

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. 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, 2021, ISBN: 978-981-16-6556-1
{Part of the lecture notes in Civil Engineering Book Series (LNCE, Volume 196)}
DOI: 10.1007/978-981-16-6557-8-5
2. 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.
3. Properties of Concrete with Bagasse Ash and Stone Dust Exposed to Sulphate Attack
Jha, P., Sachan, A. K., and **Singh, R. P.**
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,
DOI: https://doi.org/10.1007/978-981-33-6389-2_4
4. Utilization of Stone Dust as an effective alternative for Sand Replacement in Concrete
Pooja Jha ., A. K. Sachan ., R. P. Singh .,
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:10.1007/978-3-030-51485-3_34
Link: http://link.springer.com/chapter/10.1007%2F978-3-030-5151485-3_34

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

Response surface method approach for analysing flow characteristics in an expanding channel
Sumit Gandhi, Yogesh Iyer Murthy and Ram Pal Singh

article : Engineering and Computational Mechanics, ICE journal, Emerald Publishing, First published Online June 2024, pp. 1-14.

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

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>

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

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

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

article Sugar Tech, vol. 24(1), Year 2022, Page: 746-763, 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, Pages 237-243

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, Pages 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, Pages 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, Pages 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 ., Ashutosh Pandey

article Materials Technology, Volume 34, Year 2019, Pages 765--775
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

Article Potato Research, Volume 62, Year 2019, Pages 411-422 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, Pages 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, Pages 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, Pages 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 and Pandey, Ashutosh and Singh, R. P.

article Materials Research Express, Volume 4, Year 2017, Pages 1-12

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

article International Journal of Advances in Civil Engineering, Volume 4, Year 2017, Pages 57-61
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, Pages 247-253, e-ISSN: 2250-2157, Indexed in Astrophysics Data System.
DOI:10.1007/s40030-016-0153-3

Non-linear regression models for PM₁₀ and PM_{2.5} concentrations in Ambient Air due to burning of crop residues
Chanduka, L., Singh, R. P. and Dhir, A.

article Journal of Pollution Effects & Control, Volume 8(1), Year 2016, Pages 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: N. Natarajan

article Environmental Engineering Research, Volume 21 (2), Year 2016, Pages 152--163

Web-GIS based Framework for Solid Waste Complaint Management for Sustainable and Smart City
Singh, Yadvendra P., Singh, A. K. and Singh, R.P.

article International Journal of Advanced Remote Sensing and GIS, Volume 5 (10), Year 2016, Pages 1930—1936 (Open access)

Influencing Factors of Granule Size in UASB Reactor and Mathematical Approach for Its Prediction
Singh, Vidya, Singh, R.P and Pandeya, N.D.

article International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 4, Year 2015, Pages 4904--4909

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

article Oxidation Communications, Volume 38 (3), Year 2015, Pages 1511--1520

Using GIS and Remote Sensing Technique for Zoning of Wastewater Drainage of Allahabad City
Yadvendra Pratap Singh, Ram Pal Singh, A. K. Singh and D.K. Yadav

article International Journal of Advanced Remote Sensing and GIS, Volume 4 (1), Year 2015, Pages 1419—1434 (Open access)
DOI: [10.23953/cloud.ijarsg.126](https://doi.org/10.23953/cloud.ijarsg.126)

Evaluation of Kinetics of Leaching of Lignins and Tannins in Batch Adsorption of Cr (VI) by Emblica officinalis Leaf Powder (EOLP)
Ram Pal Singh, Fatma Zahra

article Journal of Membrane and Separation Technology, Volume 3, No. 4, Year 2014, Pages 232—242. E-ISSN: 1929 – 6037/14,
DOI: <http://dx.doi.org/10.6000/1929-6037.2014.03.04.7>

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

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

Effect of pH of Anolyte in Electrokinetic Remediation of Cadmium Contaminated Soil
Alok, Arti and Tiwari, R. P. and Singh, R. P.

article International Journal of Engineering Research & Technology (IJERT), Volume 1, Issue 10, Year 2012, Pages 1—11., ISSN: 2278-0181

A Dimensionless approach for rate of Re-aeration in River Ganges
Singh, R. P.

article International Journal of Science, Spirituality, Business and Technology (IJSSBT), Volume 1, issue 1, Year 2012, Pages 56—61., ISSN (print) : 2277 - 7261

Identification of Principal Hydraulic Jump Characteristics in Prismatic and Non-Prismatic Channels:
Principal Component Analysis
Gandhi, S., and Singh, R. P.

Article International Journal of Water Resources and Environment Management, Volume 2, Issue 1, Year 2011, Pages 77-89. Published by Research Science Press, New Delhi (India), ISSN:2229-5933.

