposium/ Seminar/Conference	Internat./ National/ Regional	Organized by	Title of Paper presented	Year
1.National Conference	38Th Annual Convention Of Chemists(Indian Chemical Soc.),J.N.V.U.Jodhpur	Paper Presented	Spectroscopic Studies-------of Copper (ii) Complexes	26-29 Dec.2001
2.International Conference	Council Of Surface Science & Catalysis.M.D.S. U .Ajmer	Attended		8-9 Dec 2003
3.National Conference	41st Annual Convention Of Chemists(Indian Chemical Soc.)DU Delhi	Paper presented	Ultrasonic Studies of ----------Soaps	23-27 Dec.2004

Signature

4. International Conference	Chemistry Biology Interface: Synergistic New Frontiers, Vigyan Bhawan New Delhi	Poster Presented	Physico-Chemical Studies & Effect------- various oils	21-26 Nov.2004
5.National Work Shop	Vaigyanik Tatha Takniki Shabdawali Aayog, MHRD,M.D.S.U.,Ajmer	Attended		23-24 Aug.2005
6.National Conference	EnvironmentalDegradation & Sustainable development.S.D.G.C.Beawar	Paper Presented	Sustainable Development ---------- ---- in Agriculture	9-11 Nov.2005
National Symposium	Photocatalysis For Energy , Environment & Chemical Industries.M.L.S.U., Udaipur	Poster Presented	Viscometric Studies of ---------Copper Soaps	14-15 Dec.2005
7.International Conference	Terra Madre,World Meeting Of Food Communities at **Turin Italy**	Paper Presented	Spices of India :Fennel and Traditional oils	26-30 Oct.2006
8.National Conference	44th Annual Convention Of Chemists(Indian Chemical Soc.) M.G.I. Of Applied Sc.,Jaipur	Paper Presented	Viscometric investigation of complexes-----in Benzene.	23-27 Dec.2007
9.National Work Shop	Promoting Excellance In Research.M.D.S.U.,Ajmer	Attended		5-7 Nov. 2008
10.National Conference	Green Chemistry,V.N.S.G.U.,Surat	Poster Presented	Spectroscopic and biocidal------Non- edible oils	6-8 Feb.,2009
11.International Conference	64th Annual Convention & Int.Con.On Oils Fats ,Fuels& Surfactants.(OTAI,New Delhi)	Paper Presented	Tradition, Sustainability and Technology: Health Aspects	9-11 Dec.,2009
12.International Conference	Innovative Molecular approaches In Global Health Research.Biyani's College,Jaipur	Paper Presented	Neem and Karanj Oils , Their --------Antifungal Studies	20-21 Sept.,2010
13.National Conference	Biodiversity Of Medicinal & Aromatic Plants:Collection Characterisation &	Poster Presented	Value Added Product Synthesis -------of Oils	24-25 Nov.2010

Signature

	Utilisation,MAPAI ,Anand			
14.National Conference	32nd All India Rabi Seminar On Oil Seeds, Oil Trade&Industry.(MOPA ,Jaipur	Paper Presented	Cholesterol and ----------Oils	12-13 March. 2011
15.National conference	Chemical Sciences in New Millenium (*NCCSNM-2012),*PACIFIC Univercity, Udiapur	Poster Presented	Photocatalytic Studies of ----------Copper Soaps	08 Jan.2012
16.National Conference	Chemistry Of Primates:Green Chemistry,Dayanand College ,Ajmer	Poster Presented	Photodegradation Studies of----------Soaps	29-30Nov2012
17.Inter national Workshop	Climate Change Impact and Societal Adaptation, Central Univercity of Rajasthan &Swedish Meteorological and Hydrological Institute(Sweden), Central University,Rajasthan	Poster Presented	Impact of SO2 Emission by Thermal Power Plant----------Health.	7-8Nov2013
18.National Conference	*Innovations* in Indian Science ,Engineering& Technology 2013NPL-India,New Delhi	Paper Presented	Significance and Effect -------on Go-Ghrit.	25-27Feb2013
19.Seminar	Research Seminar , S.D.Govt. college Beawer.	Paper Presented	Benefits of Traditional oils	6-7 Jan2015
20.National Seminar	Innovative Teaching Methodology for 2D NMR Spectroscopy-A Technique With Difference ,M.D.S.University, Ajmer	Parcipatd		21 March 2013
21.National Conference	Green Chemistry –Bridge between Energy & Environment, Dausa.	Parcipatd	Catalytic Photodegradation of Copper (II) soap------- as Photocatalyst	13-14 Dec 2014

Signature

22.National Conference	Frontiers at the Chemistry Allied Science Interface FCASI- Rajasthan university.Jaipurs	Parcipatd	Degradation , Kinetics of---------in Presence of ZnO	13-14 March2015
23.National Conference	Urban Growth: environmental Challenges & Responcibilities in special reference of Rajasthan, Ajmer	Paper Presented	Need of -------Edible Oils	26-28 Oct 2015
24.National Seminar	C13 NMR Spectroscopy,MDSU, Ajmer	Parcipatd		25 March 2015
25.National Seminar	Mass Spectroscopy,MDSU, Ajmer	Parcipatd		17Oct 2015
26.National Conference	TharmoPhysical Properties,MNIT, Jaipur	Poster presented	Thermal Behaviour of------ Complexes derived from Edible Oils	14-16 Dec 2015
27.National Conference	Indian Chemical Society, JECRC, Jaipur	Poster presented	Degradation Kinetics of Copper (II) soaps -------- Semiconductor ZnO	28-30 Dec 2015
28.National Conference	Green Chemistry and Sustainable Technologies for Society 2016, SPCGCAjmer	Poster Presented	Photocatalytic Degradation of-------- Photocatalyst.	11-12 Jan 2016
29.International Conference	Frontiers at the Chemistry-Allied Science Interface,Raj Univ. Jaipur	Paper	-	22-23July2017
30.National Conference	Vigyan,Adhyatm,avam ,Vivekanand,Univ of Kota,Kota	Poster Presented	Paramparagat Bhartiya Tilhan------ Vasa Strot Hai.	19-20 Sep 2017
31.Workshop	Intellectual Property Rights,SPC GC Ajmer	participated	-	17 March 2018
32.International conference	Chemical sciences in new Era	Poster presented	Photodegrdation of -----Complexes.	5-6, Oct 2018
33.National Workshop	Interface of Science and Society	Paper Presented	Interrelationship of ------Health of Society .	14 Dec 2018

