

PROFILE

Name	<u>Dr. Lal Singh</u>
Designation	<u>Principal Scientist</u>
Qualification	<ol style="list-style-type: none"> 1. B.Sc. in Botany, Chemistry, Zoology (2002) C.C.S University, Meerut (UP), India 2. M.Sc. in Botany (2004) C.C.S University, Meerut (UP), India 3. Post Graduate Diploma in Biodiversity Conservation(2005) Forest Research Institute University, Dehradun, India 4. PhD in Forest Ecology (2010) Forest Research Institute University, Dehradun, India
Experience (in years)	Principal Scientist in CSIR- NEERI (2021- Present) – 3 Years Senior Scientist in CSIR- NEERI (2017-2021) – 04 Years Scientist in CSIR- NEERI (2013-2017) – 04 Years Research Assistant in FRI, Dehradun (2009-2013) – 04 Years
Expertise	Ecological Restoration of Waste and Degraded Land, Environmental Stress, Phytoremediation
Publications (in Nos.)	Total Publications - 103 <u>Publications details</u>
Patents	
Honors & Awards	<ol style="list-style-type: none"> 1. CSIR-NEERI – 2024 Best Senior Scientist in NEERI 2. Bamboo Society of India – 2023 Fundamental Contribution in Bamboo Sector 3. CSIR-NEERI – 2018 Junior Best Scientist in NEERI 4. Forest Research Institute – 2009 Best Presentation Award
Research Scholars	<ol style="list-style-type: none"> 1. Swati Yadav – AcSIR Nagpur, India Supervisor - Guide Title of Thesis - Development of holistic approach for eco restoration of Fly Ash Dump Site Year of completion – 2024 2. Srinidhi Sridharan – AcSIR Nagpur, India Supervisor - Guide

	<p>Title of Thesis - Impacts of microplastics on the plant lifecycle and rhizospheric microbial community dynamics Year of completion – 2024</p> <p>3. Apurva Mishra – AcSIR Nagpur, India Supervisor - Guide Title of Thesis - Forest conversion and its impact on soil belowground diversity and suggested eco-restoration strategies Year of completion – 2024</p> <p>4. Ankush Sawarkar – VNIT, Nagpur, India Supervisor - Co-Guide Title of Thesis – Clustering and classification of commercial bamboo species using machine learning, deep learning and DNA barcoding Year of completion – 2023</p> <p>5. Shrirang Maddalwar – Amity University Raipur, Chattisgarh, India Supervisor - Co-Guide Title of Thesis – Microbial fuel cell with high content solid wastes as substrate Year of completion – 2024</p> <p>6. Poonam Bhanse - AcSIR Nagpur, India Supervisor - Co-Guide Title of Thesis - Development of beneficial bacterial consortia for Sustenance of commercial plants on degraded land: <i>Dendrocalamus stictus</i> (ROXB.) News and <i>Ailnthus excels</i> Roxb. Year of completion – Ongoing</p> <p>7. Priya Darshani – Amity University Supervisor - Co-Guide Title of Thesis - Studies on lichens and evaluation of their heavy metal uptake from diverse habitats of district Reasi, Jammu & Kashmir Year of completion – Ongoing</p>
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Publications

