RESUME

Name	Upadhyay Ramesh Venkataramaiah
Designation:	Principal
Institution: Phone & FAX e-mail address:	P.D. Patel Institute of Applied Sciences Charotar University of Sci. & Tech., Education Campus-Changa Changa 388421, Dist. Anand INDIA. +91-9427215242(M) rvu.as@charusat.ac.in
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

- Attended the workshop on "European Advanced course on Magnetic Fields and Powder Technology" at Minsk, Belarus, USSR. May-1991 to June 1991.
- Commonwealth Academic Staff Fellow at Department of Chemistry, University College of North Wales, Bangor, UK. During Oct. 92 to 31st July 1993.
- 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 the University of P & M Curie, Paris, France, May-1997 to July-1997.
- v) Attended and presented a research paper at 8th International Conference on Magnetic Fluid, held in Romania, 1998.
- vi) Under the Indo-French research project visited the University of P & M Curie, Paris, France during May-June-1999.
- vii) STINT-Visiting Professor, Royal Institute of Technology, Stockholm, Sweden 2005, 06,07

Field of Specialization: Soft Condensed Matter Physics.

Details of Administrative experiences

- 1. Started the department of Physics, Bhavnagar University Bhavnagar in 1988 as Head and continued till 1990.
- 2. Acted as Registrar of University for 5 months during 1996.
- 3. Acted as Academic Registrar, OSD and worked for NAAC accreditation. The University got Grade B
- 4. Head, Department of Physics from 2002 to 2008 at Bhavnagar University.
- 5. Principal and Dean Faculty of Applied Sciences, CHARUSAT from 2008.
- 6. Member of Board of Studies in many Universities of Gujarat.

Project details (2009-)

Project Title	Start Date	Completion	Project Cost	Sponsoring
		Date	(Lakhs)	Agency
Frequencymagnetic dispersion	2009	2011	5 lacs	GUJCOST
Neutron diffractionCo-Zn nanoparticles	2009	Dec. 2012	5.00	UGC-DAE- CSR, Mumbai
Synthesis of NMR-fluids and studySANS techniques.	Dec 2009	Nov. 2012	40 lacs	BRNS-DAE
Ferrofluids: S&T Applications	Sept. 2012	Jan. 2015	283 lacs	DST
Nano-lubricant	2016	Continuing	08.00	Industry-Lubgraf
Magnetorheological Fluid	2019	Continuing	2.00	ISRO

Professional recognition, awards, fellowship received:

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

Research Guidance:12 (completed)3 (working)

Publication:Research Paper published in peer review Journals:170Conference paper presented (National & International):>60h-index: 21

List of publications- R V Upadhyay (2011-)

- 1. Structural characterization of microwave-synthesized zinc substituted cobalt ferrite nanoparticles, H Parmar, Rucha Desai, R V Upadhyay, Applied Physics A: Materials and Processing, 104 (2011) 345.
- 2. Nanoengineering of methylene blue loaded silica encapsulated magnetic nanospheres and nanocapsules for photo-dynamic therapy, Nidhi Andhariya, B Chudasama, R V Mehta, R V Upadhyay, J. Nanopart. Res., 13 (2011) 3619.
- 3. Biodegradable thermoresponsive polymeric magnetic nanoparticles : a new drug delivery platform for doxorubicin, Nidhi Andhariya, B Chudasama, R V Mehta, R V Upadhyay, J. Nanopart. Res., 13 (2011) 1677.
- 4. Antifungal activity of multifunctional Fe3O4-Ag nanocolloids, B Chudasama, A K Vala, N Andhariya, R V Upadhyay, R V Mehta, J. Magn. Magn. Maters., 323 (2011) 1233.
- Macroscopic and microscopic structural integrity in magnetic colloids "cationic micellar solution: Rheology, SANS and magneto-optical study, Rajesh Patel R.V. Upadhyay, V.K. Aswal, J.V. Joshi, P.S. Goyal, J. Magn. Magn. Maters., 323 (2011) 849.
- Experimental investigation of ultrasonic velocity anisotropy in magnetic fluid: Influence of grain-grain interaction, Kruti Shah, R V Upadhyay, Pramana - Journal of Physics, 77 (2011) 345.
- Magneto-Rheological Properties of Mn0.7Zn0.3Fe2O4 Nanomagnetic Fluid, Kruti Shah, Rucha Desai, R V Upadhyay, AIP Conf. Proc. 1349 (2011) 1159.
- 8. Neutron Diffraction Investigation of Co1-xZnxFe2O4 Nanoparticles, Harshida Parmar, V Siruguri, R V Upadhyay, AIP Conf. Proc., 1349 (2011) 1173.
- Investigations on trivalent arsenic tolerance and removal potential of a facultative marine aspergillus niger, Anjana K Vala, Vishnu Sutariya R V Upadhyay, Envion. Sus. Energy, 30 (2011) 586.
- Corrosion Inhibition Of Mild Steel In Acidic Media Using A Nanomagnetic Fluid As A Novel Corrosion Inhibitor, Smita Jauhari, Kinnari Parekh and R.V.Upadhyay, CORROSION (2011) ID no. 11381, pg. 1-10.
- Surface Spin Glass like Behavior of Monodispersed Superparamagnetic Mn_{0.5}Zn_{0.5}Fe₂O₄ Magnetic Fluid, Kinnari Parekh, László Almásy, Hyo Sook Lee and R V Upadhyay, Applied Physics A 106 (2012) 223.