Signature

34.National Seminar	CME,AIIA	Invited Lecture	Healthy aspects of Traditional Oils	25 July 2019

11. Organizing Sec./Convener of conference/seminar/webinar :

Conference/Seminar Title	Year
-	-

12. Resource Person:

In training Programme	-
In conferences/Seminars (Chair/Co-Chair/of Session)	In Many Seminars • Key Speakar at various social Forums at International /National/state level Conferences/Seminars/Workshops held for Social Awairness(From 2012 onwards) Like- • Speaker in 32nd ALL India Rabi Seminar on Oil Seed held at **Birla Auditorium, Jaipur** on 13 March2013. • Speaker in Bhoomi : Annapurna-Feeding the **World'International Conference** held **at India International Centre, New Delhi** on 10 Oct.2014. • Speaker in National Seminar "Mahila Anna Swaraj &IHES " held at **Bija-Vidyapeeth, NavdanyaBiodiversity Conservation Farm, Dehradun,** 27-29 March 2015 • Speaker National Seminar "Nutrition Sensitive Agriculture " held at **Shilong** June 23-24 June 2017 • Speaker in State level Seminar on Nutrition Literacy at **Bhopal** 18 Sep 2017 • Speaker in International Workshop on Nutrition Sensitive Agriculture and nutrition literacy at **Bhopal** 14 -

Signature

	15 May 2018. • Speaker in National Workshop on Clinical Nutrition at **Indraprasth Apollo Hospital Delhi** 8 Sep 2018 • Speaker at Shakti International Workshop at **Bija-Vidyapeeth, Navdanya Biodiversity Conservation Farm, Dehradun** 2-3 Oct 2018 • Resource person at Continue Medical Education Program held **at All India Institute of Ayurveda,New Delhi** 25 Dec 2019

13. Research Publications

Title of Paper	Name of Journal with Impact factor & ISSN No.	Volume and No. with Year	Citation Index Impact Factor Google Index
• Dielectric Relaxation Studies Of The System ;Copper(II) Soap-Non Polar Solvent at Micro Wave Frequencies ,V.P.Mehta,R.K.Khanna, P.R.Talesra,Rashmi Sharma.	,Asian J. Of Chem., .(ISSN-0970-7077)	3,648-650 ,1995	0.355
• Molar Volume and Apparent Molar Volume Of Copper (II) Soaps +Methanol+Benzene System At Various	Indian Journal Of Chemistry,NISCAIR,CSIR, .(ISSN-0019-5103)	39A,383-387,2001	0.575

Signature

Temperatures			
• Micellar Characteristics Of The Copper Soap+Methanol+Benzene System At Various temperatures	Indian Journal Of Chemistry,NISCAIR,CSIR,	40A,399-402,2001. (ISSN-0019-5103)	0.575
• Surface Tension Studies Of Ternary System Copper Soap plus Benzene Plus Methanol At 313K .,Rashmi Sharma, ,Indian)	Indian Journal Of Chemistry,NISCAIR,CSIR(ISSN-0019-5103)	41A,1173-1176,2002.	0.575
• Micellar Features and Other Solution Properties Of Copper (II) Soaps In Benzene.,Indian	Journal Of Chemistry,NISCAIR,CSIR, (ISSN-0019-5103)	42A,2537-2540,2003.	0.575
• Complexes Of Copper (II) Soaps-Benzothiazole,Synthesis ,IR and ESR Studies,Tenside Surfactant Detergent,Carl Hansur,Munich,)(I.	Tenside Surfactant Detergent,Carl Hansur,Munich,Germany(ISSN-0932-3414	40,2,99-100,2003	.560
• Comparative analysis of four edible oils for stability against longer storage and heat deterioration during frying, and Rashmi Sharma,	, JLST, IICT, Hyderabad. .(ISSN-0973-6379)	Vol 39, No. 3, 111-113, 2007	
• Health Aspects Of Traditionally Processed Indigenous Edible oils, R.Sharma,	Natural Products, RPMP,Studium Press, USA.	18, 429-435, 2007	

Signature

• .Conductometric studies of Copper (II) soap in benzene-methanol at various temperatures, ,	Int.J.Chem. Sci., .(ISBN-0-9336990-8-6)	6 (2), 593-604, 2008.(ISSN-0972-768X)	0.13
• Studies of CMC, solute-solvent and solute-solute interactions of copper (II) soaps derived from edible oils in methanol-benzene system at 303K.	Int.J.Chem Sci, (ISSN-0972-768X)-	6(2), 839-849, 2008.	0.13
• Synthesis and characterization of antifungal containing copper (II) soaps and derived from mustard and soybeans oil,	Tenside Surf. Det(ISSN-0932-3414)-	45 (2), 87-91, 2008.	0.560
• Micellar Behavior and solute-solvent interactions of copper soaps (derive from treated regetable oils) in non- aqueous solvent. M.R.K.Shervani, Rashmi Sharma, Renu Bhutra,	Indian Journal of Chemical Society, .(ISSN-0019-4522)	6(2), 2008, 735	0.384/13
• India's Colourless Revolution Replacement of traditional oils by soy and palm oils,	www.bioscienceresource.org	May 2008	
• Synthesis,	Tenside Surf. Det(ISSN-0932-3414)	March2009.	0.560

