

List of publication of Prof. D.C. Panigrahi

Sl. No.	Name of all the author(s)	Title of the paper	Name of the journal, proceedings volume, year and page
International			
1	D. C. Panigrahi, R. Gupta and S. C. Bhowmik	Modelling of the ventilation system of a deep uranium mine	<i>Proc. 8th International Mine Ventilation Congress, Brisbane, Australia</i> , Publisher: Australasian Institute of Mining and Metallurgy, 2005, ISBN: 1-920806-32-6, pp. 439-446
2	D. C. Panigrahi, G. Udaybhanu, M. D. Yadav and R. S. Singh	Development of inhibitors to reduce the spontaneous heating susceptibility of Indian Coals	<i>Proc. 8th International Mine Ventilation Congress, Brisbane, Australia</i> , Publisher: Australasian Institute of Mining and Metallurgy, 2005, ISBN: 1-920806-32-6, pp. 349-354
3	D. C. Panigrahi	Development of a mathematical model for injecting nitrogen to inertise the goaf of a working panel in coal mines	<i>International Journal of Archives of Mining Sciences</i> , Published by Polish Academy of Sciences, Poland, Vol.50, 2, 2005, pp. 175-190.
4	D. C. Panigrahi, H. B. Sahu, N. M. Mishra, V. K. Saxena and N. K. Hembram	Development of a new method for classification of coal seams with respect to their proneness to spontaneous heating	<i>Proc. Mineral Processing Technology</i> , Publisher : The McGraw-Hill, January, 2005, pp.304-318. ISBN 0-07-059921-1
5	D. C. Panigrahi and R. M. Bhattacharjee	Development of Modified Gas Indices for Early Detection of Heating in Coal Pillars	<i>Journal of South African Institute of Mining and Metallurgy</i> , August, 2004, pp.367-379.
6	D. C. Panigrahi and H. B. Sahu	Application of Hierarchical Clustering for Classification of Coal Seams with respect to their Proneness to Spontaneous Heating	<i>Mining Technology</i> , Transactions of Institute of Mining and Metallurgy, London, June, Vol.113, 2004, pp. A97-A106.
7	D. C. Panigrahi and H. B. Sahu	Classification of Coal Seams with respect to their Spontaneous Heating Susceptibility – A Neural Network Approach	<i>Geotechnical and Geological Engineering</i> , Kluwer Academic Publishers B. V., The Netherlands, 22, 2004, pp.457-476.
8	D. C. Panigrahi and G. Udaybhanu	Development of Retardants to Control Fire in Opencast Coal Mines	<i>Proc. 19th World Mining Congress</i> , Vol. 2, Pub. Oxford & IBH Publishing Co. Pvt. Ltd., 2003, pp.1101-1110. ISBN 81-204-1607-4
9	D. C. Panigrahi and R. M. Bhattacharjee	Development of an Approach to Categorise the Coal Pillars with respect to their Proneness to Spontaneous Heating in Indian Coal Mines	<i>Proc. 19th World Mining Congress</i> , Vol. 2, Pub. Oxford & IBH Publishing Co. Pvt. Ltd., 2003, pp.1067-1078. ISBN 81-204-1607-4
10	D. C. Panigrahi	The Analysis and Simulation of Heat Flow in Longwall Coal Faces	<i>International Journal of Archives of Mining Sciences</i> , Published by Polish Academy of Sciences, Poland, Vol. 47, 4, 2002, pp. 539-558.

