

## Brief CV

### **Jay Shankar Singh** *PhD*

Assistant Professor

**Department:** Department of Environmental Microbiology, Ambedkar University, Lucknow

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**Education:** PhD (2002), Department of Botany, Banaras Hindu University.

**Title of Thesis:** “Dynamics of N-mineralization, nitrification and viable nitrifier population size in seasonally dry tropical forest and savanna”.



### **Scholarships & Fellowships**

1. National Scholarship for B.Sc. and M.Sc.,
2. Junior Research Fellowship (JRF, Department of Botany, BHU).
3. Senior Research Fellowship (SRF, Department of Botany, BHU).

### **Positions held**

<b>SNo</b>	<b>POSITION</b>	<b>DATES</b>	<b>UNIVERSITY</b>
1.	PDF (RA, CSIR)	04/06/2003– 03/06/2008	Dept. Botany, BHU
2.	PDF (SRA, SCIENTISTS’ POOL SCHEME, CSIR)	09/07/2008–02/06/2011	Env. Sci., BBAU
3.	Assistant Professor	02/06/2011 – to-date	Env. Microbiol., BBAU

### **Projects handled**

<b>SNo</b>	<b>TITLE OF THE PROJECT</b>	<b>FUNDED BY</b>	<b>STATUS</b>	<b>NATURE OF PROJECT</b>
1.	Population dynamics of methanotrophs in dry tropical deciduous forest and savanna.	CSIR	Completed	Major
2.	Combined effect of biofertilizers and pesticides on methanotrophs population dynamics in paddy fields	CSIR	Completed	Major
3.	PCR mediated detection of methane-oxidizing bacterial diversity from dry tropical forest soils	UGC	Completed	Major

### **EDITORIAL BOARD OF REFREED JOURNALS**

1. PLoS ONE (Associate editor)
2. The Open Journal of Agriculture (Member)
3. Microbiology Research (Member)
4. Acta Scientifica (Member)
5. Climate Change and Environmental Sustainability (Associate editor)
6. International Journal of Contemporary Microbiology (Scientific Committee)

### **LIST OF BOOKS**

1. Microbes and Environmental Management (Studium Press LLC, USA, 2017).
2. Agro-environmental sustainability (Volume I: Managing Crop Health) (Springer, 2017).
3. Agro-environmental sustainability (Volume II: Managing Environmental Pollution) (Springer, 2017).
4. New and Future Developments in Microbial Biotechnology and Bioengineering: Microbial Biotechnology in Agro-Environmental Sustainability (Elsevier, 2018, In Press)


