

Prof. Pankaj Srivastava

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DOB: 05-07-1963

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Academic Record:

M.Sc. (Applied Geology, 1986, UOR (IIT Roorkee)

Ph.D. (Earth Sciences, 1993, UOR (IIT Roorkee)

Professional Record:

Professor: 2009- till date, Department of Geology, Univ. Delhi, Delhi India

Associate Professor: 2006 – 2009, Department of Geology, Univ. Delhi, Delhi India

Reader: 2003-2006, Department of Geology, Univ. Delhi, Delhi, India

Soil-Micromorphologist (T6-7): 1994-2002, ICAR, NBSSLUP, Nagpur, India

RA-CSIR (1994), SRF-CSIR (1989-1992), JRF (1987-1989) UOR, Roorkee

Award/Fellowships:

2018: Fellow Clay Mineral Society of India

2017: DFG-INSF Fellowship (University of Tübingen, Germany)

2012: DFG-INSF Fellowship (University of Hohenheim, Stuttgart, Germany)

2007: ACU Titular Fellowship (Oxford University, UK),

2002: DAAD Fellowship, 1994: CSIR RA, 1989-1992: CSIR SRF, 1987-1989: OADB JRF

Publications: Total **56**: Research Papers in Sedimentology-1 (IF 3.244), Journal of Sedimentary Research-1 (IF 2.4); Earth Surface Processes and Landforms-1 (IF 3.55), Earth Science Reviews-1 (IF 9.53), Sedimentary Geology-2 (IF 2.66), Palaeogeogr. Palaeoecol. Paleogeo.-2 (IF 2.33), Quaternary Research-1 (IF 2.54), Quaternary International-2 (IF 2.06), Catena-8 (IF 3.191), Geoderma-3 (IF 4.036), Applied Clay Science-1 (IF 2.46), Clay Minerals-2 (IF 1.734), Clays and Clay Minerals-2 (IF 1.61), Australian Journal of Soil Research-1 (IF 2.10), Z. Geomorphologie-1 (IF 0.74), Tectonophysics-1 (IF 2.87); Research Papers in National Journals-15; Full Book-1, Book Chapters-3, Research Reports-4, Research Bulletin-1.

Citation: **2357** (www.scholar.google.com), H-Index **27** (www.scholar.google.com),

1306 (www.scopus.com), H-Index **22** (www.scopus.com), Cited in **65** Books/encyclopedias on Sedimentology and Geomorphology

Teaching: 2003 onwards: Delhi University; B.Sc., M.Sc., M.Phil., PhD: Sedimentary Geology, Sedimentary Environment, Earth Surface Processes, and Paleopedology

Supervision: PhD: 5 (Awarded), MPhil: 2, MSc: 29 (Awarded), PhD-2 (in progress)

Lab setup: Paleopedology Micromorphology, PSD, Clay mineralogy, and Geochemistry

- Projects:** 1). Early Oligocene paleosolsmonsoon in HFB (SERB, 27 Lakh, completed)
2). Loess-paleosols Alluvial Fans: Kangra Basin (DST, Rs. 25 Lakh, completed)
3). Ganga-Yamuna Interfluvial Stratigraphy (DST, 24 Lakhs, completed)
4.) Spatial variability --Yamuna River (DU/DST/PURSE, Rs. 21 Lakhs, completed)
5.) Paleopedological --Siwalik succession (MOES, 92 Lakhs, DU-KU-WIHG, in progress)
6.) Indo-Russian joint project on Quaternary paleosols (SERB-RFBR, 25 Lakh, in progress)

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Publication list of Prof. Pankaj Srivastava