Refereed Journal Publications: *Corresponding author is marked with **

1. Maddalwar, S., Kumar, T., Tijare, G., Agashe, A., Kotangale, P., Sawarkar, A. and **Singh, L.***, 2024. A global perspective on a bioengineering approach to landslide mitigation using bamboo diversity. *Advances in Bamboo Science*, 8, p.100093. <https://doi.org/10.1016/j.bamboo.2024.100093> (Q1, CiteScore: 0.9)
2. Ansari, S.A., Kumar, T., Sawarkar, R., Gobade, M., Khan, D. and **Singh, L.***, 2024. Valorization of food waste: A comprehensive review of individual technologies for producing bio-based products. *Journal of Environmental Management*, 364, p.121439. <https://doi.org/10.1016/j.jenvman.2024.121439> (Q1, IF: 9.6)
3. Yadav, S., Pandey, V.C. and **Singh, L.**, 2024. Assessment of medicinal plants colonizing abundantly on metal-enriched fly ash deposits: phytoremediation prospective. *International Journal of Phytoremediation*, pp.1-8. <https://doi.org/10.1080/15226514.2024.2331708>
4. Mahule, A., Sawarkar, A.D., Pakle, G., Pachlor, R. and **Singh, L.***, 2024. AquaBamboo Data-Driven Suggested System for Water Management and Sustainable Growth of Bamboo: A Review. *Advances in Bamboo Science*, p.100072. <https://doi.org/10.1016/j.bamboo.2024.100072>
5. Ankush D Sawarkar,..., **Lal Singh*** (2024) Bamboo Plant Classification Using Deep Transfer Learning with a Majority Multiclass Voting Algorithm in *Applied Sciences*, <https://doi.org/10.3390/app14031023> (Q2, IF: 2.7)
6. Shirrang R. Maddalwar, Kush Kumar Nayak, & **Lal Singh*** (2023) Performance assessment of commercial bacteria in microbial fuel cells designed using dry cell components in the Journal **Bioresource Technology Reports**, <https://doi.org/10.1016/j.biteb.2023.101703> (Q1, CiteScore: 7.8)
7. Srinidhi Sridharan, Mahua Saha & **Lal Singh*** (2023) Evidence of Soil Microplastics Inhibiting the Germination of commercial Coriander Seeds Under Field Conditions in the Journal **Water, Air & Soil Pollution** <https://doi.org/10.1007/s11270-023-06684-z> (Q2, IF: 2.9)
8. Ankush Sawarkar, Deepti Shrimankar,..., **Lal Singh*** (2023) Bamboo as a sustainable crop for land restoration in India: challenges and opportunities in the Journal **Environment Development and Sustainability**, <https://doi.org/10.1007/s10668-023-03977-9> (Q1, IF: 4.9)
9. A. Shakeel, R. Sawarkar..., **Lal Singh*** (2023) Evaluation of ecological potency in bamboo species for phytoremediation and eco-rejuvenation of fly ash-degraded land: a two-year field study in the Journal **International Journal of Environmental Science and Technology**, <https://doi.org/10.1007/s13762-023-05188-x> (Q1, IF: 3.1)
10. Ankush Sawarkar, Deepti Shrimankar,..., **Lal Singh*** (2023) Bamboo as a cultivated medicinal grass for industries: A systematic Review in the Journal **Industrial Crops and Products**, <https://doi.org/10.1016/j.indcrop.2023.117210> (Q1,IF:5.9)
11. Apurva Mishra, Dharmesh Singh,..., **Lal Singh*** (2023) Soil microbiome dynamics associated with conversion of tropical forests to different rubber based land use management systems in the Journal **Applied Soil Ecology**, <https://doi.org/10.1016/j.apsoil.2023.104933> (Q1, IF: 4.8)
12. Riya Sawarkar, Adnan Shakeel,..., **Lal Singh*** (2023) Evaluation of plant species for air pollution tolerance and phytoremediation potential in proximity to a coal thermal power station: implication for smart green cities in the Journal **Environmental Geochemistry and Health**, <https://doi.org/10.1007/s10653-023-01667-9> (Q1, IF:4.2)
13. Shirrang Maddalwar, Kush Kumar Nayak, **Lal Singh*** (2023) Evaluation of power generation in plant microbial fuel cell using vegetable plants in the Journal **Bioresource Technology Reports**, <https://doi.org/10.1016/j.biteb.2023.101447> (Q1, IF:7.8)
14. Suhel Aneesh Ansari, Adnan Shakeel,..., **Lal Singh*** (2023) Additive facilitated co-composting of lignocellulosic biomass waste, approach towards minimizing greenhouse gas emissions: An up to date review in the Journal **Environmental Research**, <https://doi.org/10.1016/j.envres.2023.115529> (Q1, IF: 8.3)
15. Shiv Bolan, Lokesh P. Padhye,..., **Lal Singh** (2023) Review on distribution, fate, and management of potentially toxic elements in incinerated medical wastes in the Journal **Environmental Pollution**, <https://doi.org/10.1016/j.envpol.2023.121080> (Q1, IF: 8.9)

