

A. Books Published

1. Studies on Hydraulic Jump in Prismatic and Non-Prismatic Channels (A Reference book), Dr. Sumit Gandhi and Dr. R.P. Singh, LAP Lambert Academic Publishing 2011, Paperback, 284 Seiten, Germany, 2011, ISBN 978-3-8465-1447-4
2. Interactions and Adsorption Dynamics of Cr(VI) Removal by EOLP, (A Reference book), *Fatma Zahra, Ram Pal Singh and Sumit Gandhi*, LAP LAMBERT Academic Publisher 2023, London NZ9ED, U.K., ISBN : 978-620-6-15558-4; May 2023.

B. Book Chapters Published

1. Pooja Jha, A. K. Sachan, and **R. P. Singh**, "Utilization of Stone Dust as an effective alternative for Sand Replacement in Concrete". 3rd International Conference on Innovative Technologies for clean and sustainable Development, held at NITTR, Chandigarh, India. Also published in RILEM Book series, Springer, Volume 29, Year 2021, pp. 513-526.
DOI: https://10.1007/978-3-030-51485-3_34
Link: http://link.springer.com/chapter/10.1007%2F978-3-030-5151485-3_34
2. Jha, P., Sachan, A. K., and **Singh, R. P.** "Properties of Concrete with Bagasse Ash and Stone Dust Exposed to Sulphate Attack", National Conference on Recent Advances in Structural Engineering: Published in Select Proceedings of NCRASE 2020, as Lecture notes in Civil Engineering, Vol. 135, Year 2021, pp. 29 – 37,
DOI: https://doi.org/10.1007/978-981-33-6389-2_4
3. Jha, P. Sachan, A.K. and **Singh, R.P.** "Bagasse Ash (ScBA) and its Utilization in Concrete as Pozzolanic Material: A Review" A book chapter as Part of the lecture notes in Civil Engineering (LNCE) Book Series, Volume 143, year 2021, pp. 471-480.
4. Jha, P. Sachan, A.K. and **Singh, R.P.** "An Overview: Supplementary Cementous Materials" A book chapter in Advances in Construction materials and sustainable Environment, Publisher Springer, pp. 53-63, **2022**, ISBN: 978-981-16-6556-1, (**Scopus Indexed**)
{Part of the lecture notes in Civil Engineering Book Series (LNCE, Volume 196))
DOI: 10.1007/978-981-16-6557-8-5

C. Book Chapters Reviewed

1. Reviewed a book chapter on Modelling of Water quality Index of Haryana: A comparison of Deep Neural Network and Support Vector Machine in May 2022 as requested by Prof K.K. Singh, NIT Kurukshetra.
2. Reviewed a book chapter on Environmental Performance Assessment of Electric and Two-Wheelers using LCA, in May 2022 as requested by Prof K.K. Singh, NIT Kurukshetra.

Research Publications

Assessment of Magnetic Susceptibility of Metal Contaminated Industrial Soils in Prayagraj, India
Himanshu Hanumant Singh, **Ram Pal Singh**, H. K. Pandey & Aman Kumar

article : Soil and Sediment Contamination: An International Journal, Publisher : Taylor & Francis, Year **2025**, PP.1-27

DOI: <https://doi.org/10.1080/15320383.2025.2598574>

Assessment of Groundwater Quality Using Statistical and Hydro-Chemical Approaches: A Case Study of Mahoba District, India.

Hemant Kumar Pandey, Vishal Kumar Singh, Sudhir Kumar Srivastava and **Ram Pal Singh**,

article : International Journal of Water, Air Soil Pollution Publisher : Springer Nature, published, Vol. 236: 846, **2025**, pp. 1-27

DOI: <https://doi.org/10.1007/s11270-025-08488-9>

Hydrogeological Insights: Assessing Groundwater in Trans-Yamuna Using Decision Making Method, Prayagraj, India.

