

Curriculum Vitae

Name : PROFESSOR JASWANT SINGH

Father's Name : Late Shri Karam Chand

Date of Birth : 8th July, 1961

Nationality : Indian

Postal Address: Dr. Jaswant Singh, Professor and Head
Department of Environmental Sciences
Dr. R. M. L. Avadh University,
Faizabad-224001, U.P., India.

Residence Address : Dr. Jaswant Singh
H.No.569K/76, Sneh Nagar,
Alam Bagh, Lucknow –226005, U.P.

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Educational Qualifications : M.Sc., Ph.D.

Field of Specialization: Environmental Pollution and Management

Positions Held:

Junior and Senior Research Fellow: July 1984-1987, National Botanical Research Institute, Lucknow, U.P.

Post Doctoral: July, 1988-November, 1991, Ecotoxicology Division, Industrial Toxicology Research Center, Lucknow. U.P.

Scientist Fellow: November, 1991-October, 1994, Ecotoxicology Division, I.T.R.C.

Pool Officer: 1st November, 1994-29th October, 1994, Ecotoxicology Division, Industrial Toxicology Research Center, Lucknow, U.P.

Lecturer: 30th December 1994, Department of Environmental Sciences, Dr. RML Avadh University, Faizabad-224001, U.P.

Reader: 30th December 2003-30th December 2006

Associate Professor: 30th December 2006 to 30th December 2009.

Professor: 30th December 2009 to till date.

Participated in the 22nd and 24th Indian Scientific Expedition to Antarctica, and Indian Scientific Expedition to Arctic (North Pole) (2018), Ministry of Earth Sciences, Govt. Of India, New Delhi.

Selected as Member of task force for the “Third Indian Station at Antarctica” Bharti, at Larsemann Hills, Antarctica.

Expert Member-District level Environmental Impact Assessment Authority (DEIAA), nominated by district authorities, Faizabad, Uttar Pradesh.

Experience: Twenty five years of teaching to postgraduate students and 27 years of research

Research Projects: Completed 10 major projects as Principal Investigator funded from agencies like AICTE, CSIR, MoEF, MoES, NCAOR, UPCST, World Bank, UGC, New Delhi.

Country Visited: Germany, Switzerland, South Africa, United Kingdom, Dubai, Norway.

Research Publication: Published 90 Research publications in national and international Journals of repute; Book Chapters-19; Review articles-07; Conference/Seminar attended-60.

Edited books :

1. Natural Resource Management & Conservation (2003), **Kalyani Publishers, N. Delhi.**
2. Antarctica: The Most Interactive-Ice-Air-Ocean Environment (2011) by **Jaswant Singh and H.N. Dutta, (Eds.), Nova Science Publishers. Inc., N.Y., USA.**
3. **Antarctica Abhiyan** (2011) in Hindi by H.N. Dutta and Jaswant Singh, Suhani Publication, New Delhi.
4. **Conservation of Environment for Human Health** (2013). Edited by Qasim, S.Z., Ahmad, J., Khare, N., Wanganeo, A., Jaswant Singh, Ahmad, A. National Environmental Science Academy, N. Delhi.

Research Guidance: Fifteen students have been awarded Ph.D. degree and two students are pursuing Ph.D. research program under my supervision.

Membership or Fellowship of Professional/Academic Bodies

1. Academy of Environmental Biology, Life Membership No.316
2. Ethnobotanists
3. Association of Microbiologists of India, Life Membership No. 2443-199
4. Indian Net Work for Soil Contamination Research
5. National Environmental Science Academy, Life Membership No.1315
6. The Society for Science of Climate Change and Sustainable Environment (SSCE). S.No. 011.
7. Society of Toxicology, India. Life Membership No.979-L
8. Prof. H.S. Srivastava foundation for Science and Society, Lucknow.
9. Association for Plant Taxonomy, LM (SP)/451/10/2011

Awards :

- Acharya Narendra Dev Samman for significant contribution in Science (2003),
- ASEA Toxicology Award (2007),
- Fellow of the Academy Environmental Biology (2007).
- Scientist of the Year Award (2014) By NESI, New Delhi.
- Faizabad Ratan Samman -for the significant contribution in field of Science (2017).