- 12. Development of curcumin basd opthalmic formulationed o, Anjana D, K Anith Nair, N Somashekara, M Venkata, R Sripathy, Rajesh Y, H Parmar, R V Upadhyay, S R Verma, C N Ramchand, Ame. J. Infect. Dis., 8 (2012) 41.
- Low temperature magnetic ground state in bulk Co0.3Zn0.7Fe2O4 spinel ferrite system: Neutron diffraction, magnetization and ac-susceptibility studies. H Parmar, P Acharya, R V Upadhyay, V Siruguri, S Rayaprol, Solid State Commun., 153 (2012) 60.
- Influence of large size magnetic particles on the magneto-viscous properties of ferrofluid., Kruti Shah, R V Upadhyay, V K Aswal, Smart. Mater. Struct., 21 (2012) 75005.
- Molecular Medicine-Prospects and Challenges, Ramchand, C.N., R. Sripathy, N. Somashekara, A. Buch, H. Pant, A. Vyas and R. Upadhyay, Ame. J. Infect. Dis., 8 (2012) 19.
- 16. Magnetoviscous Effect In Thermosensitive Magnetic Fluids, Rucha Desai, R. V. Upadhyay, V. K. Aswal, AIP Conf. Proc., 1447 (2012) 383.
- 17. Micro-Structural Characterization of Water Based Magnetic Fluid, R V Upadhyay, V K Aswal, Rucha Desai, International journal of Nanoparticles, 5 (2012) 243.
- 18. Study of the magnetorheology of bimodal magnetite suspension, Kruti Shah, R. V. Upadhyay, and V. K. Aswal, AIP Conf. Proc. 1447 (2012) 1209.
- Investigation of dynamic magnetic properties of Surfactant Coated Monodispersed Fe₃O₄ Nanomagnetic Particles, Kinnari Parekh and R. V. Upadhyay, Journal of Nanofluid, 1 (1) (2012) 93.
- 20. Magnetization dynamics in rare earth Gd^{3+} doped $Mn_{0.5}Zn_{0.5}Fe_2O_4$ magnetic fluid: Electron Spin Resonance study, Kinnari Parekh and R. V. Upadhyay, J. Magnetic Resonance 225 (2012) 46.
- 21. UV Light Induced Photodegradation of Organic Dye by ZnO Nanocatalysts, C. K. Sumesh, Bhavin Patel and Kinnari Parekh, AIP Conf. Proc. 1536 (2013) 123.
- 22. Plate-like iron particles based bi disperse magnetorheological fluid, Kruti Shah, Jong-Seok-oh, Seung-Bok Choi, R V Upadhyay, J. Appl. Phys., 114 (2013) 213904.
- 23. Influence of ultrasonic frequency on the field induced hysteresis phenomena observed in magnetic fluid, Kruti Shah, R V Upadhyay, Magnetohydrodynamics, 49 (2013) 381.
- Progressive freezing of finite cluster in locally canted spin Co0.3Zn0.7Fe2O4 spinel ferrite system, R V Upadhyay, H Parmar, P Acharya, A Banerjee, Solid State Commun., 163 (2013) 50.
- 25. Folic acid conjugated magnetic drug delivery system for controlled release of doxorubicin, Nidhi Andhariya, B Chudasama, R V Mehta, R V Upadhyay, J. Nanopart. Res., 15 (2013) 1416.
- 26. A low sedimentation magnetorheological fluid based on plate-like iron particles and verifcation using a damper test. Kruti Shah, D0 Xuan P, Min Sang Seong, R V Upadhyay, Seung Bok Choi, Smart. Mater. Struct., 23 (2014) 27001.