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11	D. C. Panigrahi and R. M. Bhattacharjee	Early Detection and Prevention of Coal Stack Fires in Mines and Super Thermal Power Stations,	<i>Proc. International Conference on Challenges in Coal and Mineral Beneficiation</i> , Tata McGraw-Hill Publishers, 2001, pp. 357-362. ISBN 0-07-047411-7
12	D. C. Panigrahi and V. K. Saxena	A Comparative Study of Spontaneous Heating Susceptibility of Indian Coals using Crossing Point Temperature Method and Differential Thermal Analysis	<i>Proc. International Conference on Challenges in Coal and Mineral Beneficiation</i> , Tata McGraw-Hill Publishers, 2001, pp. 235-242. ISBN 0-07-047411-7
13	D. C. Panigrahi, Ranveer and G. Udaybhanu	Influence of Some Additives on Spontaneous Heating Susceptibility of Indian Coals	<i>Proc. International Conference on Challenges in Coal and Mineral Beneficiation</i> , Tata McGraw-Hill Publishers, , 2001, pp. 217-226. ISBN 0-07-047411-7
14	D. C. Panigrahi and R. M. Bhattacharjee	A Study of Pillar Fire Problems in South Samla Colliery of Raniganj Coalfield, India	<i>Proc. 7th International Mine Ventilation Congress</i> , Krakow, Poland, 2001, pp. 965-969, ISBN 83-913109-1-4.
15	D. C. Panigrahi	An Investigation to Control Fire in an Opencast Mine in India	<i>Proc. 7th International Mine Ventilation Congress</i> , Krakow, Poland, 2001, pp. 671-675, ISBN 83-913109-1-4.
16	D. C. Panigrahi and V. K. Saxena	An Investigation into Spontaneous Combustion Characteristics of Indian Coals using Differential Thermal Analysis	<i>Proc. 7th International Mine Ventilation Congress</i> , Krakow, Poland, 2001, pp. 495-500. ISBN 83-913109-1-4
17	D. C. Panigrahi	Computer Simulation Studies for Improving Workplace Environment in Digwadih Colliery, TISCO	<i>Proc. 7th International Mine Ventilation Congress</i> , Krakow, Poland, 2001, pp. 341-343. ISBN 83-913109-1-4
18	D. C. Panigrahi, Ranveer and G. Udaybhanu	Role of Some Additives on Spontaneous Heating Characteristics of Indian Coals	<i>Proc. First Intl. Symp. on Mine Environment and Ventilation : Publisher - A. A. Balkema, Netherlands</i> , 2001, pp. 409-414, ISBN 90 5809 233 X.
19	D. C. Panigrahi and R. M. Bhattacharjee	A Study of Pillar Fire Problems to Categorise Pillars in Coal Mines with respect to their Susceptibility to Spontaneous Combustion	<i>Proc. First Intl. Symp. on Mine Environment and Ventilation : Publisher - A. A. Balkema, Netherlands</i> , 2001, pp. 394-402. ISBN 90 5809 233 X
20	D. C. Panigrahi, V. K. Saxena and G.Udaybhanu	A Study of Susceptibility of Indian Coals to Spontaneous Combustion and its Correlation with their Intrinsic Properties	<i>Proc. First Intl. Symp. on Mine Environment and Ventilation : Publisher - A. A. Balkema, Netherlands</i> , 2001, pp. 347-354, ISBN 90 5809 233 X.
21	D. C. Panigrahi, H. R. Kalihari and S. M. Bothra	Simulation Studies for Short term as well as Long term Improvement in the Ventilation System of Balaghat Mine	<i>Proc. First Intl. Symp. on Mine Environment and Ventilation : Publisher - A. A. Balkema, Netherlands</i> , 2001, pp. 65-70, ISBN 90 5809 233 X.

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Sl. No.	Name of all the author(s)	Title of the paper	Name of the journal, proceedings volume, year and page
22	D. C. Panigrahi, R. S. Singh and P. N. Singh	Computer Simulation Studies for Improving Workplace Environment in Dungri North Section of Jamadoba Colliery, TISCO	<i>Proc. First Intl. Symp. on Mine Environment and Ventilation : Publisher - A. A. Balkema, Netherlands, 2001, pp. 1-6.</i> ISBN 90 5809 233 X
23	D. P. Tripathy, G. Singh and D. C. Panigrahi	Impacts of Mine Fires on the Environment and its Implications on the Health and Safety of Miners in Jharia Coalfield	<i>MINESAFE International, South Africa 1998.</i>
24	A. K. Mukhopadhyay M. K. Pathak and D. C. Panigrahi	A Study on Vibration Problems in Mine Ventilation Fans	<i>Int. of Journal of Mining Engineering, Trans., Vol. 304, SME, USA, 1998, pp. 2-4.</i>
25	D. P. Tripathy, D. C. Panigrahi, M. Kumar and G. Singh	Environmental Impacts of Mine Fires - A Case Study of part of Jharia Coalfields	<i>2nd World Mining Environment Congress, Katowice, Poland, 1997, pp. 901-910.</i>
26	D. C. Panigrahi and M. K. Singh	Development of a Thermodynamic Based Network Analysis Program for Designing Mine Ventilation Systems	<i>6th International Mine Ventilation Congress, Pittsburgh, SME, USA, 1997, pp. 383-388.</i> ISBN 0-87335-146-0
27	M. K. Singh and D. C. Panigrahi	An algorithm for solving fluid flow distribution problems in mine ventilation networks	<i>27th International Conference of Safety in Mines Research Institutes, 1997, pp. 297-309.</i> ISBN 81-204-1150-1
28	D. C. Panigrahi, Alok Ojha, N. C. Saxena and B. K. Kejriwal	A Study of Coal-oxygen Interaction by using Russian U-Index and its Correlation with Basic Constituents of Coal with particular Reference to Jharia Coalfields	<i>27th International Conference of Safety in Mines Research Institutes, 1997, pp. 493-499.</i> ISBN 81-204-1150-1
29	M. K. Singh and D. C. Panigrahi	Application of object oriented programming for designing of mine environmental systems	<i>26th APCOM, Pennsylvania, SME, USA, 1996, pp.405-411</i> ISBN 0-87335-137-1
30	D. C. Panigrahi and M. K. Singh	Optimisation of Coal Production System in Mechanised Board and Pillar Workings with Side Discharge Loaders	<i>Journal of Mining Research, Willey Eastern Limited, 1995, pp.13-20.</i>
31	M. L. Gupta, D. C. Panigrahi, N. K., Varma and J. K. Pandey	Determination of Virgin Rock Temperature in Raniganj Coalfield	<i>Journal of Mining Research, Willey Eastern Limited, 1994, pp. 11-17.</i>
32	M. L. Gupta, D. C. Panigrahi and S. P. Banerjee	Prediction of Climatic Conditions in Operating Longwall panels by using the Concept of Equivalent Wetness	<i>6th International Bureau of Mining Thermophysics, Sofia, Bulgaria, Sept., 1994, pp. 351-360.</i>
33	M. L. Gupta, D. C. Panigrahi and S. P. Banerjee	Heat Flow Studies in Longwall Faces in India.	<i>6th U. S. Mine Ventilation symposium, Utah, SME, USA, 1993, pp.421-427.</i>

