

CURRICULUM VITAE

Prabhat Kumar Srivastava

Assistant Professor of Botany
M.Sc., D.Phil.

Contact Details:

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<https://scholar.google.com/citations?user=CKK0NdcAAAAJ&hl=en>

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Summary:

- M. Sc. in Botany and D.Phil. from the University of Allahabad.
- Currently holding the position of Assistant Professor of Botany, KS Saket PG College, Ayodhya (UP).
- Teaching experience of more than 13 years at UG and PG level.
- Research interests: Stress physiology of plants and its amelioration.
- Publications: 30 International Research Papers, and 04 International Books
- Reviewer of several international biological science journals.

Academic Records:

- Recipient of CSIR-UGC JRF fellowship in 2007
- Life member of Indian Science Congress Association Kolkata, India.
- M.Sc. Botany with 57.8% (IInd Division) in 2005 from University of Allahabad, Allahabad.
- B.Sc. (Botany, Chemistry, Zoology) in 2003 and M.Sc. (Botany) in 2005 from University of Allahabad, Allahabad.
- High School in 1997 and Intermediate in 1999 from UP Board.
- D.Phil. in Botany in 2014 from University of Allahabad, Allahabad.
- Studies on UV-B and Pesticide Induced Oxidative Stress in Cyanobacteria of Paddy Field

Research Interests:

- Physiology and biochemistry of plants and cyanobacteria under different environmental stress condition
- Effects of hormones and growth regulators on plants under environmental stress condition

Teaching Experience:

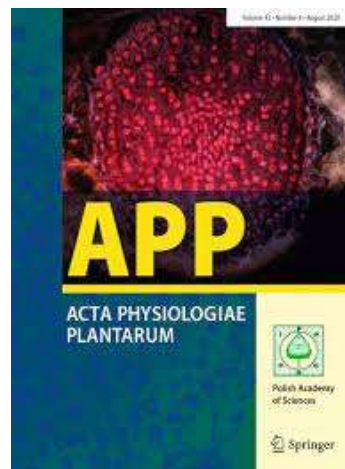
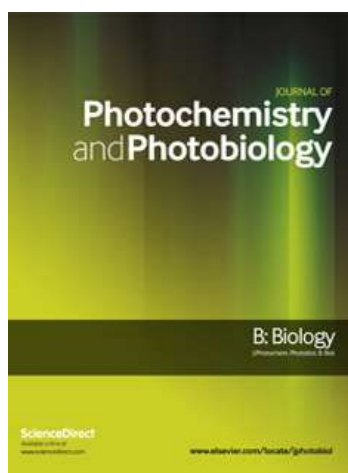
1. Assistant Professor of Botany in Government Degree College Bhaiyathan, Surajpur, Chhattisgarh 497231 (affiliated to Sant Gahira Guru Vishwavidyalaya, Sarguja, Ambikapur, C.G.) from 07/12/2012 to 21/12/2017.
2. Assistant Professor of Botany in KS Saket PG College, Ayodhya, Uttar Pradesh 224123 (affiliated to Dr RML Avadh University, Ayodhya, U.P.) from 22/12/2012 up till now.

Research Guidance: Currently 04 Research Students are working under the supervision, while 02 have been awarded their PhD Degrees.

Publications:

- **Total citations:** 1690
- **h-index:** 19
- **i₁₀-index:** 25
- **Total impact factor:** 100+

(A) Research/Review Articles Published in International Peer Reviewed Journals: (25)



List of Publications:-

Screenshots of the Journal home page and Web of Science search result have been uploaded as a supporting document.