- 27. Rheological properties of soft magnetic flake shaped iron particle based magnetorheological fluid in dynamic mode, R V Upadhyay, Zarana Laherisheth, Kruti Shah, Smart. Mater. Struct. 23 (2014) 15002.
- 28. Augmentation of chain formation in a magnetic fluid by addition of halloysite nanotubes, Desai Rucha, Upadhyay R V, Mehta R V, J Phys D: Appl Phy., 47 (2014) 165501-1
- 29. Structural and magnetic properties of nickel–zinc ferrite nanocrystalline magnetic particles prepared by microwave combustion method, H Parmar, R V Upadhyay, S Rayaprol and V Siruguri, Indian J Phys., 88 (2014) 1257.
- 30. Ultrasonic velocity and rheological measurement of coolants, Jay Patel, Kinnari Parekh and R V Upadhyay, Solid State Phenomena, 209 (2014) 194.
- Size induced inverse spins canting in CO–Zn system: Neutron diffraction and magnetic studies, Harshida Parmar, RV Upadhyay, S.Rayaprol, VSiruguri, J. Magn. Magn. Mater., 377 (2015) 133.
- 32. Dilution dependent magnetorheological effect of flake-shaped particle suspensions destructive friction effects, Erik Siebert, Zarana Laherisheth and Ramesh V Upadhyay, Smart Materials and Structures, 24 (2015) 075011.
- 33. Ultrasonic propagation: A technique to reveal Field induced structures in magnetic nanofluids, Kinnari Parekh, Jaykumar Patel and R V Upadhyay, Ultrasonics 60 (2015) 126-132.
- 34. The Effect of Spherical Nanoparticles on Rheological Properties of Bi-Dispersed Magnetorheological Fluids, K.Thiruppathi Kannappan, Zarana Laherisheth, Kinnari Parekh and R V Upadhyay, AIP Conference Proceedings 1665, (2015) 130020-1-3; doi: 10.1063/1.4918168.
- 35. Maneuvering thermal conductivity of magnetic nanofluids by tunable magnetic fields, Jaykumar Patel, Kinnari Parekh and R V Upadhyay, J. Appl. Phys. 117, (2015) 243906-1-8
- 36. Temperature dependence quasi-static measurements on a magnetorheological fluid having plate like iron particles as dispersed phase, Zarana Laherisheth and Ramesh V Upadhyay, Journal of Intelligent Material Systems and Structures, DOI: 10.1177/1045389X15590271, June 29 (2015) 1-8.
- 37. Prevention of Hot-spot temperature in a distribution transformer using Magnetic fluid as a coolant, Jay Patel, Kinnari Parekh and R V Upadhyay, International Journal of Thermal Sciences 103 (2016) 35-40.
- 38. Performance of Mn-Zn ferrite magnetic fluid in a prototype distribution transformer under varying loading capacity. Jay Patel, Kinnari Parekh and R V Upadhyay, International Journal of Thermal Sciences (2016)
- 39. The role of inter-particle force between micro and nano magnetic particles on the stability of magnetorheological fluid, Zarana Laherisheth, Kinnari Parekh and R V Upadhyay, AIP Advances 7, 025206 (2017)

- 40. Temperature dependent acoustic properties of temperature sensitive magnetic fluid subjected to magnetic field. Kinnari Parekh , Jaykumar Patel, and R V Upadhyay, Journal of Molecular Liquids, 248, 569-576 (2017).
- 41. Influence of particle shape on the magnetic and steady shear magnetorheological properties of nanoparticle based MR fluids. Zarana Laherisheth and R V Upadhyay, Smart. Mater. Struct. 26, 054008, (2017)
- 42. Nano-lubricant: magnetic nanoparticle based, Kinjal Trivedi, Kinnari Parekh, R V Upadhyay, Mater. Res. Express 4, 114003 (2017)
- 43. The effect of magnetic field on the structure formation in an Oil-based magnetic fluid with multicore iron oxide nanoparticles. Zarana Laherisheth, Kinnari Parekh and R V Upadhyay,, Journal of Nanofluids, Vol. 7 pp 1-8, (2018)
- 44. Effect of particle concentration on the lubricating properties of magnetic fluids. Kinjal Trivedi, Anjana Kothari, Kinnari Parekh, R V Upadhyay. Journal of Nanofluids, Vol. 7 pp 1-8, (2018)