Editorial Board

1. Chief Editor -International Journal of Applied Environmental Science and Technology (ISSN: 2321-8223).
2. Member-Editorial Board -Journal of Applied and Natural Science (An International Journal) (ISSN: 0974-9411).
3. Member- Editorial Board- Journal of Sustainable Environmental Research (ISSN:2278-196X)
4. Member-Editorial Board- People and Planet
5. Asstt. Editor-Environment Conservation Journal (ISSN:0972-3099)

6. Attended Training Courses, Teaching-Learning-Evaluation Technology Programmes, Faculty Development Programme:

S. No.	Programme	Duration	Organized by
1	Attended Risk Assessment Summer School , At the Manor of Groves, United Kingdom.	27th. Aug-4th Sept. 1994.	The International Union of Toxicology.
2	Attended Orientation Course .	June 26-July 22, 2000.	Lucknow University, Lucknow.
3	Attended Refresher course in Environmental Sciences ,	Feb.25 to March 22, 2002.	Jawaharlal Nehru University, N. Delhi.
4	Attended Refresher course in Environmental Sciences .	Nov.15 to Dec.05, 2003.	Gurukul Kangri Vishavidyalaya, Hardwar.
5	Attended Advanced EMS Auditing course .	13-17 th April 2009,	Bureau of Indian Standards, Noida.
6	Attended “Management and Leadership Development Training Course” .	12 th -16 th September, 2011.	National Institute of Administrative Research LBS National Academy of Administration, Mussoorie.

Following Seminar/conferences organized by me, as an Organizing Secretary at Dr. RML Avadh University, Faizabad:

(1) National Environmental Awareness Campaign (2002): Organized on dated 21.1.2002 in collaboration with Shohratgarh Environmental Society, at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Ministry of Environment and Forests, New Delhi.

(2) National Seminar on Climate Change and its Impact on Biological communities (CCIBC). Organized on dated 12-13 February, 2011 in collaboration with Indian Academy of Environmental Sciences, Haridwar, at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Higher Education Department, U.P. Government, Lucknow, Department of Science and Technology and Ministry of Earth Sciences, New Delhi.

(3) Earth Day (2011). Organized on dated 22.4.2011 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Ministry of Earth Sciences, New Delhi.

(4) Earth Day (2012). Organized on dated 22.4.2012 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Ministry of Earth Sciences, New Delhi.

(5) World Environment Day (2012). Organized on dated 05.6.2012 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Dr. RML. Avadh University, Faizabad.

(6) World Environment Day (2013). Organized on dated 05.6.2013 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Dr. RML. Avadh University, Faizabad.

(7) Three Days Training Workshop on water Treatment by adsorption (2013). Organized on dated July 27- 29, 2013 at Dr. RML. Avadh University, Faizabad.

(8) Earth Day-Organized on 22.4.2014, 22.4.2015, 22.4.2017. Financial assistance provided by Dr. RML. Avadh University, Faizabad.

(9) World Environment Day (2017). Organized on dated 05.6.2017 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Dr. RML. Avadh University, Faizabad.

(10) Organized Invited lectures of Eminent Scientists and Academicians:

Dr. P.K. Seth, Former Director and CEO Biotech Park, Lucknow

Dr. D.K. Upreti, Dy. Director, NBRI, Lucknow

Dr. K.C. Gupta, Director, IITR, Lucknow

Dr. Lal Ji Singh, Vice-Chancellor, BHU, Varanasi.

Prof. Manhas Jammu University, J&K

Dr. Vinay Shakti Shukla, Director, Fragrance and Flavour Development Centre, Kannauj.

