




Faculty Details for Gargi College Website

Name		Dr. Manju Kumari Saroj		Photograph 	
Department		Chemistry			
Designation		Assistant Professor			
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Address		Department of Chemistry, Gargi College, University of Delhi Delhi-110048			
Educational Qualifications	Qualification	Title/Course	University	Year	
	Undergraduate	B. Sc. (H) Chemistry	University of Delhi	2005	
	Postgraduate	M. Sc. Chemistry	University of Delhi	2007	
	M.Phil	Ground and Excited-State Properties of Some 3-Benzoylmethyleneindol-2-ones: Substituent and Solvent Effects.	University of Delhi	2009	
	Ph.D.	A Photophysical Study of Some Indole Based Chalcones in Homogeneous and Heterogeneous Media Using Their Absorption and Fluorescence Spectral Profiles.	University of Delhi	2014	
Career Profile		<ul style="list-style-type: none"> – 19th October to till date: Assistant Professor (Permanent), Gargi College, Delhi University – 21st July, 2015 to 18th October, 2015: Assistant Professor (Adhoc), Sri Venkateswara College, Delhi University. – 5th January 2015 to 22nd May, 2015: Assistant Professor (Adhoc), Gargi College, Delhi University. – 1st August 2012 to 6th December, 2014: Assistant Professor (Adhoc), Hans Raj College, University of Delhi. 			
Award		<ul style="list-style-type: none"> – Awarded 'Junior Research Fellowship (JRF)' and secured 0467 rank in the subject CHEMICAL SCIENCES under UGC fellowship scheme through National Eligibility Test examination 			



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	<p>conducted by Council of Scientific and Industrial Research (CSIR) and University Grant Commission (UGC), Government of India, in June 2009.</p>
Publications	<ul style="list-style-type: none">– Photophysical Study of Some 3-Benzoylmethyleneindol-2-ones and Estimation of Ground and Excited States Dipole Moments from Solvatochromic Method Using Solvent Polarity Parameters, Manju K. Saroj, Neera Sharma, Ramesh C. Rastogi, Journal of Molecular Structure, 1012 (2012) 73-86; ISSN:0022-2860.– Solvent Effect Profiles of Absorbance and Fluorescence Spectra of Some Indole Based Chalcones, Manju K. Saroj, Neera Sharma, Ramesh C. Rastogi, Journal of Fluorescence, 21(2011) 2213-2227; ISSN: 1573-4994.– Structure Activity Relationship of Dihydroxy-4-Methylcoumarins as Powerful Antioxidants: Correlation Between Experimental & Theoretical Data and Synergistic Effect, V.D. Kancheva, L. Saso, P.V. Boranova, A. Khan, Manju K. Saroj, M.K. Pandey, S. Malhotra, J.Z. Nechev, S.K. Sharma, A.K. Prasad, M.B. Georgieva, C. Joseph, A.L. DePass, R.C. Rastogi, V.S. Parmar, Biochimie, 92 (2010) 1089-1100; ISSN: 0300-9084.
Posters Presented	<ul style="list-style-type: none">– Presented poster entitled "Solvatochromic Behavior of Some 3-Benzoylmethyleneindol-2-ones" at 13th ISCB International Conference, on "Interplay of Chemical and Biological Sciences: Impact on Health and Environment" held at University of Delhi New Delhi during 26th February-1st March 2009.– Presented poster entitled "Photophysical Properties of Indole Based Chalcones: A Solvatochromic Study" at 6th Indo-Italian Workshop on "Chemistry and Biology of Antioxidants" held at Department of Chemistry, University of Delhi, Delhi-110007 during 10th December- 11th December 2009.– Presented poster entitled "Hydrogen Bonding Behaviour of Some Biologically Active 3-(1'H-Indol-3'-yl)-1-phenylprop-2-en-1-one Derivatives for Use in Drug Design" at First T3D-2010 International Symposium on Trends in Drug Discovery and Development held at Department of Chemistry, University of Delhi, Delhi-110007 during 5th January- 8th January 2010.
Conferences/ Workshop Attended/ Resource Person /Member, Organizing Committee	<ul style="list-style-type: none">– First Indo-Danish DU-SDU Seminar on "Emerging Trends in Interfacial Areas of Chemical Biological and Environment Sciences" held at the Department of Chemistry, University of



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	<p>Delhi during 17th - 18th March, 2008.</p> <ul style="list-style-type: none">– 13th ISCB International Conference, on "Interplay of Chemical and Biological Sciences: Impact on Health and Environment" held at Department of Chemistry, University of Delhi New Delhi during 26th February - 1st March, 2009.– 6th Indo-Italian Seminar on "Green Chemistry" held at Department of Chemistry, University of Delhi, Delhi-110007 on 9th December, 2009.– 6th Indo-Italian Workshop on "Chemistry and Biology of Antioxidants" held at Department of Chemistry, University of Delhi, Delhi-110007 during 10th - 11th December, 2009.– First T3D-2010 International Symposium on "Trends in Drug Discovery and Development" held at Department of Chemistry, University of Delhi, Delhi-110007 during 5th January- 8th January, 2010.– Workshop on "Information Literacy & Competency" organized by Delhi University Library System, University of Delhi, Delhi held on 23rd February 2010.– 4th Indo-Italian Seminar on "Green Chemistry and natural products" held at Department of Chemistry, University of Delhi, Delhi-110007 during 17th November 2010.– 7th "Theoretical Chemistry Symposium 2010" (TCS 12) held at IIT Kanpur during 08th-12th December, 2010.– Workshop on "Computational Paradigms of Clinical Informatics" (CPCI) held at Department of Biotechnology and Bioinformatics Jaypee University of Information Technology, Waknaghat, Solan, HP during 1st - 3rd February, 2011.– Workshop on "Information Literacy & Competency" organized by Delhi University Library System, University of Delhi, Delhi held on 14th March 2011.– Resource Person /Member, Organizing Committee in the "INSPIRE internship Program-2012" of University of Delhi & DST Government of India organized by Hansraj College, University of Delhi, held from 17th – 21st, 2012.– Seminar on "Chemistry in Interdisciplinary Applications" held at Hansraj College, University of Delhi, Delhi-110007 on 19th March, 2013.– Served as organizing committee member in DBT sponsored workshop on "Relevance of Experimental Chemistry to
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	<p>Biotechnology” organized by Department of Chemistry” Hansraj College, University of Delhi held from March 12-13, 2014.</p> <ul style="list-style-type: none">– “RSC workshop on Chemistry for Tomorrow’s World” organized by Green Chemistry Network Centre, Delhi University at New Delhi from 2nd December to 3rd December 2015.– ‘India International Science Festival (IISF 2015) organized by Vijnana Bharati and the Ministry of Science and Technology, Government of India, at Indian Institute of Technology, Delhi, from 4th to 8th December 2015
Subjects Taught	<ul style="list-style-type: none">– I taught various Physical Chemistry topics to B.Sc. Honours and B.Sc. LS/PS.
Areas of Interest / Specialization	<ul style="list-style-type: none">– Photophysical Studies; Experimental and Theoretical Study of Substituent Effects, Reaction Mechanisms, Potential Energy Surfaces and Excitation Energies; Synthesis and Characterization of biologically active molecules.