

Biodata



1. Name : **Prof. Prakash Kumar Singh**

2. Designation: Professor of Geology

3. Academic Qualifications:

Sr.	Degree	Institution	Year
1	BSc (Hons)	Banaras Hindu University	1984
2	M.Sc. Geology	Banaras Hindu University	1987
3	Ph.D. Geology	Banaras Hindu University	1992

4. Area of Specialization:

- Coal characterization, petroleum source rock characterization and organic maturation including hydrocarbon generation, coal-forming depositional environments and coal utilization, coal upgradation (desulfurization, demineralization, detoxification/removal of toxic trace elements from coal) using geo-biological tools
- Exploration of various minerals viz. Coal, Diamond, Gold, Tantalite, Hematite, Magnetite, Bauxite and Beach sands, etc.

5. Contact Information:

Coal & Organic Petrology Lab, Centre of Advanced Study in Geology, Department of Geology, Banaras Hindu University, Varanasi- 221005

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- My ORCID iD and the link <https://orcid.org/0000-0003-1404-0997>
- Google Citation: https://new.bhu.ac.in/Site/FacultyProfile/1_153?FA000188
- Researchgate: <https://www.researchgate.net/profile/Prakash-Singh-11>

6. Positions held

Designation	Department/Organization	Period		Nature of work
		From	To	
Professor of Geology	Geology Dept., BHU	Since 4.2.2012	Contd.	Teaching and Research

Associate Professor	Geology Dept., BHU	4.2.2009	3.2.2012	Teaching and Research
Reader	Geology Dept., BHU	4.2.2006	3.2.2009	Teaching and Research
Assistant Manager, Geology	National Mineral Development Corporation Ltd., Hyderabad	28 June, 2004	31-1.2006	Exploration of Minerals
Junior Manager, Geology	National Mineral Development Corporation Ltd., Hyderabad	18.02.1999	28.6.2004	Exploration of Minerals
Research Associate	(CSIR) at BHU (Award No 9/13 (637)/93 EMR-I	1-1-1994	31-12-1998	Research

7. Awards/ Recognitions:

1. **Most Productive Researcher Award-2018**, given by Institute of Science, Banaras Hindu University.
2. **N.N. Chatterjee Award-2018**, given by Geological Society of India, Bangalore.
3. **Subrata Ghosh Coal Petrology Award-2014-2015**, given by Mining, Geological & Metallurgical Institute of India (MGMI), Kolkata
4. **Dr. H. S. Pareek Award- 2013** in Coal given by Geological Society of India, Bangalore.
5. Name appeared in the **Stanford list of top 2% scientists** of the world in 2020, 2021 2023 and 2024.
6. **Associate Editor of journal:**
 - a. **'Energy, Exploration and Exploitation'**, Sage Publication, UK.
 - b. **Ex Associate Editor of: 'Journal of Geological Society of India'**, Springer.
 - c. **Editorial Board Member of: 'Journal of Scientific Research'**, (Earth Science Section) Banaras Hindu University.

8 Projects:

1. **Title: Organic Petrological and Geochemical Characterization of the Permian Coal Deposits, Hasdo-Arand Coalfields, Chhatisgarh, India**
Funding Agency: DST-SERB: 3 years- 19.3. 2018 – 18. 3.2021.
Working as: Co-PI
Amount Sanctioned: Rs 71.422/- lacs.
2. **Title: Bio-methanization of Coal**
Funding Agency: Ministry of Coal (through Central Mine Planning & Design Institute Limited (CMPDI)): two years- 3rd Jan, 2023 – 2nd Jan 2025.
Working as: Co-PI
Amount Sanctioned: Rs. 69.94 lacs
3. **Title: Desulfurization of coal using Biological and Chemical methods**
Funding Agency: DST-SERB: Three years- 28th Feb, 2023 – 27th Feb, 2026
Working as: Co-PI
Amount Sanctioned: Rs. 4510240/- lacs

