CURRICULUM VITAE

Dr. H. P. VANKAR
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PERSONAL INFORMATION

- Date of Birth : 05/07/1989
- Birth-place : Nadiad
- Sex : Male
- Languages known : English, Hindi & Gujarati
- Marital Status : Married
- Hobbies : Cricket & watch Movies
- Nationality : Indian

ACADEMIC QUALIFICATION:

Ph.D. (Physics)	2021	Gujarat university	-
M.Phil. (Physics)	2014	Gujarat university	**57.25 %**
M.Sc. (Physics)	2012	Gujarat university	**55.80%**
B.Sc. (Physics)	2010	Gujarat university	**52.38%**

- Ph.D. degree awarded by Gujarat University on the research topic entitled "Dielectric and physico-chemical properties of binary mixtures of 3-Bromoanisole and some associative polar liquids".
- CSIR NET and GSET qualified.
- The fellowship "National Fellowship for Persons with Disabilities (2016-2021)" was awarded to pursue Ph.D. Degree.

➢ **Computer Awareness & Type-Writing Skills:**

- Basic knowledge of computer, M.S. Office, Internet Surfing, Basic of C language, CCC^{+}.

EXPERIENCE

- Working as an Assistant Professor and Head at the Department of Physics, Government Science College, Vankal for more than 02 years and 7 months.

PUBLICATIONS

Sr. No.	Journal Publications
1	J. B. Karakthala, **H. P. Vankar** and VA Rana, "Molecular dynamics of diclofenac potassium at 300.15 K temperature: Insights from broadband dielectric, thermal and MD simulation analysis." *Journal of Molecular Structure*, 1284 (2023): 135410.
2	V. A. Rana, N. S. Shah, K. N. Shah, **H. P. Vankar**, "Dielectric spectroscopy and molecular dynamic simulation study of binary mixtures of benzaldehyde and methanol at 303.15 K" *Journal of Molecular Liquids*, 369 (2023): 120829
3	S. G. Thakor, V. A. Rana, **H. P. Vankar** and T. R. Pandit. "Microwave Dielectric Relaxation Spectroscopy of Nano Filler Loaded Epoxy Composite." *Indian Journal of Pure & Applied Physics (IJPAP)* 59, no. 9 (2021): 643-650.
4	S. G. Thakor, V. A. Rana, **H. P. Vankar** and T. R. Pandit. "Dielectric spectroscopy and structural characterization of nano-filler-loaded epoxy resin." *Journal of Advanced Dielectrics* 11, no. 02 (2021): 2150011.
5	**H. P. Vankar**, V. A. Rana, S. Dey, H. D. Patel and V. K. Jain. "Molecular interaction in binary mixtures of 3-Bromoanisole and methanol: A microwave dielectric relaxation spectroscopy and molecular dynamic simulation study." *Journal of Molecular Liquids*, 325 (2021): 115186.
6	V. A. Rana, D. K. Barot, **H. P. Vankar**, T. R. Pandit, and J. B. Karakthala. "AC/DC conductivity and dielectric relaxation behavior of ionic solutions of 1-butyl-3-methylimidazolium chloride in methanol." *Journal of Molecular Liquids* 296 (2019): 111804.
7	V. A. Rana, D. K. Barot, and **H. P. Vankar**. "AC/DC conductivity and dielectric relaxation behavior of aqueous solutions of 1-butyl-3-methylimidazolium chloride." *Indian Journal of Pure & Applied Physics (IJPAP)* 57, no. 7 (2019): 453-460.
8	V. A. Rana, K. N. Shah, **H. P. Vankar**, and C. M. Trivedi. "Dielectric spectroscopic study of the binary mixtures of amino silicone oil and methyl ethyl ketone in the frequency range of 100 Hz to 2 MHz at 298.15 K temperature." *Journal of Molecular Liquids* 271 (2018): 686-695.