Research Papers in International Journals

1. **Srivastava, P. Pal. D.K. 2023.** Palygorskite in Indian Tropical Soils: A Clay Mineral of Pedogenic, Geogenic, or Climate-induced origin – a Mechanistic Review. **Clays and Clay Minerals** (Springer, IF: 2.2), accepted.
2. Kumar, R. *, Hameed, A. *, **Srivastava, P. ** 2023.** Clay mineralogical evidence of near-equatorial Paleocene-Eocene Thermal Maxima (PETM) in Barmer Basin, India. **Clay Minerals**, <https://doi.org/10.1180/clm.2023.19>, (Cambridge Univ. Press), (IF: 1.734, *Student doing PhD, **Corresponding Author), Q3, SJR 0.290
3. Upreti, N. *, **Srivastava, P. ** 2020.** Role of latitudinal shift and climate change in evolution of red and yellow paleosols of NW Himalaya: Implications for Early-Oligocene seasonality and Mid-Miocene enhanced precipitation. **Sedimentology** 67: 2189-2221 (Doi: 10.1111/sed.12699, IF: 3.244, Wiley), (*Student completed PhD, **Corresponding Author), Q1, SJR 1.421
4. **Srivastava, P.** Sinha, R. *, Deep, V. *, Singh, A. *, Upreti, N. * 2018.** Micromorphology and sequence stratigraphy of the interfluvial paleosols from Ganga Plains: A record of alluvial cyclicity and paleoclimate during the late Quaternary. **Journal of Sedimentary Research** 88: 1-24. (IF: 2.427, SEPM publication), (*Students of MSc. & PhD, **First & Corresponding Author), Q1, SJR 0.805
5. Khan, I. *, Amir, M. *, Paul, D. *, **Srivastava, P. ** 2018.** Late Holocene aridification recorded in the stable carbon and nitrogen isotope composition of soils from Nainital, Lesser Himalaya. **Quaternary International** 467: 195-203. (IF 2.199, Elsevier), (*Collaboration with IITK, **Co-author), Q1, SJR 0.856
6. Hameed, A. *, Raja, P. **, Ali, M. *, Upreti, N. *, Kumar, N. **, Tripathi, J.K. **, **Srivastava, P. *** 2018** Micromorphology, Clay mineralogy, and Geochemistry of calcic-soils from Western Thar Desert: Implications for origin of palygorskite and southwestern monsoonal fluctuations over the last 30 ka. **Catena** 163, 378-398. (IF: 3.191, Elsevier), (*Students doing MSc and PhD., **Collaboration with ICAR, GSI, JNU, ***Corresponding Author), Q1, SJR 1.472
7. Spinola, D. N. *, Portres, R.C. *, Srivastava, P. **, Torrent, J. *, Barrón, V. *, Kühn, P. * **2018.** Diagenetic reddening of Early Eocene paleosols on King George Island, Antarctica. **Geoderma** 315: 149-159. (IF 4.33, Elsevier publication), (*Collaboration with Tübingen, Germany, INSA Exchange visit, **Co-author). Q1, SJR 1.933
8. **Srivastava, P. *, Aruche, M. **, Arya, A. **, Pal, D.K. ***, Singh, L. P. *** 2016.** A micromorphological record of contemporary and relict pedogenic processes in soils of the Indo-Gangetic Plains: Implications for mineral weathering, provenance and climate changes. **Earth Surface Processes and Landforms** 41: 771-790. (doi:10.1002/esp.3862). (Impact Factor: 3.697, Wiley Publication), (*First & Corresponding Author, **Students completed PhD., **Collaboration with ICAR & GSI). Q1, SJR 1.177

