

CURRICULUM VITAE



Prof. D. P. Singh

Professor

School for Environmental Sciences, Babasaheb
Bhimrao Ambedkar, Lucknow

Chairman

Advisory Board
Council of Science and Technology,
Government of Uttar Pradesh

Adjunct Professor

Sri Mata Vaishno Devi University, Jammu
(Jammu & Kashmir)

Member

State Expert Appraisal Committee (SEAC,
Uttar Pradesh)
&
UP State Wild life Board
(Govt. of Uttar Pradesh)

Contact Details

Office

Room no. 109
Department of Environmental Science
School for Environmental Science
Babasaheb Bhimrao Ambedkar University, Lucknow
Email- dpsingh_lko@yahoo.com
Tel: 0522-4104938, Mob- +91-9415575735

Residence

House No. 250,
Eldeco-(Udyan)-II, Sector-II
Raebareli Road, Lucknow
Pin code-226025

BASIC INFORMATION

Name	Dr. D. P. Singh, M.Sc. Ph.D.
Designation	Professor
Father's name	Late Sri R. P. Singh
Date of Birth	20-08-1960
Basic pay	Rs. 1,89,600/ p.m. (Revised Basic pay)
Research Experience	35 years
Teaching Experience	29 years (Post-graduate)

Academics

Degree	Name of the University	Year of Passing	Division	Subjects
B. Sc.	Gorakhpur Univ. Gorakhpur (UP)	1978	First	Zoology, Botany, Chemistry
M.Sc.	M.S. University, Baroda	1981	First	Botany
Ph.D.	Banaras Hindu Univ. Varanasi-5	1985	-----	Botany
Ph. D Topic		Nutrient Transport in the Unicellular Cyanobacterium <i>Anacystis nidulans</i>		
Post-Doctoral Research	University College of Swansea (U.K.)	1991	-----	Microbiology

Field of Specialization

Field of Specialization : Environmental Microbiology / Bioremediation

POSITIONS HELD

- **Administrative Responsibilities and Membership of the Statutory Bodies in the University:**

- **Chairman**, Advisory Board/Experts, UP Council for Science & Technology, Government of Uttar Pradesh 2017-2020
- **Head**, Department of Environmental Science, BBAU, Lucknow Since August, 2003-06
- **Head**, Department of Environmental Science, BBAU, Lucknow since 2012-15.
- **Dean**, School of Environmental Science, BBAU, Lucknow since June, 2006 to 2009.
- **Dean**, School of Environmental Science, BBAU, Lucknow since June 2013-2016.
- **Coordinator**, Dept. of Environmental Science, R.M.L. Avadh University, Faizabad, UP since 1995-96
- **Coordinator**, Dept. of Environmental Microbiology, Babasaheb Bhimrao Ambedkar University, Lucknow (2007-11)
- **Finance Officer**, Babasaheb Bhimrao Ambedkar University, Lucknow Since July, 2014 - Dec, 2014
- **Director, University, Science Instrumentation Center (USIC)**, Babasaheb Bhimrao Ambedkar University, Lucknow since May, 2014-17.
- Member in the **Board of Management**, Babasaheb Bhimrao Ambedkar University 2003-13
- Member in the **Academic Council**, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2000 to till date
- Member in the **Academic Council**, V. B. S. Purvanchal University. During 2014 to 2017.
- Member in the **Academic Council**, V. B. S. Purvanchal University. During 2017 to till date.
- Member in **Planning Board**, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2006-07

- Member in **School Board**, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2000 to till date
- Acted as a **Chairman**, School Board, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2006—09.
- **Chairman**, School Board, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2013-16.
- Member in **Board of Studies**, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2006 to till date
- **Chairman**, Board of Studies, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2003-06.
- **Chairman**, Board of Studies, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2013-16
- Member in **Recruitment and Promotion Committee**, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2014-15
- Member in **Admission Committee**, Babasaheb Bhimrao Ambedkar University, Lucknow. During 1998 to till date.
- Acting as **Chairman**, Admission Committee, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2006-09.
- **Chairman**, Admission Committee, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2013-17.
- Member in **Examination Committee**, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2003-05
- Acting as **Chairman, Examination Committee**, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2018 to till date
- Member in **Research Degree Committee**, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2006 to till date
- **Chairman**, Research Degree Committee of University, Babasaheb Bhimrao Ambedkar University, Lucknow. During 2015 to till date
- **Proctor**, Babasaheb Bhimrao Ambedkar University, Lucknow since 2002-2005.

Expert in Different Committees

- ▶ Expert in the selection of Lecturer in Microbiology in H.S. Gaur Sagar University (M.P.), May, 2007
- ▶ Expert for Career Advancement of Lecturers and Readers in Gurukul Kangri University, Uttarakhand and H.S. Guar Univ., Sagar (M.P.) April 2007
- ▶ Subject expert for Environmental Science section at *National Center of Antarctic & Ocean Research, Goa* for selection of team for XXVII Expedition to Antarctic.2007
- ▶ Subject expert in the selection committee for selection of lecturer in Environmental Science, B.H.U, Varanasi-2008.
- ▶ Subject expert for the recruitment of class-II position in Chhattisgarh Council of Science & Technology, Chhattisgarh-2009.
- ▶ Subject expert in the Recruitment and Assessment Board (RAB) of C.S.I.R in 2009- 2011.
- ▶ Member NAAC peer team for Himanchal University, Shimla Oct., 2016
- ▶ Member NAAC peer team for Central University of Himanchal, Dharamshala, HP. (05-27 April, 2017)
- ▶ Member NAAC peer team for Maharishi Dayanand Saraswati University, Ajmer, Rajasthan, 20-22 April, 2017
- ▶ Selection committee for the post of Lecturer in Chhatrapati Sahuji Maharaj University, Kanpur (March 2006)
- ▶ Member in the selection Committee for Technical positions at Industrial Toxicology Research Centre (ITRC, June 2006), Lucknow ...
- ▶ Member in the selection committee of Professors and Readers at Gurukul Kangri Vishwa Vidyalaya, Haridwar (Uttaranchal) Dec. (2006, 08)
- ▶ Member in the selection committee for the post of lecturer and Professor in Bundel Khand University, Jhansi (2008)
- ▶ Member in the selection committee for the post of lecturer in Environmental Microbiology, BBA University, Lucknow, 2005, 2008.
- ▶ Member in the selection Committee for the post Asst. Librarian and Assistant Registrar, BBA University, Dec. 2008

- Member in a the committee for Award on Hindi Books, Central Hindi Directorate under MHRD, Govt of India (2012)
- Member, State Expert Appraisal Committee (UP) constituted by the Central Government vide Gazette notification no. 29221 dated 16-10-2017
- CSIR recruitment Board for selection of Scientist/Sr. Scientist, 13 May, 2017
- Expert in the selection committee for recruitment of lecturer in Environmental Science, Indira Gandhi National Tribal University, Amarkantak (M.P.)-2009
- Subject Expert in Recognition and affiliation committee of H.N. Bahuguna University, Srinagar (Garhwal) 2010-11.
- Subject expert in Research Committee, Gujarat Central University, Ahmedabad (7th July, 2010)
- Subject Expert in the project monitoring for Ganga Water Pollution (held at NBRI, Lucknow) sponsored by the Ministry of Environment, Govt of India-2012
- Expert in the Recruitment and Assessment Board for Technical positions (RAB) of I.I.T.R. Lucknow (C.S.I.R) 2012
- Expert in the selection of Research officer in NBFGR (ICAR institute), Lucknow-2012
- Subject expert in the selection Committee for appointment of Professor, Assoc. and Asstt. professor in Gujarat Central University, Ahmedabad (15-16 July, 2013)
- Expert for the selection of Environmental Consultant for Ministry of Health, Govt of U.P., conducted by IIM, Lucknow (U.P.) 26-07-2013.
- Expert in selection of Technical positions at NBRI (CSIR), Lucknow. 04-12-2013
- Expert in the selection of Research officer in NBFGR (ICAR institute), Lucknow-2014
- Key note Speaker in The Indian Science Congress Association, University of Jammu during Feb 3-7, 2014.
- Subject Expert in Board of P.G. studies in Jiwaji University, Gwalior.
- Subject Expert in Board of P.G. studies in Mizoram University, Aizwal,
- Subject Expert in Board of P.G. studies in Central University of Bihar, Patna.
- Subject Expert in Board of P.G. studies in Vikram University, Ujjain 2013-16.