Signature

characterization and antifungal activities of copper (II) soaps and their complexes derived from Neem (Azadirecta indica) and Karanj (Pongamia pinnata) the non-edible oils . ,			
• Study of molar volume and apparent molar volume of 5-substituted indole carboxaldehydes in mixed organic solvents, L.C. Heda, Rashmi Sharma, S.R. Mosalpuri and Pramod B. Chaudhary,	Ultra Chem., ISSN-0973-6268	5(2), 241-244, 2009	
• Synthesis and antimicrobial activity of some derrivatives of 5-substituted indole dihyropyrimidines, L.C. Heda, Rashmi Sharma, Chandresh Pareek and Pramod B. Chaudhary,	E-Journal of Chemistry, .(ISSN-0973-4945)(	6(3), 770-774, 2009	0.716

Signature

• *Synthesis and Antimicrobial Activitiy of some Derivatives of 5-substituted Indole Dihydropyrimidines.*	*E-Journal of Chem.*	*6(3),2009,770-774*	Citation 25
• Viscometric investigations of some derrivatives of 5-substituted indole dihyropyrimidines 2-ones in mixed organic solvents	Int. J.Chem.Sci(ISSN-0972-768X)	7(3), 1595-1605, 2009.	0.13
• Viscometric investigations and molecular interactions of derrivatives of 5-substituted indole dihyropyrimidines in mixed organic solvents,	, Ecletica quimica, Ecl.Quim. Sao Paulo	35, 2, 23-32, 2010	0.421/3
• .Micellar Behaviour of Copper Surfactants Derived from fresh (untreated) Seseame Oil and used (treated at high temperature) Seseame Oil	, Tenside Surf. Det (ISSN-0932-3414	47, 2, 106-112, 2010.	0.560
• Application of FGD process (Flue gas desulphurization) to control SO_2 emission at Shree cement Ltd, Beawar, Rajasthan Kolkata,	Journal of the Indian Chemical Society, (ISSN-0019-4522)-	Vol.87,2010,941-946.	0.359

Signature

• Synthesis of Calcium Sulphate and Sodium Sulphate from Waste stream of exhaust flue gases containing SO_2, Rajasthan, R.Sharma, S. Acharya and A.K. Sharma,	J. of Scientific and industrial; research, CSIR.(ISSN-0022-4456)-	Vol.69,2010 ,691-694	0.500
• Effect of absorption of Sulphur dioxide in Sodium Hydroxide solution by using different parameters to make our environment ecofriendly at Shree Power, Beawar, Rajasthan, Rajasthan, , Udaipur, Raj.,	International J. of Chemical sciences (ISSN-0972-768X)	8(2) 2010, 1021-1032.	0.13
• A case study for absorption of sulphur di-oxide in Sodium Hydroxide solution by using different	The ECOSCAN J	Vol.4(1),2010, 93-96.	2.662

Signature

parameters to control SO_2 emission at Shree Cement Ltd, Beawar, Raj., R.Sharma, S. Acharya and A.K. Sharma			
• .Process for removal of sulphur di-oxide from exhaust Sulphurous flue gases at Shree cement Ltd, Beawar, Rajasthan for environment cleaning, R.Sharma, S. Acharya and A.K. Sharma	Nature, Environment and Pollution technology	Vol.9, (3) 2010 ,559-562	1.621
• *.Effect of Pseudomonas on viability of microbial (Rhizobial) inoculants during storage*	*Int.J. Chem. Sci,*	*10(3)2012,1437-1444*	*0.13*
• *Effect of decomposition and treatment of carrier materials with cow urine on Rhizobial*	*Int.J.ChemSci*	*10(3)2012,1591-1600.*	*0.13*

Signature

population of inoculants.			
• *Volumetric and viscometric studies of copper (II) surfactants derived from four edible oils in methanol-benzene mixture.*	*J.IndianChem.Soc*	*Vol.89,May 2012,585-592.*	0.359
• *Synthesis,spectroscopic studies of copper soaps derived from Mustard and Soyabean oils and their Urea complexes..*	*Int. J. Chem.Sci*	*10(1)2012,143-149.*	*0.13/3*
• *Thermogravimetric Analysis of copper (II) soaps derived from Azadirecta indica (Neem)and Pongamia Pinnata (karanj)Non-Edible Oils.*	*Tenside Surf.Det*	*50(2013).1.*	*0.560*
• *Use of Zinc Oxide as Photocatalyst for photodegradation of copper soap*	*Res.Journal of Pharmaceutical, Biological and Chemical Science*	*4(2)2013537-548.*	*I.F 0.350*

Signature

derived from Azadirechta indica (Neem) Oil..			
• *.Thermogrvimetric Analysis of copper (II)soaps Derived fromGroundnut(Arachis hypogeal)and Sesame (Sesama indicum) Edible Oils,*	*Res.Journal ofPharmaceutical,Biological and Chemical Science,RJPBCS*	*4(4)2013,304-310*	I.F 0.35o
• *.Photocatalytic Degradation of Copper soap derived from Mustard Oil over ZnO in Non aqueous media.*	*,Indian Journal of Green and Herbal Chemistry,(IJGHC)*	*March-May 2014,Vol.3,No.2,415 -424.*	SJRA JIF 1.839
• *.Thermogravimetric Analysis Of complexes derived from Copper(II)Neem(Azadirechta indica) and Copper(II)Pongamia Soap (Pongamia pinnata)*	*Indian Journal of Green and Herbal Chemistry,(IJGHC)*	*September-November2014,Sec-A;Vol.3,No.4,1474-1481.*	SJRA JIF 1.839

