DR. MANJUSHA KARVE

Designation	:	Associate Professor in Analytical Chemistry
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ACADEMIC RECORD

Degree	**Subject**	**University**	**Year**
Ph.D.	Chemistry	IIT Bombay	1992
M Sc.	Inorganic Chemistry	University. of Pune	1986
B Sc.	Chemistry	University. of Pune	1984

POSITIONS HELD

Lecturer	Poona College of Pharmacy	08.09.1986 – 30.11.1987
Lecturer	Thadomal Shahani Engg. College	03.03.1993 – 31.10.1993
Lecturer in Analytical Chemistry	Dept. of Chemistry, Univ. of Mumbai	27.12.1993 onwards

AREA OF RESEARCH INTEREST

Area of Specialization	:	Analytical Chemistry
Research interests	:	Solid phase extraction, Solvent extraction, Environmental monitoring and analysis

NUMBER OF STUDENTS GUIDED

Ph.D. : 1
M.Sc.(By Research) : 3

RESEARCH PROJECTS

Sr. No.	Title of the project	Agency	Period	Amount
1.	Solid Phase extraction methodologies for heavy metal removal	University Grant Commission (UGC), New Delhi	Three years (April 2008 – April 2011)	Rs.6, 42,800/- (Six lakh forty two thousand eight hundred only).

RESEARCH PAPERS

1. Cyanex272 impregnated on Amberlite XAD-2 for separation and preconcentration of U(VI) from uranmicrolite (leachates) ore tailings, M. Karve and K. Pandey, *J. Radioanal. Nucl. Chem.* (*in press)*. (2010),

2. Octadecyl bonded silica membrane disk modified with Cyanex302 for preconcentration and determination of traces of cobalt in urine by flame atomic absorption spectrometry, M. Karve and R. V. Rajgor, *Anal. Lett.* 42 (2009) 2520-2532.

3. Octadecyl bonded silica membrane disk modified with Cyanex302 for separation and flame atomic absorption spectrometric determination of nickel from tap water and industrial effluent, M. Karve and R. V. Rajgor, *J. Hazard. Mater.* 166 (2009) 576 - 580.

4. Selective separation of Scandium(III) and Yttrium(III) from other Rare Earth Elements using Cyanex302 as an extractant, M. Karve and B. Vaidya, *Sep. Sci. Technol.* 43 (2008) 1111–1123.

5. Amberlite XAD-2 impregnated Organophosphinic acid Extractant for separation of Uranium(VI) from rare earth elements, M. Karve and R. V. Rajgor, Desalination 232 (2008) 191.

6. Amberlite XAD-2 impregnated with Cyanex302 for separation of traces of thorium(IV), M. Karve and R. V. Rajgor, Sep. Sci. Technol. 42(10) (2007) 2255.

7. Solid phase extraction of lead on octadecyl bonded silica membrane disk modified with Cyanex302 and determination by flame atomic absorption spectrometry, M. Karve and R. V. Rajgor, J. Hazard. Mater. 141 (2007) 607.

8. Extraction of U(VI) with Cyanex 302, M. Karve and C. Gaur, J. Radioanal. Nucl. Chem., 273(2) (2007) 405.

9. Liquid-liquid extraction of Th(IV) with cyanex302, M. Karve and C. Gaur, J. Radioanal. Nucl. Chem. 270(2) (2006) 461.

10. Solvent extraction separation of scandium(III) with Cyanex272 as an extractant, M. Karve and B. Vaidya, Indian J. Chem. 45A (2006) 2658.

11. Solvent extraction separation of thorium(IV) from nitric acid with Cyanex 272, M. Karve, S. Belwalkar, and R. Rajgor, Indian J. Chem., 45A (2006) 406.

12. Hydrochemistry of Mithi River and associated sediments, Mumbai, T. Gurav, M. Karve, and D. Chandrasekharam, Journal of Indian School of Mines 1(2006) 33.

13. Separation of titanium from zirconium, hafnium, thorium and related elementswith Aliquat 336S from ascorbate solutions, M. A. Karve and S. M. Khopkar, J. Ind. Chem. Soc., 71(1994) 565.

14. Liquid - liquid extraction of niobium (V) in the presence of other metals withhigh molecular mass amines and ascorbic acid, M. A. Karve and S. M. Khopkar, Talanta , 40 (1993) 913.

15. Solvent extraction separation of vanadium(IV) with Aliquat 336S as it's, ascorbate complex, M. A. Karve and S. M. Khopkar, J. Ind. Council of Chemists, 9 (1993) 87.

16. Liquid – liquid extraction of gallium with high molecular weight amines from ascorbate solutions, M. A. Karve and S. M. Khopkar, Chemia Anal.(Warsaw), 38 (1993) 469.

17. Liquid – liquid extraction of molybdenum(VI) from ascorbate solution with high molecular weight amines, M. A. Karve and S. M. Khopkar, Ind. J. Chem., 31 (1992) 265.

18. Application of liquid anion exchangers for the separation of zirconium and Hafnium, M. A. Karve and S. M. Khopkar, Anal. Sciences , 8 (1992) 237.

19. Solvent extraction separation of indium with quaternary ammonium Aliquat 336S from an ascorbate solution, M. A. Karve and S. M. Khopkar, Anal. Sciences, 8 (1992) 7.

20. Separation of scandium (III) as ascorbato complex by extraction with Aliquat 336S, M. A. Karve and S. M. Khopkar, Bull. Chem. Soc Jpn., 64 (1991) 655.

PAPERS PRESENTED IN VARIOUS CONFERENCES / SYMPOSIUM / WORSHOPS

1. 21st Conference of Indian Council of Chemists, Rani Durgavati University, Jabalpur, 24th – 26th October, 2002

2. DAE-BRNS biennial Symposium on, 'Emerging Trends in Separation Scienceand Technology (SESTEC-2006), B.A.R.C. Mumbai, 29th September – 1st October 2006

3. Asia Pacific Symposium on Radiochemistry (APSORC), Napa, California, USA, 29th Nov. 2009 – 4th Dec. 2009.

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- Indian association of separation scientists and technologists