

Publication Lists by MRCATM Associates

(I) Publication list of Dr. Pritam Paritosh Paul

1. Pritam P. Paul. $\delta^{13}\text{C}$ and $87\text{Sr}/86\text{Sr}$ signatures from carbonates of the Morar Formation, Gwalior Group: Implications towards depositional setting and Paleoproterozoic seawater chemistry. *Journal of Earth System Science*. Vol. 131:222, p.1-12, 15 October 2022.
2. ParthaPratim Chakraborty, Rahul Bailwal, Pritam P. Paul & Aditi Sharma. Alluvial Sedimentary records in Indian Precambrian Basin: Implications towards unique Precambrian sedimentary environment? *Frontiers in Earth Science*. Vol. 10. p.1-16., 11 July 2022.
3. PritamParitosh Paul and ParthaPratim Chakraborty. Mixed- diurnal tidal record from a Paleoproterozoic embayment in the Par Formation Gwalior basin, India. *Geological Journal*. Vol.57, p.1172-1185., 26 November 2022.
4. Pritam P. Paul, ParthaPratim Chakraborty, FumitoShiraishi, Kaushik Das and Atsushi Kamei And Sourabh Bhattacharya. Clue on ocean redox condition from trace element and rare earth element(REE) composition of iron formation and carbonate rocks from the late Paleoproterozoic MorarFormation, Gwalior Group, central India. *Journal of Mineralogical and Petrological Sciences*. Vol.115(2), p.175-191., 27 March 2020.
5. ParthaPratim Chakraborty, JoydipMukhopadhyay, Pritam P. Paul, Dhiraj Mohan Banerjee, Melinda K. Bera. Early atmosphere and Hydrosphere oxygenation: clues from Precambrian paleosols and sedimentary records of India. *Episodes: Journal of International Geosciences*. Vol.43, 1, p.175-186., 01 March 2020.
6. ParthaPratim Chakraborty, Sampat K. Tandon, SagnikBasu Roy, Subhojit Saha and Pritam P.Paul. N. Gupta, S. K. Tandon (eds.), *Geodynamics of the Indian plate, Evolutionary Perspectives: Proterozoic Sedimentary basins of India*. Springer Geology. p. 145-177., 29 February 2020.
7. ParthaPratim Chakraborty, Naresh Chandra Pant and Pritam P. Paul. R. Mazumder& P.G.Eriksson (Eds.), *Precambrian Basins of India: Stratigraphic and Tectonic Context: Controls on sedimentation in Indian Paleoproterozoic Basins-Clues from the Gwalior and Bijawar basins, central India*. Geological Society of London, Memoir, vol.43, p.67- 83., 30 March 2015.
8. ParthaPratim Chakraborty and Pritam Paul. The depositional character of a dry-climate alluvial fan system from Palaeoproterozoic rift setting using facies architecture and palaeohydraulics: Example from the Par Formation, Gwalior Group, central India. *Journal of Asian Earth Sciences*, vol.91,p.298-315., 14 September 2014.
9. ParthaPratim Chakraborty, Priyabrata Das, Subhojit Saha, Kaushik Das, Shruti Ranjan Mishra and Pritam Paul. Microbial mat-related structures (MRS) from Mesoproterozoic Chhattisgarh and Khariar basins, central India and their bearing on shallow marine sedimentation. *Episodes: Journal of International Geoscience*, vol.35(4), p.513-523., 4 December 2012.