Signature

• *.Degradation Kinetics of Copper (II)Soap derived fromPongamia Pinnata(Karanj) in presence of Irradiated Semiconducting ZnO..*	*Chem.Sci Rev Lett*	*2015 4(13)xy-xy,1-10.CS152045122.*	*4.014*
• Photocatalytic Degradation of Copper (II) Palmitate in Non-Aqueous Media Using ZnO as Photocatalyst	Tenside Surf . Det.	52(2015)6	0.560
• .Kinetics and Mechenism of Uncatalysed and Ag(I) Catalysed Autoxidation of S(IV) and Its Inhibition by Isoamyl Alcohol in acidic Aqueous Solutions	International Journal of Modern Science and Engineering Technology(IJMSET)	Vol.2,12,2015,31-40.(2349-3755)	3.094
• Formic Acid Inhibited Ag(I)Catalysed Autoxidation of S(IV) in Acidic Medium	Journal of Chemistry and Chemical Sciences (2319-7625 online ,2229-760X Print)	Vol.5(12), 2015,760-771	2.89
• Ag (I) catalysed autoxidation of S (IV) and its inhibition by isopropyl	*Chem Sci Rev Lett* ISSN 2278-6783	Vol.5(17),2016, 14-23 Article CS22204612	*4.014*

Signature

alcohol in acidic medium			
• **The Inhibitive Action of Aniline on the Autoxidation of Sodium Sulfite in Acidic Medium**	J Anal Pharm Res	Vol.4(1) 2017, 00091	
• . **Thermal Behaviour and Kinetics of Copper (II) Soaps and Complexes Derived from Mustard and Soyabean Oil**	J Anal Pharm Res DOI: 10.15406/japlr.2017.04.00091	2017, 4(2): 00102	Citation 26
• Ag (I) Catalyzed Oxidation of SO2 in Aqueous Solution Differing Effect of Benzoate Ions in Acidic Medium	*Current Physical Chemistry,* Bentham Science Publishers DOI 10.2174/1877946807666170607143955	**2017, *7,338-347***	
• The effect of atmospheric aromatic amides on the Ag (I) catalyzed S(IV) autoxidation in aqueous solution	*The Experiment,*	*2017.,Vol 40 (1),2345-2354*	0.33
• Antifungal Activities of Copper Surfactants derived from Neem (Azadirecta Indica) and Karanj (Pongamiapi nnata) Oils: A	1. Glob. J. Pharmaceu. Sci.,.	Volume 3 Issue 4 - August 2017pp1-6	**2573-2250**

Signature

Pharmaceuti cal Application			
• Ultrasonic studies of Cu (II) Soaps derived from Mustard and Soybean oils.	J. Pure Appl. Ultrason,. ISSN 0256-4637	(2017), 39 (3), 92-99	
• .Ultrasonic studies of Cu (II) soaps derived from groundnut and seasame oils Arun Kumar Sharma1,*, Meenakshi Saxena2 and Rashmi Sharma	J. Pure Appl. Ultrason. ISSN 0256-4637	39 (2017)92-99	Citation 22
• Studies of Ultrasonic and acoustic parameters of complexes derived from Copper (II) surfactant of mustard oil with N and S atoms containing ligands in non- aqueous	J. Acous. Soc. Ind., ISSN 0973-3302	2017,44(2), 87-99	

Signature

media (benzene) at 303.15 K.			
• Synthesis, Characterization, and thermal degradation of Cu (II) Surfactants for sustainable green chem.	Asian J. Green Chem., DOI:10.22631/ajgc.2017.95559.1015	2017,2(2), 129-140.	Citation 22
• A Pharmaceutical approach & Antifungal activities of Copper Soaps with their N & S donor complexes derived from Mustard and Soyabean oils.	Glob. J Pharmaceu. Sci., **DOI: 10.19080/GJPPS.2017.03.555619**	2017,3(4) 1-6	
• Thermal degradation of Cu (II) metallic Soaps and their Characterizations. A Pharmaceutical Application	Chronicles of Pharmaceutical Science ISSN -2572-7761	(2017) ,1(5), 312-319	
• .Role of organics in Atmospheric	Malaysian Journal of Chemistry,	2017,19(1), 1–12	

Signature

Catalytic Autoxidation of Aqueous Sulphur Dioxide in acidic Medium.	ISSN 1394-2506		
• Kinetics of isoamyl alcohol and aniline inhibited uncatalysed and Ag (I) catalysed autoxidation of S (IV) in acidic Medium.	Asian J. Research Chem. DOI: 10.5958/0974-4150.2017.00040.2	2017,10(3) 251-258	
• Natural Edible Oils: Comparative Health Aspects Of Sesame, Coconut, Mustard (Rape Seed) and Groundnut (Peanut) A Biomedical Approach Rashmi S, Arun K S	Biomed J Sci.& Tech Res *DOI: 10.26717/BJSTR.2017.01.000441*	BJSTR.MS.ID.000441,1(5).	