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34	M. L. Gupta, D. C. Panigrahi and S. P. Banerjee	Simulation of Unsteady and Quasi-steady State Heat Transfer in Mine Airways	<i>5th Int. Mine Ventilation Congress, Johannesburg, South Africa, 1992</i> , pp. 119 - 122.
35	D. C. Panigrahi, M. L. Gupta and S. P. Banerjee	An Empirical Study of Heat Flow and Temperature Rise in Bord and Pillar Workings in India	<i>Mining Science and Technology, Elsevier Science Publisher B. V., Amsterdam, No.12, 1991</i> , pp. 127-136.
National			
36	J. K. Pandey, G. Udayabhanu and D. C. Panigrahi	An investigation into the presence of hexa-valent and total chromium in water sources around Sukinda Chromite Belt, Orissa	<i>Indian Jour. of Environmental Protection</i> , Vol. 25, 3, March 2005, pp.260-266.
37	D. C. Panigrahi and H. B. Sahu	Development of a new method for assessment of spontaneous heating susceptibility of coal	<i>Jour. The Institution of Engineers (India)</i> , Vol. 85, February, 2005, pp. 42-46.
38	D. C. Panigrahi, H. B. Sahu, G. Udayabhanu and V. K. Saxena,	Wet oxidation method for predicting the spontaneous heating susceptibility of Indian coals	<i>Jour. Coal Mining Technology & Management</i> , June-August, 2004, pp.13-21.
39	H. B. Sahu, D. C. Panigrahi and N. M.Mishra,	Assessment of spontaneous heating susceptibility of coal seams by differential scanning calorimetry	<i>Jour. Mines, Metals & Fuels</i> , July-August, 2004, pp.117-121.
40	D. C. Panigrahi, Chandresh Pant and Abhishek Roy	Some Successful IT Implementations in the Indian Mineral and Oil Sectors : Where do we go from here	<i>Proceedings of Role of IT in the Present Scenario of Globalisation</i> , 2003, pp. 277-286.
41	D. C. Panigrahi	Computer Simulation Studies for Improving Workplace Environment in Jamadoba Colliery, TISCO, 22.	Proceedings of joint conference organised by U.S. Department of Labour and Ministry of Labour, Govt. of India on Showcasing Best Practices on Mine Safety, 2003, Paper no : 7.
42	D. C. Panigrahi	Mine Environment Monitoring – Indian Perspective and Global Scenario,	Proceedings of a joint conference organised by U.S. Department of Labour and Ministry of Labour, Govt. of India on Showcasing Best Practices on Mine Safety, 2003, Paper no : 5.
43	D. C. Panigrahi, V. K. Saxena and G.Udaybhanu	An Empirical Study on Susceptibility of Indian Coals with some of their Intrinsic Properties	<i>The Indian Mining and Engineering Journal</i> , Vol. 41, No. 10, 2002, pp. 22-25.
44	D. C. Panigrahi	Mine Environment Monitoring – Indian Perspective and Global Scenario	<i>National Workshop on Occupational Safety and Health</i> , 7-8, January, DGMS, 2002, pp. 55-62.
45	D. C. Panigrahi	A Unique Solution to the Complex Ventilation Crisis in a Coal Mine	<i>Mine Ventilation, Safety and Environment</i> , New Academic Publisher, 2002, pp. 81-86. ISBN : 81-86772-10-3