9 Ph.D. awarded/under progress

Sl. No.	Name of the Scholar	Title of Thesis	Date of award of Degree
1.	Aniruddha Kumar (Under my Co-supervision)	Coal Beneficiation with the help of Bacteria	2015
2.	Pramod Kumar Rajak	Organic Petrology and Geochemical Characterization of the Lignite deposits of Rajasthan	April, 2016
3.	Vijay Kumar Singh	Organic Petrology and Geochemical Characterization of the Lignite Deposits of Gujarat	May, 2016
4.	Jaydeep Singh (Under my Co-supervision)	Catalytic activity and sensing studies of functionalized grapheme oxide and its composites	Aug., 2022
5.	Shweta Rai	Demineralization and desulfurization of Johilla coals of Umaria (Madhya Pradesh) using bacteria and optimization of extrinsic factors.	March, 2024
6.	Rimpy Chetia	Organic Geochemical and petrographical characterization of lignite deposits from Barsingsar and Jalipa mines of western mines of western Rajasthan	Nov., 2024
7.	Ashish Singh	Stratigraphy, Petrology and Geochemistry of Lignites of western Kachchh, Gujarat.	Feb., 2025
8	Amit Tiwari	Prospect and genesis of Vanadium mineralization in Khetarbari Formation of Lower Subansiri District, Arunachal Pradesh.	Under progress
9	Ms Nivedita Mishra	Petrological and Geochemical characterization of Permian coal of Basantimata-Dahibari mine, Raniganj coalfield, Jharkhand and its evaluation as an alternative source for critical and rare earth elements.	Under progress
10	Shivansh Srivastava	A study on conversion of waste to energy	Under progress
11	Shubhi Agrahari	Desulfurization of coal using biological and chemical methods	Under progress
Post Doctoral Fellow working under my mentorship			
1	Dr. Alok Kumar	Carbon in earth system, exploring interactions of climate and energy through Indian Peatland ecosystem	Working since April, 2024

10 No of PhD thesis evaluated: 08

11 List of 10 major Publications: (in order of importance)

1. Naafs, B.D.A., Rohrssen, M., Inglis, G.N., Lähteenoja, O., Feakins, S. J., Collinson, M.E., Kennedy, E.M., Singh, P.K., Singh, M.P., Lunt, D.J., and Pancost, R.D. 2018. High temperatures in the terrestrial mid-latitudes during the early Palaeogene. **NATURE Geoscience** DOI/10.1038/s41561-018-0199-0, vol 11, October, pp766-771.
2. **Singh, P. K.**, Singh, Asha Lata, Kumar, Aniruddha and Singh, M. P. 2013. Control of different pyrite forms on desulfurization of coal with bacteria *Fuel* 106, 876–879.
3. Singh, Asha Lata, **Singh, P. K.**, Kumar, Aniruddha and Singh, M. P. 2012.Desulfurization of selected hard and brown coal samples from India and Indonesia with *Ralstonia sp* and *Pseudoxanthomonas sp*. *Energy, Exploration and Exploitation*. vol, 30, No 6, pp 985-998.
4. **Singh, P. K.**, Singh, Asha Lata, Kumar, Aniruddha and Singh, M. P. 2012. Mixed bacterial consortium as an emerging tool to remove hazardous trace metals from coal. *Fuel*, 102, pp 227-230.
5. **P. K. Singh**, M.P. Singh, P. K. Prachiti, M. S. Kalpana, C. Manikyamba, G. Lakshminarayana, Alok K Singh and A.S. Naik, 2012. Petrographic characteristics and carbon isotopic composition of Permian coal: Implications on depositional environment of Sattupalli coalfield, Godavari Valley, India. *International Journal of Coal Geology*, Elsevier. 90-91:34-42.
6. **P. K. Singh**, M. P. Singh, A. K. Singh, A. S. Naik, Vikas K Singh, Vijay K Singh, and P. K. Rajak (2012). Petrological and geochemical investigations of Rajpardi lignite deposit, Gujarat, india. *Energy, Exploration and Exploitation*, U.K. v 30 (1) pp. 131-152.
7. P. K. Singh, M.P. Singh, A. K. Singh and A.S. Naik. (2012). Petrographic and geochemical characterization of coals from Tiru valley, Nagaland, NE India. *Energy, Exploration and Exploitation*, U.K. v.30 (2). Pp.171-192.
8. Kumar, A., Singh, A. K., Singh, Prakash K., Singh, Asha Lata, Jha, M. K. 2018. Demineralization study of high ash Permian coal with *Pseudomonas mendocina* strain B6-1: A case study of South Karanpura coalfield, Jharkhand, India. *Energy & Fuels*. 32, 1080-1086. DOI: 10.1021/acs.energyfuels.7b02562
9. P. K. Prachiti, C. Manikyamba, Prakash. K Singh, V. Balaram, G. Lakshminarayana, K. Raju, M. P. Singh, M. S. Kalpana, M. Arora. 2011 Geochemical systematics and Precious metal content of the sedimentary horizons of Lower Gondwanas from the Sattupalli coal field, Godavari Valley, India. *International Journal of Coal Geology*, Elsevier. 88:83-100.
10. **Singh, P. K.** 2011. Geological and petrological considerations for CBM exploration: a review. *Energy Sources Part A: Recovery, Utilization, and Environmental Effects*, (Taylor & Francis), 33: 1211-1220.