- ▶ Selection committee for the Lecturer in Dept. of Environmental Science and Microbiology in Chhatrapati Sahuji Maharaj University, Kanpur (March 2011)
- ▶ Expert for appointment of Professor in Agriculture Microbiology of Aligarh Muslim University(2-06-2014)
- ▶ Expert in the selection committee for Estate Officer and Cashier, BBAU, 2014
- ▶ Expert in the selection committee for Asst. Professor in GJU Science and technology, Hisar (Haryana) May, 2016
- ▶ Expert in the selection committee in Plant pathology, BHU, Varanasi- Feb. 2016
- ▶ Expert in selection committee for Assistant Professor in DES, in BBAU, 2016
- ▶ Subject Expert in BPGS, Mizoram central University, Aizwal April, 2016
- ▶ Subject Expert in CSIR selection committee for scientist E-2, & Scientist F, Nov. 2016

AWARDS AND HONOURS

- ▶ **Commonwealth Post-Doc fellowship to work in U.K.** (1990-91)
- ▶ **T.A. Mansfield's Bursary Scholarship** for working in the Department of Biochemistry, Lancaster University (U.K.), May-June, 91.
- ▶ **Prof. Hiralal Chakrawarty Award-** Indian Science Congress Association (1995-96)
- ▶ **National Scientific Award** (2002-03) by Society for Eco-sustainable Development
- ▶ **Recognition Medal - Zoological Society of India** (2011)
- ▶ **Prof. H S Srivastava Gold medal-** Academy of Environmental Biology (2017)

Research Project

- Six Project, Two ongoing Research project funded by Department of Science & Technology, Government of India and University Grant Commission, New Delhi.

S.No.	Title of Research Project	Name of The funding Agency	Year of Sanction	Amount (In Rs.)
1.	Cyanobacterial photoautotrophic metabolism under light stress stiochiometric alteration in the photosystems.	Department of Science Technology, Government of India.	19/09/1990	1,42,120/-
2.	Physiochemical and genetical study on Cyanobacterial response to the combined effect of salinity and temperature: Construction of stress tolerant mutants	Ministry of Environment and Forests (MoEF)	17/05/1996	1,77,166/-
3	Effect of fly ash on soil microorganisms and its impact assessment on bioproductivity	All India Council of Technical Education (AICTE)	24/01/1995	6,50,000/-
4	High and low light irradiance induced stiochiometric changes in photosystem II and I in the cyanobacterium anacystis	UGC, Govt. of India	12/09/1990	2,5000/-
5	Study of policy and mechanism that could facilitate delivery of STI outputs of social inclusion in climate sector	Department of Science Technology, Government of India.	2014 ongoing	1.0 Cr.
6	Impact assessment of dissolved heavy metals in ground water on health and water quality in the industrial, industrial and urban areas of Kanpur	University Grants Commission (UGC), Government of India.	2013 ongoing	7,29,000/-

Life Membership

- Indian Science Congress Association
- Association of Microbiologists of India
- Indian Society for Plant Physiology
- Prof. H.S. Srivastava Foundation for Science and Society
- Indian Botanical Society
- Royal Association for Science-led Socio-cultural Advancement (RASSA)

Visited Abroad

- Commonwealth Post-Doc fellowship- Visited to United Kingdom for Research work in 1990--91.

Previous Positions Held

S. No.	Position held	Institution/ University	Designation detail
1	Junior Research Fellow : (Sept.1981-Aug. 1983)	Department of Botany, B.H.U., Varanasi)	Worked as JRF in CSIR (New Delhi) sponsored project entitled "Differentiation and survival of blue- green algal spores"
2	Junior Research Fellow : (Sept. 1983-Aug.1985)	Department of Botany, B.H.U., Varanasi.	Worked as JRF in U.G.C.(New Delhi) sponsored project entitled "Metabolic aspects of Cyanophage replication in the blue green algal spores"
3	Senior Research Fellow : (Sept.1985-Aug.1986)	Department of Botany, B.H.U., Varanasi	Worked as S.R.F. in the CSIR (New Delhi) sponsored project entitled" Metabolic aspects of Cyanophage replication in the blue green algal spores".
4	Research Associate : (Aug.1986-Dec.1988)	Department of Microbiology, Barkatullah University, Bhopal (M.P.)	Worked as R.A. in the CSIR (New Delhi) sponsored project entitled" Physiology of heavy metal resistance in the bloom forming cyanobacteria <i>Anabaena flos-aquae</i> and <i>Lyngbya sp.</i> "
5	Lecturer : (Dec.1988-Jan.1993)	Department of Microbiology, Barkatullah University, Bhopal (M.P.)	-
6	Reader : (Jan.1994-Jul.1997)	Department of Microbiology Dr. R.M.L. Avadh University, Faizabad-224001	-
7	Reader : (July 1997- March 2004)	School of Environmental Sciences, B. B. Ambedkar University,Lucknow	-
8	Professor : (10 March 2004-cont.)	Dept. of Environmental Science, B.B.A. University, Lucknow-226025	-

Seminar, Conference, Symposium, Workshop Organized

- Organising Secretary of the two day International Seminar on “*International Conference on Environmental Technology and Sustainable Development: Challenges and Remedies*” held on Feb 21-23, 2014.
- Organising Secretary of the one day seminar on National Science Day on 28th Feb., 2014 to Commemorate the contribution of Dr. C. V. Raman.
- Organising Secretary of the one day National seminar on “*Environmental changes : A Global Agenda for future*” (28 Feb, 2016)
- Organising Secretary of a Seminar and poster competition on the occasion of “World wild life Conservation week” (5-10-2006)
- Organising Secretary of a National symposium on *Issues and challenges on Environ. Management: Vision 2025*. (17-19 Feb.2006)
- Organising Secretary of a Seminar on a theme *Education ‘Vision- 2025’* in the 2001 Seminar on “*Environment, Education and Society*” was organized on 05th June, 2013.
- Organized a Workshop on “*Streamlining Climate Change Adaptation and Disaster Risk Reduction*” on 7th March, 2014 in collaboration with NIDMA, New Delhi and GEAG, Gorakhpur.
- Organized SERC-WOS meet of DST, Ministry of Science and technology between 22-24 May, 2014
- Organized one day seminar on *Water Resource Conservation* on the occasion of ‘World Environment Day’ 5th June, 2014
- Organized a Work shop on “*Hands On Training Programme on SEM, FTIR, HPLC/ FPLC and Ion Chromatography*” during 18-20 Feb. 2015
- Organized a Seminar on “Gomati Yatra, Issues and Challenges in rejuvenation of Gomati River” 14- 16 May, 2015
- Organized a National conference on Climate change and sustainable development: Emerging issues and mitigation strategies 23 to 24 Nov, 2015
- Organised a seminar on “Socio-environmental Dimensions of Rejuvenating River Gomati’ (23-04-2018) in association with Lokbharti, Lucknow

Invited Lectures and Chairmanships

Convener/Chairman: Seminar and symposium

- Chaired a session in National seminar on “*Environmental changes : A Global Agenda for future*” (28 Feb, 2016)
- Seminar and poster competition on the occasion of “World wild life Conservation week” (5-10-2006)
- Chaired a session in National symposium on *Issues and challenges on Environ. Management: Vision 2025*. (17-19 Feb.2006)
- Chaired a session in International seminar on *Chemistry and materials Prospects and Perspective-2012, Dec 14-16,2012 organised by Department of Applied Chemistry, SPS, BBAU, Lucknow.*
- Chaired a session in national Conference on *Current Trends in computational methods in Science & Engineering* (CTCM-2013), April 22-23, 2013 Organised by SMS Govt. Model Science College, Gwalior.
- A key note speaker on Environmental Issues and Challenges in the 21st century (EICC-2013) Feb 3-5, 2013 organised by Bareilly College Bareilly.
- Chaired a session in international Seminar organized by the University on a theme *Education ‘Vision- 2025’* in the 2001
- Chairman of Seminar on “*Environment, Education and Society*” was organized on 05th June, 2013.
- Chairman of seminar “*International Conference on Environmental Technology And Sustainable Development : Challenges and Remedies*” held during 21-23rd Feb., 2014`
- Chaired a session in Workshop on “*Streamlining Climate Change Adaptation and Disaster Risk Reduction* on 7th March, 2014 in collaboration with NIDMA, New Delhi and GEAG, Gorakhpur.
- Chairman of Work shop on “*Hands On Training Programme on SEM, FTIR, HPLC/ FPLC and Ion Chromatography*” during 18-20 Feb. 2015
- Chairman of Seminar on “Gomati Yatra, Issues and Challenges in rejuvenation of Gomati River” 14- 16 May, 2015