Signature

• Ultrasonic studies of Cu(II) Soap derived from seed oil of Pongamiapinnata(Karanj), in non-aqueous binary and ternary systems at 298.15K S. Khan • R. Sharma and A.K. Sharma	Malaysian J of Chemistry ISSN 1394-2506	19(2)2017. 99-110	
• Ag (I) catalyzed oxidation of S(IV) in aqueous solution differing effect of benzoate ions in acidic medium,A.K. Sharma R. Sharma D.S.N. Prasad	Current Phy. Chem. DOI 10.2174/1877946807666170607143955	7(2).2017, 338-347	

Signature

• Kinetic parameters and Photo Degradation studies of Copper Soap derived from Soybean Oil using ZnO as a Photo catalyst in Solid and Solution Phase.S. Sharma, L.C. Heda, R. Sharma and A.K. Sharma	J. Inst. Chemists (India), **ISSN 0020-3254**	89,2017, 119-136	
• Viscometric and CMC studies of Cu(II) surfactants derived from untreated and treated groundnut and mustard oils in non-aqueous solvent at 298.15 K R. Bhutra, R. Sharma and A.K. Sharma	J. Inst. Chemists (India), **ISSN 0020-3254**	90,2017,29-47,	
• Synthesis, spectroscopic and fungicidal studies of Cu (II) soaps derived from groundnut and sesame oils	Bulletin of Pure and Applied Sciences *DOI 10.5958/2320-320X.2017.00004.8*	36(2). 2017,26-37,	12

Signature

and their urea complexes Sharma, A. K. Saxena, M. Sharma R			
• Acoustic Studies of Copper Soap-Urea complexes derived from Groundnut and Seasam oils Sharma, A. K. Saxena, M. Sharma R	J.Phy. Studies ISSN -2310-0052 (Online) 1027-4642Print	21(4),2017, 4601-6	Citation 11
• A Pharmaceutical approach & Antifungal activities of Copper Soaps with their N & S donor complexes derived from Mustard and Soyabean oils.Tank, P., Sharma R., Sharma, A. K.	Glob. J. Pharmaceu. Sci. **DOI: 10.19080/GJPPS.2017.03.555619**	3 (4)2017. GJPPS.MS.ID.555619	

Signature

• Thermal Degradation of Complexes Derived from Cu (II) Groundnut (Arachishypogaea) and Sesame (Sesamumindicum) Soaps Joram A. Sharma R Sharma, A. K.	Z. Phy. Chemistry /https://doi.org/10.1515/zpch-2017-1073	232,2018, 1-12	IF 1.144 Citation 11
• Synthesis, Spectroscopic and Biocidal activities of Environmentally safe Agrochemicals Sharma, A. K. Saxena, M. Sharma R	J Biochem Tech ISSN -0974-2328	7(3),2018.1139-1147,	
• 70.Synthesis, spectroscopic and fungicidal studies of Cu (II) soaps derived from groundnut and sesame oils and their urea Complex	*Bulletin of Pure and Applied Sciences.* *DOI 10.5958/2320-320X.2017.00004.8*	*Vol.36(2), 2017,26-37*	
• Biomedical and antifungal application of Cu (II) soaps and its urea complexes derived from various oils	*Open Access J Trans Med Res.* DOI: 10.15406/oajtmr.2018.02.00033	2(2),2018; 40–43.	

Signature

• Ultrasonic Studies of Cu(II) Soaps Derived from Mustard and Soyabean Oils	Tenside Surf. Det ISSN- 0932-3414	55 (2),2018	I.F-.819(2015),
• Acoustic Studies and Other Acoustic Parameters of Cu(II) Soap Derived from Non-Edible Neem Oil (Azadirecta Indica), in Non-Aqueous Media at 298.15 K.	ACTA ACUSTICA UNITED WITH ACUSTICA ISSN -1610-1928	**Vol. 104 (1), 2018, 1 – 7**	I.F : 1.119(2016) Citation 18
• Biomedical and Fungicidal Application of Copper Surfactants Derived From Pure Fatty Acid Arun Kumar Sharma1*, Rashmi Sharma2 and Antima Gangwal2	Organic & Medicinal Chem IJ DOI: 10.19080/OMCIJ.2018.05.555680	2018; 5(5): 555680,1-4	.
• Effect of Aliphatic Mono Carboxylic acids and alcohols on Silver (I) Catalyzed oxidation of SO2 in	J. Mater. Environ. Sci., **ISSN 2028-2508**	**9(6), 2018, 1829-1837**	

Signature

aqueous solution A. K. Sharma1*, R. Sharma2, D. S. N. Prasad1			
• Antifungal Activities and Characterization of Some New Environmentally Safe Cu (II) Surfactants Substituted 2-Amino-6-Methyl Benzothiazole	***Open Pharmaceutical Sciences Journal,*** 1874-8449/18 2018 Bentham Open DOI: 10.2174/1874844901805010001	2018, ***5***, 1-11 1	Citation 15
• Studies of ultrasonic and acoustic parameters of • copper (II) surfactant of mustard and groundnut oils treated at different temperatures Renu Bhutra1, Rashmi Sharma2 and Arun Kumar Sharma3,*	The Journal of Acoustical Society of India ISSN 0973-3302	Vol. 45, no. 1, 2018, pp42-52	
• Fungicidal Activities and Characterizati	***Open Chemistry Journal*** DOI: 10.2174/1874842201805010089	2018, *5*, 89-101	, citation 7

Signature

on of Novel Biodegradable Cu (II) Surfactants Derived from Lauric Acid Arun Kumar Sharma1,*, Meenakshi Saxena2 and Rashmi Sharma3			
• SYNTHESIS, CHARACTERIZATION AND FUNGICIDAL ACTIVITIES OF Cu(II) SURFACTANTS DERIVED FROM GROUNDNUT AND MUSTARD OILS TREATED AT HIGH TEMPERATURES RENU BHUTRA, RASHMI SHARMA AND ARUN KUMAR SHARMA	*J. Inst. Chemists (India),* *ISSN* 0020-3254	*Vol. 90, Part 3, 2018*	
• Studies of ultrasonic and acoustic parameters of Cu (II) surfactant of fresh and treated sesame and soyabean oils at high temperature for different time Renu Bhutra1, Rashmi Sharma2 and Arun Kumar Sharma3	J. *Pure Appl. Ultrason.* *ISSN0256-4637*	*40 (2018) pp46-51*	*ISSN0256-4637*
• Ultrasonic Studies and Acoustic Parameters of Complexes Containing	***Current Physical Chemistry*** , 18779468 http://dx.doi.org/10.2174/1573412914666181003151414	2018, 8(3),222-229	*Citation 1*