(11). National Conference on Current Issues of Environmental Health, Climate Change and its Management (NCECM-2018). Organized on October 3-4, 2018 in collaboration with Academy of Environmental Biology, Lucknow, at Dr. RML. Avadh University, Faizabad.

Invited Lectures and Chairmanships at national or international Conference/Seminar

S. No .	Title of Lecture/Academic Session	Title of conference/ seminar etc.	Organized by	Whether International/ national
1	Invited Speakers 17-19 Feb 2006.	Nat. Symp. on "Issues & Challenges For Environ. Mgmt. Vision 2025"	Deptt. Of Environ. Sci. BBA University, Lucknow.	National
2	Invited Speakers- My Life and Experiment with Survival mechanism at Antarctica. Dec. 4-5 2011.	Nat. Conf. on Frontiers in Biol. Sci.	Deptt. Of Biotech., VBS Purvanchal University, Jaunpur, U.P.	National
3	Chaired Session, November 11-13. 2011.	World Congress for Man and Nature "Global Climate Change & Biodiversity conservation".	Deptt. Of Zoology & Environ. Sci. Gurukula Kangri Vishwavidyalaya, Haridwar Uttarakhand,	National
4	Invited Speaker & Chaird Session, September 20-22, 2012	32 nd Annual Session of The Academy of Environ. Biol. & Nat. sem. On "Emerging pollutants & pathogens: Challenges & Risk Reduction".	CSIR- Indian Institute of Toxicology Research, Lucknow & The Academy of Environ. Biology, Lucknow.	National
5	Invited Speakers & Co-Chairperson November 28-29, 2012	Environ. & Human Health	Nat. Environ. Sci. Academy in association with Deptt. Of Botany, Jamia Hamdard.	International
6	Invited Speakers 24-25 March, 2012.	"Bioremediation – A Promising Technology for clean India".	Isabella Thoburn College, Lucknow.	National
7	Invited Speakers- Life and Experiments with Survival Mechanism at Antarctica. 7 th July 2012.	Nat. Sem. on New Perspectives of Natural Sciences- II.	Deptt. Of Biol. & Environ. Sci., Natubhai V. Patel College of Pure & Applied Sci.	National
8	Invited Speakers-Indian	Orientation	University of Lucknow,	

	scientific Expedition to Antarctica. Jan. 14, 2012	Programme	Lucknow.	National
9	Invited Speakers- My Life and Experiment of Survival at Antarctica. March 5, 2013.	Orientation Programme -111.	University of Lucknow, Lucknow.	National
10	Chief Guest 13 th Feb. 2012.	“Debate Competition” on Develop improves or degrades the Environ.	Jhunjhunwala P.G. College, Faizabad.	–
11	Invited Speakers- My Life and Experiment with Survival at Antarctica. Novemebr 16, 2013.	Refresher course in Life Sciences, 11-30 Nov. 2013.	UGC-ASC University of Jaipur, Rajasthan.	National
12	Life and Survival at Antarctica. Feb.15, 2014	Symposium on Safe Water By National Academy of Sciences India (Allahabad Chapter)	Dr. Rizvi Learners Academy at Jaunpur, U.P.	District
13	21-23 Feb.2014.	International Conference on Environmental Technology and Sustainable Development: Challenges & Remedies.	Dept. of Environmental Sciences, BB Ambedkar (A Central University), Lucknow (U.P.).	International
14	My Life and survival mechanism at Antarctica. Key note Speaker 23 & 24 th March,2014.	National Seminar Human Impact on Environment	SKBB Govt. PG. College, Harakh, Barabanki.	National
15	River Monitoring: A case study of Yamuna River. 9-11 May, 2015 Invited Speaker	Gomti Yatra and National Seminar on Rejuvenation of River Gomti: Past, Present and Future (Gy & NSRRG-2015)	Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, U.P.	National