- Chaired a session in National conference on Climate change and sustainable development: Emerging issues and mitigation strategies 23 to 24 Nov, 2015

Other recognition-

- Invited as Guest of Honour in the Annual Day Function of Pheroz Gandhi P.G. College, Raebareli 2010
- Invited as Chief Guest in a function organized by National Bureau of Fish Genetic Resources (ICAR), 2009
- Invited as Guest of Honour in the National Seminar organized by Bareilly P.G. College, Bareilly.
- Invited as Special Guest for “Jal Sammelan- Lokadesh 2014”, on 2nd March, 2014 organized by Rajendra Singh, ‘JalPurush‘
- Key speaker in a workshop Organized by National Institute of Disaster Management, New Delhi (28 Jan., 2014)

Examiner and Editor/ Reviewer

- Editor of International Journal of Energy and Environment.
- In the Editorial Board of several peer reviewed National/ International Journals
- Evaluation of Ph.D. thesis & practical examination of post-graduate under
- graduate courses of various Universities
- Guest Editor for special volume Of Cellular & Molecular Biology, 2014 (France)

Research, Publications and Academic Contributions

Total Publications – 136	Cited By	All	Since 2013
Research article/ review- 106	Citation	2712	2206
Book Chapters -30	h- index	26	22
Book- 5	I ₁₀ index	52	43

1. Books Published

- **D P Singh** and S. K. Dwivedi (2004). **Environmental Microbiology and Biotechnology**, New Age International (P) Ltd. New Delhi, India. ISBN-8122415105/ ISBN 13: 9788122415100
- **D P Singh** (2003). **Stress Physiology**, New Age International (P) Ltd. New Delhi, India. ISBN-8122414486/ ISBN 13: 9788122414486
- J.S.Singh and **D.P. Singh** (2017). **Microbes in Environmental Management**. Studium Press (USA) Pvt. Ltd. ISBN: 978-93-80012-83-4
- **D.P. Singh**, Richa Kothari and V. Tyagi (2017). **Emerging Energy Alternatives for Sustainable Environment**. TERI Press. ISBN: 9788- 1799-34111
- J.S. Singh and **D.P. Singh** (2018) **Microbial Biotechnology in Agro-Environmental Sustainability**. Elsevier (In Press)

2. Published Papers in Journals

- ❖ Barsainya, M. and **D.P. Singh*** (2018) Green Synthesis of Zinc Oxide Nanoparticles by *Pseudomonas aeruginosa* and their Broad-Spectrum Antimicrobial Effects. *J Pure Appl Microbiol*, **12(4)**, DOI 10.22207/JPAM.12.4.
- ❖ R. Singh, A.K. Upadhyay, P. Chandra, **D.P. Singh*** (2018) Sodium chloride incites reactive oxygen species in green algae *Chlorococcum humicola* and *Chlorella vulgaris*: Implication on lipid synthesis, mineral nutrients and antioxidant system. *Bioresource Technology*: 270, 489-497

- ❖ Chowdhary P ; Ashutosh Yadav; , R. Singh ; Ram Chandra; D.P. Singh; Abhay Raj; R. N. Bharagava* (2018) Stress response of *Triticum aestivum* L. and *Brassica juncea* L. against heavy metals growing at distillery and tannery wastewater contaminated site. *Chemosphere* 206: 122-131. **IF-4.39, Citations-0**
- ❖ Singh R*, R. Gaur, S. Bansal, F. Jamal, P.K. Pandey, Soni Tiwari, S. Sarsaiya, S. Misra, N. Caturvedi, **D.P. Singh**, M.K. Gaur and F.G.V. Arasu (2017) Production of Pullulan from a high yielding strain of *Aureobasidium pullulans* in non-stirred flask type fermentation system. *J. Microbiol. and Biotechn. Research.* 7 (1), 26-32 **IF-0, Citation -0**
- ❖ Rawat A.P. and **D. P. Singh*** (2018) Decolourization of malachite green dye by mentha plant biochar (MPB): a combined action of adsorption and electrochemical reduction processes. *Water. Sci. Tech.* **IF – 1.197, In press.**
- ❖ Singh R., A.K. Upadhyay and **D. P. Singh*** (2018) Regulation of Oxidative Stress and Mineral nutrient status by Selenium in Arsenic treated crop plant *Oryza sativa*. *Ecotoxicol. Environ. Safety*, 148:105-113, **IF-3.74, Citations-0**
- ❖ Yaqoob A*, **Singh DP**, Yunus M, Bhat GA (2017) Phytotherapeutic and Ethno-botanical Importance of Plant Biodiversity of Dachigam National Park, Kashmir. *Am J Ethnomed.* Vol. 4 No. 2:12 **IF-0.94, Citations-0**
- ❖ Dwivedi, G.R.*, Singh, A., Upadhyay, H. C., Pat, S., Singh, D. P., Prasad, K.N., Darokar, M. P., Srivastava, S. (2017) Determination of Drug Resistance Mechanism (s) of Clinical Isolates of *P. aeruginosa* and Phytoextract as Drug Resistance Reversal Agent. *EC Microbiology*, 13.1, 35-41. **IF- 0, Citations-0**
- ❖ Dwivedi, G.R*., Gangwar, B., Gupta, M.K., Gupta, P., Devendra, P.S., Verma, S.K. and Darokar, M.P., (2017). Determination of MDR Mechanisms of *P. aeruginosa* Clinical Isolates. *EC Microbiology*, 5(6), pp.241-247. **IF- 0, Citations-0**
- ❖ Neha, D. Kumar, P. Shukla, S. Kumar, K. Baudh, J. Tiwari, N. Dwivedi, S. C. Barman, **D. P. Singh**, Narendra Kumar* (2017) Metal distribution in the sediments, water and naturally occurring macrophytes in the river Gomti, Lucknow, Uttar Pradesh, India. *Curr. Science*, 113, 1578-1585. **IF- 0.84, Citations-0**
- ❖ Rawat A.P. and **D. P. Singh*** (2017) Kinetic and thermodynamic study on adsorption characteristics of ash derived from distilled waste of aromatic crop *Mentha piperita*: A low cost efficient adsorbent for Crystal Violet removal. *Desalination and Water Treatment*, 84, 225–236, **IF-1.63 Citations-0**

