

## RESUME

Name : Rachna Gupta  
Date of Birth : 12<sup>th</sup> May, 1971  
Gender : Female  
Marital Status : Married  
Husband's Name : Mr. Anoopam Gupta  
Permanent Address : Rachna Gupta  
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## EDUCATIONAL QUALIFICATION

<u>Examination</u>	<u>Year</u>	<u>Subject</u>	<u>Board / University</u>	<u>Percentage</u>	<u>Remarks</u>
High School	1986	Hindi, English, Science, Biology, Maths, Social Study	U.P. Board Allahabad	71.20%	Distinction in Science and Biology
intermediate	1988	Hindi, English, Physics, Biology, Chemistry	U.P. Board Allahabad	65.40%	Distinction in Physics
B.Sc	1993	Zoology, Botany, Chemistry	M.L.P. Rohilkhand University Bareilly	65.00%	Distinction in Science and Biology
M.Sc	1995	Chemistry	"	69.00%	
Ph.D.	2001	Chemistry	"		" Ion exchange separation of Metal ions and Anions"

## RESEARCH WORK -

- Since Aug. 95 actively engaged in research work in Analytical Chemistry in the field of "Applications of synthetic inorganic ion exchangers in separation." The papers published are :

### A. Papers Published

1. Complexion ion-exchange chromatography of some metal ions on paper impregnated with Ti(IV)- based inorganic ion exchangers.  
S.D.Sharma and R.Gupta.  
J. Chromatographic Science, 38 (2000) 33 – 37 U.S.A.
2. Increased selectivity for planar chromatography by ion exchange :  
Cation chromatography on papers impregnated with titanium (IV) base inorganic ion exchangers in DMSO – HNO<sub>3</sub> mobile phases.  
S.D.Sharma and Rachna .Gupta.  
J.India Chemical Society, 77(2000) 204-206 (INDIA).
3. Complexation ion exchange electrochromatography of metal ions on paper impregnated with titanium (IV) tungstate.  
S.D.Sharma, M.Bhalwar and Rachna .Gupta.  
J.India Chemical Society, 77(2000) 307-310 (INDIA).
4. Retention behaviour of d block metal ions on Ti(IV) tungstate impregnated papers in buffered EDTA media.  
S.D.Sharma and Rachna .Gupta.  
J. Chem and Env. Res., 10(1&2) 2001 India.
5. Retention behaviour of metal ions on plain and Tri-n-butyl amine impregnated Titanium (IV) tungstate layers in complexing acid and their sodium salts as mobile phases.  
S.D.Sharma and Rachna .Gupta.  
J.India Chemical Society, 78(2000) 301, (INDIA).
6. Low voltage paper electrophoretic study of ion-pair formation and electrochromatography of metal ions and anions on papers impregnated with titanium (IV) tungstate.  
S.D.Sharma, M.Bhalwar and Rachna .Gupta.  
J. Chromatographic Science, 39 (2001) USA.



### PAPER COMMUNICATED –

1. Low voltage reversed phase thin layer electrophoresis of metal ions on tri-n-butyl phosphate (TBP) and tri-n-butyl amine (TBA) impregnated silica gel-G layers.  
S.D.Sharma, M.Bhalwar and Rachna Gupta.  
J.Chromatography (THE NETHER LANDS).
2. Electrophoretic study of d-block metal ions on plain and tri-n-butyl amine (TBA) impregnated titanium (IV) tungstate layers.  
S.D.Sharma, M.Bhalwar and Rachna Gupta.  
J.Chromatographic Science (U.S.A).
3. Low voltage thin layer electrophoresis of anions on silica gel-G and titanium(IV) tungstate layers.  
S.D.Sharma, M.Bhalwar and Rachna Gupta.  
J.Planar Chromatography (THE NETHER LANDS).

### TEACHING EXPERIENCE –

- Working as Associate Professor in the Deptt. of Chemistry J.S.H (P.G.) College Amroha, from 1996 and taught B.Sc classes all papers and M.Sc (Organic Chemistry)

### SEMINARS ATTENDED –

- Attended one day workshop on "Remote Sensing & Geographic Information system (GIS) in Natural Resource Survey and Management" Sponsored by National Natural Resource Management System (NNRMS) Dptt. Of space, Govt. of India held at J.S.H (P.G.), College Amroha on 22<sup>nd</sup> November 2001.
- National Seminar in J.S.H. (P.G.) College Amroha on 6 and 7 February 2010.