16	Survival of life at Antarctica and its Biodiversity, 31 Oct- 2 Nov. 2015. Invited Speaker	3 rd Lucknow science Congress and National Conference on Science for Society: An Interdisciplinary Approach.	Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, U.P.	National
17.	Life in Antarctica and effect of UV rays on flora. Invited speaker/Mentor in Inspire Science Camp. 03.12.2015	Department of Science and Technolgy, Govt. of India. New Delhi.	Kashi institute of Technology, Varanasi	National
18.	Life and fish fauna of Antarctic waters. February 8 – 10, 2016	National Conference on Env. Impact on Health & its Mgmt	Dept. of Zoology, University of Rajasthan, Jaipur	National
19	Life and Experiments with survival at Antarctica. Invited speaker, Chief guest. 14.02.2016	Youth led Sustainable development.	Sacred Heart degree college, Sitapur, U.P.	National

Published Papers in Journals

S. No.	Title with page nos.	Journals	ISSN/ISBN No.	Impact Factor	Whether peer reviewed. Impact factor, if any
1	Incidence of fern spores in the ambient air of Lucknow. (1985) 32-38.	Indian Fern J.	ISSN-0970-2741	-	Peer reviewed. No.
2	Functional aspects adaptability of ----to evolution. (1985) 154-166.	J. Palynol	ISSN-0022-3379	-	Peer reviewed. No.
3	Studies on the mycolfora associated with rhizome of some ferns. (1985) 118-121	Geobios New Reports	ISSN-0253-3340	-	Peer reviewed. No.
4	A note on the fast spreading of <i>Pteris vittata</i> ----areas. (1986) 38-41.	Indian Fern J.	ISSN-0970-2741	-	Peer reviewed. No.
5	Pteridophyte aerospora of India. (1988) 229-238.	Grana	ISSN-0017-3134	0.8	Peer reviewed. Yes

6	Ultrastructural aspects of ----- in <i>Pteris vittata</i> L. (1988) 29-38.	Beitrag e Biol. Pflanze n	ISSN-0005-8041	-	Peer reviewed. Yes
7	Spore development in <i>Ampelopteris</i> -- A light microscopy study. (1988) 63-68.	Indian Fern J.	ISSN-0970-2741	-	Peer reviewed. No.
8	Effect of detergent pollution on aquatic flora. (1988) 208-213.	Adv. Plant Science s	ISSN-0970-3586	-	Peer reviewed. No.
9	Fibrillar mesh in spore locus in some Pteridophytes. (1989) 41-45	Phytom orphology	ISSN-0031-9449	-	Peer reviewed. No.
10	Effect of linear alkyl benzene sulphonate on <i>Ceratopteris thalictroides</i> . (1989) 111-117.	Bull. Environ . Contam . Toxicol .	ISSN-0007-4861	1.14	Peer reviewed. Yes
11	Patch testing animals to allergenic fern spores. (1989) 167-172.	J. Cut. Ocular Toxicol .	ISSN-1556-9527	0.89	Peer reviewed. Yes
12	Studies on the allergenicity -- of <i>Pteris vittata</i> L. (1989) 239-243.	Annals of Allergy .	ISSN-1080-1206	2.8	Peer reviewed. Yes
13	Developmental aspects of spores of <i>Anemia</i> – micro scopy study. (1989) 73-79.	J. Palynol .	ISSN-0022-3379	-	Peer reviewed. No.
14	New approach to study fern spore sporoderm. (1990) 299-304.	Proceed Ind.Nat . Sci Acad	ISSN-0370-0046	-	Peer reviewed. No.
15	Chlorotetracycline induced fluorescence of antherozoids in ferns. (1990) 125-130.	Stain Tech.	ISSN-0038-9153	-	Peer reviewed. Yes
16	Effect of Cd, Pb and Zn-- ----- <i>Polystichum</i>	J. Environ	ISSN-1001-	-	Peer reviewed.