## LIST OF PUBLICATIONS ONLY IN REPUTED JOURNALS DURING 2010-2018 IN THE PROPOSED RESEARCH AREA

1. SR Vimal, VK Patel and **Jay Shankar Singh** (2018). Plant growth promoting *Curtobacterium albidum* strain SRV4: An agriculturally important microbe to alleviate salinity stress in paddy plants. *Ecological Indicators*. Article in Press (**IF=3.898**).
2. CP Singh, S Tiwari, VK Gupta and **Jay Shankar Singh** (2018). The effect of rice husk biochar on soil nutrient status, microbial biomass and paddy productivity of nutrient poor agriculture soils. *Catena* 171, 485–493. (**IF=3.256**).
3. **Jay Shankar Singh** and VK Gupta (2018) Soil microbial biomass: A key soil driver in management of ecosystem functioning. *Science of the Total Environment*. 634, 497-500 (**IF=4.900**).
4. Arun Kumar, Sumit Kaushal, Shubhini A. Saraf, **Jay Shankar Singh** (2018). Microbial bio-fuels: a solution to carbon emissions and energy crisis. *Frontiers in Bioscience (Landmark ED)* 1(23), 1789-1802. (**IF=2.484**).
5. Pankaj Tiwari and **Jay Shankar Singh**\*(2017). A plant growth promoting rhizospheric *Pseudomonas aeruginosa* strain inhibits seed germination in *Triticum aestivum* (L) and *Zea mays* (L). *Microbiology Research* 8, 1-7.
6. S.R. Vimal, **Jay Shankar Singh**, N.K. Arora, Surendra Singh (2017). Soil-plant-microbe interactions in stressed agriculture management: A review. *Pedosphere* 27, 177-192. (**IF=1.734**)
7. **Jay Shankar Singh**, Sumit Kaushal, Arun Kumar, Shobhit R Vimal, VK Gupta (2016). Book Review: Microbial Inoculants in Sustainable Agricultural Productivity- Vol. II: Functional Application. *Frontiers in Microbiology* 7:2015, 1-2. (**IF=4.165**).
8. **Jay Shankar Singh**, PC Abhilash and VK Gupta (2016). Agriculturally important microbes in sustainable food production. *Trends in Biotechnology* 34(10): 773-775. (**IF=12.065**).
9. Reema Kumari, **Jay Shankar Singh** and DP Singh (2016). Biogenic synthesis and spatial distribution of silver nanoparticles in the legume mungbean plant (*Vigna radiata* L.). *Plant Physiology & Biochemistry* 110: 158-166 (**IF=2.928**).
10. **Jay Shankar Singh** and VK Gupta (2016) Degraded land restoration in reinstating CH<sub>4</sub> sink. *Frontiers in Microbiology* 7: 1-5. (**IF=4.165**).
11. **Jay Shankar Singh**, Arun Kumar, AN Rai, DP Singh (2016). Cyanobacteria: A precious bio-resource in agriculture, ecosystem and environmental sustainability. *Frontiers in Microbiology* 7: 1-19. (**IF=4.165**).
12. **Jay Shankar Singh** and PJ Strong (2016). Biologically derived fertilizer: A multifaceted bio-tool in methane mitigation. *Ecotoxicology & Environmental Safety* 124, 267–276 (**IF=2.762**).
13. **Jay Shankar Singh** (2015). Plant–microbe interactions: A viable tool for agricultural sustainability *Applied Soil Ecology* 92:45-46. (**IF=2.644**)
14. **Jay Shankar Singh** (2015). Microbes: The chief ecological engineers in reinstating equilibrium in degraded ecosystems. *Agriculture Ecosystems & Environment* 203: 80–82. (**IF=3.402**).
15. **Jay Shankar Singh** and Vimal Chandra Pandey (2013). Fly ash application in nutrient poor agriculture soils: Impact on methanotrophs population dynamics and paddy yields. *Ecotoxicology and Environmental Safety*. (**IF=3.473**).
16. Vimal Chandra Pandey, **Jay Shankar Singh**, Rana P. Singh, Bajrang Singh (2012). *Jatropha curcas*: A potential biofuel plant for sustainable environmental development. *Renewable & Sustainable Energy Reviews* 16: 2870–2883 (**IF=8.050**).
17. Sudhir Kumar Upadhyay, **Jay Shankar Singh**, Anil Kumar Saxena, Devendra Pratap Singh (2012). Impact of PGPR inoculation on growth and antioxidant status of wheat under saline conditions. *Plant Biology* 14: 605-611(**IF= 2.106**).
18. Vimal Chandra Pandey, **Jay Shankar Singh**, Rana P. Singh, Nandita Singh, M. Yunus (2011). Arsenic hazards in coal fly ash and its fate in Indian scenario. *Resources, Conservation & Recycling* 55: 819–835 (**IF: 3.313**).
19. **Jay Shankar Singh**, P.C. Abhilash, H.B. Singh, Rana P. Singh, D.P. Singh (2011). Genetically engineered bacteria: an emerging tool for environmental remediation and future research perspectives. *Gene* 480 (1-2): 1-9. (**IF: 2.415**).
20. **Jay Shankar Singh**, Vimal Chandra Pandey, D.P. Singh (2011). Efficient soil microorganisms: A new dimension for sustainable agriculture and environmental development. *Agriculture Ecosystem & Environment* 140 (3-4): 339-353. (**IF: 3.130**).
21. **Jay Shankar Singh**, Vimal Chandra Pandey and 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: 2.122**).
22. **Jay Shankar Singh**, Vimal Chandra Pandey, D.P. Singh and Rana 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: 3.130**).

**LIST OF SOME SIGNIFICANT RESEARCH PUBLICATIONS DURING LAST THREE YERS  
(2015-2018)**

SNo	Journals name	Year	Impact Factor
1.	Catena (Elsevier)	2018	<b>3.256</b>
2.	Ecological Indicators (Elsevier)	2018	<b>3.898</b>
3.	Science of the Total Environment (Elsevier)	2018	<b>4.900</b>
4.	Frontiers in Bioscience	2018	<b>2.484</b>
5.	Pedosphere (Elsevier)	2017	<b>1.734</b>
6.	Trends in Biotechnology (Cell Press)	2016	<b>11.126</b>
7.	Frontiers in Microbiology (03 Articles)	2016	<b>4.076</b>
8.	Plant Physiology and Biochemistry (Elsevier)	2016	<b>2.928</b>
9.	Ecotoxicology & Environmental Safety (Elsevier)	2016	<b>3.473</b>
10.	Agriculture Ecosystem & Environment (Elsevier)	2015	<b>4.099</b>
11.	Applied Soil Ecology (Elsevier)	2015	<b>2.786</b>

**Google scholar citation as on November 22, 2018**

	<p><b>Jay Shankar Singh</b>                  Department of Environmental Microbiology,                  Babasaheb Bhimrao Ambedkar University,                  Lucknow                  , INDIA                  Agro-Environmental Sustainability and Natu...</p>	GET MY OWN PROFILE		
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		i10-index	34	33
<b>TITLE</b>		<b>CITED BY</b>		<b>YEAR</b>
Efficient soil microorganisms: a new dimension for sustainable agriculture and environmental development JS Singh, VC Pandey, DP Singh Agriculture, Ecosystems & Environment 140 (3), 339-353		379		2011

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