

## Dr. SURESH DAMODAR PAWAR

### EDUCATIONAL QUALIFICATIONS

B.Sc. (Chemistry)	1996	University of Mumbai, Mumbai.
M.Sc. (Inorganic Chemistry)	1998	University of Mumbai, Mumbai.
Ph.D. (Chemistry)	2002	University of Mumbai, Mumbai,
Title of the thesis:		“Liquid-liquid Extraction Separation of Some Metal Ions using Organophosphorous Extractants”
Place of Research work:		Inorganic Chemistry Laboratory, Applied Chemistry Division, Institute of Chemical technology (I.C.T.), Matunga, Mumbai-19, India, (formally named U.D.C.T.) under the Guidance of <b>Prof. P. M. Dhadke</b>

### POSITIONS HELD

August 2003 – March 2014	“ <b>Assistant Professor</b> ”, Department of Chemistry, Siddharth College of Arts, Science and Commerce, Dr. D. N. Road, Fort, Mumbai-400 001.
March 2014 to date	“ <b>Assistant Professor</b> ”, Department of Chemistry, University of Mumbai, Lokmanya Tilak Bhavan, Vidyanagari, Santacruz (E), Mumbai- 400 098.

### RESEARCH PROJECTS COMPLETED

1. Title	: Extraction and Separation of some toxic metal ions using organophosphorous extractant
Funding Agency	: University of Mumbai
Amount	: Rs. 20,000
Period	: 2006-2007
2. Title	: Extraction and Separation Studies of Cu(II) And Zn(II) Metal Ions Using Organophosphorous Extractant
Funding Agency	: University of Mumbai
Amount	: Rs. 35,000
Period	: 2008-2009