1. Mishra D.K., Shweta, **Sriavastava P.K.**, Kumar J. (2025) A comparative study of indole-3-acetic acid (IAA) and kinetin (KN) in alleviating the arsenic-induced toxicity in rice seedlings: Oxidative stress vs antioxidative defence system. *Plant Archives* 25, (1) 1631-1642 e-ISSN:2581-6063 (online), ISSN:0972-5210. <https://doi.org/10.51470/PLANTARCHIVES.2025.v25.no.1.239>
2. Mir B.A., Kumari R., Rakhra G., Parihar P., Singh R., Raju A.D., **Srivastava P.K.**, Prasad S.M., Singh R., Gulliya S. (2024). Sulfur assimilation and regulation of abiotic stress via OMICS. *Plant Stress*. 14 (2024) 100630. ISSN 2667-064X. <https://doi.org/10.1016/j.stress.2024.100630>
3. Chaudhary, M. K., Misra A., Tripathi D., Srivastava P.K. Srivastava S. (2023). Impact of seasonal variation on four labdane-type diterpenoids in *Coleus forskholii* Briq. *Natural Product Research*. 38, 2024 (13) 2342-2347. ISSN 1478-6427 <https://doi.org/10.1080/14786419.2023.2171413> ISSN1478-6419
4. Chaudhary MK, Misra A, Srivastava PK, Srivastava S. Influence of Seasonal Variation on Diosgenin Content in *Costus speciosus* (J. Koenig) Sm. Rhizome Quantified Through Validated RP-HPLC-PDA Method. *Pharmacognosy Magazine*. 2023;19(1):66-74. 0976-4062 (Online) ISSN 0973-1296 (Print) doi:10.1177/09731296221137404
5. Mishra, R.K., Mishra, G., Singh, R., Parihar, P., Kumar, J., **Srivastava, P.K.**, Prasad, S.M. 2021. Managing arsenic (V) toxicity by phosphate supplementation in rice seedlings: modulations in AsA-GSH cycle and other antioxidant enzymes. *Environmental Science and Pollution Research*. (2022) 29:14418–14429 <https://doi.org/10.1007/s11356-021-16587-3> ISSN: 1614-7499. (Springer; IF: 4.22)
6. Gaur, S., Kumar, J., Kumar, D., Chauhan, D.K., Prasad, S.M., **Srivastava, P.K.** 2020. Fascinating impact of silicon and silicon transporters in plants: A review. *Ecotoxicology and Environmental Safety*. 202: 110885. <https://doi.org/10.1016/j.ecoenv.2020.110885> ISSN: 0147-6513. (Elsevier; IF: 6.29)
7. Kumar, J., Patel, A., Tiwari, S., Tiwari, S., **Srivastava, P.K.**, Prasad, S.M. 2018. Pretilachlor toxicity is decided by discrete photo-acclimatizing conditions: Physiological and biochemical evidence from *Anabaena* sp. and *Nostoc muscorum*. *Ecotoxicology and Environmental Safety*. 30, 344-353. ISSN: 0147-6513. (Elsevier; IF: 7.13)

