

RESUME Name Upadhyay Ramesh Venkataramaiah

Designation: Professor & Head Department: Department of Physics,



Bhavnagar University, Bhavnagar 364 002, INDIA. **Phone &**

FAX +91-278-2422650 (O) +91-278-2426706 (Fax) +91-

278-2563827 (R) +91-9898003827(M) **e-mail address:** rvu@bhavuni.edu

rameshvu2002@yahoo.com **Date of Birth:** 1st Feb. 1960.

Educational Qualification:

Sr. No.	Degree	University	Year	Subjects	Percentage
1.	M.Sc.	Saurashtra	1981	Physics	70.05
2.	Ph.D	Saurashtra	1985	Physics	

Details of professional training & research experiences

- i) Attended the workshop on "European Advanced course on Magnetic fluids and Powder technology" at Minsk, Belurus, USSR. May-1991 to June 1991.
- ii) Commonwealth Fellow at Department of Academic Staff Chemistry, University College of North Wales, Bangor, UK. During Oct. 92 to 31st July 1993.
- iii) Under Academic Link Interchange Scheme visited Department of Chemistry, University College of North Wales, Bangor, UK. May-1995 to July-1995.
- iv) Under the Indo-French research project visited University of P & M Curie, Paris, France, May-1997 to July-1997.
- v) Attended and presented a research paper in 8th International Conference on Magnetic Fluid, held in Romania, 1998.
- vi) Under the Indo-French research project visited University of P & M Curie, Paris, France during May-June-1999.
- vii) STINT-Visiting Professor, Royal Institute of Technology, Stockholm, Sweden

2005

Field of Specialization: Soft Condensed Matter Physics. Last Ten years Project details

No	Title of the Project	Sponsoring Agency.	Co-ordinator (PI, Co.PI)	Year	Amount (Lakhs)	Completion Year.
1	Physical properties of Mn-Fe and Zn-Fe substituted ferrite magnetic fluids.	UGC	RV Upadhyay	1994	2.5	1997
2.	Consultancy Project	Ferrofluidics Corp. USA	Department of Physics (RV Mehta & RV Upadhyay)	1998	US\$ 10,000	1998
3.	Development of Ionic ferromagnetic fluids	Indo-French Project	RV Mehta RV Upadhyay	1996	26.4	1999
4.	Diagnostics of ferrofluids by SANS.	IUC-DAEF	RV Mehta RV Upadhyay	1995	3.0	2000 (Mar)
5.	CTAB-Magnetic fluid emulsion	IUC-DAEF	RV Upadhyay	2001	3.00	2004
6	Research Support facility	Dept. of Sci. Tech, Govt. of India	RV Mehta RV Upadhyay	2000	86.32	2006
7.	Center for excellence in Nano-magnetic particles	Gujarat Council of Sci & tech	RV Upadhyay	2004	~50 lacs	2007
8.	Alignment of cationic and ionic micelles...	DAE-UGC-CSR	RV Upadhyay	2006	2.00	2009
9.	Asia-Swedish exchange Programme	SIDA, Sweden	RV Upadhyay & L Belova	2006	~25 lacs	2009
10	Nanotechnology center	Govt. of Gujarat	RV Upadhyay	2008	~500 lacs	2013

Professional recognition, awards, fellowship received:

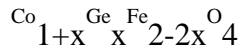
1. 1. Commonwealth Academic Staff Fellowship.
2. 2. UGC Career Award
- 3 INSA Visiting Fellow
3. 4. Fellow of Gujarat Academy of Science.
4. 5. Hari Om Ashram Award for Best research paper.
5. 6. Two Research Patents
6. 7. Membership of professional bodies/societies (Eight)

Research Guidance: Six (completed) Two (working)

Publication: Research Paper published in peer reviewed Journals: 82 Conference paper presented (National & International): 39