(II) Publication Lists of Dr Arunangshu Mukherjee

1. MukherjeeArunangshu, NidhiDidwania, Sneha Rai, Sandeep Kumar, PriyaPahil, NC Wadhwa and DipankarSaha(2024) Combating urban waterlogging with support from underlying over-exploitedaquifer: A case study from India. Edited Book on “Managed Groundwater Recharge and Rain Water Harvesting: Outlook from Developing Countries”
<https://doi.org/10.1007/978-981-99-8757-3>, Springer, Chapter-17,pp357-374.
2. Ibkar, A., Mukherjee, A., Didwania, N., Rai, S. (2023). Impact of Urbanization on Groundwater in Changing Climatic Scenario: A Case Study.323-343. In: Thambidurai, P., Dikshit, A.K. (eds) Impacts of Urbanization on Hydrological Systems in India. Springer, Cham.
https://doi.org/10.1007/978-3-031-21618-3_17
3. MukherjeeArunangshu (2017) Discussions on the paper entitled “3-D hydrogeological model of limestone for managed aquifer recharge in Raipur of central India” of Dar et al. 2016, published online 16 April 2016, Carbonates Evaporites V 32(2) p257-259: DOI 10.1007/s13146-016-0319-0
4. Mukherjee Arunangshu, Gupta Anita, Ray Ranjan Kumar and Tewari Dinesh (2017) Aquifer response to the recharge-discharge phenomenon: inference from good hydrographs for genetic classification. Jour. Applied Water Science, Vol. 7, p.801-812DOI: 10.1007/s13201-015-0293-z
5. Mukherjee Arunangshu(2016) Automated Generic Categorization of Hard Rock Aquifers: An Innovative Approach, Indian Groundwater. V 7, 26-35.
6. Mukherjee Arunangshu (2016) Arsenic poisoning of drinking water and associated challenges of a developing nation for its mitigation and management - a case study from Central India, Arsenic Research and Global Sustainability- As2016, Stockholm, Sweden.Bhattacharya et al. Ed CRC Press, Chapter 255, p 605-06. DOI: 10.1201/b20466-280
7. Mukherjee Arunangshu(2016) Use of Geohydrological Controls to Tackle Geogenic Arsenic Contamination of Hard Rock Aquifer: A Case Study from Central India, Jour. Geotechnical Engineering. V3(2) online,23-29.
8. Gupta Anita, Kunar Subrata, Shekhar Sudhanshu and Mukherjee A (2016)Water and Food Security of the Central Indian Craton, IWRA India Jour. V5(1),12-14.
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10. Mukherjee Arunangshu ; Ray Ranjan Kumar; Tewari Dinesh ; Ingle Vijay Kumar; Sahoo Bikram Kumar and Khan M.W.Y. 2014. Revisiting the Stratigraphy of the Mesoproterozoic Chhattisgarh Supergroup, Bastar Craton, India based on Sub-Surface Lithoinformation. Jour. EarthSyst.Sci.123(3),617-632.(Impact Factor-0.794).
<http://link.springer.com/article/10.1007/s12040-014-0418-z>
11. MukherjeeArunangshu ; Ray Ranjan Kumar; Tewari Dinesh 2014.Springs, a Supplementary Source of Water Supply: A Study from Raigarh District, Chhattisgarh, Peninsular India. International Journal of Earth Sciences & Engineering (ISSN 0974-5904), V 7(2), p467-474. (Impact Factor-0.042).
12. Ray Ranjan Kumar,Mukherjee ArunangshuandRumi Mukherjee2014. Estimation of Specific Yields of individual litho-units in a terrain with multiple litho-units: A water balance approach.

- Jour. Geol. Soc. Ind. V 84(2). P.221-226 (Impact Factor-0.513)
13. Mukherjee Arunangshu, Shekhar Sudhashu 2014. Aquifer-based water security of cities of Eastern India. International Journal of Engineering Development and Research, (ISSN: 2321-9939). V 2 (1), p. 73-81.
14. Mukherjee Arunangshu 2013. Possible groundwater pollution from committed industrialization in Chhattisgarh State: "Prevention is better than cure". Bhujal News, V 28(1-4) p 47-51.
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18. Mukherjee Arunangshu, Verma J R, Tewari Dinesh, 2011. Identification of suitable area using GIS Technique for Artificial recharge of Groundwater in Chhattisgarh State. Bhujal News, (ISSN 0970-5775), V. 25(3&4), and V.26, p. 52-57.
19. Mukherjee, A. and Ray, R.K; 2010 - An alternative view on the stratigraphic position of the ~1Ga Sukhda tuff vis-a-vis Chronostratigraphy of the Precambrian of Central Indian Craton, Journal of Geology, V.118, p. 325-332. (Impact Factor-2.69)
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24. Subba Rao D.V, Mukherjee A, Khan MWY and Sridar D N; 2006 - New Occurrence of Intra basinal ignimbrites and welded tuffe from NE part of the Meso to Neo Proterozoic Chhattisgarh Basin, Bastar Craton: Implications for Petrogenesis, Jour. Geol. Soc. of India, V. 68, p. 589- 592. (Impact Factor-0.3)