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46	D. P. Tripathy, D. C. Panigrahi and G. Singh	Environmental Impacts of Mine Fires-An Overview	<i>The Indian Mining and Engineering Journal</i> , September, 1999, pp. 32-36.
47	D. C. Panigrahi and A. K.Ghose	Atmospheric Monitoring Systems in Underground Coal Mines	<i>Journal of Mines, Metal and Fuels</i> , Vol. XLVII, 1999, pp. 301-304.
48	D. C. Panigrahi and M. K. Singh	Application of Linear Analysis for Solving Air Flow Distribution Problems in Mine Ventilation Networks	<i>The Indian Mining and Engineering Journal</i> , 1998, pp. 47 - 54.
49	D. C. Panigrahi	A Study of Fire Problem in an Opencast Mine and its Abatement Measures	<i>The Indian Mining and Engineering Journal</i> , Vol.36, No.11, 1998, pp. 51-53.
50	D. P. Tripathy, D. C. Panigrahi and G. Singh	Environmental Problems of Mines Fires in Jharia Coalfield	<i>MINPROPS - 98</i> , 1998, pp. 201-206.
51	D. P. Tripathy, G. Singh and D. C. Panigrahi	Analysis of Soil Quality in Some Areas of Jharia Coalfield	<i>Seventh National Symposium on Environment</i> , 1997, pp. 204-206.
52	D. C. Panigrahi	A Study of Fire Problem in an Opencast Mine Over Developed Galleries	<i>Mine Safety and Mechanisation - Surface Mining</i> , 1997, pp. 51-53.
53	D. C. Panigrahi and M. K. Singh	VENTSYS-A Software for the Design of Underground Mine Environmental Systems	<i>The Indian Mining and Engineering Journal</i> , Vol. 35, No.7, 1996, pp. 19 - 29.
54	D. C. Panigrahi, N. C. Saxena and F. Jha	Investigation of Fire Proneness of No.2 and No.3 Seams of Chirimiri Opencast Mine and its Abatement Measures	<i>MIF-96, Calcutta</i> , 1996, pp. 319-330.
55	D. C. Panigrahi G. Udaybhanu and A. Ojha	A Comparative Study of Wet Oxidation Method for Determining the Susceptibility of Indian Coals to Spontaneous Combustion	<i>Prevention and Control of Mine and Industrial Fires - Trends and Challenges</i> , Calcutta, 1996, pp. 101-107.
56	D. C. Panigrahi, P. Dutta, and S. P. Banerjee	Simulation of Heat load in Mine Ventilation Network with Variation in Geothermal parameters	<i>Jour. of Mines, Metals and Fuels</i> , 1996, pp. 167-170.
57	D. C. Panigrahi, M. K. Singh and P. Chandra	Methodology to Measure and Design the Lighting System for Achieving Optimal Illumination in Opencast Mines	<i>Transactions, MGMI</i> , Vol.19, No.2, 1995, pp.23-42.

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58	D. C. Panigrahi, M. K. Singh and C. Singh	Prediction of Depth of Mine Fire from the Surface by using Thermal IR Measurements	<i>National Seminar on Mine Fires</i> , IT-BHU, 1995, pp.122-134.
59	D. C. Panigrahi and M. K. Singh	Detection and Delineation of Mine Fires by Air-borne Survey	<i>ICCMS-94</i> , 1994, pp. F-3.1-3.12.
60	D. C. Panigrahi, M. L. Gupta and S. P. Banerjee	Computer Modelling of Heat and mass Transfer in partially Wet Airways and Prediction of Underground Environment	<i>Indian Conference on Computer Application in Mining</i> , Madras, 1993, pp. 109-116.
61	M. L. Gupta, D. C. Panigrahi and S. P. Banerjee	Development of a Software to Predict the Climate in Trunk and Gate Roads by the Application of Transient Heat Transfer Process	<i>Jour. of Mines, Metals and Fuels</i> , 1992, pp. 301-305.
62	M. L. Gupta, D. C. Panigrahi, N. K. Varma and B. K. Gazaresen,	A Simple Calculation Method for Designing of Auxiliary Ventilation System	<i>Indo-Polish workshop, CMRI</i> , Dhanbad. 1989,
63	D. C. Panigrahi and S. P. Banerjee	An Experimental Study of Waterproofing of Limestone dust by Various Fatty Acids and Related Changes in its Physical parameters	<i>Transactions, MGMI</i> , Vol.82, No.1, 1985, pp. 2-59.

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