16. Apurva Mishra, **Lal Singh** and Dharmesh Singh(2023) Unboxing the black box-one step forward to understand the soil microbiome: A systematic review in the Journal **Microbial Ecology**, <https://doi.org/10.1007/s00248-022-01962-5> (Q1,IF: 3.6)
17. Zheli Ding, Sanjeev Kumar Awasthi,..., **Lal Singh**,... (2023) A thermo-chemical and biotechnological approaches for bamboo waste recycling and conversion to value added product: Towards a zero-waste biorefinery and circular bioeconomy in the Journal **Fuel**, <https://doi.org/10.1016/j.fuel.2022.126469> (Q1, IF:7.4)
18. Swati Yadav,Vimal C. Pandey,..., **Lal Singh*** (2023) Corrigendum to “Plant diversity and ecological potential of naturally colonizing vegetation for ecorestoration of fly ash disposal area” in the Journal **Ecological Engineering**, <https://doi.org/10.1016/j.ecoleng.2023.107033> (Q1, IF:3.8)
19. Riya Sawarkar,..., **Lal Singh*** (2023) “Organic Waste Augment the Eco-Restoration Potential of Bamboo species on Fly Ash-degraded Land: A Field Study” in the Journal **Sustainability**, <https://doi.org/10.3390/su15010755> (Q1, IF:3.9)
20. Yuwen Zhou, Manish Kumar,...,**Lal Singh**,.. (2022) Challenges and opportunities in bioremediation of micro-nano plastics: A review in the Journal **Science of The Total Environment**, <https://doi.org/10.1016/j.scitotenv.2021.149823> (Q1, IF:9.8)
21. Arun Vijay Baskar, Nanthi Bolan,...,**Lal Singh**,..(2022) Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review in the Journal **Science of The Total Environment**, <https://doi.org/10.1016/j.scitotenv.2022.153555> (Q1, IF: 9.8)
22. Poonam Bhanse, Manish Kumar,...,**Lal Singh**,..(2022) Role of plant growth-promoting rhizobacteria in boosting the phytoremediation of stressed soils: Opportunities, challenges, and prospects in the Journal **Chemosphere**, <https://doi.org/10.1016/j.chemosphere.2022.1349> (Q1, IF:8.8)
23. Sanjeev Kumar Awasthi, Manish Kumar,...,**Lal Singh**,..(2022) A comprehensive review on recent advancements in biodegradation and sustainable management of biopolymers in the Journal **Environmental Pollution**, <https://doi.org/10.1016/j.envpol.2022.119600> (Q1, IF:8.9)
24. S.Ambika,..., **Lal Singh**,..(2022) “Modified biochar as a green adsorbent for removal of hexavalent chromium from various environmental matrices: Mechanisms, methods and prospects” in the Journal **Chemical Engineering Journal**, (Q1, IF:15.1)
25. Srinidhi Seidharan,..., ...,**Lal Singh***,... (2022) “The polymers and their additives in particulate plastics: What makes them hazardous to the fauna?” in the Journal **Science of The Total Environment** (Q1, IF:9.8)
26. Sachin Krushna Bhujbal,..., **Lal Singh**,... (2022) “ Biotechnological potential of rumen microbiota for sustainable bioconversion of lignocellulosic waste to biofuels and value-added products” in the Journal **Science of The Total Environment** (Q1, IF:9.8)
27. Sanjeev Kumar Awasthi, ,...,**Lal Singh**,... (2022) “Multi-criteria research lines on livestock manure biorefinery development towards a circular economy: From the perspective of a life cycle assessment and business models strategies” in the Journal **Journal of Cleaner Production** (Q1, IF:11.1)
28. Rashmi Rathour, Hemant Kumar,...,**Lal Singh***,... (2022) Multifunctional applications of bamboo crop beyond environmental management: an Indian prospective in the Journal **Bioengineered**, <https://doi.org/10.1080/21655979.2022.2056689>
29. Kumar Abhishek, Anamika Srivastava,...,**Lal Singh**,... (2022) Biochar application for greenhouse gas mitigation, contaminants immobilization and soil fertility enhancement: A state-of-the-art review in the Journal **Science of The Total Environment**, <https://doi.org/10.1016/j.scitotenv.2022.158562> (Q1, IF: 9.8)
30. Manish Kumar, Nanthi Bolan,...,**Lal Singh**,..(2022) Mobilization of contaminants: Potential for soil remediation and unintended consequences in the Journal **Science of The Total Environment**, <https://doi.org/10.1016/j.scitotenv.2022.156373> (Q1, IF: 9.8)
31. Prasanthi Sooriyakumar, Nanthi Bolan,...,**Lal Singh**,..(2022) Biofilm formation and its implications on the properties and fate of microplastics in aquatic environments: A review in the Journal **Journal of Hazardous Materials Advances**, <https://doi.org/10.1016/j.hazadv.2022.100077> (Q1, IF:13.6)