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9. **Srivastava, P. ***, Pal, D.K. **, Aruche, M. ***, Wani, S.P. **, Sahrawat, K.L. ** **2015**. Soils of the Indo-Gangetic Plains: A pedogenic response to landscape stability, climatic variability and anthropogenic activity during the Holocene. **Earth Science Reviews** 140:54-71; DOI 10.1016/j.earscirev.2014.10.010). (IF: 9.53, Elsevier Publication), (*First & Corresponding Author, **Collaboration with ICAR, ***Students completed PhD.), **Q1, SJR 3.807**
10. Pal, D.K. *, Wani, S.P. *, Sahrawat, K.L. *, **Srivastava, P. **** **2014**. Red ferruginous soils of tropical Indian environments: A review of the pedogenic processes and its implications for edaphology. **Catena** 121:260-278. (IF: 3.256, Elsevier Publication), (*Collaboration with ICAR **Co-author).
11. **Srivastava, P. ***, Saur, D. ** **2014**. Thin-section analysis as a tool to resolve the effects of burial diagenesis of lithified paleosols for paleoenvironments: an example from the oldest fossil soils of the Himalayan Foreland. **Catena** 112: 86-98. (IF: 3.256, Elsevier Publication), (*First & corresponding author, **Collaboration with Stuttgart, Germany, INSA Exchange visit).
12. **Srivastava, P. *** Patel, S. **, Singh, N. **, Jamir, T. **, Kumar, N. **, Aruche, M. **, Patel, R.C. *** **2013**. Early Oligocene paleosols of the Dagshai Formation: A record of the oldest tropical weathering in the Himalayan foreland. **Sedimentary Geology** 294:142-156. (Impact Factor: 2.665, Elsevier Publication), (*First & corresponding author, **Students of M.Sc. and PhD, ***Collaboration with Kurukshetra University). Q1, SJR 0.957
13. Pal, D.K. *, Bhattacharyya, T. *, Sinha, R. *, **Srivastava, P. ****, Dasgupta, A.S. *, Chandran, P. *, Ray, S.K. *, Nimje, A. * **2012**. Clay minerals record from Late Quaternary drill cores of the Ganga Plains and their implications for provenance and climate change in the Himalayan Foreland. **Palaeogeography Palaeoclimatology Palaeoecology** 356-357: 27-37. (Impact Factor 2.578, Elsevier Publication), (*Collaboration with IITK and ICAR, **Co-author). Q1, SJR 1.721
14. **Srivastava, P. ***, Rajak, M.K. **, Sinha, R. ***, Pal., D.K. ***, Bhattacharyya, T. *** **2010**. A high resolution micromorphological record of the Late Quaternary paleosols from Ganga-Yamuna Interfluvium: Stratigraphic and Paleoclimatic implications. **Quaternary International** 227: 127-142. (Impact Factor: 2.062, Elsevier Publication), (*First & Corresponding Author, **Student of PhD, ***Collaboration with IITK & ICAR).
15. **Srivastava, P. ***, Rajak, M. **, Singh, L. P. *** **2009**. Late Quaternary alluvial fans and paleosols of the Kangra Basin, NW Himalaya: Tectonic and paleoclimatic implications. **Catena** 76:135-154. (IF: 3.256, Elsevier Publication), (*First & Corresponding Author, **Student of PhD, ***Collaboration with GSI).
16. **Srivastava, P. ***, Singh, A.K. **, Parkash, B. ***, Singh, A.K. ***, Rajak, M. **, **2007**. Paleoclimatic implications of micromorphic features of Quaternary Paleosols of NW Himalayas and polygenetic soils of the Gangetic Plains — A comparative study. **Catena** 70: 169–184. (IF: 3.256, Elsevier Publication), (*First & Corresponding Author, **Students of PhD, ***Collaboration with IITR).