12 Additional Information/ Achievements:

A. Foreign Experience/Visits

Visited Namibia (thrice), Madagascar and Indonesia for exploration of various minerals; Germany, and Thailand for presenting paper in International Conference.

- B. Industrial Experience:** in National Mineral Development Corporation for Seven Years before joining BHU as Reader.
- C. Reviewer:** Reviewed papers in various journals viz. Fuel, International Journal of Coal Geology, Fuel Processing & Technology; Environmental earth sciences; International Journal of Coal Science and Technology, International Journal of Oil, Gas and Coal Technology; Journal of Geological Society of India; Energy Sources- Part A: Recovery, Utilization, and Environmental Effects; Energy & Fuels; Energy, Exploration and Exploitation, U.K; Current Science; Journal of Asian Earth Sciences; Arabian Journal of Geosciences, Ore Geology Reviews; and several others..
- D.** Chaired a session in *International conference on Energy, Environment, Sustainable Development*, Bangkok, Thailand, March 29-31st, 2011
- E. Membership of professional bodies.**
- Associate Member '*International Committee for Coal and Organic Petrology*' (ICCP).
 - Member '*The Society for Organic Petrology*', (TSOP) USA.
 - Life member – '*Geological, Mining Metallurgical Society of India, Kolkata*'. (LM-338)
 - Life Member- '*Geological Society of India, Bangalore*' (F-2434).
 - Life member- '*Indian Society of Applied Geochemists, Hyderabad*' (LM-154).
 - Life member of *Indian Geological Congress, Roorkee* (LM- 790)
 - Life member- '*Mining Engineers Association of India, Hyderabad*' (LM-2767).
 - Life member- '*Indian Institute of Mineral Engineers, (IIME) Jamshedpur*' (LM-1211)
 - Member of '*Petroleum, Coal and Related Products Division Council (PCDC)*' of Bureau of Indian Standard, New Delhi.

13 . Full List of Publications:

International Papers:

1. Kumar, A., Dubey, S., Ishita and Singh, Prakash K. (2025) A petrological approach to understand the signatures of palaeo wild fire activities during the formation of Permian coal: A case study of Bastacolla Mine, Jharia Coalfield, India. *Journal of the Palaeontological Society of India*: 1–12, DOI: 10.1177/05529360251338459
2. Mathews, R.P., Chetia, R., Singh, V.P., Gupta, S.K., Mendhe, V.A., and Singh, Prakash K. (2025). Bulk organic petro-geochemical characteristics of Jalipa lignite deposits (Barmer Basin): Implications to coal liquefaction prospects ISSN 0376-5156 *Geophytology* 55(1): 35–44.
3. Singh, A.K., Pandey, B., Hazra, B., Singh, Prakash K. (2024). Flower structure of pyrite in Lignite of Western Kachchh, Gujarat (India): Insights on its origin and mechanism *International Journal of Coal Science & Technology*, Accepted.