Enhanced Remediation of Cadmium and Copper from clayey Soil
Alok, Arti and Tiwari, R. P. and Singh, R. P.

article Oxidation Communications, Volume 33, Issue 3, Year 2010, Pages 583—592. Published by journal of the Balkan tribological association.

Axial dispersion and mass-transfer controlled simulation study of chromium (VI) adsorption onto tree leaves and activated carbon
Singh, R.P., Zahra F., Savio W. and Prasad, S.C.

article Journal of Environmental Engineering Division, ASCE, vol.135, Issue 10, Year 2009, pp.1071-1083, Published by Journals Department, ASCE, 1801, Alexander Bell Drive, Reston, VA 20191-4400. ISSN:0733-9372/2009/10-1071-1083/\$25.00
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, Year 2009, pp.25 – 29, 04/2009, 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

Singh, R. P., Satyendra Nath, S. C. Prasad and A. K. Nema,

article Journal of Environmental Engineering Division, ASCE, vol.134, Issue 8, Year 2008, pp.689-701, Published by Journals Department, ASCE, 1801, Alexander Bell Drive, Reston, VA 20191-4400.

DOI:10.1061/(ASCE)0733-9372(2008)134:8(689)

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

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

article : a Technical Note; Journal of Environmental Engineering Division, ASCE, vol.128, Issue 2, Year 2002, pp.196-200, Published by Journals Department, ASCE, 1801, Alexander Bell Drive, Reston, VA 20191-4400.

DOI:10.1061/(ASCE)0733-9372(2002)128:2(196)

"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

Singh, B.K., Singh, R. P., Singh A.K. and Prasad, S.C.

article Journal IAEM, vol.33, Issue 3, Year 2006, pp.163-167.

Nutrient's Requirement for UASB Process : a review

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

article : Biochemical Engineering Journal, vol.3 (01), Year 1999, pp.35-54, Published by Elsevier Science, S.A.

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.

article : Biochemical Engineering Journal, vol.1, Year 1998, pp.107-119, 01/1998, Published by Elsevier Science, S.A.

DOI: [https://doi.org/10.1016/S1385-8947\(97\)00086-7](https://doi.org/10.1016/S1385-8947(97)00086-7)

A Study of Removal of Hexavalent Chromium by Adsorption on Sawdust

Singh, R.P., Vaishya, R.C. and Prasad, S.C

article : Indian Journal of Environmental Protection (IJEP), vol.12 (12), Year 1992, pp.916-922

Conference Papers

Impact of Metal Contaminated Soils on Agriculture Produce through measurement of Magnetic Susceptibility: A Review.

Himanshu Hanumant Singh, **Ram Pal Singh** and H. K. Pandey, (2024)

Conference Paper : International conference BIOSANGAM-2024, Published as Poster in Proceedings of Conference, held during February 23-25, 2024 at MNNIT Allahabad.

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,

DOI: https://doi.org/10.1007/978-981-33-6389-2_4

Utilization of Stone Dust as an effective alternative for Sand Replacement in Concrete
Pooja Jha. A. K. Sachan ., R. P. Singh .,

Conference Paper 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, Pages 513-526.

DOI:10.1007/978-3-030-51485-3_34

Link: http://link.springer.com/chapter/10.1007%2F978-3-030-5151485-3_34

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

Pooja Jha, A.K. Sachan, 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

DOI:01.1617/vol5iss1pid001011

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

Pandey, A. and Singh, R. P.

conference paper ASAR International Conference, held at New Delhi, India, during, June 04, 2017, pp.57-61, ISBN: 978-93-85832-29-1.

DOI:01.1617/vol5iss1pid001011

Modelling Reaeration phenomenon in River using Dimensionless approach
Pandey, A. and Singh, R.P.

conference paper 7th International Conference on Advances in Civil and Structural Engineering (CSE-2017), held at Kuala Lumpur, Malaysia, July 01-02, 2017, Pages 31-35, ISBN:978-01-63248-127-6,
DOI:10.15224/978/1-63248-127-6-37

Using Smart Phone for lodging solid waste complaint and its monitoring in Web GIS based System
Singh, Y.P., Singh, A.K. and Singh, R.P.

conference paper International Conference on Urban Geoinformatics (ICUG-2017), held at Teri University, New Delhi during February 22-23, 2017.