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17. Pal, D.K. *, Bhattacharyya, T. *, Ray, S.K. *, Chandran, P. *, **Srivastava, P. ****, Durge, S.L. **, Bhuse, S.R. *. **2006**. Significance of soil modifiers (Ca-zeolites and gypsum) in naturally degraded Vertisols of the Peninsular India in redefining the sodic soils. **Geoderma** 136: 210–228. (Impact Factor: 2.772, Elsevier Publication), (*Collaboration with ICAR, **Co-author).
18. Chandran, P. *, Ray, S.K. *, Bhattacharyya, T. *, **Srivastava, P. ****, Krishnan, P. *, Pal, D.K. *, **2005**. Lateritic soils of Kerala, India: their mineralogy, genesis and taxonomy. **Australian Journal of Soil Research** 43: 839-852. (Impact Factor: 2.105, CSIRO Publication), (*Collaboration with ICAR, **Co-author).
19. Pal, D.K. *, **Srivastava, P. ****, Bhattacharyya, T. *, **2003**. Clay illuviation in calcareous soils of the semiarid part of the Indo-Gangetic Plains. **Geoderma** 115:177-192. (IF 4.036, Elsevier publication), (*Collaboration with ICAR, **Co-author).
20. Pal, D.K. *, **Srivastava, P. ****, Durge, S. L. *, Bhattacharyya, T. * **2003**. Role of microtopography in the formation of sodic soils in the semi-arid part of the Indo-Gangetic Plains. **Catena** 51:3-31. (IF: 3.256, Elsevier Publication), (*Collaboration with ICAR, **Co-author).
21. **Srivastava, P. ***, Bhattacharyya, T. **, Pal, D.K. ** **2002**. Significance of the formation of calcium carbonate minerals in the pedogenesis and management of cracking clay soils (Vertisols) of India. **Clays and Clay Minerals** 50:111-126. (Impact Factor: 1.631, Clay Minerals Society, USA Publication), (*First author, **Collaboration with ICAR).
22. **Srivastava, P. ***, Parkash, B. **, **2002**. Polygenetic soils of the North-central Part of Gangetic Plains: A micromorphological approach. **Catena** 46:243-259. (IF: 3.256, Elsevier Publication), (*First & corresponding author, **PhD guide).
23. **Srivastava, P. ***, **2001**. Paleoclimatic implications of pedogenic carbonate in Holocene soils of the Gangetic Plains. **Palaeogeography Palaeoclimatology Palaeoecology** ** 172: 207-222. (Impact Factor 2.339, Elsevier Publication), (*First & corresponding author, **Paper from PhD thesis).
24. Pal, D.K. *, Balpande, S.S. *, **Srivastava, P. ****, **2001**. Polygenetic Vertisols of the Purna Valley in Central India. **Catena** 43:231-249. (IF: 3.256, Elsevier Publication), (*Collaboration with ICAR, **Co-author).
25. Pal, D.K. *, **Srivastava, P. ****, Durge, S.L. *, Bhattacharyya, T. *, **2001**. Role of weathering of the fine-grained micas in Potassium management of Indian soils. **Applied Clay Science** 20:39-52. (Impact Factor: 3.103, Elsevier Publication), (*Collaboration with ICAR, **Co-author). Q1, SJR 0.987
26. Bhattacharyya, T. *, Pal, D.K. *, **Srivastava, P. ****, **2000**. Formation of gibbsite in presence of 2:1 mineral: and example from ultisols of northeast India. **Clay Minerals** 35:827-840. (Impact Factor: 1.069, Mineralogical Society, Great Britain Publication), (*Collaboration with ICAR, **Co-author).

