Lalita Ledwani

Email : lalita.ledwani@spt.pdpu.ac.in; ledwani_lalita11@yahoo.co.in
Phone : +91-7923275014(O)
Qualification: M.Sc.(Organic Chemistry), Ph.D.(Natural Products); M.Sc. (Ecology and Environment)

Research & Publications:

A)Paper in Referred Journals:

S.No.	Title of the Paper	Co-author(s (if any)	Name of the Journal	Vol. and Year	Pages
1.	Isolation and characterization of anthraquinones from the stem bark of *Cassia siamea,*	**Lalita Ledwani** and Mukhtar Singh	*Indian Journal of Chemistry*	43 B, **2004**	2257-2258
2.	Anthraquinone glycoside from the stem bark, fatty acids and sterols from seeds of *Cassia reingera*	**Lalita Ledwani** and Mukhtar Singh	*Indian Journal of Chemistry*	44 B, **2005**	1970-1971
3.	Isolation and characterization of anthraquinones from the stem bark of *Cassia* species	**Lalita Ledwani** and Mukhtar Singh	*Journal of The Indian Chemical Society*	83, **2006**	383-385
4.	Fatty acids and sterols in the seeds of *Cassia auriculata* and *Cassia siamea*	**Lalita Ledwani** and Shelly Oberoi	*Journal of The Indian Chemical Society*	Vol.86, No.11, **2009**	1224-1227
5.	Anthraquinone glycoside from stem bark of Cassia reingera and use of aqueous bark extract as a natural dye on wool	**Lalita Ledwani and** Shelley Sehgal	*Asian Journal of Chemistry*	Vol. 21, No. 7, **2009**	5179-5183
6.	Isolation and characterization of colour components from the bark of two Cassia species and optimization of dyeing process on wool by	**Lalita Ledwani** & K.C. Gupta	*Asian Journal of Chemistry*	Vol.21, No 9, **2009**	7131-7137.

	their bark extracts				
7.	A comparative study of fatty acids and sterols profiles in the seed oil of five Cassia species	**Lalita Ledwani &** Shelly Oberoi	*Archives of Applied Science Research*	Vol. 2(1), **2010**	295-301
8.	Isolation and characterization of new plant pigment along with three known compounds from Butea monosperma petals	**Lalita Ledwani** & Shelly Oberoi	*Archives of Applied Science Research*	2 (4), **2010**	68-71
No. of papers communicated in different journals:03					

B)Paper Presented in Conferences:				
S.No.	Title of the Paper	Co-author(s) (if any)	Name of the Conference	Date & Year
1.	Phytochemical investigation of some Cassia species	**Lalita Ledwani** , K.C. Gupta and S.C. Agarwal	72 nd Annual Session, The National Academy of Sciences Organized by: North-Eastern Hill University, Shillong	25/10/2002-27/10/ 2002
2.	Isolation and characterization of a plant pigment from *Cassia fistula* bark and its application as natural dye	**Lalita Ledwani**, K.C. Gupta and Mukhtar Singh	73 rd Annual Session, The National Academy of Sciences Organized by: GTU &PLR, Ahmedabad, Gujarat	10/10/2003-12/10/ 2003
3.	Isolation and characterization of anthraquinones from Cassia species and use of crude bark extract as a natural dyes	**Lalita Ledwani**	Environmental pollution a scientific approach Organized by: S.S. Jain Subodh P.G. College, Jaipur	21/12/2006-23/12/ 2006

4.	Phytochemical investigation of bark of *Cassia reingera* plant	**Lalita Ledwani**	Emerging trends in advanced chemistry Organized by: University of Rajasthan	8/3/2008-10/3 2008
5.	Optimization of dyeing process for wool with natural dye obtained from Caesalpiniaceous plants	**Lalita Ledwani**	4th mid-CSIR symposium in chemistry Organized by: SGS, Institute of Technology& Science, Indore	2008
6.	Application of anthraquinone dyes as a natural dyes on wool	**Lalita Ledwani**	Challenges in plasma spectroscopy for future fusion research machines, BITS Jaipur	20/2/2008-22/2/2008
7.	Characterization of sterols and fatty acids and Phenolics from leaves of *Cassia fistula* Plant	**Lalita Ledwani** and Shelly Oberoi	Acharya Prafulla Chandra Memorial Symposium on Chemistry Today,2009 Organized by: Indian Chemical Society, Kolkotta	1/8/2009-2/8/2009
8.	Hydrogen Blended Natural Gas in Transportation	Neha Sasi, **Lalita Ledwani** and Ajit Shukla	Acharya Prafulla Chandra Memorial Symposium on Chemistry Today,2010 Organized by: Indian Chemical Society, Kolkotta	2/8/2010-4/8/2010
9.	Optimization of dyeing process for leather and wool with natural dyes obtained from *Butea monosperma* flowers and Cassia fistula bark	**Lalita Ledwani** and Shelly Oberoi	National conference on biodiversity plants of medicinal and aromatic plants: Collection, characterization and utilization	24/11/2010 - 25/11/ 2010