Signature

Copper Surfactants with 2-amino-6-methyl Benzothiazole Arun Kumar Sharma1,*, Rashmi Sharma2 and Antima Gangwal2			
• Volumetric Studies of Copper Soap Derived from Treated and Untreated Oils in Benzene at 298.15 K Renu Bhutra1, Rashmi Sharma2 Arun Kumar Sharma3,*	***Bulletin of Pure and Applied Sciences.*** ***ISSN 0970 4620*** ***DOI 10.5958/2320-320X.2018.00028.6***	***Vol.37 C (Chemistry), No.2, 2018: P.33-44***	***Citation 8***
• Ultrasonic Studies of Copper Soap-urea Complexes Derived from Mustard and Soybean Oils Arun Kumar Sharma,1* Meenakshi Saxena2 and Rashmi Sharma3	Journal of Physical Science, ISSN 1675-3402	Vol. 29(3), 67–82, 2018	
• Surface Active Properties and Micellar Features of Copper Soaps Derived from Various Edible Oils AK, MS, RS	Open Chemistry Journal DOI: 10.2174/1874842201805010119, 2018, *5*, 119-133	120 *Open Chemistry Journal, 2018, Volume 5*	Citation 5
• VISCOMETRIC AND CMC STUDIES OF Cu(II)	*J. Inst. Chemists (India),*	Vol.90,Part 2, 2018	Citation 2

Signature

SURFACTANTS DERIVED FROM UNTREATED AND TREATED GROUNDNUT AND MUSTARD OILS IN NON-AQUEOUS SOLVENT AT 298.15 K RENU BHUTRA1, RASHMI SHARMA2 AND ARUN KUMAR SHARMA3*	ISSN -0020-3254		
• CMC, SOLUTE-SOLVENT INTERACTION OF TERANARY SYSTEM CONTAINING COPPER SOAP-2-AMINO-6-CHLORO BENZOTHIAZOLE COMPLEX, BENZENE AND METHANOL AT 298.15 K 1ARUN KUMAR SHARMA*, 2RASHMI SHARMA, 2ANTIMA GANGWAL AND 3DEEPTI DAS	*J. Inst. Chemists (India),* ISSN -0020-3254	*Vol. 90, Part 4, 2018*	
• Viscometric Behaviour and Micellization of Copper Surfactants Derived from Sesame (*Sesamum Indicum*) and Soyabean • (*Glycine max*) Oils in Non-aqueous Solvent Renu Bhutra1, Rashmi Sharma2 and Arun Kumar Sharma3*	*Malaysian Journal of Chemistry,* *ISSN* -1394-2506	*Vol. 20(2), 2018, 163 - 173*	
• Dietary Fatty Acids and	J Food Tech Food Chem	Volume 1 | Issue	

Signature

Biochemistry of Coconut, Sesame, Mustard and Groundnut Oils: Comparative Healthy Aspects Rashmi S*	Scholarena | www.scholarena.com	1,2018	
• Biomedical and Fungicidal Application of Copper Surfactants Derived From Pure Fatty Acid Arun Kumar Sharma1*, Rashmi Sharma2 and Antima Gangwal2	Organic and Medicinal Chemistry International Journal Organic & Medicinal Chem IJ) ISSN 2474-7610	5(5): OMCIJ.MS.ID.555680 (2018s	
• Effect of Aliphatic Mono Carboxylic acids and alcohols on Silver (I) Catalyzed oxidation of SO2 in aqueous solution A. K. Sharma1*, R. Sharma2, D. S. N. Prasad1	J. Mater. Environ. Sci., ISSN : 2028-2508	2018, Volume 9, Issue 6, Page 1829-1837	SJR 0.3
• Thermogravimetric Analysis of Copper(II) Thiourea Complex Derived from Sesame (*Sesamum indicum*) Oil Asha Meena1* and Rashmi Sharma2	*Journal of Applicable Chemistry* ISSN: 2278-1862	2018, 7 (6): 1703-1712	
		Vol-1 Issue - 4 Pg.	

Signature

• Synthesis and Analysis of Copper Neem (Azadirechta Indica) Soap-Nitro and Ethoxy Benzothiazole Complexes for Anti-Bacterial Activity Related with Skin Diseases Priyanka Kumawat1,*, Rashmi Sharma1, Nitin Sharma2	JOURNAL OF ADVANCED PHARMACEUTICAL SCIENCE AND TECHNOLOGY DOI : 10.14302/issn.2328-0182.japst-18-2522	No. - 34	
• Surface tension studies of ternary system: Cu (II) surfactants - 2-amino-6-chloro benzothiazole complex, benzene and methanol at 311 K Arun Kumar Sharma[a]* Rashmi Sharma[b], AntimaGangwal[b]	***Current Physical Chemistry*** DOI 10.2174/1877946808666180914164134	***2018,8,151-161***	
• Micellar Features and Various Interactions of Copper Soap Complexes Derived from Edible Mustard Oil in Benzene at 303.15 K Pragya Tank, Rashmi Sharma and Arun Kumar	***Current Physical Chemistry*** *DOI:* *10.2174/1877946808666180102152443*	2018, ***8,*** 46-57	Citation -14