4. Kumar, A., Lis, G.P., Kumar, A., Mustapha, K.A., Lis, K., Mathews, R.P., & Singh, Prakash K, (2024). Investigation of the interference between organic and mineral matter in coal and carbonaceous shale using FTIR spectroscopy International Journal of Coal Preparation and Utilization, DOI: 10.1080/19392699.2024.2424772
5. Rajak, P.K., Gopinathan, G., Kumar, A. · Kumar, O.P., Rahi, I.C., Sharma, A., Singh, Prakash K. and Karmakar, A. Geochemical and mineralogical assessment of environmentally sensitive elements in Neyveli lignite deposits, Cauvery Basin, India Environ Geochem Health (2024) 46:431, <https://doi.org/10.1007/s10653-024-02193-y>
6. Kumar,A. Banerjee, R., Mustapha, K.A., Chakladar, S., Lotfy, N.M., Singh, V.P., Mathews, R.P., and Singh, Prakash K. (2024) Mineralogical compositions and distributions of trace and rare earth elements in Eocene carbonaceous sediments of Western India: implications for paleoenvironment during peat accumulation Environmental Earth Sciences 83:649, <https://doi.org/10.1007/s12665-024-11967-7>
7. Kumar, A., Singh, A.L., Rajak, P.K., Kumar,A., & Singh, Prakash K. (2024): Beneficiation of High Sulfur Tertiary Coal of Assam with *Burkholderia* sp. GR 8-02. An Eco-Friendly Approach Toward Clean Coal Production, Geomicrobiology Journal, DOI: 10.1080/01490451.2024.2412005
8. Naik, A.S., Kumar, G., Singh, V., Singh, Prakash K., Kumari, M., Mohanty, D., Majhi, R.K. and Upadhyay, N. (2024) Maturity Parameter of Carbonaceous and Coaly Matter Revealed through Raman Spectroscopy Jour. Geol. Soc. India 100:26-34, <https://doi.org/10.17491/jgsi/2024/172980>(IF 1.6)
9. Rai,S., Singh, Asha Lata, **Singh, Prakash K.**, Kumar, S. & Huisingh D. (2024): Optimization of extrinsic parameters for beneficiation of coal with the help of Cronobacter sp, International Journal of Coal Preparation and Utilization, 44(10) 1606-1621. DOI: 10.1080/19392699.2023.2297195
10. Hazra, B., Singh, Prakash K., Sethi, C., and Pandey, J. K. 2024. Application of Optical-electron Correlative Microscopy for Characterization of Organic Matter. J Geol Soc India. 100 (10) : 1385-1394, <https://doi.org/10.17491/jgsi/2024/173994>
11. Kumar, O.P., Naik, A.S., Gopinathan, P., Subramani, T., Singh, V., Singh Prakash K, Shukla, U.K., Prabhu, A. (2024). Petrographic and geochemical analysis of Barmer Basin Paleogene lignite deposits: Insights into depositional environment and paleo-climate, Journal of Geochemical Exploration, 107335 <https://doi.org/10.1016/j.gexplo.2023.107335> (**IF 3.9**)
12. Rai, S., Singh, A.L., and Singh, Prakash K. (2024) Demineralization of coal from Johilla coalfield using neutrophilic native bacteria: A novel technique to obtain REE from coal, Journal of the Geological Society of India. 100 (4) : 486-494, <https://doi.org/10.17491/jgsi/2024/173865> (**IF 1.6**)
13. Leszek, M., Justyna, S., Singh, Prakash K., Bernd, R.T.S. (2023). Preservation, diagenetic transformation and paleoecological significance of fungal saccharides from lignites and fossil wood. Organic Geochemistry (accepted). (**IF 3.0**)
14. Kumar, O. P., Gopinathan, P., Naik, A.S., Subramani, T., **Singh, Prakash K.**, Sharma, A., Maity, S., Saha, S. (2023). Characterization of lignite deposits of Barmer Basin,