8. Singh, S., Singh, A., **Srivastava, P.K.**, Prasad, S.M. 2018. Cadmium toxicity and its amelioration by kinetin in tomato seedlings *vis-à-vis* ascorbate-glutathione cycle. *Journal of Photochemistry & Photobiology, B: Biology*. 178, 76–84. **ISSN: 1011-1344. (Elsevier; IF: 6.25)**
9. Kumar, J., Singh, S., Singh, M., **Srivastava, P.K.**, Mishra, R.K., Singh, V.P., Prasad, S.M. 2017. Transcriptional regulation of salinity stress in plants: A short review. *Plant Gene* 11, 160-169. **ISSN: 2352-4073. (Elsevier)**
10. Yadav, V., Arif, N., Singh, S., **Srivastava, P.K.**, Sharma, S., Tripathi, D.K., Dubey, N.K., Chauhan, D.K. 2016. Exogenous mineral regulation under heavy metal stress: Advances and prospects. *Biochemistry & Pharmacology (Los Angel)* 5: 220. doi: 10.4172/2207-0501.1000220. (**ISSN: 2167-0501**)
11. Tripathi, D.K., Singh, S., Singh, S., **Srivastava, P.K.**, Singh, V.P., Singh, S., Prasad, S.M., Singh, P.K., Dubey, N.K., Pandey, A.C., Chauhan, D.K. 2016. Nitric oxide alleviates silver nano particles (AgNps)-induced phytotoxicity in *Pisum sativum* seedlings. *Plant Physiology and Biochemistry* 110, 167-177. doi.org/10.1016/j.plaphy.2016.06.015. **ISSN: 0981-9428. (Elsevier; IF: 5.44)**
12. Yadav, G., **Srivastava, P.K.**, Parihar, P., Tiwari, S., Prasad, S.M. (2016). Oxygen toxicity and antioxidative responses in arsenic stressed *Helianthus annuus* L. seedlings against UV-B. *Journal of Photochemistry & Photobiology, B: Biology* 165, 58-70. **ISSN 1011-1344. (Elsevier; IF: 6.25)**
13. Mishra, R.K., Kumar, J., **Srivastava, P.K.**, Bashri, G., Prasad, S.M. 2016. PSII photochemistry, oxidative damage and anti-oxidative enzymes in arsenate-stressed *Oryza sativa* L. seedlings. *Chemistry and Ecology* 33, 34-50. **ISSN: 1029-0370. (Taylor and Francis; IF: 2.24)**
14. Singh, S., **Srivastava, P.K.**, Kumar, D., Tripathi, D.K., Chauhan, D.K., Prasad, S.M. 2015. Morpho-anatomical and biochemical adopting strategies of maize (*Zea mays* L.) seedlings against lead and chromium stresses. [Biocatalysis and Agricultural Biotechnology](#) 4(3), 286-295. [doi:10.1016/j.bcab.2015.03.004](#). **ISSN: 1878-8181. (Elsevier; IF: 4.26)**
15. **Srivastava, P.K.**, Singh, V.P., Prasad, S.M. 2014. Low and high doses of UV-B differentially modulate chlorpyrifos-induced alterations in nitrogen metabolism of cyanobacteria. *Ecotoxicology and Environmental Safety* 107, 342-350. **ISSN 0147-6513 (Elsevier; IF: 7.13)**

16. Yadav, G., **Srivastava, P.K.**, Singh, V.P., Prasad, S.M. 2014. Light intensity alters the extent of arsenic toxicity in *Helianthus annuus* L. seedlings. *Biological Trace Element Research* 158, 410–421. [https://doi: 10.1007/s12011-014-9950-6](https://doi.org/10.1007/s12011-014-9950-6). **ISSN: 1559-0720. (Springer; IF: 3.74)**
17. Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2013. Nitric oxide alleviates arsenic-induced toxic effects in ridged *Luffa* Seedlings. *Plant Physiology and Biochemistry* 71, 155-163. **ISSN: 0981-9428. (Elsevier; IF: 5.44)**
18. **Srivastava, P.K.**, Singh, V.P., Prasad, S.M. 2012. Compatibility of ascorbate-glutathione cycle enzymes in cyanobacteria against low and high UV-B exposures, simultaneously exposed to low and high doses of chlorpyrifos. *Ecotoxicology and Environmental Safety* 74, 79-88. **ISSN 0147-6513. (Elsevier; IF: 7.13)**
19. Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2012. Differential effect of UV-B radiation on growth, oxidative stress and ascorbate-glutathione cycle in two cyanobacteria under copper toxicity. *Plant Physiology and Biochemistry* 61, 61-70. **ISSN: 0981-9428. (Elsevier; IF: 5.44)**
20. Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2012. Impact of low and high fluence rates of UV-B radiation on growth and oxidative stress in *Phormidium foveolarum* and *Nostoc muscorum* under copper toxicity: differential display of antioxidants system. *Acta Physiologiae Plantarum* 34, 2225-2239. **ISSN: 1861-1664. (Springer; IF: 2.35)**
21. Singh, R., Dubey, G., Singh, V.P., **Srivastava, P.K.**, Kumar, S., Prasad, S.M. 2012. High light intensity augments mercury toxicity in cyanobacterium *Nostoc muscorum*. *Biological Trace Element Research* 149, 262-272. **ISSN: 1559-0720. (Springer; IF: 3.74)**
22. Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2012. Differential effects of UV-B radiation fluence rates on growth, photosynthesis, and phosphate metabolism in two cyanobacteria under copper toxicity. *Toxicological and Environmental Chemistry* 94 (8), 1511-1535. **ISSN: 1029-0486. (Taylor & Francis; IF: 3.74)**
23. Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2012. UV-B induced differential effect on growth and nitrogen metabolism in two cyanobacteria under copper toxicity. *Cellular and Molecular Biology*. 58 (1), 81-91. **ISSN: 1165-158X**
24. Sheeba, Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2011. Differential physiological and biochemical responses of two cyanobacteria *Nostoc muscorum* and *Phormidium foveolarum* against oxyfluorfen and UV-B radiation. *Ecotoxicology and Environmental Safety* 74, 1981-1993. **ISSN: 0147-6513. (Elsevier; IF: 7.13)**