- ❖ Singh J.*, Y.Y. Change, J. Reddy Koduuri, J. Yang and **D.P. Singh** (2017) The rapid fenton-like degradation of methyl orange by ultrasonically dispersed nano- metallic particle. *Environ.Eng. Res.* 22(3): 245-254. **Citations-0**
- ❖ Singh J.*, Shikha and **Devendra P. Singh** (2017) Comparative evaluation of the effect of stannous chloride (SnCl₂) and dimethyltin dichloride (DMTC) on diazotrophic growth and nitrogen metabolism of *Nostoc Muscorum*. *Int. J. Pharm. Sci and Res.* Vol. 8: 2607-2611. **Citation-0**
- ❖ Kumari R., J.S. Singh and **D. P Singh*** (2017) Biogenic synthesis and spatial distribution of silver nanoparticles in the legume mungbean plant (*Vigna radiata* L.). *Plant Physiol. Biochem.* 110: 158- 166. **IF- 2.928, Citation-1**
- ❖ Kumari R., M. Barsainya and **D.P. Singh*** (2017) Biogenic synthesis of silver nanoparticle by using secondary metabolites from *Pseudomonas aeruginosa* DM1 and its anti-algal effect on *Chlorella vulgaris* and *Chlorella pyrenoidosa*. *Environ. Sci. Poll. Res.* 24: 4645–4654, **IF-2.76, Citation-0**
- ❖ Chandra P., Abhay P. Rawat and **D.P. Singh*** (2017) Isolation of alkaliphilic bacterium *Citricoccus alkalitolerans* CSB1: An efficient biosorbent for bioremediation of tannery waste water. *Cell. Mol. Biol.* 62:3. DOI:10.4172/1165-158X.1000135. **IF-0.95, Citations-0**
- ❖ Jyoti S. and **Singh D.P*** (2017) Production of secondary metabolites from two penicillium strains adapted to different temperature conditions: A study on differential response of fungal strains to temperature stress. *Cell. Mol. Biol.* 62:3. DOI:10.4172/1165-158X.1000136. **IF-0.95, Citations-0**
- ❖ Vishnoi N., Dixit S and **Singh D. P. *** (2016) Differential pattern of arsenic binding by the cell wall in two arsenic tolerant bacillus strains isolated from arsenic contaminated soil. *Cell. Mol. Biol.* 62:3. DOI:10.4172/1165-158X.1000138. **IF-0.95, Citations-0**
- ❖ Kumari, B. and **D P Singh*** (2016) A review on multifaceted application of nanoparticles in the field of bioremediation of petroleum hydrocarbons. *Ecol. Engineering* 97, 98–105. **IF- 2.914, Citations-6**
- ❖ Barsainya M. and **D P Singh*** (2016) Effect of secondary metabolites produced by *Pseudomonas aeruginosa* in suppression of root rot of green Gram (*Vigna radiate* L.) in salinized soil. *Asian Jr. of Microbiol. Biotech. Env. Sc.* 18 (2) : 227-237. **Citations-0**
- ❖ Barsainya M., Prem Chandra and **D. P. Singh*** (2016) Investigation of Cr (VI) Uptake in Saline Condition Using Psychrophilic and Mesophilic

Penicillium sp. *Int. J. Curr. Microbiol. App. Sci* 5(1): 274-288. **IF- 0.65 Citations-2**

- ❖ Singh J.S. *, Arun Kumar, A. N. Rai and **D.P. Singh** (2016) Cyanobacteria: A precious bio-resource in agriculture, ecosystem and environmental sustainability. *Frontiers in Microbiology*. <http://dx.doi.org/10.3389/fmicb.2016.00529> **IF 4.565, Citations-27**
- ❖ Arun, N. * and **D P Singh** (2016) A review on pharmacological applications of halophilic alga *Dunaliella*. *Ind. J. Geo-Marine Science*. 45:440-447. **IF-0.40, Citations-0**
- ❖ Dwivedi G*. R, Sanchita, **D.P. Singh**, Sharma A, Darokar M.P., S.K. Srivastava (2016). Nano Particles: Emerging Warheads against Bacterial Superbugs, *Current topics in Medicinal chemistry*, 16, 1963-1975. **IF 3.402, Citations – 2.**
- ❖ Pathak V.K, Kothari R. *, Chopra A.K. and Singh D.P. (2015) Experimental and kinetic studies for phycoremediation and dye removal of *Chlorella pyrenoidosa* from textile wastewater. *Journal of Environmental Management* 163, 270-277. **IF-. 4.1, Citations-12**
- ❖ Yaqoob A.*, M. Yunus, G. A. Bhat, **D.P. Singh** (2015) Phytodiversity and seasonal Variations in the Soil Characteristics of Shrublands of Dachigam National Park, Jammu and Kashmir, India. *Climate Change and Environ. Sustainability*, 3(2): 1370-143 **Citations-0**
- ❖ Kumari B., S.N. Singh* and **D.P. Singh** (2015). Induced degradation of crude oil mediated by microbial augmentation and bulking agents. *Int J. Environ. Sci. Tech.*13 (4): 1029-1042 **IF-2.344. Citation Index-04**
- ❖ Kumar R., V.K. Jaiswal*, R. Kothari, S.K. Singh and D.P. Singh (2015) Emerging trends of solar cooling in India : A review. *HCTL Open Int. J. of Technol Innovat. and Res*, 14: e-ISSN: 2321-1814 <http://ijtir.hctl.org/> **Citations-0**
- ❖ Tiwari S., J.S. Singh* and **D.P. Singh** (2015) Methanotrophs and methane sink: Effect of human activity and ecological perturbations. *Climate Change and Environmental Sustainability* 3(1), 35-50. **Citation indices – 9**
- ❖ Dixit S. and **D.P. Singh*** (2015) Differential response of Photosynthetic apparatus of cyanobacterium *Nostoc muscorum* against Pb and Cd toxicity. *Photosynthetica* 53(2), 223-230: **IF- 1.409, Citations– 0**
- ❖ Singh Shailza*, **D.P. Singh** and Nandita Singh (2014). Effect of Arsenic Exposure on *Triticumaestivum* L. Genotypes: Evaluation of Arsenic

Accumulation in Contrasting Genotype of India. Int. Res. Journal of Environmental Sciences 3(11), 11-17. **Citations-2**

- ❖ Kumari B.*, S. Rajput, P. Gaur, S.N. Singh and **D.P. Singh** (2014). Biodegradation of Pyrene and Phenanthrene by Consortium and Evaluation of Role of Surfactant. Cell. Mol. Biol. 60(5):21-26. **IF-0.95, Citations-13.**
- ❖ Vishnoi N. and **D.P. Singh*** (2014). Biotransformation of arsenic by bacterial strains mediated by oxido-reductase enzyme system. Cell. Mol. Biol. 60(5):7-14. **IF-0.95, Citations-9**
- ❖ Singh Shailza*, **D.P. Singh** and Nandita Singh (2014). Arsenic Accumulation in Rice (*Oryza Sativa L.*) Genotype of India. Research J. Chemical Sciences 4 (11): 45-50. **Citations-0**
- ❖ Dixit S. and **D.P.Singh*** (2014) Role of free living, immobilized and non-viable biomass of *Nostoc muscorum* in removal of heavy metals: An Impact of physiological state of biosorbent. Cell. Mol. Biol. 60(5):104-112. **IF-0.95, Citations-15.**
- ❖ Pathak, V.V., **D.P.Singh**, R. Kothari* and A.K. Chopra (2014). Phycoremediation of Textile Wastewater by Unicellular Microalga *Chlorella pyrenoidosa*. Cell. Mol. Biol. 60(5): 32-36. **IF-0.95, Citations-15**
- ❖ Arun, N., Vidhyalaxmi and **D.P Singh*** (2014). Chromium (VI) induced oxidative stress in halotolerant alga *Dunaliellasalina* and *D. tertiolecta* isolated from Sambhar salt lake of Rajasthan (India). Cell. Mol. Biol. 60(5):84-90. **IF-0.95, Citations-15.**
- ❖ Chandra,P. and **D.P. Singh*** (2014). Removal of Cr (VI) by a halotolerant bacterium *Halomonas* sp. CSB 5 isolated from Sambhar Salt Lake Rajasthan (India). Cell. Mol. Biol. 60(5): 58-66. **IF-0.95, Citations-10**
- ❖ Vishnoi, N., Sonal Dixit and **D P Singh*** (2014) Surface binding and Intracellular uptake of Arsenic in bacteria isolated from arsenic contaminated site. Ecological Engineering, 73: 569-578. **IF- 2.914, Citations-2**
- ❖ Chandra p., M. Barsainya, **D. P. Singh*** (2014) A Fourier Transform Infrared (FTIR) spectroscopic study on cellular changes in the *Marinococcusluteus* SSLB1 under different salinity regime. Int. J. Pharma and Bioscience, 5 (4): 848-854. **Citations-2**
- ❖ Pandey V.C.*, N Singh, R P Singh, **D. P. Singh** (2014) Rhizoremediation potential of spontaneously grown *Typhalatifolia* on fly ash basins : Study from the field. Ecological Engineering, 71: 722-727 **IF- 2.914, Citations-15**
- ❖ Kumar N.*, K. Baudh, S Kumar, N. Dwivedi, **D.P. Singh** and S C Barman (2014) Toxicity Assessment and Accumulation of metals in Radish irrigated

with Battery manufacturing Industry Effluent. Int J. Vegetable Science **doi: 10.1080/19315260.2014.880771) Citations-0**