- Rajasthan: insights from mineralogical and elemental analysis. *Environ Geochem Health*, 45, 6471–6493. <https://doi.org/10.1007/s10653-023-01649-x> (IF 4.2)
15. Ojha, S. and **Singh Prakash K** 2023. Petrogenesis and Evolution of Tharad Coals of Cambay Basin, Gujarat (Western India): An insight. *Jour. Geological Society of India*. 99:675-687. <https://doi.org/10.1007/s12594-023-2368-z> (IF 1.6)
 16. Ojha, S., Punjrath, N. K. Chakraborty, A and **Singh Prakash K** 2023. Evolution and Evaluation of coal-bed methane in Cambay Basin, Western India: Insights from stable isotopic and molecular composition *Jour. Geological Society of India*. 99:193-204. <https://doi.org/10.1007/s12594-023-2287-z> (IF 1.6)
 17. Singh Prakash K, Singh B.P., Singh, A.K. and Singh, G.P. 2022. Tertiary Himalayan Coal-bearing sequences of India: A reappraisal of their Evolutionary consequences *Journal of the Geological Society of India*, 98:1697-1707. <https://doi.org/10.1007/s12594-022-2240-6> (IF 1.6)
 18. Kumar, H., Rai, S., Rai, A., Faheem, A., Naik, A. S., Rajak, P. K., Srivastava, D. K., Maurya, D. S., Chatterjee, D., Singh, Prakash K. 2022. Characterization of composite coal seam III-IV of Ramagundam coalfield, Godavari Basin (India): An attempt to evaluate CBM Prospects, *Arabian Journal Geosciences*, 15, 1400, <https://doi.org/10.1007/s12517-022-10681-7> (IF 1.95)
 19. Singh, Prakash K, 2022. Applicative coal petrology for Industries: New Paradigms, *Journal of the Geological Society of India* 98:1229-1236. <https://doi.org/10.1007/s12594-022-2157-0> (IF 1.6)
 20. Chetia R, Mathews R.P., Singh Prakash K., Sharma A. 2022. Conifer-mixed tropical rainforest in the Indian Paleogene: new evidences from terpenoid signatures. *Palaeogeography, Palaeoclimatology, Palaeoecology* <https://doi.org/10.1016/j.palaeo.2022.110980>. (IF 3.0)
 21. Kumar A., Singh Asha Lata, Kumar, R., Rajak, P. K., and Singh Prakash K. 2022. Desulfurization of dibenzothiophene by different bacterial strains: An eco-friendly approach to obtain clean fuel from coal, *Geomicrobiology Journal*. 39 (6) 477–486. <https://doi.org/10.1080/01490451.2022.2035020> (IF 2.57)
 22. Rai, S., Rai, A., Kumar, K., Naik, A.S., Singh, N., Srivastava, D. K. and Singh, Prakash K. 2022. Study of micro-structures and their relation with occurrence of mineral matter in Ramagundam coals, Godavari Basin, India: Implications on Coal and Hydrocarbon industries. *Journal of the Geological Society of India*, 98:88-92. [Doi.org/10.1007/s12594-022-1934-0](https://doi.org/10.1007/s12594-022-1934-0). (IF 1.6)
 23. Saxena A, Gupta S, Singh KJ, Murthy S, Prakash A & Singh PK, 2021. Diversity of the Genus *Gangamopteris* McCoy in the Early Permian Sequences of Singrauli Coalfield, Son-Mahanadi Basin, India. *Journal of the Palaeontological Society of India*, 66(1): 23-34. (IF 0.705)
 24. Rajak PK, Singh VK, Kumar A, Singh V, Rai A, Rai S, Singh KN, Sharma M, Naik AS, Mathur N, Singh PK 2021. Study of Hydrocarbon Source Potential of Kapurdi lignites of Barmer Basin, Rajasthan, Western India. *J geol Soc Ind*, 97:836-842. DOI: 10.1007/s12594-021-1782-3 (IF 1.6)
 25. Naik AS, Behera B, Shukla UK, Sahu, HB, Singh PK, Mohanty, D and Chatterjee D. 2021. Mineralogical Studies of Mahanadi Basin coals based on FTIR, XRD and Microscopy: A Geological Perspective, *Journal of the Geological Society of India*, 97:1019-1027. DOI: 10.1007/s12594-021-1817-9 (IF 1.6)