List of Publication of Dr R V Upadhyay

1. "Low temperature Mossbauer study of the Mg-Cd ferrite system" **R.V.Upadhyay** and R.G.Kulkarni Solid State Communication, **48** , 691-695, (1983).
2. "Magnetic properties of Cu-Cd ferrite investigated by Mossbauer spectroscopy" R.G.Kulkarni and **R.V.Upadhyay** J.Material Science., **19**, 1622-1628, (1984).
3. "The magnetic properties of the Mg-Cd ferrite system by Mossbauer spectroscopy" **R.V.Upadhyay** and R.G.Kulkarni Mat. Res. Bull., **19**, 655-661, (1984).
4. "Low temperature Mossbauer study of Cu-Cd ferrite system" **R.V.Upadhyay.**, S.N.Rao and R.G.Kulkarni J.Mat.Sci.Letters., **3**, 636-638, (1984).
5. "Non-collinear spin structure in Ni-Cd ferrite system" V.G.Panicker., **R.V.Upadhyay.**, S.N.Rao and R.G.Kulkarni J.Mat.Sci.Letters., **3**, 385-387, (1984).
6. "Yafet-Kittel type of magnetic ordering in Mg-Cd ferrites" **R.V.Upadhyay.**, S.N.Rao and R.G.Kulkarni Materials Letters, **3**, 273-277, (1985).
7. "High temperature Mossbauer study of the Cu-Cd ferrite system" R.G.Kulkarni and **R.V.Upadhyay** Materials Letters, **4**, 168-170, (1986).
- .8. "Mossbauer study of $\text{Ca}_x\text{Fe}_{1-x}\text{Fe}_2\text{O}_4$ system"
R.V.Upadhyay., G.J.Baldha and R.G.Kulkarni
J.Magn.Magn.Mater., **61**, 109-113, (1986).
8. "Study of the bulk magnetic properties of Co-Ca ferrite system" G.J.Baldha., **R.V.Upadhyay** and R.G.Kulkarni Mat. Res. Bull., **21**, 1051-1055, (1986).
9. "On the substitution of calcium in cobalt ferrite" G.J.Baldha., **R.V.Upadhyay** and R.G.Kulkarni J.Material Science, **23**, 3357-3361, (1988).
- .11. "Superconductivity upto 200K In the $\text{Ca}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ system"
.R.G.Kulkarni., H.N.Pandya., **R.V.Upadhyay.**, G.J.Baldha and S.N.Rao Solid State Communication, **68**, 101-102, (1988).
- .12. "Magnetic properties of $\text{Cu}_{1+x}\text{Ti}_x\text{Fe}_{2-2x}\text{O}_4$ system"
R.V.Upadhyay and R.G.Kulkarni
J.Magn.Magn.Mater., **74**, 327-329, (1988).
10. "A simplified model to calculate the Curie temperature of ferrimagnetic spinels"
R.V.Upadhyay and G.J.Baldha Indian J. Phys., **63A(8)**, 835-838, (1989).
- .14. " ^{57}Fe Mossbauer study of $\text{Ca}_x\text{Co}_{1-x}\text{Fe}_2\text{O}_4$ spinel system"
.G.J.Baldha and **R.V.Upadhyay**
Indian J. Phys., **64A(2)**, 128-134, (1990).
- .15. "YK type of magnetic ordering in $\text{Co}_{1+x}\text{Ge}_x\text{Fe}_{2-2x}\text{O}_4$ spinel system"
R.V.Upadhyay
Solid State Communication, **73**, 463-465, (1990).
11. " ^{57}Fe Mossbauer and magnetic studies on the spinel system "



H.H.Joshi., R.B.Jotania., R.G.Kulkarni and **R.V.Upadhyay**
Solid State Communication, **78**, 539-542, (1991).

1. "Magnetic properties of quenched Mg-Zn spinel ferrite system" H.H.Joshi., R.G.Kulkarni and **R.V.Upadhyay** Indian J. Phys., **65**, 310-314, (1991).

2. "Magnetic properties of Zn substituted Co-Ge-Fe-O ferrites near the dilution limit" J.Nogues., T.Puig., R.B.Jotania., **R.V.Upadhyay.**, R.G.Kulkarni and K.V.Rao J.Magn.Magn.Mater., **99**, 275-279, (1991).

3. "Diagnostics of ferrofluids by neutron scattering" R.V.Mehta and **R.V.Upadhyay** "SAHAYOG" IUC-DAE Bull., **2**, No.2, 6-7, (1991).

.20. "Magnetic ordering in Zn substituted $\text{Co}_{1.4}\text{Ge}_{0.4}\text{Fe}_{1.2}\text{O}_4$ spinel system"
.R.B.Jotania., **R.V.Upadhyay** and R.G.Kulkarni
IEEE Trans. Mag., **28**, No.4, 1889-1894, (1992).

.21. "Magnetic properties of $\text{Mg}_{1-x}\text{Zn}_x\text{FeCrO}_4$ spinel system"
.H.D.Patil., **R.V.Upadhyay.**, N.R.Shamkuwar and R.G.Kulkarni
Solid State Communication, **81**, No.12, 1011-1014, (1992).