32. Swati Yadav, Vimal Chandra Pandey,..., **Lal Singh***,... (2022) Plant diversity and ecological potential of naturally colonizing vegetation for ecorestoration of fly ash disposal area in the Journal **Ecological Engineering**, <https://doi.org/10.1016/j.ecoleng.2021.106533> (Q1, IF:3.8)
33. Nanthi Bolan, Manish Kumar,...**Lal Singh**,...(2022) Antimony contamination and its risk management in complex environmental settings: a review in the Journal **Environment International** <https://doi.org/10.1016/j.envint.2021.106908> (Q1,IF:11.8)
34. Shrirang Maddalwar, Kush Kumar Nayak, Manish Kumar, **Lal Singh*** (2021) Plant microbial fuel cell: opportunities, challenges, and prospects in the Journal **Bioresource Technology** <https://doi.org/10.1016/j.biortech.2021.125772> (Q1, IF:11.4)
35. Manish Kumar, Nanthi S Bolan,...**Lal Singh**,...(2021) Remediation of soils and sediments polluted with polycyclic aromatic hydrocarbons: to immobilize, mobilize, or degrade? In the Journal **Journal of Hazardous Materials** <https://doi.org/10.1016/j.jhazmat.2021.126534> (Q1, IF:13.6)
36. Apurva Mishra, Manish Kumar,...**Lal Singh***,...(2021) Multidimensional approaches of biogas production and up-gradation: Opportunities and challenges in the Journal **Bioresource Technology** <https://doi.org/10.1016/j.biortech.2021.125514> (Q1, IF:11.4)
37. Srinidhi Sridharan, Manish Kumar, **Lal Singh**,...(2021) Microplastics as an emerging source of particulate air pollution: A critical review in the Journal **Journal of Hazardous Materials** <https://doi.org/10.1016/j.jhazmat.2021.126245> (Q1, IF:13.6)
38. Priya Fuke, Manish Kumar,...**Lal Singh***,...(2021) Role of microbial diversity to influence the growth and environmental remediation capacity of bamboo: a review in the Journal **Industrial Crops and Products** <https://doi.org/10.1016/j.indcrop.2021.113567> (Q1,IF:5.9)
39. Ankush D Sawarkar, Deepti D Shrimankar,...**Lal Singh***,...(2021) Traditional system versus DNA barcoding in identification of bamboo species: a systematic review in the Journal **Molecular biotechnology** <https://doi.org/10.1007/s12033-021-00337-4> (Q2,IF:2.6)
40. Manish Kumar, Shanta Dutta, ...,**Lal Singh**,...(2021) A critical review on biochar for enhancing biogas production from anaerobic digestion of food waste and sludge in the Journal **Journal of Cleaner Production** <https://doi.org/10.1016/j.jclepro.2021.127143> (Q1,IF:11.1)
41. Srinidhi Sridharan, Manish Kumar, ...,**Lal Singh**,...(2021) Are microplastics destabilizing the global network of terrestrial and aquatic ecosystem services? In the Journal **Environmental Research** <https://doi.org/10.1016/j.envres.2021.111243> (Q1,IF:8.3)
42. Raushan Kumar, Mohan Manu Thangaraju, ...,**Lal Singh***,...(2021) Ecological restoration of coal fly ash-dumped area through bamboo plantation in the Journal **Environmental Science and Pollution Research** <https://doi.org/10.1007/s11356-021-12995-7> (Q1,IF:5.8)
43. Manish Kumar, Hongyu Chen, ...,**Lal Singh**,...(2021) Current research trends on micro-and nano-plastics as an emerging threat to global environment: A review in the Journal **Journal of Hazardous Materials** <https://doi.org/10.1016/j.jhazmat.2020.124967> (Q1, IF:13.6)
44. Maroti P Sonarkhan, **Lal Singh**,...(2021) Silica and secondary metabolites as chemophenetic markers for characterization of bamboo species in relation to genetic and morphometric analysis in the Journal **Molecular Biology Reports** <https://doi.org/10.1007/s11033-021-06469-9> (Q2,IF: 2.8)
45. Swati Yadav, Vimal Pandey, Chandra, **Lal Singh***(2021) Ecological restoration of fly ash disposal areas: Challenges and Opportunities in the Journal **Land Degradation & Development** <https://doi.org/10.1002/ldr.4064> (Q1,IF:4.7)
46. **Lal Singh**, Namrata Ruprela,...(2021) Variation in endophytic bacterial communities associated with the rhizomes of tropical Bamboos in the Journal **Journal of Sustainable Forestry** <https://doi.org/10.1080/10549811.2020.1745655>
47. Ashootosh Mandpe, Nikita Yadav, **Lal Singh**,...(2021) Exploring the synergic effect of fly ash and garbage enzymes on biotransformation of organic wastes in in-vessel composting system in the Journal **Bioresource Technology** <https://doi.org/10.1016/j.biortech.2020.124557> (Q1, IF:11.4)