			Organized by: Medicinal and aromatic plants association of India, Anand, Gujarat University	
10.	Dielectric Barrier discharge (DBD) treatment of polyester to increase hydrophilicity at atmospheric pressure plasma	**Lalita Ledwani**, Nisha Chandwani, Bhakti and S.K. Nema	National Symposium on Recent Advances in Chemical Sciences Organized by: University of Kota, Rajasthan	7/1/2011-8/1/2011
11.	Application of Natural dyes on polyamide fibers; closer to nature	Shelly Oberoi and **Lalita Ledwani**	National Conference on Green Chemistry Organized by: MMH College Gaziabad(U.P.)	22/1/2011-23/1/2011
Student papers in conferences:				
12.	Oil Sand Recovery via SAGD(in Hindi)	Tushar Raina, Nilay Parikh, Neesarg Bhatt, Devashish Saxena, Chintan Kotak & Lalita Ledwani	Takniki avm vaganik jagujakta hatu hindi ke upyog par rashtriya samelan Organized by: Institute for Plasma Research, Gujarat	27/1/2011-28/1/ 2011
13.	Bioremediation of Hydrocarbons from soil and water contaminants(in Hindi)	Arpit Dixit, Avinash Gauma & Lalita Ledwani	Takniki avm vaganik jagujakta hatu hindi ke upyog par rashtriya samelan Organized by: Institute for Plasma Research	27/1/2011-28/1/ 2011

14.	OIL SANDS: Current Industrial Practices and their Viability	Aiswarjya Mahapatra, Kshitij Agrawal and Lalita Ledwani	International Conference on Unconventional Sources of Fossil Fuel & Carbon Management Organized by: Gujarat Energy Research & Management Institute	21/2/2011-22/2/2011
15.	The need for microbial enhanced oil recovery	Swapnil Mishra, Shobhit Agarwal and Lalita Ledwani	International Conference on Unconventional Sources of Fossil Fuel & Carbon Management Organized by: Gujarat Energy Research & Management Institute	21/2/2011-22/2/2011
16.	Oil sand recovery Techniques :*In-situ* combustion vs THAI	Tushar Raina, Nilay Parikh, Neesarg Bhatt, Devashish Saxena, Chintan Kotak	International Conference on Unconventional Sources of Fossil Fuel & Carbon Management Organized by: Gujarat Energy Research & Management Institute	21/2/2011-22/2/2011

C)On-going research projects:

Sponsoring Agency	Title of the project	Area	Period	Position	Amount of grant
DST, Govt. of India	*Plasma surface modification of polyester fiber and fabric to enhance dye uptake properties with natural dyes*	Plasma Chemistry	2009-2012	Principal Investigator	34 Lakhs
UGC, Govt. of India	*Biodegradation of reactive dyes used in Industry by Macrofungi*	Natural Products	2009-2012	Collaborator	5 Lakhs

D)Details of P.G. students guided/continuing:

S.No.	Name of the Students	Status	Title of the Dissertation
1.	Mr. Avadh Oza (M. Tech.)	Completed	Phytochemical investigation of two medicinal plants and its various application
2.	Ms. Shruti R Oza(M.Sc.)	Completed	Study of antimicrobial activity of *Bauhinia variegata* and its phytochemical investigation
3.	Ms. Neha Sasi(M.B.A.)	Completed	Advantages of hydrogen blended CNG

E)Areas of future research interest: Bio fuel production, Microbial enhance oil recovery, corrosion control etc.

Date: 1/6/2011