26. Kumar, A., Rajak, P. K., Singh, Asha Lata, Kumar,R., Singh, K. N. and Singh, Prakash K. 2020. Comparative investigation of bio-beneficiation of Kasnau-Matasukh lignite using native microorganisms. International Journal of Coal Preparation and Utilization <https://doi.org/10.1080/19392699.2020.1822824> (IF 2.697)
27. Mathews, R.P., Chetia, R., Agrawal, S., Singh, B. D., **Singh, P. K.**, Singh, V.P., Singh, A. 2020. Early Palaeogene Climate Variability Based on n-alkane and Stable Carbon Isotopic Composition Evidenced from the Barsingsar Lignite-bearing Sequence of Rajasthan. J Geol. Soc. India. 95(3):255-262 (DOI: 10.1007/s12594-020-1423-2). (IF 1.6)
28. Rajak, P. K., Singh, V. K., Singh, Asha Lata, Kumar, N., Kumar, O. P., Singh, V. Kumar, A., Rai, Ankita, Rai Shweta, Naik, A.S., and Singh, P. K. 2020. Study of minerals and selected environmentally sensitive elements in Kapurdi lignites of Barmer Basin, Rajasthan, Western India: Implications to environment. Geosciences Journal 24(4):441–458. <https://doi.org/10.1007/s12303-019-0029-4> (IF 2.7)
29. Kumar A., Singh AK, Singh Prakash K, Singh Asha Lata, Saikia BK and Kumar A. 2019. Desulfurization of Giral lignite of Rajasthan (Western India) using *Burkholderia* sp. GR 8– 02, International Journal of Coal Preparation and Utilization, DOI: 10.1080/19392699.2019.1651721. (IF 2.697)
30. Medunic,G, Singh, P. K., Singh, Asha Lata, Rai, A., Jaiswal, M.K., Obrenovic,Z., Petkovic, Z., Rai, S., Janeš, M., 2019. Use of Bacteria and Synthetic Zeolites in Remediation of Soil and Water Polluted with Superhigh-Organic-Sulfur Raša Coal (Raša Bay, North Adriatic, Croatia), Water 2019, **11**, 1419; doi:10.3390/w11071419. (IF 3.5)
31. Singh, V. K, Rajak, P. K., and Singh, P.K.2019. Revisiting the paleomires of western India: an insight into the early Paleogene lignite Corridor. **Journal of Asian Earth Sciences**.171:363-375.doi.org/10.1016/j.jseaes.2018.08.031). (IF 3.0)
32. Rajak, P. K., Singh V. K. and **Singh, Prakash K.** 2019. Distribution of inertinites in the Early Paleogene lignites of Western India: on the possibility of wildfire activities. J Geol Soc India. 93 (5): 523-532. DOI: 10.1007/s12594-019-1213-x (IF 1.6)
33. Rajak, P. K., V.K, Singh, Singh, P.K.*, Singh, M. P. and Singh, A. K. 2019. Environment of Paleomire of lignite seams of Bikaner-Nagaur Basin, Rajasthan (W. India): Petrological implications. Int Jour. Oil, Gas and Coal Technology, 22 (2):218-245. (IF 0.7)
34. Saxena, A., Singh, K.J., Murthy, S., Prakash, A., and **Singh, P. K.** 2019. Early Permian macro and miofloral diversity from Singrauli Coalfield, Son-Mahanadi Basin, India. Journal of the Palaeontological Society of India. Vol 64 (2): 169-183. (IF 0.705)
35. Rajak, P. K., Singh, V. K., Singh, P. K.* , Singh, Asha Lata, Kumar, N., Kumar, O. P., Singh, V. and Kumar, A. 2018. Geochemical implications of minerals and environmentally sensitive elements of Giral lignite, Barmer basin, Rajasthan (India). Environmental Earth Sciences, 77(19):1-20 <https://doi.org/10.1007/s12665-018-7885-5>. (IF 3.1)
36. Naafs, B.D.A., Rohrssen, M., Inglis, G.N., Lähteenoja, O., Feakins, S. J., Collinson, M.E., Kennedy, E.M., Singh, P.K., Singh, M.P., Lunt, D.J., and Pancost, R.D. 2018. High temperatures in the terrestrial mid-latitudes during the early Palaeogene. **NATURE Geoscience** DOI/10.1038/s41561-018-0199-0, vol 11, October, pp766-771. (IF 21.531)