.22. "Enhanced flux pinning by Zn-substitution in $\text{GdBa}_2\text{Cu}_3\text{O}_7$ "
.R.G.Kulkarni., **R.V.Upadhyay.**, G.K.Bichile and I.A.Shaikh
Cryogenics., **32**, 770, (1992).

4. "Preparation and properties of stable magnetic fluid using Mn-substituted ferrite particles" G.M.Sutariya., **R.V.Upadhyay** and R.V.Mehta J.Colloid and Interface Science, **155**, 152-155, (1993).

5. "Ferrofluid inclination sensor" R.K.Bhatt., P.M.Trivedi., G.M.Sutariya., **R.V.Upadhyay** and R.V.Mehta Indian J. Pure & Appl. Phys., **31**, 113-115, (1993).

.25. "Magnetic studies of Zn-substituted MgFeCrO_4 system"
R.V.Upadhyay
Indian J. Pure & Appl. Phys., **31**, 333 (1993).

6. "Particle size distribution of laboratory synthesized magnetic fluid" **R.V.Upadhyay.**, G.M.Sutariya and R.V.Mehta J.Magn.Magn.Mater., **123**, 262-266, (1993).

7. "Magnetic ordering in Zn substituted Co-Ti-Fe-O ferrite system" **R.V.Upadhyay.**, R.B.Jotania and R.G.Kulkarni Physica B., **190**, 183-189 (1993).

.28. " Study of Bulk magnetic and electric properties of the oxide spinel system "
 $\text{Co}_{1+x} \text{Ti}_x \text{Fe}_{2-2x} \text{O}_4$
H.H.Joshi., R.B.Jotania., , R.G.Kulkarni and **R.V.Upadhyay**
Asian J. Physics., **2** No.2, 88-93 (1993).

.29. "Magnetic properties of ultrafine particles of $\text{Mn}_{0.5}\text{Fe}_{0.5}\text{Fe}_2\text{O}_4$ spinel system"
R.V.Upadhyay and R.V.Mehta
Pramana - J. Phys., **41**, No.5 , 1-14 (1993).

8. EPR study of magnetic fluids. R.V.Mehta, **R.V.Upadhyay**, P.M.Trivedi & D.Srinivas, Proc. Inter. Symp., on Aerospace & Fluid Science, Japan, Nov. 14-16, 736-740, (1993).

.31. Preparation and characterization of ultrafine $MnFe_2O_4$ and $Mn_xFe_{1-x}Fe_2O_4$ spinel system: I. Particles"

R.V.Upadhyay., K.J.Davies., S.Wells and S.W.Charles"Preparation J.Magn.Magn.Mater., **132**, 249-257, (1994)..

9. "Magnetic properties of laboratory synthesized magnetic fluids and their temperature dependence" R.V.Mehta., **R.V.Upadhyay**., G.M.Sutariya., B.A.Dasannacharya., P.S.Goyal and K.S.Rao J.Magn.Magn.Mater., **132**, 153-158, (1994).

10. "Infra-red and ac-susceptibility studies of Mn-substituted ferrofluids" G.M.Sutariya., S.P.Bhatnagar., **R.V.Upadhyay** and R.V.Mehta Indian J. Pure & Appl. Phys., **32**, 485-488 (1994).

11. "Role of aspect ratio in ferrofluid inclination sensor" R.K.Bhatt, **R.V.Upadhyay**, S.P.Bhatnagar & R.V.Mehta.

J. Instrument Soc., of India., **24**, 20-25, (1994).

35. "Preparation and characterization of ultrafine $MnFe_2O_4$ and $Mn_xFe_{1-x}Fe_2O_4$ spinel system:II. Magnetic fluids"

R.V.Upadhyay., K.J.Davies., S.Wells and S.W.Charles

J. Magn. Magn. Mater., **139**, 249-254 (1995).

1. "When does a living polymer live? Case of CTAB\NaSal". S.V.G.Menon, P.S.Goyal, B.A.Dasannacharya, S.K.Paranjpe, R.V.Mehta & **R.V.Upadhyay**. Physica-B, **213 & 214**, pp. 604-606, (1995).

2. "Electron Magnetic resonance of ferrofluids: Evidence for anisotropic resonance at 77K in samples cooled in a magnetic field". M.D.Sastry, Y.Babu, P.S.Goyal, R.V.Mehta, **R.V.Upadhyay** & D.Srinivas. J.Magn.Magn. Mater., **149**, pp. 64-66, (1995).