- ❖ Pandey V.C.*, J.S. Singh, **D P Singh** and R P Singh (2014) Methanotrophs: Promising bacteria for Environmental Remediation. International Journal of Environmental Science and Technology 11:241-250. IF- 2.344, Citations-17
- ❖ Dixit S. and **D.P. Singh*** (2014) An evaluation of phycoremediation potential of cyanobacterium *Nostoc muscorum*: Characterization of heavy metal removal efficiency. J. Applied Phycology, 26, 1331-1342 (DOI: 10.1007/s10811-013-0145-x) **IF- 2.616, Citations-17**
- ❖ Singh J.S.* and **D.P. Singh** (2014) Impact of Anthropogenic disturbances on methanotrophs abundance in dry tropical forest ecosystems, India Exp. Opinion on Environ. Biology. 01/2014 DOI:10.4172/2325-9655.1000106. **IF- 0, Citations-11**
- ❖ Kumar N.*, K. Baudh, S Kumar, N. Dwivedi, **D.P. Singh** and S C Barman (2014) Toxicity Assessment of flash light manufacturing Industry effluent by bioassay test in Methi (*Trigonella foenumgracum*) J. Environ. Biology, 35(6), 1107-1113. **IF- 0.56, Citations-2**
- ❖ Upadhyay S.K.* and **D. P. Singh** (2014) Effect of Salt tolerant-PGPRs on wheat plant and soil health under saline environment. Plant Biology, 17: 289-293 (On line, doi10.1111/plb.12173). **IF- 2.16, Citations-19**
- ❖ Gangwar R.K., Jaspal Singh*, A P Singh and **D P Singh** (2013) Assessment of Water Quality Index : A case study of river Ram Ganga at Bareilly, U.P., India. Int. J. Scientific and Eng. Research, 4 (9), 2325-2329 . **Citations-3**
- ❖ Kumar N.*, K. Baudh, S Kumar, N. Dwivedi, **D.P. Singh** and S C Barman (2013) Accumulation of metals in weed species grown on the soil contaminated with Industrial waste and their phytoremediation potential. Ecological Engineering 61, 491-495. **IF- 2.914, Citations-35**
- ❖ Kothari R.*, V Karela, Virendra Kumar and **D P Singh** (2013) Production of biodiesel from microalgae *Chlamydomonas polypyrenoideum* grown on dairy industry wastewater. Bioresource Technology 144 : 499–503.**IF- 5.31, Citations- 38**
- ❖ Kumari, B., S.N. Singh*, F. Deeba, M. Sharma, V. Pandey and **D.P. Singh** (2013) Elucidation of pyrene degradation pathway in bacteria. Advances in Bioresearch. 4 [2] 151-160. ISSN 0976-4585. **IF-0.36, Citations-8**
- ❖ Arun, N.* and **D.P. Singh** (2013) Differential response of *Dunaliella salina* and *Dunaliella tertiolecta* isolated from brines of Sambhar salt Lake of

Rajasthan (India): A study on growth, pigment and glycerol synthesis. J. Mar. Biol. Assoc. India, 55(1) 65-70. **IF- 0.35, Citations-8**

- ❖ Dixit S. and **D.P. Singh*** (2013) Phycoremediation of lead and cadmium by employing *Nostoc muscorum* as biosorbent and optimization of its biosorption potential. Int. J. Phytoremed. 15 (8), 801-813. **IF- 2.084, Citations-14**
- ❖ Kumar N.*, Bauddh K., Kumar S., Dwivedi N., **Singh, D.P.** and Barman, S.C. (2013). Extractability and phytotoxicity of heavy metals present in petrochemical industry sludge. Clean Technologies and Environmental Policy, 15 (6), 1033-1039. **IF- 3.33, Citations-13**
- ❖ Vishnoi N., Sonal Dixit and **D.P. Singh*** (2013) Phytotoxic effects of leachates of Industrial solid waste on the growth of Pea (*Pisum sativum* L.). J. Environ. Biol. 34, 651- 656. **IF- 0.56, Citations-0**
- ❖ Upadhyay, S.K.*, Maurya, S.K. and **Singh, D.P.** (2012) Salinity tolerance in free living plant growth promoting Rhizobacteria. Ind. J. Scientific Research 3(2) : 73-78, **IF-0.31, Citations-12**
- ❖ Kumari B.*, S.N. Singh and **D.P. Singh** (2012) Characterization of two biosurfactant producing strains in crude oil degradation. Process Biochemistry 47(12), 2463-2471. **IF- 2.49, Citations-52**
- ❖ Singh J.S.* and **D.P. Singh** (2012) Potential approach to mitigate excess atmospheric CH₄ build up. Ecological Management & Restoration, 13: 245-248. **IF-1.2, Citations-11**
- ❖ Kumar N.*, K. Bauddh, N. Dwivedi, S.C. Barman and **D.P. Singh** (2012) Accumulation of metals in selected macrophytes grown in mixture of drain water and tannery effluent and their phytoremedial potential. J. Environ. Biology 33, 923-927. **IF- 0.56, Citations- 26**
- ❖ Kothari R.*, V P Pathak and **D.P. Singh** (2012) Experimental study for growth potential *Chlorella pyrenoidosa* on dairy waste: An integrated approach for treatment and biofuel production. Bioresource Technol., 116, 466-470. **IF-5.31, Citations-70**
- ❖ Arun N.* and **D.P. Singh** (2012) *Punica granatum*: A review on Pharmacological and therapeutic properties. Int. J. Pharm. Sciences and Research Vol. 3, 1240-1245. **Citations- 33**
- ❖ Arun N.*, Shalini Gupta and **D.P. Singh** (2012) Antimicrobial and antioxidant property of commonly found microalgae *Spirulina platensis*, *Nostoc muscorum* and *Chlorella pyrenoidosa* against some pathogenic

bacteria and fungi. Int. J. Pharm. Science and Res. 3(12), 4866-4875.

Citations-10

- ❖ Kothari R.*, **D.P. Singh**, V V Tyagi and S.K. Tyagi (2012) Fermentative hydrogen production – An alternative clean energy source. Renewable and Sustainable Energy Reviews, 16, 2337– 2346. **IF- 3 Citations- 66**
- ❖ Arun N.* and **D.P. Singh** (2012) Microalgae: The Future Fuel (review)J. Algal Biomass Utln., 3 (1): 46 – 54. **Citations- 7**
- ❖ Chandra, P., Neha Vishnoi and **D.P. Singh*** (2012) Assessment of Fluoride Contamination of Water and Soil and its Phytotoxic Effect on the Growth Parameters in Selected Vegetable Crops. Global Journal of Appl. Env. Sciences, 2 (1), 55-65. **Citations- 0**
- ❖ Upadhyay S.K.*, J.S. Singh, A.K. Saxena and **D.P. Singh** (2012) Impact of PGPR inoculation on growth and antioxidant status of wheat plant under saline condition. Plant Biology 14, 605-611. **IF- 2.216, Citations-72**
- ❖ Singh J.S.*, **D. P. Singh** and R.K. Gupta (2011). Genetically modified plants: Benefits and environmental problems. The Scientific Temper 2, 1-8. **IF- 0, Citation Indices-0**
- ❖ Yadav V.S.*, K.P. Mishra and **D.P. Singh** (2011) Curcumin inhibits Jurkat cell proliferation by inducing a 32-35poptosis via activation-induced cell death. Biomedicine & Preventive Nutrition.1 32-35. **IF- 0, Citations- 04**
- ❖ Singh, J.S.*, P.C. Abhilash, H.B. Singh, R. P. Singh, **D. P. Singh** (2011). Genetically engineered bacteria: an emerging tool for environmental remediation and future research perspectives. Gene, 480, 1-9. **IF-2.319, Citations-104**
- ❖ Singh J.S.*, V. C. Pandey, **D.P. Singh** (2011) Coal fly ash and farmyard manure amendments in dry-land paddy agriculture field: Effect on N-dynamics and paddy productivity. Applied Soil Ecology 47, 133–140. **IF- 2.670, Citations- 38**
- ❖ Veena Sagar* and **D.P. Singh** (2011) Biodegradation of Lindane pesticide by non-white rot fungus *Fusarium sp.* World J. Microbiol. Biotechnol. 27, 1747-1754. **IF-1.532, Citations- 24**
- ❖ Singh J.S.*, V. C. Pandey and **D.P. Singh** (2011). Efficient soil microorganisms: A new dimension for sustainable agriculture and environment development. Agriculture Ecosystem and Environment 140: 339-353. **IF – 2.859, Citations- 272**