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27. Bhattacharyya, T. *, Pal, D.K. *, **Srivastava, P. **, 1999.** Role of Zeolites in persistence of high altitude Ferruginous Alfisols of the humid tropical Western Ghats, India. **Geoderma** 90:263-276. (IF 4.036, Elsevier publication), (* Collaboration with ICAR, ** Co-author).
28. **Srivastava, P. ***, Parkash, B. **, Pal. D.K. ***, **1998.** Clay minerals in soils as evidence of Holocene climatic change, Central Indo-Gangetic Plains, North-Central India. **Quaternary Research** 50:230:239. (Impact Factor: 2.544, Elsevier Publication), (*First & corresponding author, ** PhD guide, Paper from PhD thesis, *** Collaboration with ICAR). Q1, SJR 0.860
29. Kumar, S. *, Parkash, B. *, Manchanda, M.L. *, Singhvi, A.K. *, **Srivastava, P. **, 1996.** Holocene landform and soil evolution of the western Gangetic Plains: Implications of neotectonics and climate. **Zuschrift fuer Geomorphologie** 103:283-312. (Impact Factor: 0.743, Schweizerbart Science Publishers), (* Collaboration with IITR, ** Co-author).
30. **Srivastava, P. ***, Parkash, B. **, Sehgal, J. **, Kumar, S. **, **1994.** Role of neotectonics and climate in development of the Holocene geomorphology and soils of the Gangetic Plains between the Ramganga and Rapti rivers. **Sedimentary Geology** 94: 129-151. (Impact Factor: 2.665, Elsevier Publication), (*First & corresponding author, First PhD thesis paper, ** Collaboration with IITR & ICAR).
31. Srivastava, D. C. *, **Srivastava, P. **, 1988.** The modification of parallel folds by progressive shearing parallel to the axial plane. **Tectonophysics** 156:167-173. (Impact Factor: 2.872, Elsevier Publication), (* Collaboration with IITR, ** Co-author).

Research Papers in National Journals/magazines

32. **Srivastava, P. * 2022.** Origin and Dispersal of Agriculture Activities in the Indo-Gangetic Plains (IGP) in Response to Climate Change and Neotectonics During Holocene. **Clay Research** 41, 60-68, CMSI publication, (*First & corresponding author).
33. **Srivastava, P. * 2022.** Present is the Key to The Past: Soils to Paleosols and Their Implications for Landscape Stability (Tectonism) and Climate Change Based on Micromorphology and Clay Mineralogy. **Clay Research** 41, 1-17, CMSI publication, (*First & corresponding author).
34. Hameed, A., Kumar, R., Yadav, P., **Srivastava, P. 2021.** Micromorphology and clay mineralogy of Lower Siwalik Paleosols: Implications for landscape stability and climatic fluctuations of 2.5 ka to 10 ka intervals at 12 Ma in the Himalayan Foreland Basin. **Clay Research** 40: 110-123.
35. Kumar, R. *, Kumar, N. **, Srivastava, P. *** **2019.** Clay mineralogical and geochemical evidences of lateritic weathering at about 2.2 Ga prior to the evolution of life of Earth. **Clay Research** 38 (2): 14-20, CMSI Publication, (*PhD student, ** Collaboration with GSI, *** Corresponding author).
36. Thakre, D., Samant, B., Mohabey, Sangode, S., **Srivastava, P.**, Kapgate, D.K., Mahajan, Rasika, Upreti, N., Manchester, S.R. **2017.** A new insight into age and environments of intertrappean beds of Mohgaon Kalan, Chindwara District, Madhya Pradesh, using

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palynology, megaflora, magnetostratigraphy and clay mineralogy. **Current Science** 112: 2193-2197.