Hydraulic Jump Characteristics in Non-Prismatic Channels
S. Gandhi ., R. P. Singh .,

Conference Paper ISHS 2014 - Hydraulic Structures and Society - Engineering Challenges and Extremes: Proceedings of the 5th IAHR International Symposium on Hydraulic Structures, held at Brisbane, Australia, August 2014, pp. 678-686. ISBN: 9781742721156
DOI:10.14264/uql.2014.14

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
Singh, Vidya, Singh, R.P. and Pandeya, N.D.

conference paper International Conference on Recent Trends and Challenges in Civil Engineering (RTCCE-2014), held at MNNIT Allahabad, Volume 1, Year 2014, Pages 281--286

Effect of purging solution 's pH on electrokinetic remediation of cadmium contaminated soil Alok, Arti and Tiwari, R.P. and Singh, R.P.

conference paper : International Conference on Recent Trends and Challenges in Civil Engineering (RTCCE-2014), held at MNNIT Allahabad, Year 2014, Pages 240-245

Disasters Induced by Water Pollution
Singh, R.P.

conference paper : In Workshop on Disasters and Their Management", Workshop on Disasters and Their Management, MNNIT, Allahabad, Year 2014, pp.157-175, Published in Proceedings)

Simulation Studies on Inorganic and Organic Contaminants Transport in Sanitary Landfills
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
Tiwari, M. K. and Singh, Ram Pal

conference paper : International Conference on Advances in Environmental Engineering, held at I.I.T. Guwahati, Assam in March 2012, pp.84- 91, Year 2012, Published By Springer International Publishing.

Evaluation of kinetics of Cr(Vi) adsorption onto Embilica officinalis leaf powder
Fatma Z. and Singh, R.P.

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).

Use of ANN and Neuro-fuzzy models for prediction of vehicular exhaust emissions. A case study of Oslo City, Norway
Manoj K. Unni and Singh, R.P.

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.184-188, (Published in Proceedings).

Modelling of Dissolved Oxygen Behaviour in Fast Moving Shallow Hilly Streams
Singh, R. P., M. Barman, and C.S.P. Ojha

conference paper International conference on “Water, Environment, Energy and Society (WEES-2009), New Delhi, pp.1171-1178, Year Jan. 2009, Published By Allied Publisher Pvt. Ltd., New Delhi.

Modelling of Dissolved Oxygen Behaviour in Fast Moving Shallow Hilly Streams
Singh, R. P., M. Barman, and C.S.P. Ojha

conference paper International conference on “Water, Environment, Energy and Society (WEES-2009), New Delhi, pp.1171-1178, Year Jan. 2009, Published By Allied Publisher Pvt. Ltd., New Delhi.

Design of Concrete Pavements: New Code of Practices
Singh, R.P.

conference paper : Workshop on Design of Rural Roads: New Code of Practices, held at MNNIT, Allahabad, April 2009. (Published in Proceedings).

Design of Cement Concrete Pavement for Rural Roads
Singh, R.P.

conference paper : Workshop on Design of Rural Roads: New Code of Practices, held at MNNIT, Allahabad, April 2009, pp.1-12. (Published in Proceedings).

Transport and Interactions in Bacterial adhesion in River Bank Filtration
Singh, R.P.

conference paper EU-India International River Bank Filtration Conference, *held at* I.I.T. Roorkee, Uttaranchal, November 2006.

Identification of Cost Functions for Optimization of Wastewater Treatment Plant Design and Operation
Singh, R.P.

conference paper Indo-Australian International Conference on Information Technology in Civil Engineering, UAC-ITCE, I.I.T. Roorkee, Uttaranchal, 02/2006

"Use of Local Materials, Industrial Wastes in Rural Road Constructions & Influence of Environmental Factors
Singh, R.P.

conference paper NRRDA sponsored Training Programme for Field Engineers, held at NERIST, Nirjuli, Arunachal Pradesh, January 2004, pp.23-41, (Published in Proceedings).

Simulation of a UASB Reactor Performance Treating Whey Permeate Wastewater
Singh, R.P. and Ojha, C.S.P.

conference paper Water and Environment Series, IWA, held at I.I.T. Delhi, Year December 2002, pp.787-796, Published By IWA Publishing: Alliance House, 12 Caxton Street, London, SW1H 0QS, UK

Community-based Training and Organisational Set-up for Disaster Management
Singh, R.P.

conference paper In Training cum workshop on Community-based Training on Disaster Management, held at NERIST, Nirjuli, Arunachal Pradesh, October 2002, pp.35-37 (Published in Proceedings).

Water Quality Monitoring of Dikrong River in Arunachal Pradesh
Singh, R.P., Ojha, C.S.P., Jha, D.K., Khongthaw, M.M., Murtem, T. and Sonam, B.

conference paper International Conference on Construction Industry, Environment Management and Disaster Management, held at Chandigarh (INDIA), November 2000, pp.840-853.

Settling Characteristics of Granules in UASB Reactor",
Singh, R.P., Kumar, S. and Ojha, C.S.P.,

Conference paper International Seminar on Civil Engineering Practices in Twenty-first Century,
held at University of Roorkee, Roorkee, Uttaranchal, February 1996, pp.1508-1517.
