

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 Groundwater Quality using Statistical and Hydro-chemical Approaches: A Case Study of Mahoba District, India

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

article : *Water Air Soil Pollution*, published online **October 2025**, Publisher: Springer, pp.1-27

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

Assessment of Magnetic Susceptibility of Metal Contaminated Industrial Soils in Prayagraj, India.

Himanshu Hanumant Singh, **Ram Pal Singh**, H. K. Pandey and Aman Kumar

article : *Soil and Sediment Contamination: An International Journal*, Publisher : Taylor & Francis group LLC, published online, **August 2025**, pp 1-25

DOI: : <https://doi.org/10.1080/15320383.2025/2598574>

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.

DOI:<http://doi.org/10.1016/j.matpr.2020.09.751>

Understanding the variability in Estimation of Water Quality of Lakes and Reservoirs

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

article IOP Conference series: Materials Science and Engineering (Open Access), Volume 955, Year 2020, pp. 1 – 9.

DOI:10.1088/1757-899X/955/1/012085

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

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

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DOI:10.1007/s11540-019-9418-3

Assessment of Noise Pollution during Deepawali at Allahabad

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

article Indian Journal of Environmental Protection (IJEP), Volume 39, **Year 2019**, pp.384 – 386.

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

Gupta, K., Pandey, A. and **Singh, R. P.**

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

Gupta, Kamini, Pandey, Ashutosh and **Singh, R. P.**

article Materials Research Express, Volume 4, **Year 2017**, pp. 1-12.

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

Empirical Formulation of Flow Characteristics in Trapezoidal Channels

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

Article Journal of The Institution of Engineers (India): Springer Series A, Volume 97(3), **Year 2016**, pp. 247-253, e-ISSN: 2250-2157, Indexed in Astrophysics Data System.

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

article Journal of Pollution Effects & Control, Volume 8(1), **Year 2016**, pp.141-148 (Open access).

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

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Yadvendra Pratap Singh, **Ram Pal Singh**, A. K. Singh and D.K. Yadav

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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)

Ram Pal Singh, and Fatma Zahra

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Mixing Kinetics in Batch Adsorption of Chromium(VI) by Emblica officinalis Leaf Powder
Ram Pal Singh, and Fatma Zahra

article International Journal of Advanced Technology in Engineering and Science (IJATES), Volume 2, Special issue No. 1, **September 2014**, pp.349—357, ISSN (Online: 2348-7550. (I.F. 5.8)

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

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

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Identification of Principal Hydraulic Jump Characteristics in Prismatic and Non-Prismatic Channels: Principal Component Analysis

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

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DOI:10.1061/(ASCE)EE.1943-7870.0000050

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

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

article Journal of Institution of Engineers (India), IEI, vol.89,N0. (4), **Year 2009**, pp.25 – 29, Published by The Institution of Engineers (India) Kolkata, **ISSN : 0251 – 110X**.

Selection of suitable aggregation function for estimation of river pollution index for river Ganges in India

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"Monitoring of Variation in the Water Quality of River Ganga at Sangam in Allahabad,

Singh, R.P., S. Nath, S. C. Prasad and H. Verma,

article Indian Journal of Environmental Protection, (IJEP), vol.27, Issue 8, **Year 2007**, pp.680-688, Published by Kalpana Corporation, Varanasi., **ISSN:0253-7141**.

Deterministic models for line source emission: A Review
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article Journal IAEM, vol.33, Issue 3, **Year 2006**, pp.163-167.

Flow Distribution Parameters in Relation to Flow Resistance in an Upflow Anaerobic Sludge Blanket Reactor System
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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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DOI: [https://doi.org/10.1016/S1369-703X\(98\)00043-6](https://doi.org/10.1016/S1369-703X(98)00043-6)

A Critique on Operational Strategies for Start-up of UASB Reactors: Effects of Sludge Loading Rate and Seed/ Biomass Concentration
Singh, R.P., Kumar, S. and Ojha, C.S.P.
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A Study of Removal of Hexavalent Chromium by Adsorption on Sawdust
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Conference Papers

Performance evaluation of Sewage Treatment Plant in Prayagraj City by Removal Efficiency and Compliance Index
Mangal Manidweep and **Ram Pal Singh**
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FTIR Spectroscopic Characterization of Sewage Sludge Biochar
M. A. Ansari, A. K. Mandrawalia & **R.P. Singh**
Conference Paper: International Conference on Innovations and Sustainability in Civil Engineering: Shaping Tomorrow's Infrastructure (ISCESTI-2025), Accepted for publication in Scopus indexed Proceedings of the conference, held at IIT Patna, Patna during **May 14-16, 2025**.
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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.**

Conference Paper: National Conference on Recent Advances in Structural Engineering: Select Proceedings of NCRASE 2020, Lecture notes in Civil Engineering, Vol. 135, Year 2021, pp. 29 – 37, (**Scopus Indexed**)

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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**

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.102, Paper ID: PI:188.

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

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

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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**

Conference Paper Energy and Environmental Technologies for Sustainable Development (CHEM-CONFLUX 20), **Year 2020**

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

Singh, V., **Singh, R. P.**, Pandey, A. and Pandey, N.D

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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A Dimensionless approach to model Hydraulic Conductivity of Soil-Flyash mixtures

Pandey, A. and **Singh, R. P.**

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Modelling Reaeration phenomenon in River using Dimensionless approach

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Using Smart Phone for lodging solid waste complaint and its monitoring in Web GIS based System

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Hydraulic Jump Characteristics in Non-Prismatic Channels

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

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Appraisal of certain anaerobic digestion studies

Ram Pal Singh and P. Pal

Conference Paper: International Conference AEST-2014, held at Houston, Texas, U.S.A., Volume 1, **Year 2014**, Pages 159—166.

Factors affecting granulation and granule size development in UASB Reactor: A Review

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Disasters Induced by Water Pollution

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Singh, Ram Pal

Conference Paper: International Conference on Case Histories in Geotechnical Engineering, held at Chicago, U.S.A. during May 1-5, 2013, **Year 2013**, Pages 6—14.

Performance Evaluation of Reverse Osmosis Membrane in water treatment

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Evaluation of kinetics of Cr(Vi) adsorption onto Embilica officinalis leaf powder

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Conference Paper: IITK-BARC Workshop cum 17th National Symposia on Advances in Environmental Monitoring and Modeling, held at I.I.T. Kanpur, **May 2010**, pp.90-100, (Published in Proceedings).

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