- ❖ Upadhyay S.K.*, J. S. Singh and **D.P. Singh** (2011) Exopolysaccharide producing Plant Growth Promoting Rhizobacteria under Salinity Condition. *Pedosphere* 21, 214-222. **IF- 1.535, Citations-80**
- ❖ Singh J.S.*, V. C. Pandey, **D.P. Singh** and R.P. Singh (2010). Influence of pyrite and farmyard manure on population dynamics of soil methanotroph and rice yield in saline rain-fed paddy field. *Agriculture Ecosystem & Environment* 139, 74-79. **IF- 2.85, Citations-32**
- ❖ Singh J.S.*, **D.P. Singh** and A.K. Kashyap (2010). Microbial Biomass C, N and P in disturbed dry tropical forest soils, India. *Pedosphere* 20, 780-788. **IF- 1.535, Citations-24**
- ❖ Singh R., **Singh, D.P.**, Kumar, N.*, Bhargava, S.K. and Barman, S.C. (2010) Accumulation and translocation of heavy metals in soil and plants from fly ash contaminated area. *Journal of Environmental Biology*, 31, 421-430. **IF- 0.56, Citations- 134**
- ❖ Kumar N.*, S. Kumar, K, Baudhdh, N. Dwivedi, K.A. Singh and **D.P. Singh** (2009) Phytotoxicity of Industrial effluent to *Raphnus sativus* L. and *Trigonella foenugracum* L. *J. Ecophysiol. Occup. Hlth.* 9, 163-169. **Citations- 05**
- ❖ Upadhyay S K.*, **D. P. Singh** and R. Saikia (2009), Genetic Diversity of Plant Growth Promoting Rhizobacteria Isolated from Rhizospheric Soil of Wheat Under Saline Condition, *Current Microbiology*, 59: 489-496. **IF- 1.519, Citations-105**
- ❖ Kshatriya K, J.S. Singh, and **Singh, D.P.*** (2009). Salt tolerant mutant of *Anabaena doliolum* exhibiting efficient ammonium uptake and assimilation. *Physiol. Mol. Biol. Plants* 15, 377-381. **IF- 1.351, Citations-02**
- ❖ Singh N*, Poonia S, Maurya A.K and **Singh D.P** (2009) Antibiotic sensitivity assay for *Spirulina* : In relation to marker selection for genetic improvement. *Int. J. Plant Sciences* 4: 403- 408. **IF- 1.54, Citations-01**
- ❖ Singh J.S.*, **D.P. Singh** and A.K. Kashyap (2009) A comparative account of the microbial biomass-N and N-mineralization of soils under natural forest, grassland and crop field from dry tropical region, India. *Plant Soil and Environment* 55, 181-186. **IF- 1.11, Citations-19**
- ❖ Narendra Kumar*, Kuldeep Baudhdh, Ramesh Singh, K. Anand, S.C. Barman, and **D.P. Singh** (2009) Phytotoxicity of trace metals (Cu & Cd) to Gram (*Cicer arietinum*) and Mung (*Phaseolus mungo*). *J. Ecophys. Occup. Hlth.* 9: 59-65. **Citations-09**

- ❖ Ansari F.A., **D.P. Singh**, A.H. Khan., G.C. Kisku., M. Ashquin., I. Ahmad., M. Yunus., and Q. Rahman.*, (2008). Physico-chemical characteristics of spent-wash of distillery factory. **Poll. Res.** **27(1)**, 105-108. **Citations- 0**
- ❖ Yadav, V.S.*, Mishra, K.P., **Singh, D.P.**, Mehrotra, S. and Singh, V.K. (2005) Immunomodulatory effects of Curcumin. *Immunopharmacol. Immunotoxicol.* **27**, 485-497. **IF- 1.36, Citations- 121**
- ❖ Singh, N. and **D.P. Singh*** (2004) Primary Mode of fly-ash toxicity in the photoautotrophic microorganism *Anabaena doliolum*. *Indian J. Env. & Ecoplanning* **8**, 1-4. **Citations- 0**
- ❖ Shikha*, **D.P. Singh** and N.S. Dharmwal (2004) Effect of Glyphosate on nitrogen assimilatory system in wild type and mutant strain of *Anabaena doliolum*. *Ind. J. Microbiology* **44 (2)**, 85-89. **IF- 0.46, Citations-0**
- ❖ Shikha*, **D.P. Singh** and N.S. Dharmwal (2004) Effect of Glyphosate toxicity on growth, pigment and alkaline- phosphatase activity in the cyanobacterium *Anabaena doliolum*: A role of inorganic phosphate in the glyphosate tolerance. *Ind. J. Exp. Biol.* **42**, 208-213. **IF- 1.34, Citations- 06**
- ❖ Shikha*, **D.P. Singh** and N.S. Dharmwal (2004) Influence of Glyphosate on photosynthetic properties of wild type and mutant strains of cyanobacterium *Anabaena doliolum*. *Current Science* **86 (4)**, 571-576. **IF- 0.965, Citations-8**
- ❖ **Singh, D.P.*** and K, Kshatriya (2003) Characterization of salinity tolerant mutant of *Anabaena doliolum* exhibiting multiple stress tolerance. *Current Microbiol.* **45 (3)** 165-170. **IF- 1.519, Citations-04**
- ❖ **Singh, D.P.*** and K, Kshatriya (2002) NaCl induced oxidative damage in the cyanobacterium *Anabaena doliolum*. *Current Microbiol.* **44 (6)**: 411-417. **IF- 1.519, Citations-21**
- ❖ Sharma, S.K.*, **D.P. Singh**, H.D. Shukla, A. Ahmad and P.S. Bisen (2001) Influence of sodium ion on heavy metal-induced inhibition of light regulated proton efflux and active carbon uptake in the cyanobacterium *Anabaena flos-aquae*. *World J. Microbiol. & Biotechn.* **17**: 707-711. **IF- 1.532, Citations-03**
- ❖ **Singh, D.P.*** and Namita Singh (2000) Calcium and Phosphate regulation of nitrogen metabolism in the cyanobacterium *Spirulina platensis* under the high light stress. *Current Microbiol.*, **41**, 368-373. **IF- 1.519, Citations-04**
- ❖ **Singh, D.P.***, N. Singh and K. Kshatriya (1998) NaCl induced alteration in the membrane properties of cyanobacterium *Spirulina platensis* grown at high and low temperature: Effect on nitrate uptake, lipid peroxidation and

membrane permeability. *Physiol. Mole. Biol.Plants.* 4, 39-45. **IF- 1.351.**
Citations- 2

- ❖ **Singh, D.P.*** and N. Singh (1997) Isolation and characterization of metronidazole tolerant mutant of the cyanobacterium *Spirulina platensis* exhibiting multiple stress tolerance. *World J. Microbiol. & Biotech.* 13, 179-183. **IF- 1.532, Citations-27**
- ❖ **Singh, D.P.*** and K. Verma (1996) Differential regulation of nitrogen metabolism in the wild type and high-light -tolerant mutant cells of *Anacystis nidulans*. *Current Microbiology* 32, 272-278. **IF- 1.519, Citations-2**
- ❖ **Singh, D.P.*** and K.Verma (1995) Response of the wild type and high light-tolerant mutant of *Anacystis nidulans* against photooxidative damage. Differential mechanism of high light tolerance. *Photochem. and Photobiol.* 62, 314-319. **IF- 2.008, Citations-11**
- ❖ **Singh, D.P.***, Neeraj Singh and K.Verma (1995) Photooxidative damage to the cyanobacterium *Spirulina platensis* mediated by singlet oxygen. *Curr. Microbiology* 31, 44-48. **IF- 1.519, Citations-28**
- ❖ **Singh, D.P.*** and K. Verma (1994) Characterization of temperature induced changes in the photosynthetic properties of *Anacystis nidulans* grown at elevated temperature: A differential response to heat shock. *J. Basic Microbiol.* 34, 37-47. **IF- 1.22, Citations-02**
- ❖ **Singh, D.P.***, S.K. Sharma and P.S. Bisen (1993) Differential action of Hg^{2+} and Cd^{2+} on the Phycobilisomes and Chlorophyll *a* fluorescence and Photosystem II dependent electron transport in the cyanobacterium *Anabaena flos-aquae* . *Biometals* 6, 125-132. **IF- 3.28, Citations-06**
- ❖ **Singh, D.P.***, R. Gothalwal and P.S. Bisen (1992) Action of sodium diethyl-dithiocarbamate (NaDDC) on the Hill activity and chlorophyll fluorescence in *Anacystis nidulans* IU 625. *J. Basic Microb.* 32, 119-128. **IF- 1.585, Citations- 0**
- ❖ **Singh, D.P.***, R. Gothalwal and P.S. Bisen (1989) Toxicity of sodium diethyl-dithiocarbamate (NaDDC) on photoautotrophic growth of *Anacystisnidulans* IU 625. *J. Basic Microbiol.* 29, 685-694. **IF- 1.585, Citations-05**
- ❖ **Singh, D.P.**, P. Khare and P.S. Bisen* (1989) Effect of Ni^{2+} , Hg^{2+} and Cu^{2+} on growth, Oxygen evolution and Photosynthetic electron transport in *Cylindrospermum* IU 942. *J. Plant Physiol.* 134, 406-412. **IF- 2.971, Citations-55**