Signature

Sharma			
• Fungicidal Activities of Cu (II) Soaps Derived From Various Oils Treated at High Temperature for Biomedical Use Bhutra R1, Sharma R2 and Sharma AK3*	**SAJ Biotechnol** **ISSN: 2375-6713**	2018,Volume 5 | Issue 1	Citation 9
• Synthesis, Spectral and Thermo-Gravimetric Analysis of Novel Macromolecular Organo-Copper Surfactants Anju Joram1, Rashmi Sharma1 and Arun K. Sharma2	***Open Chemistry Journal,*** DOI: 10.2174/1874842201805010145	***2018, Volume 5,145-157***	, citation 3
• Surface Active Properties and Micellar Features of Copper Soaps Derived from Various Edible Oils Arun Kumar Sharma1,*, Meenakshi Saxena2 and Rashmi Sharma3	***Open Chemistry Journal,*** DOI: 10.2174/1874842201805010119	2018, 5, 119-133	, citation 5
• Fungicidal Activities and Characterization of Novel Biodegradable Cu (II) Surfactants Derived from Lauric Acid Arun Kumar Sharma1,*, Meenakshi Saxena2 and Rashmi Sharma3	***Open Chemistry Journal,*** DOI: 10.2174/1874842201805010089	2018, 5, 89-101	, citation 7
• .Study of Photocatalytic Degradation of Copper Mustard Urea Complex	***Journal of Applicable Chemistry,*** ISSN: 2278-1862 www.joac.info	***2019, 8 (1):171-180***	

Signature

Using ZnO as Semiconductor in Non Aqueous Media Vandana Sukhadia1* and Rashmi Sharma2			
• Comparative Critical Micelle Concentration Parameters of Biopotent Metal – Benzothiazole Chelates in Different Chemical Compositions Arun Kumar Sharma Rashmi Sharma, Antima Gangwal	Current phy. chemistry ISSN -18779468	2018, 8(4), 253-272	
• **Viscometric evaluation and micellar properties of Cu (II) Soap derived from neem oil in non-aqueous media,** S. Khan, R. Sharma and A.K. Sharma	Current phy. Chemistry 18779468 http://dx.doi.org/10.2174/1877946808666181102151911	2018, 8(3), 164-174	
• Solid State Kinetics, Spectroscopic, Thermal Degradation and Fungicidal Studies of Biodegradable Copper Surfactants Derived from Lauric Acid Shilpa Jain1, Rashmi Sharma2, and Arun Kumar Sharma3,*	***Anti-Infective Agents,*** *DOI 10.2174/2211352517666190514074750*	2019, ***Vol. 17, No. 1***	
• Investigation of Micellization	***Current Physical Chemistry,*** *DOI:*	2019, ***9,*** 1-15	

Signature

and Viscometric Behaviour of Organo-Copper Soap-Urea Complexes Derived from Various Edible Oils Arun Kumar Sharmaa,*, Meenakshi Saxenab and Rashmi Sharmac	*10.2174/1877946809666190617142243*		
• .Langmuir-Hinshelwood (L-H) adsorption isotherm and photo degradation of copper surfactants derived from long chain saturated fatty acid catalyzed by zinc oxide Swati Sharma*a*, Rashmi Sharma*a*, Swati Goyal*b* and Arun Kumar Sharma*c**	**J. Indian Chem. Soc.,** (ISSN-0019-4522)-	**Vol. 96, February 2019, pp. 281-288**	
• Spectroscopic Characterization and Thermo-Gravimetric Analysis of BioactiveCopper 2-Amino 6-Methyl Benzothiazole Complexes Derived from Various Oils Anju Jorama, Rashmi Sharmaa and Arun Kumar Sharmab,*	***Current Physical Chemistry,*** *DOI:* *10.2174/1877946809666190320144208*	2019, ***9,*** 58-76	
• Spectral, antimicrobial, TGA and photocatalyticdegradation studies of copper neem–urea complexusing synthetic, nano and	International Journal of Environmental AnalyticalChemistry, **Taylor and Francis Pub.**	2019,1-29	

Signature

doped ZnO Priyanka Kumawat, Rashmi Sharma & Arun Kumar Sharma	DOI: 10.1080/03067319.2019.1651302, ISSN: 0306-7319 (Print) 1029-0397 (Online		

14. Research Projects:

Title of the Project	Year	Name of funding agency	Fund available/ utilized	Present status
Physico Chemical and fungicidal activities of copper soap benzothiozole complexes	4-179(2)/99 (MRP /CRO) dated 26-03-99 (1999-2001)	UGC	18,500	Completed
Synthesis, Physico- Chemical properties and fungicidal Activities of copper- soaps derived from various Edible Oils.	4S-80/2004-05/ MRP/CRO/302054 dated31-03-05 (2004-2006)	UGC	1,00,000	Completed
Physical-Chemical Biological analysis Copper(II) surfactants and their complexes with nitrogen.in non aqueous media	MS146/302059/07-08/CRO dated 31-03-08 (2008-2010)	UGC	60,000	Completed

15. Research Supervision:

- **Basic Field of specialization:**

❖ **Ph.D.**

Name of Student	Title of thesis	Present status	Date and Year of Award, if so
1.Antima Gangwal	Physico Chemical studies Of Copper (II) Surfactants In Non Aqueous Media.	Awarded	2003
2.Renu Bhutra(NET)	Physico Chemical And Biocidal Studies Of Copper Surfactants Derived from Various Vegetable Oils	Awarded	2007