48. Aman Kumar, Ekta Singh, **Lal Singh**,...(2021) Carbon material as a sustainable alternative towards boosting properties of urban soil and foster plant growth in the **Journal Science of the Total Environment** <https://doi.org/10.1016/j.scitotenv.2020.141659> (Q1,IF:9.8)
49. Lekha Dhote, Sunil Kumar, **Lal Singh**, Rakesh Kumar (2021) A systematic review on options for sustainable treatment and resource recovery of distillery sludge in the **Journal Chemosphere** <https://doi.org/10.1016/j.chemosphere.2020.1282> (Q1,IF:8.8)
50. Manish Kumar, Siming You, **Lal Singh**,...(2021) Lignin valorization by bacterial genus *Pseudomonas*: State-of-the-art review and prospects in the **Journal Bioresource Technology** <https://doi.org/10.1016/j.biortech.2020.124412> (Q1, IF:11.4)
51. Ekta Singh, Aman Kumar, **Lal Singh**,...(2021) Pyrolysis of waste biomass and plastics for production of biochar and its use for removal of heavy metals from aqueous solution in the **Journal Bioresource Technology** <https://doi.org/10.1016/j.biortech.2020.124278> (Q1, IF:11.4)
52. **Lal Singh***, Srinidhi Sridharan, Sanjog T Thul,...(2020) Eco-rejuvenation of degraded land by microbe assisted bamboo plantation in the **Journal Industrial Crops and Products** <https://doi.org/10.1016/j.indcrop.2020.112795> (Q1,IF:5.9)
53. Ankush D Sawarkar, Deepti D Shrimankar, ...,**Lal Singh**,...(2020) Commercial clustering of sustainable bamboo species in India in the **Journal Industrial Crops and Products** <https://doi.org/10.1016/j.indcrop.2020.112693> (Q1,IF:5.9)
54. GS Manjunatha, Digambar Chavan, ...,**Lal Singh**,...(2020) Specific heat and thermal conductivity of municipal solid waste and its effect on landfill fires in the **Journal Waste Management** <https://doi.org/10.1016/j.wasman.2020.07.033> (Q1,IF:8.1)
55. Vimal Chandra Pandey, Apurva Rai, **Lal Singh**, DP Singh (2020) Understanding the role of litter decomposition in restoration of fly ash ecosystem in the **Journal Bulletin of Environmental Contamination and Toxicology** <https://doi.org/10.1007/s00128-020-02994-8> (Q2,IF:2.7)
56. Srinidhi Sridharan, T. Mohan Manu, **Lal Singh***(2020) Biodiversity Augmentation on village Community Degraded Land using Eco-Rejuvenation Technology in the **Journal Journal of Environmental Science & Engineering**
57. Srinidhi Sridharan, T. manu, Mohan, ...,**Lal Singh***,...(2020) Enhancement of Biodiversity through Ecological parks on urban wasteland in the **Journal Journal of Environmental Science & Engineering**
58. Rena, K Mohammed Bin Zacharia, ...,**Lal Singh**,...(2020) Bio-hydrogen and bio-methane potential analysis for production of bio-hythane using various agricultural residues in the **Journal Bioresource Technology** <https://doi.org/10.1016/j.biortech.2020.123297> (Q1, IF:11.4)
59. Mohan Thangaraju, Manu, Srinidhi Sridharan, **Lal Singh***(2020) Technological aspects on eco-rejuvenation of contaminated land in the **Journal Journal of Environmental Science & Engineering**
60. Priya Fuke, Srinidhi Sridharan, Swati Yadav, **Lal Singh***(2020) Socio-Economic utility and environmental prospects of Fly Ash in the **Journal Journal of Environmental Science & Engineering**
61. Ankush Sawarkar, Deepti Shrimankar, ...,**Lal Singh***,...(2020) Morphological, Physical and Chemical Characteristics of Commercial Bamboo Species for Phyto-management of Polluted Sites in India in the **Journal Journal of Environmental Science & Engineering**
62. Chakali Prashanth Kumar, A Meenakshi, ...,**Lal Singh**,...(2019) Bio-Hythane production from organic fraction of municipal solid waste in single and two stage anaerobic digestion processes in the **Journal Bioresource Technology** <https://doi.org/10.1016/j.biortech.2019.122220> (Q1, IF:11.4)
63. AA Juwarkar, **L Singh**,...(2016) Biodiversity promotion in restored mine land through plant-animal interaction in the **Journal J Ecosys Ecograp** <https://doi.org/10.4172/2157-7625.1000176>
64. **Lal Singh***, Sanjeev Kumar Singh,...(2016) Development of Bamboo Diversity on Degraded Lands: A Sustainable Solution for Climate Change Mitigation and Poverty Alleviation in Rural Areas in the **Journal eJournal of Applied Forest Ecology (eJAFE)**
65. Asha Ashok Juwarkar, **Lal Singh**,...(2015) Natural vs. reclaimed forests—a case study of successional change, reclamation technique and phytodiversity in the **Journal International Journal of Mining, Reclamation and Environment** <https://doi.org/10.1080/17480930.2014.941546>