- ❖ Bisen, P.S.*, S. Audholia, H.D. Shukla, A. Gupta and **D.P. Singh** (1988) Evidence for photosynthetic independence of viral multiplication in cyanophage LPP-1 infected cyanobacterium *Phormidium uncinatum*. FEMS Microb. Lett. 52, 225-228. **IF- 1.858, Citations-07**
- ❖ **Singh, D.P.*** and S.P. Singh (1987) Action of heavy metals on Hill activity and O₂ evolution in *Anacystis nidulans*. Plant Physiol. 83, 12-14. **IF- 6.280, Citations-100**
- ❖ **Singh, D.P.*** (1986) Nitrate Transport in the mutants of *Anacystis nidulans* exhibiting alterations in cyanophage AS-1 adsorption, methylene-blue uptake and drug sensitivity. Biol. Zentralbl. 105, 531-537. **Citations-01**
- ❖ **Singh, D.P.*** (1986) Mn²⁺ Transport in the unicellular cyanobacterium *Anacystis nidulans*. J. Basic Microb. 26, 161- 168. **IF- 1.585. Citations- 0**
- ❖ Kashyap, A.K.* and **D.P. Singh** (1985) Ammonium transport in the unicellular cyanobacterium *Anacystis nidulans*. J. Plant Physiol. 121, 319-330. **IF- 3.1, Citation Indices-09**
- ❖ **Singh, D.P.*** and A.K. Kashyap (1985) Nitrite Transport in the unicellular cyanobacterium *Anacystis nidulans*. Biochem. Physiol. Pflanzen. **181**, 623-631. **Citations- 0**
- ❖ **Singh, D.P.*** (1985) Cu²⁺ Transport in the unicellular cyanobacterium *Anacystis nidulans*. J. Gen. Appl. Microbiol. **31**, 277-284. **IF- 0.74, Citations-24**

3. Book Chapters/ Reviews

- ❖ **Singh, D.P.**, R. Goyal and S.K. Sharma (1993) Photoregulation of compositional alteration in the cyanobacterial photosystems (PS I/PS II). *In* : Frontiers in Microbial Technology (Ed. P.S. Bisen). CBS Publishers and Distributors, New Delhi (India), pp. 260-264.
- ❖ **Singh, D.P.** (1993) Heavy metals and Photochemistry of Photosynthetic Membranes. *In*: Frontiers in Microbial Technology (Ed. P.S. Bisen), CBS Publishers and Distributors, New Delhi (India), pp. 247-255.
- ❖ **Singh, D.P.** (2003) Vermiculture Biotechnology and Biocomposting In: Environmental Microbiology & Biotechnology (eds. Singh, D.P. and Dwivedi, S.K.), New Age Int. (P) Ltd. New Delhi.
- ❖ **Singh, D.P.** and S.K. Dwivedi (2004) Environmental Perspectives of Microbiology and biotechnology In: Environmental Microbiology and Biotechnology (Eds. Singh, DP and Dwivedi, SK) New Age Int. (P) Ltd., New Delhi pp. 1-9

- ❖ **Singh, D.P.** (2005) Oxidative Stress In: Physiology of Abiotic Stresses (Eds. Dwivedi, P. and Dwivedi, R.S.) Agrobios, Jodhpur (India). Pp 309-324
- ❖ Prem Chand, **D.P. Singh**, G. Pandey (2007) Isolation and assessment of biodeteriorative ability of chrome resistant bacteria from tannery effluent. In: Proceedings of National conference on Civil Engineering and Technology: Emerging frontiers (BHU, Varanasi). p. 102-118.
- ❖ **Singh, D.P.** and V. Dutta (2007) Vermiculture Biotechnology: An overview. In: Biodiversity and Environmental Biotechnology (Eds. P. Dwivedi, S.K. Dwivedi and M.C. Kalita), Scientific publishers, Jodhpur. pp 541-553.
- ❖ Singh, R.P., M. Saingar, **Singh, D.P.** and Jaiwal, P.K. (2008) Nitrate and Ammonium Transporters in Plants In: Plant Membrane and Vacuolar Transporters (Eds, Jaiwal, P.K., Singh, R.P. and Dhankher, O.P.) CAB International (U.S.A.). pp. 83-103.
- ❖ R. Kothari, **D.P. Singh**, V. V. Tyagi (2010). A review of sustainable approach for bio-hydrogen production from industrial waste water, international conference on clean energy technologies and energy efficiency for sustainable development, ENERSTATE-2010, Uttarakhand Technical University (Dehradun), India.
- ❖ Singh, J. S, **Singh, D.P** and Dixit, S. (2012) Cynobacteria: An agent of heavy metal removal In: Bioremediation of Pollutants (Eds. D.K. Maheshwari and R.C. Dubey), I K International Publisher Co. New Delhi. Pp 223-243
- ❖ J.S. Singh and **D.P. Singh** (2012) Structure and mechanism of action of some selected bacterial toxins. In: Microbial Toxins and Toxigenic Microbes (Eds. V.D. Pandey and S.K. Singh), Studium Press LLC, Houston, Texas (USA). Pp 121-139.
- ❖ J. S. Singh and **D.P. Singh** (2012) Plant Growth Promoting Rhizobacteria (PGPR): Microbes in sustainable agriculture In: Management of Microbial Resources in Environment (Eds. A. Malik, E. Grohmann, M. Alves), Springer, Germany.
- ❖ NeetuVerma, Richa Kothari, Tanu Allen and **D.P. Singh** (2013) Assessment of lipid productivity of *Chlamydomonaspolypyrenoideum* cultured in tannery industry wastewater In: Recent Advances in Bioenergy Research Vol. II (Eds. Sachin Kumar and S.K. Tyagi) Electronic version published by SSS-NIRE (ISBN-978-81-927097-1-0) pp 332-337
- ❖ Ranjan Singh, **D.P. Singh**, Y. Bandhu, V.V. Tyagi and V. Dutta (2015) Climate Change mitigation and adaptation strategies: A review of policy

options. In : Science, technology and Innovation for Inclusive Growth. Pp. 359-367.