	<i>squarrosu</i> m. (1990) 22-27.	Sci.	0742		No.
17	Ecotoxicological significance of thermal pollutants. (1990) 53-58.	J. Rec. Adv. Appl. Sci.	ISSN-0970-1990	-	Peer reviewed. No
18	Detergent Pollution and aquatic flora. (1990) 350-353.	J. Sci. Ind. Res.	ISSN-0022-4456	-	Peer reviewed. No
19	Pteridophyte aerospora of Lucknow. (1991) 34-40.	Indian Fern J.	ISSN-0970-2741	-	Peer reviewed. No
20	Ultrastructural and biochemical effects --- <i>Marsilea minuta</i> Linn. (1991) 171-181.	Ecot. Environ. Safety.	ISSN-0147-6513	2.34	Peer reviewed. Yes
21	Effect of pH and temperature----toxicity of cadmium by <i>Lemna minor</i> . (1991) 84-90.	Bull. Environ. Contam. Toxicol.	ISSN-0007-4861	1.14	Peer reviewed. Yes
22	Effects of long term low dose- <i>Ceratopteris thalictroides</i> , a water fern. (1992) 184-189.	Arch. Environ. Contam. Toxicol.	ISSN-0090-4341	1.93	Peer reviewed. Yes
23	Development of fern sporangia: -----microscopy study. (1992) 261-264.	Biotech & Histotechnology	ISSN-1052-0295	0.67	Peer reviewed. Yes
24	Uptake and translocation of ¹⁰⁹ Cd -----toxic response. (1993) 914-919.	Bull. Environ. Contam. Toxicol.	ISSN-0007-4861	1.14	Peer reviewed. Yes
25	Combined effects of cadmium ---- on <i>Lemna minor</i> . (1994) 59-76.	Ecotoxicology	ISSN-0963-9292	3.0	Peer reviewed. Yes
26	Cadmium induced variations in-----	J. Environ.	ISSN-1093-	1.26	Peer reviewed.

	peroxidase in <i>Marsilea minuta</i> Linn. (1994) 1323-1333.	. Sci. & Hlth, Part-A:	4529		Yes
27	Toxicological consideration for the evaluation-----eco friendliness. (1994) 345-355	Ind. J. Environ . Protect.	ISSN-0253-7141	-	Peer reviewed. No
28	Plastic-mitochondrial association in <i>Salvinia molesta</i> Mitchell. (1994)	Phytomorphology	ISSN-0031-9449	-	Peer reviewed. No
29	Aquatic ferns as bioassays model for ecotoxicity evaluation: An assessment. (1994) 5-7.	Indian J. Environ . & Toxicol .	ISSN-0971-2127	-	Peer reviewed. No
30	Safety and environmental wasteland -----development. (1995) 91-97.	J. Rec. Adv.Appl. Sci.	ISSN-0970-1990	-	Peer reviewed. No
31	Development of sporoderm-----in <i>Pteris vittata</i> L. (1995) 45-58.	J. of Palynol .	ISSN-0022-3379	-	Peer reviewed. No
32	Population ecology of zooplankton in polluted - ----Faizabad, UP, India. (1995) 139-140.	Bioved	ISSN-0971-0108	-	Peer reviewed. No
33	Changes in uptake of calcium---cadmium in <i>Salvinia molesta</i> . (1996)9-21	Ecotoxi cology.	ISSN-0963-9292	-	Peer reviewed. Yes
34	Uptake and toxicity of cadmium to -----seedlings. (1999) 62-65.	Ind. J. Environ . Toxicol .	ISSN-0971-2127	-	Peer reviewed. No
35	Accumulation of lead --- -----Faizabad, U.P., India. (1999) 223-225.	J. of Environ . Biol.	ISSN-0254-8704	-	Peer reviewed. Yes
36	Studies on the toxicity and biodegradation of detergents. (2000) 125-130.	Proc. Acad. Environ . Biol.	ISSN-0971-2461	-	Peer reviewed. Yes