25. Singh, R., **Srivastava, P.K.**, Singh, V.P., Dubey, G., Prasad, S.M. 2011. Light intensity determines the extent of mercury toxicity in the cyanobacterium *Nostoc muscorum*. *Acta Physiologiae Plantarum* 34, 1119-1131. **ISSN: 1861-1664. (Springer; IF: 2.35)**
26. Gangwar, S., Singh, V.P., **Srivastava, P.K.**, Maurya, J.N. 2011. Modification of chromium (VI) phytotoxicity by exogenous gibberellic acid application in *Pisumsativum* (L.) seedlings. *Acta Physiologiae Plantarum* 33, 1385-1397. **ISSN: 1861-1664. (Springer; IF: 2.35)**
27. Singh, V.P., Shukla, S.K., **Srivastava, P.K.**, Singh, A.K. 2011. Cytomorphological effects of EMS treatment on safflower in M₁ generation. *Biochemical and Cellular Archives* 12 (1), 75-79. **(ISSN: 0972-5075)**
28. Prasad, S.M., **Srivastava, P.K.**, Singh, V.P., Singh D. 2009. Neem leaf aqueous extract induced changes in biomass accumulation, photosynthetic activity and status of reactive oxygen species, lipid peroxidation and enzymatic antioxidants in cyanobacterium *Plectonema boryanum*. *Biochemical and Cellular Archives* 9, 103-111. **(ISSN: 0972-5075)**
29. Prasad, S.M., **Srivastava, P.K.**, Singh, V.P., Kumar, D. 2008. Endosulfan induced effect on growth, photosynthesis and assimilation of nitrogen and phosphorus in non-heterocystous cyanobacterium *Plectonema boryanum*. *Biochemical and Cellular Archives* 8, 109-118. **(ISSN: 0972-5075)**

Book Chapters in National / International Books and Press: 05

1. Khan M., Aymen U., Raju A.D., Kumar J., Singh R., Parihar P., **Srivastava P.K.**, and Prasad S.M. Genomic and molecular aspects of Salt tolerance and accumulation. In: *Salt Stress Responses in Plants: Perception, Signaling, Omics and Tolerance Mechanisms* (Eds.) P.K. Srivastava et al. (2021) Nova Science Publishers, USA. PP. 231-255. **ISBN: 978-1-53619-889-8.**
2. Singh R., Parihar P., Singh S., **Srivastava P.K.**, Singh V.P., Prasad S.M. Life in Ancient Era: The Evolution of Photosynthesis. In: *Environment and Photosynthesis: A Future Prospect* (Eds.) V. P. Singh et al. (2018) Studium Press PP. 1-6. **ISBN: 13 9789385046209.**
3. **Srivastava, P.K.**, Parihar, P. Singh, R., Prasad, S.M. The risk associated with the xenobiotics released through wastewater reuse. In: *Plant Responses to Xenobiotics* (Eds.) A. Singh et al. (2016) Springer Nature Singapore Pte Ltd. PP. 273-292. **ISBN 978-981-10-2860-1**
4. Contribution of an e- chapter to the e-pathshala titled '**Fertilization**' under 'Plant Development' section in Botany (sponsored by the University Grants Commission, New Delhi under the Ministry of Human Resource Development under its National Mission on

Education for the postgraduate courseware, available on http://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/botany/10._plant_development/fertilization/et/5873_et_fertilizationet.pdf)