3. "Phase behaviour of ferromagnetic fluid: Small Angle Scattering study". R.V.Mehta, P.S.Goyal, B.A.Dasannacharya, **R.V.Upadhyay**, V.K.Asval & G.M.Sutariya. J.Magn.Magn.Mater., **149**, pp. 47-49, (1995).

4. "The observation of multiaxial anisotropy in ultrafine cobalt ferrite particles used in magnetic fluids". K.J.Davies, S.Wells, **R.V.Upadhyay**, S.W.Charles, K.O'Grady, M.El.Hilo, T.Meaz & S.Morup. J.Magn.Magn.Mater., **149**, pp. 14-18, (1995).

5. "Temperature dependence electron spin resonance" **R.V.Upadhyay**, D Srinivas, R.V.Mehta, P.M.Trivedi. Pramana-J. Physics, **45**, No.5, pp. 419-430, (1995).

.41. "Magnetic properties of $Mn_xFe_{1-x}Fe_2O_4$ ferrofluid : A ESR study."

R.V.Upadhyay, R.V.Mehta, D.Srinivas, S.P.Bhatnagar, M.D.Sastry, P.S.Goyal. Proc. MIMR'95, Sendai, Japan pp. 235-238 (1995).

"Characterization of temperature sensitive magnetic fluid" Trupti Upadhyay, **R V Upadhyay**, R V Mehta, V K Aswal, P S Goyal. Phys. Rev. **B55**, No.9 , pp. 5585-88 (1997).

"Time dependence magnetisation of $Zn_{0.1}Fe_{0.9}Fe_2O_4$ fine magnetic particle system"

R V Upadhyay

Pramana-J Physics, **Vol. 48**, No.3, pp. 309-316 (1997).

"Magnetic ordering in the spinel $\text{Co}_{0.8}\text{Zn}_{0.6}\text{Ti}_{0.4}\text{Fe}_{1.2}\text{O}_4$ "

R V Upadhyay, Asian J of Physics, **Vol. 6**, No. 1-2, pp. 244-249 (1997).

"Temperature dependence of magnetisation of magnetic fluid using Quinck's method" Kinnari Parekh, **R V Upadhyay**. Indian J of Pure & Applied Physics, **Vol. 35**, pp. 523-28, (1997).

"Direct binding of protein to magnetic particles" R V Mehta, **R V Upadhyay**, S W Charles, C N Ramchand. Biotechnology Techniques, **Vol. 11**, No.7, pp. 493-96 (1997).

"Particle size determination: Viscosity study" Kinnari Parekh, **R. V. Upadhyay** and R. V. Mehta. Indian J. Engg., & Mater. Sci., **Vol 5**, pp. 343 -346 (1998).

"Effect of initial molar concentration on size distribution for $\text{Mn}_{0.1}\text{Fe}_{0.9}\text{Fe}_2\text{O}_4$ fine particle system: AC susceptibility study" G. M. Sutariya and **R. V. Upadhyay**. Indian J. Engg., & Mater. Sci., **Vol 5**, pp. 347 -349 (1998).

"Effect of size distribution on ferrofluid configuration: A Monte Carlo simulation. Pragnya Bhatt, R.V.Mehta, S.P.Bhatnagar, **R.V.Upadhyay** and D.Srinivas. Indian J. Engg., & Mater. Sci., **Vol 5**, pp. 356 -360 (1998).

"Science & Technology of magnetic fluids" R. V. Mehta and **R. V. Upadhyay** Current Science, **Vol 76**, No.3, pp. 305-312 (1999).

"Electron spin resonance investigation of Mn-Zn ionic ferrofluid." R.Massart, D.Zins, F. Gendron, M. Rivoire, R.V.Mehta, **R.V.Upadhyay**, P.S.Goyal and V.K.Aswal. J. Magn. Magn. Mater., **Vol. 201**, pp. 73 (1999).

"Gd-substituted ferrite ferrofluid: a possible candidate to enhance pyromagnetic coefficient" **R. V. Upadhyay**, R. V. Mehta, Kinnari Parekh, D. Srinivas, R. P. Pant. J. Magn. Magn. Mater., **Vol. 201**, pp. 129 (1999).

"Immobilization of proteins and enzymes to fine magnetic particles." M. Koneracka, P. Kopcansky, M. Antalík, M. Timko, C. N. Ramchand, D. Lobo, R. V. Mehta and **R. V. Upadhyay**. J. Magn. Magn. Mater., **Vol 201**, pp. 427 (1999).

"Magnetic resonance in nanoscopic particles of a ferrofluid" **R.V.Upadhyay**, D.Srinivas and R.V.Mehta J. Magn. Magn. Mater., **Vol. 214**, pp. 105-111, (2000.)