66. **Lal Singh**, H.B. Vasistha, Prafulla Soni (2015) Ethnobotanical and medicinal plant diversity in the industrial belt of Tuticorin, Tamil Nadu, **Journal of Applied Forest Ecology**
67. H.B Vasistha, Mridula Negi, Edwin Murmu, **Lal Singh** (2014) Growth Performances of Forestry and Horticultural Tree Species on Coal Mine Spoils in Dhanbad Coalfields, India, **eJournal of Applied Forest Ecology (eJAFE)**
68. **Lal Singh**, Prafulla Soni, MS Kasana (2013) Bioprospecting for wild plant species of medicinal value in the mining belt of Jaduguda, Jharkhand, India in the Journal **eJournal of Applied Forest Ecology (eJAFE)**
69. Nirmal Ram, Pramod Kumar, **Lal Singh** (2013) Impact of human induced pressure on floristic diversity of sal forest in Dehradun in the Journal **eJournal of Applied Forest Ecology (eJAFE)**
70. Nirmal Ram, Prafulla Soni, **Lal Singh**, Pramod Kumar (2012) Mortality Status of *Acacia nilotica* (Kikar) Under Different Land Uses in Haryana in the Journal **Journal of Tree Sciences**
71. Nirmal Ram, **Lal Singh**, Pramod Kumar (2012) Ecological Impact of Dehradun Urbanization on Floristic Diversity of Natural Sal Forest along with disturbances gradients in the Journal **International Journal of Innovations and Biosciences**
72. Prafulla Soni, **Lal Singh** (2012) *Marsilea quadrifolia* Linn.-A valuable culinary and remedial fern in jaduguda, jharkhand, India in the Journal **International Journal of Life Science & Pharma Research**
73. Prafulla Soni, **Lal Singh** (2011) Ecotechnological approach for consolidation of uranium tailings in the Journal **Journal of Environmental Science & Engineering**
74. Prafulla S Rajdeep, **Lal Singh**, BB Rana (2011) Floristic Diversity in Ecologically Restored Lime Stone Mines and Natural Forests of Mussoorie and Doon Valley, India in the Journal **Ecologia** <https://doi.org/10.3923/ecologia.2011.44.55>
75. **Lal Singh**, Prafulla Soni (2010) Binding capacity and root penetration of seven species selected for revegetation of uranium tailings at Jaduguda in Jharkhand, India in the journal **Current Science**
76. **Lal Singh**, Prafulla Soni (2010) Concentration of radionuclides in uranium tailings and its uptake by plants at Jaduguda, Jharkhand, India in the journal **Current Science**
77. **Lal Singh**, P Soni, HB Vasistha, SK Kamboj (2010) Rare and threatened species of medicinal value under *Prosopis juliflora* (Swartz) DC District Tuticorin, Tamil Nadu (India) in the journal **New York Science Journal**
78. Nirmal Ram, **Lal Singh***, Pramod Kumar (2010) Bamboo plantation diversity and its economic role in North Bihar, India in the Journal **Nature and Science**
79. **Lal Singh**, Prafulla Soni (2009) Marketing and use of common wild plants of Jaduguda, Jharkhand, India in the Journal **International Journal of Forest Usufructs Management**
80. **Lal Singh**, Prafulla Soni, V.N. Jha (2009) Consolidation of Radionuclides in Uranium Tailings at Jaduguda (Jharkhand): A Case Study in the Journal **International Journal of Ecology and Environmental Sciences**
81. **Lal Singh**, Prafulla Soni (2009) species selection for revegetation and consolidation of uranium tailings at jaduguda in jharkhand, india in the Journal **The Ecoscan**
82. N Ram, D Verma, **L Singh** (2007) *OROXYLUM INDICUM*-A THROAT DOCTOR In the Journal **INDIAN FORESTER**
83. Ashish Rawat, **Lal Singh**, Prafulla Soni (2006) Using native plant species in ethnomedicine by some tribal communities of Uttarkashi district of Garhwal Himalaya in the Journal **International journal of forest usufructs management**