37. Samant, B.* , Mohobey, D.M.* , **Srivastava, P.**** , Thakre, D.* **2014**. Palynology and clay mineralogy of the Deccan volcanic associated sediments of Saurashtra, Gujarat: Age and Palaeoenvironments. **Journal of Earth System Science** 123, 219-232. (Impact Factor 1.040, Springer), (*Collaboration with GSI & Nagpur University, **Co-author).
38. **Srivastava, P.*** , Banerjee, B.** , Aruche, M.* , Ahmed, N.*** **2013**. Clay mineralogy of the oldest paleosols from the Himalayan foreland: Implications of Diagenetic overprinting and palaeoenvironments. **Clay Research** 32: 17-25, CMSI publication, (*First and corresponding author, **PhD students, ***Collaboration with ICAR).
39. Pal. D.K.* , Bhattacharyya, T.* , **Srivastava, P.**** , Chandan, P.* , Ray. S.K.* **2009**. Soils of the Indo-Gangetic Plains: their historical perspective and management. **Current Science** 96: 1193-1202. (Impact Factor: 0.926, Indian Academy of Sciences Publication), (*Collaboration with ICAR, **Co-author).
40. Bhattacharyya, T.* , Pal, D.K.* , **Srivastava, P.**** , Velautham, M.* **2001**. Natural Zeolites as saviour against soil degradation. **Gondwana Geological Magazine** 16: 27-29, (*Collaboration with ICAR, **Co-author).
41. Zade. S.P.* , **Srivastava, P.**** , Pal, D.K.* **2001**. Do primary minerals weather during the formation of Vertisols in India? **Clay Research** 20:57-63, CMSI Publication, (*Collaboration with ICAR, **Co-author).
42. **Srivastava, P.*** , Chandran, P.* , Ray, S.K.** , Bhattacharyya, T.** **2001**. Evidence of chemical degradation in tropical ferruginous soils of southern India. **Clay Research** 20: 31-41, CMSI Publication, (*First and corresponding author, **Collaboration with ICAR).
43. Roy, A.* , Chatterjee, A.K.* , Pal, D.K.* , **Srivastava, P.**** **2001**. Geology, chemistry and mineralogy of some Bole Beds of the Eastern Deccan Province. **Geol. Surv. Ind. Spl. Publ.** 64. 543-551, (*Collaboration with GSI & ICAR, **Co-author).
44. Bhattacharyya, T.* , **Srivastava, P.**** , Pal, D.K.* **2000**. In search of parental legacy for gibbsite in soils. **Clay Research**, 19:69-75, (*Collaboration with GSI & ICAR, **Co-author).
45. Parkash, B.* , Kumar, S.* , Rao, M.S.* , Giri, M.S.* , Kumar, S.* , Gupta, S.* , **Srivastava, P.**** **2000**. Holocene tectonic movements and stress fields in the western Gangetic Plains. **Current Science** 79:438-449. (Impact Factor: 0.94, Indian Academy of Sciences Publication), (*Collaboration with IITR, **Co-author).
46. Pal, D.K.* , **Srivastava, P.**** , Bhattacharyya, T.* **1999**. Clay Minerals as Evidence of Paleoclimatic Signature in Soils. **Gond. Geol. Mag.**, Spl. Vol. 4:169-176, (*Collaboration with ICAR, **Co-author).

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47. **Srivastava, P.***, Pal D. K. ** **1999**. Clay mineralogy of the pedogenic calcrete: a complementary approach to infer the climatic change in soils of the Indo-Gangetic Plains. **Clay Research** 17:43-56, CMSI Publication, (*First and corresponding author, **Collaboration with ICAR).

Book

48. **Srivastava, P.***, Pal, D. K. ** **2023**. Micromorphology of Soils and Paleosols of India. **Springer** (in production), 99 pp., ISBN 978-981-99-6559-5 ISBN 978-981-99-6560-1 (eBook) <https://doi.org/10.1007/978-981-99-6560-1>

Book Chapters

49. **Srivastava, P.***, Pal., D.K. **, Bhattacharyya, T. ** **2013**. Mineral formation in soils and sediments as signatures of climate change. In: T. Bhattacharyya T., D.K., Pal, D.K., D. Sarkar, P. Wani (Eds.) **Climate Change and Agriculture**. Studium Press India Pvt. Ltd. pp 223-234, ISBN: 978-93-80012-40-7, 328 pp, (*First and corresponding author, **Collaboration with ICAR).
50. **Srivastava, P.***, Pal, D.K. **, Kalbande, A.R. ** **2009**. Soil Micromorphology and its Usefulness in Soil Surveys. In: Bhattacharyya T., Sarkar, D., Pal, D. K. (Eds.) **Soil Survey Manual**. NBSSLUP Publication No 146. ISBN: 978-81-89043-25-4, pp. 149-156, (*First and corresponding author, **Collaboration with ICAR).
51. Velayutham, M.* , Pal, D. K.* , Bhattacharyya, T.* , **Srivastava, P.****, **2002**. Soils of the Indo-Gangetic Plains, India – the historical perspective. In: Abrol, Y. P., Sangwan, S. and Tiwari, M. (Eds.) **Land Use – Historical Perspectives – Focus on Indo-Gangetic Plains**. Allied Publishers, New Delhi, ISBN: 817764274X, pp. 61–70, (*Collaboration with ICAR, **Co-author).