### SUPERVISION OF RESEARCH STUDENTS

M. Sc. (by research)	Degree Awarded	01
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### RESEARCH AREA

- Solvent extraction
- Environmental Chemistry

## PUBLICATIONS

1. Separation studies of Beryllium(II) from Aluminium(III) by liquid-liquid extraction using Cyanex-923 and Cyanex-925. J. N. Iyer, **S. D. Pawar** and P. M. Dhadke\*, *Chemical & Environmental Research*, 11(3&4), 2002, 227-231.
2. The Phosphine oxides Cyanex-921, Cyanex-923 and Cyanex-925 as extractants for Pb(II) from aqueous media. J. N. Iyer, **S. D. Pawar** and P. M. Dhadke\*, *Indian Journal of Chemical Technology*, 9, May 2002, 251-255.
3. Solvent extraction of copper (II) from sulfate media using neutral extractants, Cyanex-921 and Cyanex-923. **S. D. Pawar**, B. Y. Mishra and P. M. Dhadke\*, *Journal of the Indian Chemical Society*, Vol. 79, August 2002, 681-683.
4. Comparative study for extraction of Hg(II) with Cyanex-923 from Chloride and Bromide media and its separation from Cd(II) and Zn(II). S. N. Duche, **S. D. Pawar** and P. M. Dhadke\*, *Separation Science and Technology*, 37(9), 2002, 2215-2229.
5. Extraction and separation studies of Ga(III), In(III) and Tl(III) using the neutral organophosphorous extractant, Cyanex-923. **S. D. Pawar** and P. M. Dhadke\*, *Journal of the Serbian Chemical Society*, 68(7), 2003, 581-591.
6. Extraction of Zn(II) from sulphate media using organophosphine oxides, cyanex-923 and cyanex-925. **S. D. Pawar** and P. M. Dhadke\*, *Indian Journal of Chemical Technology*, Vol. 12, July 2005, 419-424.
7. Extraction studies of Cd(II) from Hydrochloric Acid media using Cyanex-923 and Cyanex-925. Application to its recovery from spent Ni-Cd battery. **S. D. Pawar** and P. M. Dhadke\*, *Journal of the Indian Chemical Society*, Vol. 83, July 2006, 709-713.
8. Extraction studies of Pb(II) from salicylate media using neutral organophosphorous extractant, Cyanex-923 in toluene. S. M. Ghag and **S. D. Pawar**\*, *Journal of the Indian Chemical Society*, Vol. 85, October, 2008, 1064-1065.
9. Extraction and separation studies of Cd(II) and Hg(II) from salicylate media using neutral organophosphorous extractant, Cyanex-923 in toluene, S. M. Ghag, **S. D. Pawar**\*, *Chemical and Environment Research*, Vol. 17 (3&4) 2008, 277-283.
10. Extraction and separation studies of U(VI) and Th(IV) using Cyanex-923 in toluene, D. V. Chavan, S. M. Ghag and **S. D. Pawar**\*, *Proceedings of the National Academy of Sciences*, (Section A) India, 79, Pt. II, 2009, 185-189.
11. Extraction and separation studies of Th(IV) from Salicylate media using neutral Organophosphorous extractant, S. M. Ghag and **S. D. Pawar**\*, *Asian Journal of Chemistry*, Vol.21, 9 (2009), 6667-6673.
12. Extraction and separation of U(VI) and Th(IV) from Hydrobromic acid media using Cyanex-923 extractant, S. M. Ghag and **S. D. Pawar**\*, *Journal of the Serbian Chemical Society*, Vol. 75, (11), 2010, 1549-1557.
13. Extraction of Copper(II) from Sodium salicylate medium using neutral organophosphorus extractant Cyanex-923 in toluene, S. U. Gaikwad and **S. D. Pawar**\*. *Journal of the Indian Chemical Society*, Vol. 87, No. 10, October 2010, 1279-1281.
14. Solvent extraction and separation of Mo (VI) and W (VI) from hydrochloric acid solutions using Cyanex-923 as extractant, R. G. Talla, S. U. Gaikwad and **S. D. Pawar**\*, *Indian Journal of Chemical Technology*, Vol. 17, November 2010, 436-440.
15. Extraction and separation studies of U(VI) from salicylate media using neutral organophosphorous extractant, Cyanex-923 in toluene. S. M. Ghag, **S.D.Pawar**\*, *Research Journal of Biotechnology*, Vol. 6 (2), May 2011, 24-28.

## CONTRIBUTIONS IN CONFERENCES

1. Solvent extraction of Be (II) and Al (III) using Organophosphorous extractant, Cyanex-923 at **88<sup>th</sup> Indian Science Congress Conference**, held in IARI, New Delhi from 3-7<sup>th</sup> January 2001.
2. Extraction and Separation studies of cadmium (II) from HCl media using Cyanex – 923. Application to recovery of Cd(II) from spent Ni-Cd battery, at **71<sup>st</sup> National Academy of Sciences Conference**, held at University of Pune, Pune from 5<sup>th</sup> to 7<sup>th</sup> October 2001.

## OTHER CONFERENCES, SEMINAR AND WORKSHOPS ATTENDED

1. Workshop on “**Atomic Structure, Chemical Bonding and Spectroscopy**” organized by Indian Association of Chemistry Teachers (IACT) on 13<sup>th</sup> and 14<sup>th</sup> August 2005 at Department of Chemistry, Wilson College, Mumbai.
2. Short Term Course on **Chromatographic techniques** conducted at the Western Regional Instrumentation Centre, University of Mumbai from 29<sup>th</sup> -31<sup>th</sup> December 2005.
3. Dr. D. N. Patkar Memorial Seminar on “**Liquid Chromatography**” conducted by Western Regional Instrumentation Centre, University of Mumbai, Kalina, on 10<sup>th</sup> October 2008.
4. 6<sup>th</sup> National Conference on “**Corrosion Prevention through Advanced Technologies**” organized by V.P.M.’s Polytechnic, Thane on 18<sup>th</sup> October 2008.

## CONTACT

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