"Magnetocaloric effect in temperature sensitive magnetic fluids" Kinnari Parekh, **R. V. Upadhyay** and R. V. Mehta Bulletin of Material Science, **Vol. 23**, N0. 2, pp. (2000).

"Electron spin resonance study of a temperature sensitive magnetic fluid" Kinnari Parekh, **R. V. Upadhyay**, R. V. Mehta, D. Srinivas, J. Appl. Physics (USA) **Vol. 88 N0. 5**, pp.2799-2804,

(2000)

Influence of magnetic anisotropy constant and particle domain magnetisation on Magneto-dielectric response of substituted manganese ferrite particles dispersed in kerosene. G.M.Sutariya, A.Siblini, M.F.Blanc-Mignon, L. Jorat, K. Parekh, **R.V.Upadhyay**, R.V.Mehta, G.Noyel. J. Magnetism and Magnetic Materials, (In Press) 2001.

Magnetic properties of Fe-Zn ferrite substituted ferrofluids. Kinnari Parekh, **R Upadhyay**, R V Mehta. J. Magnetism and Magnetic Materials., **vol. 252**, pp 35-38, 2002.

Magnetic dc field and temperature dependence on complex microwave magnetic permeability of ferrofluids: effects of constituent elements of substituted Mn ferrite. G.M.Sutariya, D.Vincent, B.Bayard, **R.V.Upadhyay**, G.Noyel, R.V.Mehta. J. Magnetism and Magnetic Materials., **Vol. 260**, pp. 42-47, 2003.

Viscosity measurements of a ferrofluid: comparison with various hydrodynamic equations. Rajesh Patel, **R V Upadhyay**, R V Mehta. J. Colloidal & Interface Sci., **Vol. 263**, pp 661-664 (2003)

1. 61. Spin glass transition in a model magnetic fluid: ESR investigation of Mn-Zn nanoparticles dispersed in kerosene **R V Upadhyay**, Kinnari Parekh, R V Mehta Physical Rev. B., **Vol 68**, No.22, pp -----(2003)

2. 62. Structural and Magnetic properties of Transformer oil based Magnetic fluid Kinnari Parekh and **R V Upadhyay** Ind. J. Engg. & Materials Science, (August) 2004.

3. 63. Rheology of transformer based ferrofluids. Rajesh Patel, Kinnari Parekh, **R V Upadhyay**, R V Mehta. Ind. J. Engg. & Materials Science, (August) 2004

64 Fabrication of an a.c. susceptometer to study magnetic susceptibility in some ferro/ferrimagnetic materials/fluids. Kalpesh Jani, **R V Upadhyay**, R V Mehta Ind. J. Engg. & Materials Science, (August) 2004

1. 65. Magnetically textured fluids in a non-magnetic matrix. Mrudul Gadhvi, **R V Upadhyay**, Kinnari Parekh, R V Mehta Bull. Mater. Sci., **27**, pp. 163-168 (2004).

2. 66. Magneto-optical effects in temperature sensitive magnetic fluids. Premal Trivedi, Rajesh Patel, Kinnari Parekh, **R V Upadhyay**, R V Mehta. Applied Optics, **43**, pp. 3619-3622 (2004).

3. 67. Temperature dependent Small angle Neutron Scattering of CTABr-Magnetic fluid emulsion. V K Aswal, J V Joshi, P S Goyal, Rajesh Patel, **R V Upadhyay**, R V Mehta. Pramanna-J. of Physics, **63**, pp. 285-296 (2004).

4. 68. R V Mehta **R V Upadhyay**, R J Patel Premal Trivedi,

J. Magn. Magn. Maters, **289**, 36-38 (2005)

69. Kinnari Parekh, R V Mehta and **R V Upadhyay**
J. Magn. Magn. Maters, **289**, 311-313, (2005) 70

Kinnari Parekh, **R V Upadhyay**, R V Mehta
Hyperfine Interaction, **160**, 211-217 (2005) 71

Rucha Desai, **R. V. Upadhyay**, R V Mehta

J. Magn. Magn. Mater., **295**, 186-189 (2005)

1. 72. R V Mehta, Rajesh Patel, Rucha Desai, **R V Upadhyay**, Kinnari Parekh, Phys. Rev. Lett., **96**., pp.127402 (2006)
2. 73. **R V Upadhyay**, et al. J. Appl. Phys., **99**, pp. 08M906 (2006)
3. 74. M. C. Chattbar, K B Modi, G J Baldha, H H Joshi, **R V Upadhyay**, V Ravikumar Nuclear Inst. & Methods in Physics Research B, **244**, pp. 124 (2006)
4. 75. Rajesh Patel, **R V Upadhyay**, R V Mehta,