37	Metabolic alterations due -----(<i>Oryza sativa</i>) seedlings. (2000) 523- 528.	Poll. Res.	ISSN- 0257- 8050	-	Peer reviewed. No
38	Effect of lindane on the-- ---activities of cyanobacteria. (2001)219-221.	Ecotox. Environ . Safety.	ISSN- 0147- 6513	2.34	Peer reviewed. Yes
39	Haematological alteration in fish ----- loom washing effluent. (2001) 155-159.	J. Eco physiol. & Occup. Hlth.	ISSN- 0972- 4397	-	Peer reviewed. No
40	Drinking water quality in fluorosis----- Gosaiganj, Lucknow, U.P. (2001) 187-194.	J. Eco physiol. &Occu p. Hlth.	ISSN- 0972- 4397	-	Peer reviewed. No
41	Environmental monitoring of detergents ----- Ambedkarnagar, U.P. (2001) 303-309.	J. Ecophy siol. & Occup a tHlth.	ISSN- 0972- 4397	-	Peer reviewed. No
42	Isolation and characterization of bacterial population ----- -----growing in kraft paper mill effluent. (2001) 203-209.	J. Ecophy siol.& Occu. Hlth.	ISSN- 0972- 4397	-	Peer reviewed. No
43	Impact of industrial wastewater -----soil characteristics.(2003) 43- 52	J. Ind. Poll. Cont.	ISSN- 0970- 2083	-	Peer reviewed. No
44	Antimicrobial resistance ----- western Himalaya, India. (2003) 349-356.	J. Environ . Biol.	ISSN- 0254- 8704	-	Peer reviewed. Yes
45	Physico-chemical characteristics of river Ami -----mill effluent. (2003) 93-96.	Indian J. Environ . Hlth.	ISSN- 0367- 827X	-	Peer reviewed. No
46	Effect of bio accumulation of cadmium-----macro molecules of wheat seedlings. (2003) 257-	Biol. Trace Elemen t Res.	ISSN- 0163- 4984	1.52	Peer reviewed. Yes

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47	The environmental fate -- --of synthetic detergents. (2003) 233-242.	J. Ecophy . Occupa t.Hlth.	ISSN- 0972- 4397	-	Peer reviewed. No
48	Physico-chemical charac terization of paper --- <i>Cicer arietinum</i> .(2004) 59-65	J. Ind. Poll. Control .	ISSN- 0970- 2083	-	Peer reviewed. No
49	Impact of anaero bically treated - <i>Phaeolus aureus</i> L. (2004)381-385.	J. Env. Biol.	ISSN- 0254- 8704	-	Peer reviewed. Yes
50	Ethno-medicinal uses of plants- Gonda district (U.P.). (2005) 167-170.	Ethnob otany.	ISSN- 0971- 1252	-	Peer reviewed. No
51	Impact of fertilizer factory -Gram (<i>Cicer aeritenum</i>). (2006) 153- 156.	J. Env. Biol.	ISSN- 0254- 8704	-	Peer reviewed. Yes
52	Toxicity of industrial ---- ---plant <i>Lemna minor</i> L. (2006) 385-390.	J. Env. Biol.	ISSN- 0254- 8704	-	Peer reviewed. Yes
53	Quality assessment of industrial ---irrigation. (2006) 7-13.	Indian J. Environ . Protect.	ISSN- 0253- 7141	-	Peer reviewed. No
54	Preliminary survey of lichens -----of East Antarctica. (2006) 131- 132.	Phytota xonom y	ISSN- 0972- 4206	-	Peer reviewed. No
55	A unique plant over Schirmacher region, ---of global warming? (2007) 119-123.	J. Ecophy Occupa .Hlth.	ISSN- 0972- 4397	-	Peer reviewed. No
56	Ethno-medicinal plants--- -- district of Uttar Pradesh. (2007) 147-153.	J. Non timber Forest Product s	ISSN- 0971- 9415	-	Peer reviewed. No
57	Heavy metal accumulation -----with wastewater. (2007) 145-	J. Eco physiol. &	ISSN- 0972- 4397	-	Peer reviewed. No