Swapnil Kumar Sharma, H. K. Pandey, **R. P. Singh**, Ramanand Mishra, Vishal Kumar Singh, Sudhir Kumar Singh, Keval H. Jodhani, and Upaka Rathnayake

article : Iranian Journal of Science and Technology, Transactions of Civil Engineering., Publisher : Springer Nature, published online **12 March 2025**, pp 1-23.(I.F. 1.7)

DOI: <https://doi.org/10.1007/s40996-025-01787-5>

Response Surface Method approach for analyzing flow characteristics in an expanding channel
Sumit Gandhi, Y.I. Murthy and **Ram Pal Singh**

article : Engineering and Computational Mechanics, published on-line, Emerald Publishing, London, U. K., **June 2024**, Vol. 177(2), pp.41-54, (Scopus indexed, I.F. 1.1)

DOI: <https://doi.org/10.1680/jencm.24.00014>

Soil Loss Estimation Using RUSLE in Hard Rock Terrain: a Case Study of Bundelkhand, India
H. K. Pandey, Vishal Kumar Singh, **Ram Pal Singh**, and Sudhir Kumar Singh

article : Water Conservation Science and Engineering published on=line, Springer Nature, Singapore, **Nov 30, 2023**, pp. 1-17, (eSCI, I.F. 3.0)

DOI: <https://doi.org/10.1007/s41101-023-00229-5>

Groundwater quality assessment using PCA and water quality index (WQI) in a drought-prone area

H.K. Pandey, Vishal Kumar Singh, Sudhir Kumar Srivastava and **Ram Pal Singh**

article : Sustainable Water Resources Management, published on-line, Springer Nature Singapore, **Nov 27, 2023**, pp.1-22.(eSCI, I.F. 2.4)

DOI: <https://doi.org/10.1007/s40899-023-00963-7>

Strength Properties and Durability of Concrete Prepared from Sugarcane Bagasse Ash and Stone Dust,

Pooja Jha, A. K. Sachan, and **R.P. Singh**

article Sugar Tech, vol. 24(1), **Year 2022**, pp.746-763, (**SCI Indexed**)

DOI:10.1007/s12355-021-01047- 6

Investigation on the durability of concrete with partial replacement of cement by bagasse ash (BAH) and sand by stone dust (SDT)

Pooja Jha, A. K. Sachan, and **R. P. Singh**

article Materials Today: Proceedings, Volume 43, **Year 2021**, pp. 237-243. (**Scopus Indexed**)

DOI: <http://doi.org/10.1016/j.matpr.2020.11.652>

Agro-waste sugarcane bagasse ash (ScBA) as partial replacement of binder material in concrete
Jha, P., Sachan, A. K. and **Singh, R. P.**

article Materials Today: Proceedings, Volume 44, Year 2021, pp. 419-427.

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Ramp Pal Singh, Vasudevan Mangottiri ., Balaganesh Pandiyan .,

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Microstructure Analysis of Concrete: Utilizing Bagasse ash waste as partial replacement of cement

Pooja Jha, Sachan A. K. and **Singh, R.P.**

article Indian Journal of Environmental Protection (IJEP), Volume 40, **Year 2020**, pp. 269 - 275

Standardised nanostructured Ta/N-TiO₂ For environmental contaminants: an efficient visible light induced photochemical quencher for dyes

Kamini Gupta ., Jatinder Kumar, **R. P. Singh**, Anjana Pandey., Priya Rai and, Ashutosh Pandey

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DOI: [10.1080/10667857.2019.1628331](https://doi.org/10.1080/10667857.2019.1628331)

Dissipation Kinetics of Hexaconazole and Lambda-Cyhalothrin Residue in Soil and Potato Plant
Ragini Devi, A K Sachan, and **R P Singh**

Article Potato Research, Volume 62, **Year 2019**, pp. 411-422 .

DOI: [10.1007/s11540-019-9418-3](https://doi.org/10.1007/s11540-019-9418-3)

Assessment of Noise Pollution during Deepawali at Allahabad

Mohd. Nafees, Satyendra Nath and **Singh, R.P.**

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A Dimensionless approach to model granule size variation in UASB Reactor

Singh, V, **Singh, R.P.** and Pandeya, N.D.

article International Journal of Science, Engineering and Management, Volume 3, **Year 2018**, pp. 14 - 20

Synthesis, characterization of nano-sized anatase TiO₂ and its adsorption behaviour for environmental contaminant

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article Cellular and Molecular Biology, Volume 63, **Year 2017**, pp. 18--20

Photochemical quenching of aqueous methylene blue by N, Nb co-doped TiO₂ nanomaterials under visible light: a confirmatory UV/LC-MS study

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A Dimensionless Approach to model Hydraulic Conductivity of Soil-Flyash Mixtures , Pandey, A. and **Singh, R.P.**

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DOI:ISBN: 978-93-85832-29-1

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Gandhi, S., and **Singh, R. P.**

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Chanduka, L., **Singh, R. P.** and Dhir, A.