J. Magn. Magn. Mater., **300**, pp. e217-e220 (2006)

1. 76. R V Mehta, Rucha Desai, P N Bhatt, **R V Upadhyay**, Indian J. of Pure & Applied Physics, **44**, 537 (2006)
2. 77. Kinnari Parekh **Ramesh V Upadhyay**, Lyubov Belova, , K. V. Rao, Nanotechnology, (2006)
3. 78. R. V. Mehta, Rajesh Patel, and **R. V. Upadhyay**, Phys. Rev. B.,**74**, 195127 (2006)
4. 79. **Ramesh V Upadhyay** Kinnari Parekh , Lyubov Belova, , K. V. Rao,

J. Magn. Magn. Mater., **311**, 106 (2007) 80 R V Mehta, Rajesh Patel, Rucha Desai, **R V Upadhyay**, Kinnari Parekh,

Phys. Rev. Lett., **98**, pp.179702 (2007) 81 **R V**

Upadhyay, Kinnari Parekh, R V Mehta,

J. Magnetic Resonance, **187**, 314 (2007)

- 82 Rucha Desai, R V Mehta, **R V Upadhyay**, Amita Gupta, A Praneet And K V Rao Bulletin of Materials Science, **30**, 197 (2007)

CONFERENCE PAPERS

- .1. "Spin glass behaviour in $\text{Ge}_x\text{Cu}_{1-x}\text{Fe}_2\text{O}_4$ system by Mossbauer spectroscopy"
.G.J.Baldha., **R.V.Upadhyay**., S.N.Rao and R.G.Kulkarni DAE Solid State Physics Symposium, Nagpur University, Nagpur, Dec.1985.
- .2. "Super-paramagnetic behaviour in $\text{Cu}_{1.4}\text{Ti}_{0.4}\text{Fe}_{1.2}\text{O}_4$ system"
R.V.Upadhyay., G.J.Baldha and R.G.Kulkarni DAE Solid State Physics Symposium, GB Pant University, Pantnagar, Dec.1986.
2. 3. "Ferrofluid inclination sensor" R.K.Bhatt., G.M.Sutariya., P.M.Trivedi., **R.V.Upadhyay** and R.V.Mehta Instrument Soc. of India, NSI-15, Madras, Jan. 1991.
3. 4. "Development of new ferrite system for synthesis of ferrofluid" G.M.Sutariya., P.M.Trivedi., **R.V.Upadhyay** and R.V.Mehta International symposium on Magnetic Fluids research and Technology, REC Kurukshetra, Sept. 1991.
- .5. "Magnetic properties of laboratory synthesized magnetic fluids and their temperature dependence"
. R.V.Mehta., **R.V.Upadhyay**., G.M.Sutariya., B.A.Dasannacharya., P.S.Goyal and K.S.Rao 6th International Conference on Magnetic Fluids, Paris, May. 1992.
4. 6. "Curie-Weiss behaviour in ferrofluid" **R.V.Upadhyay**., P.M.Trivedi and G.M.Sutariya DAE Solid State Symposium, BHU, Varanasi, Dec. 1991.
5. 7. "Superparamagnetism in ultramicroscopic particles of mixed ferrite dispersed in nonaqueous matrix" Alpesh Raval, **R.V.Upadhyay**, R.V.Mehta., DAE Solid State Symposium, **36-C**, 142, (1993).