	150.	Occup Hlth.			
58	Community structure and diversity of a deciduous forest in Uttar Pradesh. (2008) 821-834	The Indian Forester	ISSN-0091-4816	-	Peer reviewed. No
59	Effect of altitudinal changes----- pigment concentration in some cryptogam.(2008) 107-110.	J. Eco physiol. Occup. Hlth.	ISSN-0972-4397	-	Peer reviewed. No
60	Dumping of hazardous pesticide----- through ideal landfill site. (2008) 32-37.	Adv. Zool.	ISSN-0253-7214	-	Peer reviewed. No
61	Effect of disturbance on standing biomass in a Sal mixed forest of eastern U.P. (2009) 251-256	Ind. J. Forestry	ISSN-0971-9431	-	
62	Toxicity evaluation of pesticide-- <i>Allium cepa</i> root (growth and cyto genetic) assay. (2009) 71-82.	Int. J. Appl. Engg. Res.	ISSN-0973-4562	-	Peer reviewed. No
63	The toxicology of microcystins and its implication on human health. (2010) 35- 41.	J. Eco physiol. Occup. Hlth.	ISSN-0972-4397	-	Peer reviewed. No
64	Toxicological Assessment of Cyanobacterial Toxins. (2010) 523-530.	The Bioscan	ISSN-0973-7049	-	Peer reviewed. No
65	<u>Hydrogeochemical attributes -----Gangotri glacier, Uttarakhand.</u> (2010) 105-110.	J. Geol. Society India.	ISSN: 0016-7622	-	Peer reviewed. No
66	Evaluation of mollusk as sensitive indicator ----- aquatic System: A review. (2011) 49-57.	The I IOAB Journal.	ISSN-0976-3104	-	Peer reviewed. No
68	Antarctic terrestrial ecosystem and role of----- enhanced UV-B radiations. (2011) 63-77.	Rev. Environ . Sci. & Biotech	ISSN-1569-1705	-	Peer reviewed. Yes
69	Accumulation of heavy	Toxicol	ISSN-		Peer

	metals -----Ramgarh lake Gorakhpur, U.P. India. (2011) 462-473.	. & Environ . Chem.	0277-2248	-	reviewed. Yes
70	Effect of UV-B radiations ----- Schirmacher Oasis region, East Antarctica. (2011) 279-287.	Polish Polar Research.	ISSN-0138-0338	-	Peer reviewed. Yes
71	Effect of UV-B radiation on UV Absorbing----- of Schirmacher Oasis region, East Antarctica. (2012) 80-84	Cell. Mol. Biol.	ISSN 1165-158X online	1.46	Peer reviewed. Yes
72	Effects of Ultraviolet-B (UV-B) radiation on two-central Himalayan region, India. (2012) 9-16.	African J. Environ . Sci. & Tech.	ISSN 1996-0786	-	Peer reviewed. No
73	Seasonal variations in heavy metals in Ramgarh lake, Gorakhpur, India. (2012) 63-64	Inter. J. Lakes & Rivers.	ISSN 0973-4570	-	Peer reviewed. No
74	Heavy Metals Assessment in Sediment of Ramgarh Lake, UP, India. (2012) 13-19.	J. Ecophy . Occup. Hlth.	ISSN-0972-4397	-	Peer reviewed. No
75	Studies on the Induction of ----- in <i>Bryum argenteum</i> . (2012) 1(2): 163-171.	Int. J. Env. Sci. & Tech.	ISSN 2278-0785	-	Peer reviewed. No
76	Seasonal variations in physicochemical ----- of a lake in Northern India. (2013) 458-471.	Toxicol . & Environ Chem.	ISSN-0277-2248 (Print) , 1029-0486 (Online)	0.75	Peer reviewed. Yes