25. Khan MWY, Arora Sumita and Mukherjee A: 2005- Provenance of Quaternary Alluvial Sediments along Kharun River, Raipur district, Chhattisgarh __ Implications to Geomorphologic Developments. In Indian Association of Sedimentologists, V.24(1&2),p.45-57.
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 27. Mukherjee A.; Khan MWY: 1996 - Detailed facies analysis of Deodongar Member, Chhattisgarh Supergroup, Durg– Raipur Districts, M.P. Ind. Jour. Earth Sc. V.23 (3), p. 139 – 146.
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 33. Khan MWY and Mukherjee A: 1988 – Petromineralogical studies of phosphate deposit of Dondi–Lohara, Durg District, M P. Curr. Sci V. 57, p. 188-189 (Impact Factor-1.0)
- List of full papers published in Proceedings
34. Arunangshu Mukherjee & Devinder K. Chadha (2018) Exploration Driven Groundwater Management Plan for Karst Dominated Small Isolated Geological Basin of Central Indian Craton. Proceedings of the International Symposium Trebinje KARST 2018 – Expect the Unexpected, Ed, SašaMilanović and Zoran Stevanović, pp 359-368, Published by the University of Belgrade, ISBN978-86-735-325-5
 35. Mukherjee Arunangshu, S Shekhar and K C Naik (2016) Whether overdevelopment of groundwater is also responsible for its quality deterioration in India. In proceeding of India water Week, New Delhi
 36. Mukherjee Arunangshu and Naik K C (2016) Palaeochannel-a super runoff absorber and an additional source of recharge to karst aquifer: A case study from Bilaspur city, Chhattisgarh. In proceeding of Workshop on Ground Water Sustainability in paleochannel, CGWB, Jodhpur
 37. Mukherjee A (2015) Automated generic categorization of hard rock aquifers: an innovative approach. International Conference on GW challenges:2050 at Kolkata during 13-14 Nov 2015, organized by CGWS, Kolkata.
 38. Naik K C and Mukherjee A (2015) Groundwater prospect of paleochannels. Edit Workshop volume, CGWB, SUO Allahabad 69p.

39. Sahu H K and Arunangshu Mukherjee, (2015)- Constraints on Urban Water Management in a Developing Nation: A Case Study of National Capital Territory of Delhi, India. Abstract in the Proceedings of India Water Week -2015, New Delhi, p77. Full paper incorporated in the Section S5 of CD Vol. of India Water Week -2015
40. A Mukherjee, S Shekhar, P N Singh, (2014)- Significance of natural groundwater recharge character of the Aravali Ridge: A case study from NCR-Faridabad, Haryana. In proceeding of Workshop on Ground Water Conservation in NCR, CGWB, New Delhi,
41. Arunangshu Mukherjee and Anita Gupta, (2012) - Health and food security challenges in high Arsenic aquifer areas of India- A case study from Proterozoic hard rock terrain. Poster paper presentation in World Water Week, Stockholm, Sweden, www.worldwaterweek.org, abstract volume Aug26-31,2012, p.164-165.
42. Arunangshu Mukherjee, Sudhanshu Shekhar, Ranjan Kumar Ray and Sushil Gupta, (2012)-Hydrogeological characters as guides for futuristic groundwater management planning in Chhotanagpur and Central Indian Craton, India. VI th World Aqua Congress, New Delhi, Vol-II pp.913-918
43. Subrata Kunar, Anita Gupta and Arunangshu Mukherjee, (2011)-Rainwater harvesting and artificial recharge in urban areas of Raipur city: A case study from karstic terrain of central India. In proceeding on 3rd National Ground Water Congress, March 21-22, 2011, New Delhi, pp 1-8.
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45. S Shekhar, A Mukherjee, P N Singh, Pankaj Kumar, Rajesh Chandra & Sushil Gupta(2010)-Conservation of hydrogeological heritage: A case study of Badkhal lake, Faridabad (Haryana), IVth World Aqua Congress-2010, Dec 8-10, New Delhi, Vol-II, pp 329-338.
46. Arunangshu Mukherjee and Subrata Kunar, (2010)- Impact of climate change on vulnerability of groundwater of Gypsum karst terrain. Dr D K Chadha (Ed.) Vol, Proceedings of Climate change and its impact on water resources-adaptation issues, Nov-23-24, Chandigarh, pp 16-25.
47. A. Mukherjee, J R Verma& D.Tewari. (2008)-GIS application in area demarcation for artificial groundwater recharge, In Hazra & others Edt. Advances in soil and water conservation in Indian perspective p.162- 174, Published by Soil Conservation Society of India, New Delhi. IGKV/Pub./2008/52
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49. A. Mukherjee, D. Tewari & V.K.Ingle, (2003)- Groundwater potential of Raigarh District of Chhattisgarh state. In proceedings- National seminar on Science Technology and water special reference to Chhattisgarh. Sanju Sinha and M.L.Naik Edt ,P 48-56.Pt RSS University, Raipur.
50. T.M.Hunse, D.Tewari &A.Mukherjee (2003) -Emerging Challenges in water resources before Chhattisgarh state. In Proceedings of the workshop on Emerging challenges in water resources before Chhattisgarh state A-1-10 by CGWB Raipur.