6. 8. "SANS study of ferrofluids" R.V.Mehta, P.S.Goyal, B.A.Dasannacharya, K.S.Rao, **R.V.Upadhyay**, and G.M.Sutariya. DAE Solid State Symposium, **36-C**, 197 (1993).
7. 9. "Transition from rigid to flexible micelles in CTAB/NaSal solutions". P.S.Goyal, R.V.Mehta, B.A.Dasannacharya & **R.V.Upadhyay**. DAE Solid State Symposium, **36-C**, 486 (1993).
8. 10. "Preparation and Magnetic Properties of magnetic fluids containing ultrafine particles of cobalt ferrite". K.J.davies, S.Wells, **R.V.Upadhyay** & S.W.Charles., Proc. 7th International Conf., on Magnetic Fluids, pp. 79, Bhavnagar- 1995
9. 11. "Electron Magnetic resonance of ferrofluids: Evidence for anisotropic resonance at 77K in samples cooled in a magnetic field". M.D.Sastry, Y.Babu, P.S.Goyal, R.V.Mehta, **R.V.Upadhyay** & D.Srinivas. Proc. 7th International Conf., on Magnetic Fluids, pp. 108, Bhavnagar- 1995
10. 12. "Phase behaviour of ferromagnetic fluid: Small Angle Scattering study". R.V.Mehta, P.S.Goyal, B.A.Dasannacharya, **R.V.Upadhyay**, V.K.Aswal & G.M.Sutariya. Proc. 7th International Conf., on Magnetic Fluids, pp. 104, Bhavnagar- 1995.
11. 13. "Immobilization of Enzymes in Magnetic Fluids using Direct Binding Procedure" C.N.Ramchand, A.E.Clark, S.W.Charles, S.Wells, **R.V.Upadhyay** & R.V.Mehta. Proc. 7th International Conf., on Magnetic Fluids, pp. 255, Bhavnagar- 1995.
12. 14. "Design and Fabrication of Modified Centrifugal switch using Magnetic Fluid". R.P.Bhatt, R.K.Bhatt, S.P.Bhatnagar, **R.V.Upadhyay** & R.V.Mehta. Proc. 7th International Conf., on Magnetic Fluids, pp. 267, Bhavnagar- 1995.
13. 15. "Biomedical Application of Magnetic Fluids inand Cancer...methods." C.N.Ramchand, A.E.Clark, S.W.Charles, S.Wells, **R.V.Upadhyay** S.P.Bhatnagar & R.V.Mehta. Proc. 7th International Conf., on Magnetic Fluids, pp. 281, Bhavnagar- 1995.
14. 16. "Development of Magnetic Seal for the cut-out in the Aircraft for Asar Antenna Stabilization". K.D.Acharya, S.B.Sharma, R.V.Mehta, S.P.Bhatnagar & **R.V.Upadhyay**. Proc. 7th International Conf., on Magnetic Fluids, pp. 288, Bhavnagar- 1995.
15. 17. "Electron spin resonance study of a temperature sensitive magnetic fluid" **R.V.Upadhyay**, R.V.Mehta, D. Srinivas, K. H. Parekh, Trupti Upadhyay Proceeding of the Japan-French seminar on Intelligent materials and structures, Oct. 27-28, Sendai, japan, (1997) 83-90.
16. 18. "The effect of thermal fluctuation on the ESR lineshape in Magnetic fluids"

K. H. Parekh, Trupti Upadhyay, D. Srinivas, **R.V.Upadhyay** and R. V. Mehta, Paper presented in DAE Solid State Symposium, Cochin, Dec. 27-31 (1997).

1. 19. "Particle size determination: Viscosity Study" Kinnari Parekh, **R.V.Upadhyay**, R.V.Mehta, Paper presented in Symposium on Recent trends in Science & Technology of magnetic fluids at Bharuch during 16-18 Oct. (1997)
2. 20. "Effect of initial molar concentration on size distribution for $Mn_{0.1}Fe_{0.9}Fe_2O_4$ fine particle system: AC susceptibility study"

G. M. Sutariya and **R. V. Upadhyay**. Paper presented in Symposium on Recent trends in Science & Technology of magnetic fluids at Bharuch during 16-18 Oct. (1997)

1. 21. "Effect of size distribution on ferrofluid configuration: A Monte Carlo simulation. Pragnya Bhatt, R.V.Mehta, S.P.Bhatnagar, **R.V.Upadhyay** and D.Srinivas. Paper presented in Symposium on Recent trends in Science & Technology of magnetic fluids at Bharuch during

16-18 Oct. (1997)

2. 22. "Electron spin resonance investigation of Mn-Zn ionic ferrofluid." R.Massart, D.Zins, F. Gendron, M. Rivoire, R.V.Mehta, **R.V.Upadhyay**, P.S.Goyal and V.K.Aswal. Paper presented in 8th International Conference on Magnetic fluids held at Romania, June 29-July 3, (1998).

3. 23. "Gd-substituted ferrite ferrofluid: a possible candidate to enhance pyromagnetic coefficient"

R. V. Upadhyay, R. V. Mehta, Kinnari Parekh, D. Srinivas, R. P. Pant.

Paper presented in 8th International Conference on Magnetic fluids held at Romania, June 29-July 3, (1998).

24. "Immobilization of proteins and enzymes to fine magnetic particles."