77	Adverse effect ----- plants growing at Schirmacher Oasis, East Antarctica. (2014). 21 (1):101-106.	Toxicol . Int.	ISSN-0971-6580 (Print) , 0976-5131 (Online)	-	Peer reviewed. Yes
78	Evaluation of ----- A biomonitoring approach. (2014), 110: 49-55.	Ecot. and Env. Safety.	ISSN-0147-6513	2.34	Peer reviewed. Yes

79	Assessment ----- for safe irrigation. (2014). 3 (1): 69-76.	J. Sustainable Env. Res.	ISSN: 2278-196X	-	Peer reviewed. Yes
80	Evaluation and potential health hazard of selected metals in water, sediments, and fish from the Gomti River. (2015): 21 (1): 227-240.	Human and Ecol. Risk Assess.	ISSN: 1080-7039 (print) 1549-7860 (online)	1.5	Peer reviewed. Yes
81	Effect of textile factory effluent irrigation on productivity of wheat crop. (2015): 4 (3), 727-736.	Int. J. Sci. Env. Technology.	ISSN 2278-3687 (O) 2277-663X (P).	-	Peer reviewed. No
82	Effect of industrial waste water irrigation on productivity of wheat crop. (2015): 6 (3), 402-409.	Int. J. Env. Sci.	ISSN 0976-4402	-	Peer reviewed. No

Completed Research Project Principal Investigator:

S. No	Title	Agency	Period	Grant/ Amount Mobilized (Rs. lakh)
1	Ecotoxicological Evaluation Of Water Pollutants Originating From Industrial Wastewater.	AICTE, New Delhi.	March 1997- November 2000.	Rs.4.0 lakhs.
2	Studies on the Management and Safe Reuse of Industrial Wastewater.	UPCAR Lucknow, U.P.	21.11.2000- 21.11.2003.	Rs.7.072 lakhs.
3	Ecological and Human Health Risk Assessment of Detergents in the Handloom Industry in Eastern U. P.	Council of Science and Technology of U.P., Lucknow.	19.10.2002- 19.10.2005.	Rs.3.37 lakhs.
4	Environmental Monitoring and Ecological Risk Assessment of Industrial Solid wastes.	Ministry of Environment and Forests, New Delhi.	12.7.2002- 12.7.2005.	Rs.11.50 lakhs.
5	Studies on the influence of Ultraviolet-B radiation on the survivorship and pigment concentration of flora over Schirmacher Oasis, East Antarctica.	National Centre For Antarctic & Ocean Research, Goa (Ministry of Earth Sciences).	15.7.2006- 15.7.2009.	Rs.9,96,600.00. lakhs

6	Adaptive Strategies of Microflora In The Harsh Antarctic Environment Over The Schirmacher Region, East Antarctica.	CSIR, New Delhi.	2.11. 2006- 31.1.2010.	Rs.10.00 lakhs
7	Identification of cyanobacterial population and characterization of cyanotoxins of Ramgarh lake of district Gorakhpur U.P.	Council of Science and Technology of U.P., Lucknow	14.10.2009- 13.10.2012.	Rs.6.96 lakhs.
8	Influence of climate change on photosynthetic pigments of phytoplankton of Arabian Sea as a measure of carbon reduction.	Ministry of Earth Sciences, New Delhi.	26.4.2011- 26.4. 2014	54.12 lakhs

Research Projects in Progress as Principal Investigator

S. No .	Title	Agency	Period	Grant/ Amount Mobilized (Rs. lakh)
1	Studies on the influence of UV-B radiation on cryptogamic flora (Lichen and Moss) of Himalayan region, India	UGC, New Delhi	24 September 2015-2018	Rs.13,25,000/-