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52. D.Tewari, V.K.Ingle, &A.Mukherjee (2003) - Bhujal Punarbharan me Bridhi avam Satahi pravah ki satah upalaadho ke vikalp- Sandarbh, Chhattisgarh, Proceeding on National Seminar on “Jal Sansadhan ke khetre me Bhawi chunnawtia P- 39- 48. 16-17/Dec2003. Roorki,
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54. G.C.Pati, D.Tewari &A.Mukherjee (2000) - Optimal design for high-frequency water level recorder deployed groundwater observation network – A geostatistical approach, In proceeding -workshop on strategy for groundwater development in M.P, page T1- 7-18, by CGWB Raipur.
55. Shobhnath, A.K.Mishra, Manoj Shrivastava, G.C.Pati, D.Tewari &A.Mukherjee (2000) -Impact of Urbanization on groundwater resource of Raipur urban agglomerate. In proceeding -workshop on strategy for groundwater development in M.P, page T4 1-15, by CGWB Raipur.

(III) List of Books published by Dr A Mukherjee

1. Arsenic problem in groundwaters and its remediation in Ganga Basin, (Ed) 2017, CGWB publication
2. Hydrogeology of Select Smart Cities of India, (Ed) 2016, INC_IAH Publication
3. Proceedings of Workshop on Paleochannel at Allahabad (Ed) 2015, CGWB publication
4. Clean and sustainable groundwater in India(Ed) Springer Hydrogeology, DOI:10.1007/978.981-10-4552-3

(IV) Publication Lists of Dr Dipankar Saha

Paper Published (only in Peer Reviewed International Journals):

1. Development of a groundwater management model through the dBase facility., 1994, COMPUTER AND GEOSCIENCE, A. Mukhopadhyay, Dipankar Saha and A.K.Saha, Vol. 20, No 7&8. Impact Factor 2.15.
2. A plan for the development of groundwater through deep tube wells in Agartala-Subroom-SonamuraValley, TripuraState. E, 1994, INDIAN JOURNAL OF EARTH SCIENCE Dipankar Saha and V. Sharma, Vol. 21, No. 3. Impact Factor –
3. Distribution of iodine in the soil-water system in the Gandak basin, Bihar. JOURNAL GEOLOGICAL SOCIETY OF INDIA, 2004, N.C.Ghosh, Kabita Das, Dipankar Saha, Vol 62, pp 91-98. Impact Factor-0.899.
4. Determination of specific yield using water balance approach- a case study of TorlaOdha water shed in DecanTrapProvince, Maharastra State, India. 2006, HYDROGEOLOGY JOURNAL, Dipankar Saha, A.K.Agrawal, Vol. 14, pp. 625-635. Impact Factor-2.672