M. Koneracka, P. Kopcansky, M. Antalik, M. Timko, C. N. Ramchand, D. Lobo, R.

V. Mehta and **R. V. Upadhyay**.

Paper presented in 8th International Conference on Magnetic fluids held at Romania, June 29-July 3 (1998).

1. 25. "Particle size and its distribution in temperature sensitive magnetic fluids"

V.K.Aswal, P.S.Goyal, Trupti Upadhyay, Kinnari Parekh, **R.V.Upadhyay**, R.V.Mehta Paper presented in 8th International Conference on Magnetic fluids held at Romania, June 29-July 3 (1998).

2. 26. "Magnetocaloric effects in temperature sensitive magnetic fluids" Kinnari Parekh, **R.V.Upadhyay**, R.V.Mehta. Paper presented in National Seminar on Magnetism & Magnetic Materials held at Kochin University of Science & Technology, Cochin, Feb. 22-23 (1999).

3. 27. "Electron spin resonance technique to study the kinematics of magnetization in Magnetic fluids: An Overview." R.V.Mehta, R.V.Upadhyay, Kinnari Parekh. Paper presented at One day seminar on Soft Condensed Matter Physics, V.V Nagar.

4. 28. Magnetic fluid-CTAB emulsion: A Rheological Study. Kinnari Parekh, **R V Upadhyay**, R V Mehta, J V Joshi, V K Aswal, P S Goyal, B A Dasannacharya. Paper accepted for presentation at 43rd DAE-Solid State Physics Symposium, to be held at Bilaspur, Dec. 27 - 31 (2000)

5. 29. Gd-doped magnatice fluid: Effect of dopant concentration on temperature dependent properties. Trupti Upadhyay, Kinnari Parekh, **R V Upadhyay**, R V Mehta. Paper accepted for presentation in 9th International Conference on Magnetic fluids to be held at Bremen, Germany , July 29-July 3 (2001).

6. 30. Magnetically induced optical extinction in a temperature sensitive magnetic fluid. Alpesh Raval, **R V Upadhyay**, R V Mehta. Paper accepted for presentation in 9th International Conference on Magnetic fluids to be held at Bremen, Germany , July 29-July 3 (2001).

7. 31. Magnetic properties of Fe-Zn ferrite substituted ferrofluids. Kinnari Parekh, **R V Upadhyay**, R V Mehta. Paper accepted for presentation in 9th International Conference on Magnetic fluids to be held at Bremen, Germany , July 29-July 3 (2001).

8. 32. Electron spin resonance study of Zn substituted ferrite ferrofluid. Kinnari Parekh, R V Upadhyay, R V Mehta Paper presented at Recent Advances inorganic magnetic materials,

IIT Mumbai 2002.

9. 33. Magnetic Rheology of CTAB-Magnetic fluid emulsion Rajesh Patel, R V Upadhyay, R V Mehta, J V Joshi, P S Goyal, R Chitra, B A Dasannacharya, Paper presented at DAE symposium, Chandigarh, Dec. 2002.
 10. 34. Rheology of transformer based ferrofluids. Rajesh Patel, R V Upadhyay R V Mehta, Paper presented at Recent Advances in nanotechnology of magnetic fluids.NPL, New Delhi, Jan. 2003.
 11. 35. Small Angle neutron scattering and rheological studies of CTAB-Magnetic fluid emulsion. J V Joshi, P S Goyal, R Chitra, B A Dasannacharya, Rajesh Patel, R V Upadhyay, R V Mehta, Paper presented at Recent Advances in nanotechnology of magnetic fluids.NPL, New Delhi, Jan. 2003.
 12. 36. Absorption studies on magnetic fluids in RF and microwave frequencies. R V Mehta, S P Bhatnagar, R V Upadhyay Paper presented at Recent Advances in nanotechnology of magnetic fluids. NPL, New Delhi, Jan. 2003.
 13. 37. Magnetic susceptibility measurement of a dilute ferrofluid using laser pendulum. Rajesh Patel, R V Updhyay, R V Mehta, Bimal Bhatt. Paper presented at Recent Advances in nanotechnology of magnetic fluids.NPL, New Delhi, Jan. 2003.
-
38. Technique to control anisotropy of nano sized cobalt ferrite Particles without altering the size. Vipul Davaria, Rucha Desai, RV Upadhyay Paper accepted for the 52nd DAE conference – 2006 held at Bhopal, India
 39. Magnetically controlled convection in ferromagnetic fluid: Special reference to transformer cooling Kinnari Parekh, R. V. Upadhyay and R V Mehta Paper accepted for the 52nd DAE conference – 2006 held at Bhopal, India