Signature

3.Pragya Tak(NET)	Physico Chemical And Biocidal analysis Of Copper Surfactants and Their Complexes With N and S Containing Ligands.	Awarded	2007
4.Meenakshi Saxena(TRF)	Micellar Features Of Copper Soaps Derived from Various Edible Oils.	Awarded	2008
5.Shema Khan(TRF,NET)	Structural Aspects And Micellar Properties Of Copper(II) Soaps Derived From Some Non Edible Oils In Non Aqueous Media	Awarded	2009
6.Anju Joram	Structure And Kinetics Of Copper(II) Soaps And Their Complexes Derived From Edible And Non Edible Oils In Solid State	Awarded	2014
7.Swati Sharma(NET-JRF)	Photocatalytic Degradation Of Copper (II) Soaps Derived From Stearic And Palmitic Acid.	Awarded	2015
8.Promod Bhagwat Chaudhary(Co-Supervisor)	Synthesis, Physical And Biological Studies Of Some Substituted Indole Pyrimidine Derivatives	Awarded	2011
9.Arun Kumar Sharma(Co-Supervisor)	Role of Inhibitors In Atmospheric Catalytic AutoOxidation of Liquide Sulphur DiOxide in Acidic Medium	Awarded	2017
10.Asha Meena(NET)	Synthesis, Spectroscopic, Kinetic and Biological Studies of Copper (II) Sesame and Copper (II) Groundnut Soaps and Complexes	Registered	2016
11.Vandana Sukhadia(NET)	To study the structural aspects , degradation, kinetics and biological effects of Copper (II) Mustard soap and Copper(II)Soya soap and their complexes.	Registered	2016
12.Priyanka	Synthesis, spectroscopy, kinetic and biological studies of Cu(II) neem and	Registered	2016

Signature

Kumawat(NET)	Cu(II) pongamia Soap and their complexes		
13.Shekhar Kanwaria(NET)	SPECTROSCOPIC AND CHROMATOGRAPHIC ANALYSIS OF THERMALLY ABUSED EDIBLE OILS WITH RESPECT TO THEIR CHEMICAL COMPOSITION : A COMPARATIVE OVERVIEW.	Registered	2017

❖ **M. Phil.**

Name of Student	Title of Dissertation	Present status	Date and Year of Award, if so
1.Shilpa Jain	Fungicidal Studies Of Copper Laurate-Benzothiozole Complex.	Completed	2009
2.Jeetender Jarwal	Study On Corrosion Inhibition and Efficiency Of Soyabean On Copper Metal	Completed	2009

16. Monograph/ Book / Chapter (in Edited Book)/Chapters in study material of Open universities

- **Book (Single Author)**

Title of Book	ISBN/ ISSN No.	Publisher with Place	Year of Publication
1.Khadya Telon ki Asliyat	-	Navdanya,Delhi	2003&2015

- **Chapter(s) in Book (Edited / multi-author)**

Title of Chapter	Authors / Editors	Name of the Book with ISBN/ ISSN No.	Publisher with Place	Year of Publication
1.Air Pollution-Monitering, Modelling,Health and Control	Dr. Mukesh Khare	978-953-51-0381-3	Intech Europe	2012-13
2.Application of FGD Process for removal of Sulphur di Oxide	Arun Kumar ,Rashmi Sharma	978-3-8465-9329-5	Lambert Academic Publishing, Germany	2012-13
3.Photo-degradation of Cu	S. Sharma,	**978-3-659-**	LAP LAMBERT	2017

Signature

Soaps derived from Edible & Non Edible Oils“	R. Sharma and A.K. Sharma	**45043-3”**	Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8,66121, Saarbrücken, Germany. www.lap-publishing.com	
4.Spectral & TGA Studies of Cu Soaps of various oils & Their Complexes	A. Joram, R. Sharma and A.K. Sharma	**978-3-659-66769-5”**	LAP LAMBERT Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8,66121, Saarbrücken, Germany. www.lap-publishing.com	2017
5.Comparative Studies of Treated & Untreated Oils as Cu (II) Surfactants“	R. Bhutra, R. Sharma and A.K. Sharma	**978-3-659-83122-5”**	LAP LAMBERT Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8,66121, Saarbrücken, Germany. www.lap-publishing.com	2017
6.Micellar Features of Cu (II)	M. Saxena,	**978-620-2-**	LAP LAMBERT	2017

Signature

Surfactants derived from Edible Oils “	R. Sharma and A.K. Sharma	**01906-4”**	Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8,66121, Saarbrücken, Germany. www.lap-publishing.com	
7.TGA and Other Studies of Cu Surfactants derived from Edible Oils “	P.Tank, R. Sharma and A.K. Sharma	**978-620-2-01161-7”**	LAP LAMBERT Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8,66121, Saarbrücken, Germany. www.lap-publishing.com	2017
8.Cu Surfactants derived from Non- Edible oils : Bio-Chemical aspects”	S. Khan, R. Sharma and A.K. Sharma	**978-620-2-00001-7”**	LAP LAMBERT Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8,66121, Saarbrücken, Germany.	2017

Signature

			www.lap-publishing.com	
9.Acid rain chemistry, Catalysis and Inhibition of SO_2 in environment"	A.K. Sharma, R. Sharma and D.S.N. Prasad	978-3-659-91204-7"	LAP LAMBERT Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8,66121, Saarbrücken, Germany. www.lap-publishing.com	2017
10.Physico-Chemical and Biological Studies of Copper Surfactants.	Antima Gangwal, Rashmi Sharma, Arun Kumar Sharma	978-613-9-57780-4	LAP LAMBERT Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8,66121, Saarbrücken, Germany. www.lap-publishing.com	2018
11.Copper Soap-Complexs: Micellar and Biological analysis,	Rashmi Sharma, Antima Gangwal, Arun Kumar	978-613-9-57972-3	LAP LAMBERT Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG	2018

Signature

	Sharma		Heinrich-Böcking-Str. 6-8,66121, Saarbrücken, Germany. www.lap-publishing.com	

13. Any Other Relevant Information/Contributions

1)Editor for National Conference on Rural Development 2017 and WISS 2018 Delhi held at National Physical Laboratory ,Delhi by SSM'D .

2) Subject Expert of State Recruiting Body , Member of academic bodies of M.D.S University Ajmer.

Dr Rashmi Sharma

Signature