5. Contribution of an e- chapter to the e-pathshala titled ‘**Meristem**’ under ‘Plant Development’ section in Botany (sponsored by the University Grants Commission, New Delhi under the Ministry of Human Resource Development under its National Mission on Education for the postgraduate courseware, available on <http://epgp.inflibnet.ac.in/ahl.php?csrno=4>)

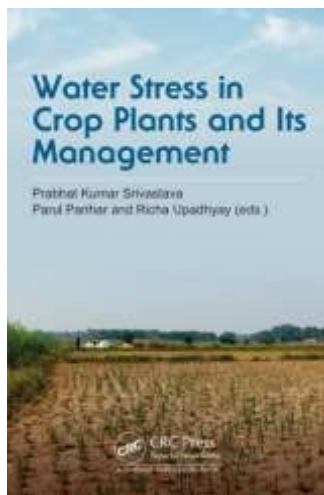
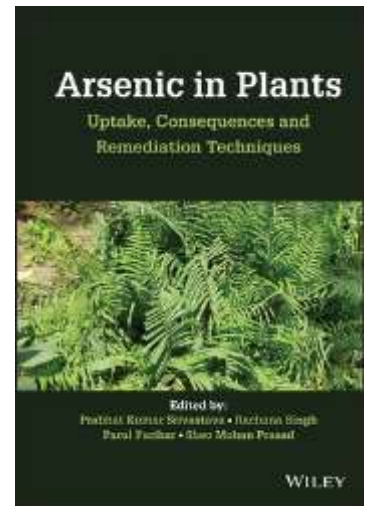
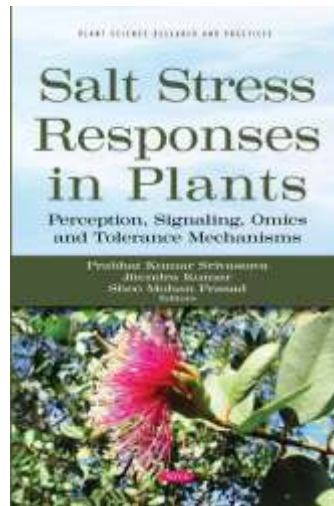
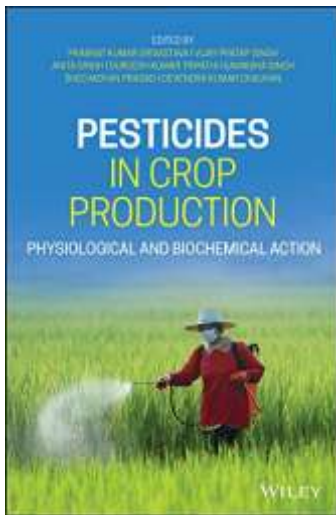
Reviewer/ Referee in Scientific International Journals: 05



1. Environmental and Experimental Botany (Elsevier)
2. Plant Gene (Elsevier)
3. Plant Physiology and Biochemistry (Elsevier)
4. Journal of Plant Growth Regulation (Springer)
5. Frontiers in Plant Science (Frontiers)

Edited Books: 05

1. ‘Water Stress in Crop Plants and Its Management’. Editors: Srivastava P.K., Parihar P., Upadhyay R., CRC press, Taylor and Francis, Boca Raton, Florida, USA (2025) ISBN 9781032561233
2. “Arsenic in Plants: Uptake, Consequences and Remediation Techniques”. Editors: Srivastava P.K., Singh R., Parihar P., Prasad S.M. John & Wiley Sons, Hoboken, New Jersey, USA (2022) ISBN: 978-1-119-79145-4.
3. “Heavy Metals in Plants: Physiological to Molecular Approach”. Editors: Kumar J., Gaur S., Srivastava P.K., Mishra R.K., Prasad S.M., Chauhan D.K. CRC press, Taylor and Francis, Boca Raton, Florida, USA (2022) ISBN 9780367627393.
4. “Salt Stress Responses in Plants: Perception, Signaling, Omics and Tolerance Mechanism”. Editors: Srivastava P.K., Kumar J., Prasad S.M. Nova Science Publishers, USA (2021) ISBN: 978-1-53619-889-8 (hardcover), ISBN: 978-1-53619-923-9 (adobe pdf)
5. “Pesticide in Crop Production: Physiological and Biochemical Action”. Editors: Srivastava P.K., Singh V.P., Singh A., Tripathi D.K., Singh S., Prasad S.M., Chauhan D.K. John & Wiley Sons, Hoboken, New Jersey, USA (2020) Print ISBN:9781119432197 Online ISBN:9781119432241 DOI:10.1002/9781119432241