9	**H. P. Vankar** and V. A. Rana. "Electrode polarization and ionic conduction relaxation in mixtures of 3-bromoanisole and 1-propanol in the frequency range of 20 Hz to 2 MHz at different temperatures." *Journal of Molecular Liquids* 254 (2018): 216-225.
10	V. A. Rana, **H. P. Vankar**, and Hemant A. Chaube. "Static permittivity and refractive index of binary mixtures of 3-bromoanisole and 1-propanol at different temperatures." *Journal of Chemical & Engineering Data* 60, no. 11 (2015): 3113-3119.
Conference Proceedings	
1	Shivani P. Patel, Ashvin N. Prajapati, **H. P. Vankar**, and V. A. Rana. "Dielectric Dispersion Response of Binary Mixtures of n-Butanol and Valeronitrile." *In Advanced Materials Research*, vol. 1169, (2022): 73-77, Trans Tech Publications Ltd.
2	**H. P. Vankar** and V. A. Rana. "Density, viscosity and ultrasonic velocity study: Binary mixtures of 3-bromoanisole and methanol at different temperatures." *Materials Today: Proceedings* 47 (2021): 722-727.
3	P. M. Prajapati, T. R. Pandit, **H. P. Vankar**, and V. A. Rana. "Physical and acoustical properties of paracetamol in binary mixtures of water+ propylene glycol." *Materials Today: Proceedings* 47 (2021): 632-634.
4	N. S. Shah, V. A. Rana, K. N. Shah and **H. P. Vankar**. "Dielectric study of mixtures of benzaldehyde and methanol at 293.15 K temperature." *Materials Today: Proceedings*, 47 (2021): 501-504.
5	K. N. Shah, V. A. Rana and **H. P. Vankar**. "AC/DC conductivity and conductivity relaxation behavior of binary mixtures of dimethyl silicone fluid and methyl iso butyl ketone." In *AIP Conference Proceedings*, vol. 2100, no. 1, p. 020087. AIP Publishing LLC, 2019.
6	K. N. Shah, V. A. Rana and **H. P. Vankar**. "Electrical properties of binary mixtures of amino silicone oil and methyl iso butyl ketone." In *AIP Conference Proceedings*, vol. 1953, no. 1, p. 050058. AIP Publishing LLC, 2018.
7	S. G. Thakor, V. A. Rana and **H. P. Vankar**. "Dielectric characterization of TiO2, Al2O3-Nanoparticle loaded epoxy resin." In *AIP Conference Proceedings*, vol. 1953, no. 1, p. 050049. AIP Publishing LLC, 2018.
8	J. B. Karakthala, **H. P. Vankar** and V. A. Rana. "Dielectric relaxation spectroscopy of aqueous solutions of diclofenac potassium over the frequency range of 20 Hz to 2 MHz at 303.15 K temperature." In *AIP Conference Proceedings*, vol. 1953, no. 1, p. 050050. AIP Publishing LLC, 2018.
9	N. S. Shah, **H. P. Vankar** and V. A. Rana. "Study of excess dielectric properties and Kirkwood correlation parameter of binary mixtures of benzaldehyde and methanol at different temperatures." In *AIP Conference Proceedings*, vol. 1953, no. 1, p. 050052. AIP Publishing LLC, 2018.
10	**H. P**. **Vankar** and V. A. Rana. "Dielectric behaviour of the binary mixtures of 3-bromoanisole and methanol at 293.15 K temperature." In *AIP Conference Proceedings*, vol. 1837, no. 1, p. 040008. AIP Publishing LLC, 2017.
11	K. N. Shah, V. A. Rana, C. M. Trivedi and **H. P. Vankar**. "Dielectric properties of binary mixtures of methyl iso butyl ketone and amino silicone

	oil." In *AIP Conference Proceedings*, vol. 1837, no. 1, p. 040026. AIP Publishing LLC, 2017.
12	A. M. Kadve, **H. P. Vankar** and V. A. Rana. "Dielectric study of aqueous solutions of sodium dodecyl sulfate in the frequency span 20 Hz to 2 MHz." In *AIP Conference Proceedings*, vol. 1837, no. 1, p. 040014. AIP Publishing LLC, 2017.
13	K. C. Vaghela, **H. P. Vankar**, C. M. Trivedi and V. A. Rana. "Dielectric properties of binary mixtures of ethylene glycol monophenyl ether and methanol." In *AIP Conference Proceedings*, vol. 1837, no. 1, p. 040011. AIP Publishing LLC, 2017.
14	N. S. Shah, **H. P. Vankar** and V. A. Rana. "Study of complex permittivity spectra of binary mixtures of 2-chloroaniline and methanol in frequency range 10 KHz to 2 MHz at different temperatures." In *AIP Conference Proceedings*, vol. 1837, no. 1, p. 040036. AIP Publishing LLC, 2017.
15	S. G. Thakor, V. A. Rana and **H. P. Vankar**. "Dielectric spectroscopy of SiO2, ZnO-nanoparticle loaded epoxy resin in the frequency range of 20 Hz to 2 MHz." In *AIP Conference Proceedings*, vol. 1837, no. 1, p. 040025. AIP Publishing LLC, 2017.
16	K. N. Shah, V. A. Rana, C. M. Trivedi and **H. P. Vankar**. "Dielectric spectroscopy of solutions of amino silicone emulsion in distilled water." In AIP Conference Proceedings, vol. 1728, no. 1, p. 020473. AIP Publishing LLC, 2016.

I hereby declare that the above-mentioned all the information is true to the best of my knowledge.

Thanks & Regards

VANKAR HEMAL.P