- ❖ Sonal Dixit and **D.P. Singh** (2015). Phycoremediation: Future perspective of Green Technology. In: Algae & Environmental Sustainability (Eds. B. Singh, K. Baudh, F. Bux) Springer (India) Pvt. Ltd. pp-9-21.
- ❖ Shobhit R. Vimal, J. S. Singh, Naveen K. Arora and **D.P. Singh** (2015). PGPR: An Effective Bio-Agent in Stress Agricultural Management. In: Microbial Empowerment in Agriculture: A key to Sustainability and Crop Productivity. (Eds: B.K. Sharma and A. Singh). Biotech Books, New Delhi, pp-81-108.
- ❖ Jyoti and **D.P. Singh** (2016). Fungi as Biocontrol agents for sustainable agriculture. In: Microbes in Sustainable Management of Soil, Water and Agriculture. (Eds: J.S. Singh and D.P. Singh) Studium press (India) Pvt. Ltd. pp-168-170.
- ❖ N. Gupta and **D.P. Singh** (2016). Low cost production of Algal Biofuel from wastewater & technological limitations. In: Emerging energy alternatives for sustainable environment. (Eds: V. Tyagi, R. Kothari and D.P. Singh). TERI Press. pp-211-238.
- ❖ S.K. Upadhyay, G. Singh, **D.P. Singh**. (2016). Mechanism and Understanding of PGPR: An Approach for Sustainable Agriculture under Abiotic Stresses. (Eds: J.S. Singh and D.P. Singh) Studium press (India) Pvt. Ltd. pp-225- 254. ISBN: 978-93-80012-83-4
- ❖ Suman Upadhyaya, Shashank Tiwari, N.K. Arora, **D. P. Singh**. (2016). Microbial Protein: A Valuable Component for Future Food Security. (Eds: J.S. Singh and D.P. Singh) Studium press (India) Pvt. Ltd. pp-255-275. ISBN: 978-93-80012-83-4
- ❖ Atin Kumar Pathak, Richa Kothari, Harmohan Singh, Saubhagya Singh, V.V. Tyagi, **D.P. Singh**. (2016). Microbes: A Viable Mean for Wastewater Treatment and Source of Bioenergy. (Eds: J.S. Singh and D.P. Singh) Studium press (India) Pvt. Ltd. pp-276-302. ISBN: 978-93-80012-83-4
- ❖ Vijay. K. Jaiswal, V.V. Tyagi, Richa Kothari, **D.P. Singh**, S. K. Samdrshi. (2016). Role and initiatives of Indian government policies for growth of wind energy sectors. TERI Press. Pp. 99- 118. ISBN: 9788- 1799-34111.
- ❖ Babita Kumari, **D.P. Singh**. (2016). Insite microbial degradation of PAHs in soil. (Eds: J.S. Singh and D.P. Singh) Studium press (India) Pvt. Ltd. pp-21-42. ISBN: 978-93-80012-83-4

- ❖ Sonal Dixit, Richa Kothari, **D.P. Singh**. (2016). Vermicomposting: A Potential Tool for Sustainable Management of Solid Waste. In: Emerging energy alternatives for sustainable environment. (Eds: V. Tyagi ,R.Kothari and D.P. Singh). TERI Press. pp-329- 354. ISBN: 9788- 1799- 34111
- ❖ Alok Rai, Richa Kothari, **D.P. Singh**. (2016). Assessment of available technologies for hospital waste management: need for society. In: IGI Publishing House, USA (Ed: Rajeev P. Singh and Vaibhav Srivastava).
- ❖ Rima Kumari and **D.P. Singh**, 2016, Silver Nanoparticle in Agroecosystem: Applicability on plant and risk benefit Assessment. A. Singh, S.M. Prasad, R.P. Singh (Eds) Plant responses to xenobiotics, ISBN no. 978-981-10-2859-5, pp 293-305
- ❖ Gaurav Raj Dwivedi, **D.P. Singh**, Sanchita, Ashok Sharma, MahendraPandurangDarokar. (2016). Efflux pumps: War heads of Gram Negative Bacteria and Efflux Pump Inhibitors. New approaches in Biological Science. (In press)
- ❖ Jay Shankar Singh, **D.P.Singh** (2017) Methanotrophs: An Emerging Bioremediation Tool with Unique Broad Spectrum Methane Monooxygenase (MMO) Enzyme. In: *Agro-Environmental Sustainability*, (Eds: J.S.Singh and G. Seneviratne). Springer international publishing AG 2017. DOI 10.1007/978-3-319-49727-3_1.
- ❖ Neha Vishnoi and **D.P. Singh** (2017) Efficiency of an Industrially Important Crop *Hibiscus cannabinus* for Phytoremediation and Bioenergy Production. K. Baudhdh et al. (eds.), *Phytoremediation Potential of Bioenergy Plants*, Springer Nature Singapore Pte Ltd. DOI 10.1007/978-981-10-3084-0_9.
- ❖ AK Upadhyay¹, Ranjan Singh¹, Jay Shankar Singh², **DP Singh**^{1*} (2018). Microalgae Assisted Phyco-remediation and Energy Crisis Solution: Challenges and Opportunity. In: *New Developments in Microbial Biotechnology: Microbial Biotechnology in Agro-Environmental Sustainability* (Eds. Singh, JS and Singh, DP). Elsevier (In Press).

❖

Research Guidance

- Twenty Three Ph.D. Thesis supervised and awarded and five under-supervisions.

S. No.	Name of the Students	Name of the Inst.	Year	Title of the Ph.D. Thesis
1	Ms Kavita Verma	Dept. of Microbiology, Barkatullah University Bhopal-460026	1993	Effect of varying light condition on the cyanobacterial metabolism of <i>Anacystis nidulans</i>
2	Ms. Namita Singh	-do-	1998	Physiological and genetic regulation of stress signal in the <i>Spirulina platensis</i> under the highlight stress
3	Ms. Kavita Kshatriya	Dept. of Microbiology, Dr. RML Avadh Univ. Faizabad	1999	Effect of salinity stress on the photoautotrophic nitrogen fixing cyanobacterium <i>Anabaena doliolum</i>
4	Ms. Shikha	-do-	1999	Effect of rice field herbicide on the diazotrophic cyanobacterium <i>Anabaena doliolum</i> "
5	V. S. Yadava	Dept. of Env. Science B.B. A. University, Lucknow	2007	Immunomodulation by selected plant products
6	Ramesh Singh	-do-	2007	Response of plants to industrial effluents: Factors influencing the phytoremediation"
7	Jaspal Singh	-do-	2009	A study on the stress response of N ₂ -fixing Cyanobacterium <i>Nostoc muscorum</i> against Organotin Toxicity
8	S.K. Upadhyay	-do-	2010	Study on the plant growth promoting salt tolerant Rhizosphere bacteria in wheat crop
9	Narendra Kumar	-do-	2010	"Selection of tolerant plant species to Industrial waste: An ecofriendly approach for cleaning the environment
10	Veena Sagar	-do-	2012	"Dynamics of Microbial degradation pesticide (γ -HCH or lindane) and the factors regulating the degradation kinetics"
11	Sonal Dixit	do-	2012	Remediation of heavy metal polluted water body By <i>Nostoc muscorum</i> "
12	Neha Vishnoi	-do-	2013	Assessment of Arsenic toxicity and its detoxification by soil bacteria: A study on bioremediation potential of arsenic tolerant bacteria
13	Babita Kumari	-do-	2013	Investigations on bioremediation of petroleum crude oil contaminated soils

14	Annapurna Singh	-do-	2013	Combined effect of Vehicular pollutants and herbicide (2, 4-D sodium salt) on <i>Cymbopogon martini</i> (Roxb.) wats.
15	Anjali Gupta	do-	2013	Removal of arsenic from arsenic contaminated ground water using modified biopolymer
16	Neelam Arun	-do-	2014	Assessment of Biotechnological potential of halophilic algal strains of <i>Dunaliellas</i> ps. isolated from Sambhar salt lake, Rajasthan
17	Prem Chand	-do-	2014	Assessment of Bioremediation Potential of halotolerant bacteria: A study on metal detoxification mechanism”
18	Arif Yaqoob	-do-	2015	“Ecological studies of Open Scrub areas of Malik Dachigam National Park, Jammu and Kashmir
19	Nidhi Prakash	-do-	2015	Effect of vehicular emission on growth, biochemical and pharmacognisitic taitis of <i>Cymbopogon citratus</i> (DC.) staf. and <i>Mentha arvensis</i>
20	Shailza Singh	-do-	2015	Bioremediation of arsenic toxicity in Rice and Wheat
21	Richa Arya	-do-	2016	Environmental Impact Assessment : A tool in Food disaster management on some sites in Gorakhpur district
22	Manjari Barsainya	-do-	2017	Role of Secondary Metabolites produced by Stress tolerant Rhizobacterium in mitigation of abiotic and biotic stresses
23-	Jyoti	-do-	2018	Screening and Identification of Secondary metabolites produced by Stress-tolerant <i>Penicillium</i> strains under extreme environmental conditions
24-	Abhay Praksh Rawat (Submitted)	-do-	2018	Application of Mentha Plant Ash derived from distilled <i>Mentha piperita</i> plant waste as adsorbent in removal of dyes and heavy metals from aqueous solutions

All the information given herein is true to the best of my knowledge and belief.



(Prof. D. P Singh)
Department of Environmental Science
Babasaheb Bhimrao Ambedkar University
(A Central University)
Lucknow (UP) 226025