Research Bulletin

52. Pal, D.K., Deshpande, S.B., Velayutham, M., **Srivastava, P.**, Durge, S.L., **2000**. Climate change and polygenesis in Vertisols of Purna Valley (Maharashtra) and their management **NBSSLUP Publication** No. 83, Research Bulletin, 35pp.

Research Report (Online)

53. Bhattacharyya T, (.....), **Srivastava, P.**, et al., **2006**. Morphological properties of red and black soils of selected benchmark spots in semi-arid tropics of India. **Global Theme on Agroecosystems Report no. 21. ICRISAT and ICAR**. 100 pp.
54. Bhattacharyya T, (.....), **Srivastava P.**, et al., **2006**. Estimation of carbon stocks in red and black soils of selected benchmark spots in semi-arid tropics of India. **Global Theme on Agroecosystems Report no. 28 ICRISAT and ICAR**. 86 pp.
55. Bhattacharyya T, (.....), **Srivastava P.**, et al., **2008**. Characterization of benchmark spots of selected red and black soils in semi-arid tropics of India. **Global Theme on Agroecosystems Report No. 42**. Identifying systems for carbon sequestration and increased productivity in semi-arid tropical environments (RNPS-25). (NATP), (ICAR), (ICRISAT), 388 pp.

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56. T Bhattacharyya, P Chandran, SK Ray, (Mrs) C Mandal, DK Pal, MV Venugopalan, SL Durge, **P Srivastava**,, **2007**. Physical and Chemical Properties of Red and Black Soils of Selected Benchmark Spots for Carbon Sequestration Studies in Semi-Arid Tropics of India. Global Theme on Agroecosystems Report no. 35, Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), and New Delhi, India: Indian Council of Agricultural Research (ICAR). 236 pp.

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Some of the books/encyclopedias with citation of Prof. Srivastava's research work

1. 1996, Miall, A.D. **The Geology of Fluvial Deposits**, Springer (pages 263, 349, 351 Sed. Geol., 1994).
2. 1999, Thiry, M., **Palaeoweathering, Palaeosurfaces**, Blackwell (pp 316, 320, Sed. Geol. 1994).
3. 2000, Lal, R. et al., **Global Climate Change ...**, CRC (pp 93, Geoderma, 1998).
4. 2000, Schumm S.A., et al., **Active Tectonics ..Rivers**, Cambridge (pp 206, Sed. Geol.1994).
5. Goudie, A. 2004, **Encyclopedia of Geomorphology**, Routledge (pp 637-674, Catena, 2002)
6. 2005, Blum, M.D. et al., **Fluvial Sedimentology** Blackwell (Paleo3 2001, Sed Geol 1994).
7. 2010, Stoops, G. et al., **Interpretation of Micromorphological...**Elsevier (Catena 2002).
8. 2010, Clift, P. et al., **Monsoon Evolution...** Geol Soc. Lond. (Quat Res 1998, Paleo3 2001).
9. 2013, Scott E. & Cary M. **Encyclopedia of Quaternary Science**, Elsevier, (Catena 2009, QI 2010).
10. 2017, Rattan Lal, **Encyclopedia of soil Science**. CRC (CS 2000,2009, Catena 2003, 2009).
11. 2018, Ventra, D. & Clarke, L.E. **Geology of... Alluvial Fans**: Geol Soc London (Catena 2009).
12. 2018, Stoops et al., **Interpretation of Micromorphological**. Elsevier (Sed Geol. 2013, Catena 2014).