5. The aquifer system and evaluation of its hydraulic parameters in parts of South Ganga Plain, Bihar, India., 2007, JOURNAL GEOLOGICAL SOCIETY OF INDIA, Dipankar Saha, S.Upadhyay, Y.R. Dhar, R.Singh, Vol 69, pp.1031-1041. Impact Factor 0.899
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10. Evaluation of hydrochemical processes in the arsenic-contaminated alluvial aquifers in parts of Mid-Ganga basin, Bihar, India, 2009, ENVIRONMENTAL EARTH SCIENCE, Dipankar Saha, Sarangam H, Diwedi S N, Bhartariya KJ. DOI. 10.1007/s12665-009-0392-y. Impact Factor 2.180
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13. Characterization of recharge processes in shallow and deeper aquifers using isotopic signatures and geochemical behaviour of groundwater in an arsenic-enriched part of the Ganga Plain, 2011, APPLIED GEOCHEMISTRY, Dipankar Saha, UK Sinha, SN Dwivedi, doi:10.1016/j.apgeochem.2011.01.003. Impact Factor 2.903.
14. Assessment of surface and subsurface waterlogging, water level fluctuations, and lithological variations for evaluating groundwater resources in Ganga Plains,2011, INTERNATIONAL JOURNAL OF DIGITAL EARTH, AC Pandey, SK Singh, MS Nathawat, Dipankar Saha DOI: 10.1080/17538947.2011.624644. Impact Factor 2.212.
15. Contemporary Groundwater Pollution Studies in India: 2012, A Review, PROC INDIAN NATIONAL SCIENCE ACADEMY, DM Banerjee, A Mukherjee, SK Acharya, D Chatterjee, C Mahanta, Dipankar Saha, S Kumar, M Singh, A Sarkar, CS Dubey, D Shukla and NJ Raju,. 78 (3). Impact Factor-
16. Solute chemistry and arsenic fate in aquifers between the Himalayan foothills and Indian craton (including central Gangetic plain): Influence of geology and geomorphology.2012, GEOCHEMICA ET COSMOCHIMICA ACTA, A Mukherjee, BR Scanlon, AE. Fryar, Dipankar Saha, A Ghosh, S Chowdhuri, R Mishra, 90, 283–302. Impact Factor- 4.71
17. Isotope-based investigation on the groundwater flow and recharge mechanism in a hard-rock aquifer system: the case of Ranchi urban area, India. 2013, HYDROGEOLOGY

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18. Aquifer system response to intensive pumping in urban areas of the Gangetic plains, India: the case study of Patna. 2013, ENVIRONMENTAL EARTH SCIENCE, Dipankar Saha, SN Dwivedi & R K Singh, DOI 10.1007/s12665-013-2577-7. Impact Factor 2.180
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20. Correlation between stratigraphy, flood plain geomorphology and arsenic distribution in groundwater of in Middle Ganga Plain, Bihar, India. 2014, ENVIRONMENTAL EARTH SCIENCE, S Sahu, andDipankarSaha, DOI 10.1007/s12665-014-3637-3. Impact Factor 2.180
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24. A decade of investigations on groundwater arsenic contamination in Middle Ganga Plain, India. 2015, Dipankar Saha . Sudarsan Sahu. ENVIRONMENTAL GEOCHEMISTRY AND HEALTH, DOI 10.1007/s10653-015-9730-z. Impact Factor 3.472
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26. Recent Hydrogeological Research in India.2016, Dipankar Saha, Shashank Sekhar, Shakir Ali, S SVittala and N J Raju, PROC. INDIAN NATIONAL SCIENCE ACADEMY, 82 No. 3 July, Spl Issue. Impact Factor-
27. Spatio-temporal variability of groundwater storage in India. 2016, Soumendra N. Bhanja, Matthew Rodell, Bailing Li, Dipankar Saha, Abhijit Mukherjee, JOURNAL OF HYDROLOGY, <http://dx.doi.org/10.1016/j.jhydrol.2016.11.052>. Impact Factor4.500
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29. Assessment of village-wise groundwater draft for irrigation: a field-based study in hard rock aquifers in central India, 2017, Roy R K, Syed T H, Saha D, Sarkar BC, Patre A K, HYDROGEOLOGY J, doi-10.1007/s10040-017-1625-x Impact Factor 2.672

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