Technical Expertise: UV- Visible double beam Spectrophotometer, Atomic Absorption Spectrophotometer (AAS), O₂ electrode, AquaPen and FluorPen and other relevant scientific instruments.

Computer Proficiency: MS Office, Power Point, Adobe Photoshop, SPSS, Sigma plot etc. data handling and analysis, preparation of project reports and manuscripts.

Orientation and Refresher Course:

1. Participated in 114th UGC Sponsored Orientation Programme from August 19, 2016 to September 15, 2016, organized by UGC-Human Resource Development Centre-University of Alahabad and obtained Grade A



2. Participated in Refresher Course from January 30, 2021 to February 14, 2021 for “Advanced Research Methodology Tools and Techniques, organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malviya National Mission on Teachers and obtained Grade A⁺.
3. Participated in Orientation Programme from June 19, 2021 to July 18, 2021, organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of

Ministry of Education, Pandit Madan Mohan Malviya National Mission on Teachers and obtained Grade A⁺.

4. Participated in Refresher Course from November 08, 2021 to November 22, 2021 “Managing Online Classes & Co- creating MOOCS 9” organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malviya National Mission on Teachers and obtained Grade A⁺.
5. Participated in Refresher Course from April 22, 2022 to May 06, 2022 for “Advanced Research Methodology”, organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malviya National Mission on Teachers and obtained Grade A⁺.

Workshops:

1. ‘National Workshop on ‘Scientific/Research Paper Writing’ organized by The National Academy of Sciences, India (Allahabad Chapter, Allahabad) during 08th Nov-10th Nov 2012.
2. Workshop on ‘Emerging Trends in Molecular Biology’ organized by Department of Zoology, University of Allahabad, Allahabad- 211 002 during March 23-25, 2009.
3. ‘Workshop on Intact Plant Photosynthesis’ conducted by School of Life Sciences, Devi Ahilya Vishwa Vidyalaya, Indore, India during 30th November to 1st December, 2008
4. Participated in One Week National Level Workshop organized by Govt. Digvijay Auto. P.G. College Rajnandgaon (C.G.) on New NAAC Accreditation Frame Work & Awareness (Special Reference to Seven Criteria) from 7th June to 15th June, 2022.

Invited Talks/ Lectures/ Presentation in Conferences and Seminars:

1. ‘Manganese and UV-B induced alterations in growth, pigment and photosynthetic electron transport activity of Helianthus annuus’ in National Seminar on ‘Emerging Trends in Plants Science: Biodiversity, Biotechnology and Environmental Conservation’ & National Symposium on ‘Relevance of Linnaean Legacy and Thoughts on Plant Diversity in His Tercentenary Years’ in XXXth Botanical Conference (Indian Botanical Society) Organized by School of Studies in Botany, Jiwaji University, Gwalior (M.P.) during 28-30 November, 2007
2. Delivered an Invite Lecture on the topic “Roadmap To Covid-19 Recovery And Challenges Amid Lockdown” in a Six-Days Webinar Series/ Faculty Development Programme On Covid-19 Transition from May 03 to May 08, 2020 in Government Raza P.G. College Rampur, UP-244901.
3. Contribution as a Resource Person in Hands On Training Programme on ‘Hydroponics: A Method to Grow Plants in Aqueous Medium’ organized by Department of Botany, KN Govt. PG College, Gyanpur, Bhadohi UP under the aegis of DBT (New Delhi) Star College Scheme on 27th March, 2023.