Published Book

1. Prafulla Soni, **Lal Singh***(2012) Landscape fragmentation and Restoration Researches in India published in **Lap Lambert Academic Publishing**

Book chapters

1. Adnan shakeel, Riya Sawarkar,..., Lal Singh (2024) Modeling the surface chemistry of biochar for efficient and wider applicability: opportunities and limitations in **Biochar production for green economy**.
2. Tinku Kumar, Aksh Kumar,..., **Lal Singh** (2023) Profound Influence of Microbes on Plant Diversity: An Ecological Perspective in **Environmental Microbiology**.
3. Kumar H., Prasad K.,...,**Lal Singh** (2023) Pesticide pollution in freshwater: Occurrence, distribution, impact, and remediation in **Current Developments in Biotechnology and Bioengineering**, <https://doi.org/10.1016/B978-0-32391900-5.00010-2>
4. Prathmesh Anerao, Hemant Kumar,...,**Lal Singh*** (2022) Algal-Based Biofuel Production: Opportunities, Challenges, and Prospects in **Bio-Clean Energy Technologies**
5. S. Joshi, Sudipta Ramola,...,**Lal Singh***,..(2022) Waste to Wealth: Types of Raw Materials for Preparation of Biochar and Their Characteristics in **Engineered Biochar**, https://doi.org/10.1007/978-981-19-2488-0_2
6. Prathmesh Anerao, Gaurav Salwatkar,...,**Lal Singh***,..(2022) Physical Treatment for Biochar Modification: Opportunities, Limitations and Advantages in **Engineered Biochar**, https://doi.org/10.1007/978-981-19-2488-0_4
7. Poonam Bhanshe, Anuja Maitreya,...,**Lal Singh**,..(2022) Agrochemicals: Provenance, Environmental Fate, and Remediation Measures in **Agrochemicals in Soil and Environment**, https://doi.org/10.1007/978-981-16-9310-6_2
8. Parthmesh Anerao, Roshan Kaware,...,**Lal Singh**,.. (2022) Phytoremediation of persistent organic pollutants: concept challenges and perspectives in **Phytoremediation Technology for the Removal of Heavy Metals and Other Contaminants from Soil and Water**, <https://doi.org/10.1016/B978-0-323-85763-5.00018-0>
9. Komal Prasad, Hemant Kumar, **Lal Singh**,.. (2022) Phytocapping technology for sustainable management of contaminated sites: case studies, challenges, and future prospects in **Phytoremediation Technology for the Removal of Heavy Metals and other Contaminants From Soil and Water** <https://doi.org/10.1016/B978-0-32385763-5.00041-6>
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