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Mass transfer kinetics using two-site interface model for removal of Cr (VI) from aqueous solution with cassava peel and rubber tree bark as adsorbents

M. Vasudevan: P.S. Ajithkumar: **R.P. Singh** and N. Natarajan

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Web-GIS based Framework for Solid Waste Complaint Management for Sustainable and Smart City

Singh, Yadvendra P., Singh, A. K. and **Singh, R.P.**

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Influencing Factors of Granule Size in UASB Reactor and Mathematical Approach for Its Prediction

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Selection of a suitable Surfactant based on Zeta Potential for use as Purging solution in Electrokinetic Remediation of Cadmium from Cadmium contaminated soil.

Arti Alok, R.P. Tiwari, and **R.P. Singh**

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Impacts of Stubble burning on ambient air quality of a critically polluted area- Mandi-Gobindgarh

R. Singh, L. Chanduka and A. Dhir

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Evaluation of Kinetics of Leaching of Lignins and Tannins in Batch Adsorption of Cr (VI) by Emblica officinalis Leaf Powder (EOLP)

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DOI: <http://dx.doi.org/10.6000/1929-6037.2014.03.04.7>

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A Dimensionless approach for rate of Re-aeration in River Ganges

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Singh, R.P., Zahra F., Savio W. and Prasad, S.C.

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Organic loading rate/Flow rate regulation during start-up phase in UASB Reactor

Singh, R. P. and Ojha, C.S.P,

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Flow Distribution Parameters in Relation to Flow Resistance in an Upflow Anaerobic Sludge Blanket Reactor System

Ojha, C.S.P. and **Singh, R.P.**

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Nutrient's Requirement for UASB Process : a review

Singh, R.P., Kumar, S. and Ojha, C.S.P, "

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Conference Papers

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M. A. Ansari, A. K. Mandrawalia & **R.P. Singh**

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BIOCHAR for Environmental and Structural Uses: A Review,

M. A. Ansari, **R.P. Singh**, and A. K. Mandrawalia (**2025**) (**Scopus Indexed**)

Conference Paper : Ist International Conference in Structural and Geotechnical Engineering, held at IIT Patna, Patna during **February 06-08, 2025**. To be published shortly in Springer Nature journal.

Properties of Concrete with Bagasse Ash and Stone Dust Exposed to Sulphate Attack

Jha, P., Sachan, A. K., and **Singh, R. P.**

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Assessment of Land use Land cover and Environmental Indicators of Ghaghara River

Amit Kumar Pandey, H.K. Pandey and **R. P. Singh**

Conference Paper : 6th International on Bio-Technology Intervention for Health, Agriculture and Circular Economy (BIOSANGAM-2024), Published in Proceedings of BIOSANGAM -2024, held at MNNIT Allahabad, Prayagraj during **February 23-25, 2024**, p.149, Paper ID: PI:197.

Impacts of Metal Contaminated Soils on Agricultural Produce through measurements of Magnetic Susceptibility

Himanshu Hanumant Singh and **Ram Pal Singh**

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Utilization of Stone Dust as an effective alternative for Sand Replacement in Concrete

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Study on the Effect of Supplementary Cementitious Materials (SCM) as Cement Replacement on the Properties of Concrete

Pooja Jha, A.K. Sachan, and **R.P. Singh**

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A Dimensionless approach to model granule size variation in UASB Reactor: Model development and its Validation

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Conference Paper 6th World Conference on Applied Science and Engineering, held at Goa, India, during, January 2-3, 2018 , **Year 2018**

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Singh, Y.P., Singh, A.K. and **Singh, R.P.**

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S. Gandhi .,and **R. P. Singh**

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Ram Pal Singh and P. Pal

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Effect of Purging Solution's pH on Electro-kinetic remediation of cadmium contaminated soil
Alok, Arti and Tiwari, R.P. and **Singh, R.P.**

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