37. Singh, A.K., Kumar, A., Singh, Prakash K., Singh, Asha Lata and Kumar, Alok , 2018. Bacterial desulphurization of low rank coal: A Case Study of Eocene Lignite of Western Rajasthan, India, **Energy Sources Part A: Recovery, Utilization, and Environmental Effects**, Vol 40, No 10, 1199-1208. <https://doi.org/10.1080/15567036.2018.1476608> **(IF 2.902)**
38. Pandey, B., Pathak, D.B., Mathur, N., Jaitly, A.K., Singh, A. K., and Singh, P.K. 2018. A preliminary evaluation on the prospects of hydrocarbon potential in the carbonaceous shales of Spiti and Chikkim formations, Tethys Himalaya, India. **J Geol Soc India**, v 92, pp427-434. DOI: 10.1007/s12594-018-1037-0 **(IF 1.6)**
39. Kumar, A., Singh, A. K., Singh, Prakash K., Singh, Asha Lata, Jha, M. K. 2018. Demineralization study of high ash Permian coal with *Pseudomonas mendocina* strain B6-1: A case study of South Karanpura coalfield, Jharkhand, India. **Energy & Fuels**. 32, 1080-1086. DOI: 10.1021/acs.energyfuels.7b02562 **(IF 4.654)**
40. Singh, Prakash K., Singh V. K., Rajak, P. K., and Mathur, N. 2017. A study on assessment of hydrocarbon potential of the lignite deposits of Saurashtra basin, Gujarat (Western India). *International Journal of Coal Science & Technology*. 4(4):310–321. <https://doi.org/10.1007/s40789-017-0186-x>
41. Singh, V. P., Singh, B.D., Mathews, R.P., Singh, A., Mendhe, V.A., Singh, P.K., Mishra, S., Dutta, S., Mahesh Shivanna, M., and Singh, M.P. 2017. Investigation on the lignite deposits of Surkha mine (Saurashtra Basin, Gujarat), western India: their depositional history and hydrocarbon generation potential. *Int Jour Coal Geology*, Vol 183, pp 78-99. <https://doi.org/10.1016/j.coal.2017.09.016>
42. Singh, P. K. 2017. A proposal for macroscopic classification of Gondwana coals of India. *International Committee for coal and Organic Petrology (ICCP) New letter*. Vol 68, p 11.
43. Neupane, B., Yiwen Ju, Silwal, BJ, **Singh, P. K.** and Huang C. 2017. Structural investigations of Eocene coals from foreland basin of central Nepal Himalaya. *Energy Exploration & Exploitation*. Vol. 35(6) 713–733 (DOI: 10.1177/0144598717716283)
44. Singh, P.K., Singh, V.K., Singh, M. P. and Rajak, P. K. 2017. Petrographic characteristics and Paleoenvironmental history of Eocene lignites of Cambay basin, Western India. *International Journal of Coal Science & Technology* 4(3):214–233. DOI 10.1007/s40789-017-0173-2
45. Singh, P.K., Singh, V. K., Singh, M. P. and Rajak, P. K. 2017. Understanding the paleomires of Eocene lignites of Kachchh basin, Gujarat (Western India): Petrological implications. *International Journal of Coal Science & Technology*. 4(2):80-101 (DOI 10.1007/s40789-017-0165-2).
46. Singh, P.K., Singh, V. K., Singh, M. P. and Rajak, P. K. 2017. Paleomires of Eocene lignites of Bhavnagar, Saurashtra Basin (Gujarat), Western India: Petrographic implications *Journal of the Geological Society of India*. 90:9-19. DOI: 10.1007/s12594-017-0658-z

47. Singh, Prakash K., Singh, Asha Lata, Kumar, A. and Singh, M.P. 2017. Petrological considerations for the demineralization of Rajmahal coals with *Pseudomonas mendocina* B6-1. Journal Geol Soc. Ind. 89(6):643-652.
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