List of Publications

Papers published in Peer Reviewed International / National Journals

1. Mriganka Das, Amrita Biswas, Bidyut Kumar Kundu, M. Adilia Januário Charmier, Attreyee Mukherjee, Shaikh M Mobin, **G Udayabhanu,** Suman Mukhopadhyay, 'Enhanced pseudo-halide promoted corrosion inhibition by biologically active zinc(II) Schiff base complexes", *The Chemical Engineering Journal*, 357 (2019) 447 – 457 (Feb 2019) doi: 10.1016/j.cej. 2018.09.150 (IF 6.735).
2. Chandan Kumar Maiti, Goutam Hatui, Kartikey Verma, **G Udayabhanu**, Devendra Deo Pathak, G C Nayak, 'Single pot fabrication of N doped reduced GO (N-rGO) /ZnO-CuO nanocomposite as an efficient electrode material for supercapacitor application', *Vacuum*, 157 (2018) November, 145 – 154, DOI: 10.1016/j.vacuum.2018.08.019 (IF 2.067)
3. Shrenivas Ashrit, Ravikrishna V Chatti, S Sarkar, R Venugopal, **G Udayabhanu Nair**, 'Application of ICP – MS technique for analysis of heavy metals in LD slag fines', *Current Science*, 115, No. 5 (2018) 973 – 977. (IF 0.883)
4. Bela Purti, Ram Bilash Choudhary, Amrita Biswas, **G Udayabhanu**, 'Chemically grown mesoporous f-CNT/α-MnO2/PIn nanocomposites as electrode materials for supercapacitor application', *Polymer Bulletin*, July 2018, DOI: 10.1007/s00289-018-2458-z (IF 1.589)
5. Bela Purti, Ram Bilash Choudhary, Amrita Biswas, **G Udayabhanu**, 'Potentially enlarged supercapacitive values for CdS-PPY decorated rGO nanocomposites as electrode material, *Material Chemistry & Physics*, 216 (2018) September, 213 – 222 (IF 2.210)
6. Subhajit Dash, Haribandhu Chaudhuri, Radha Gupta, **G Udayabhanu, '**Adsorption Study of Modified Coal Fly Ash with Sulfonic Acid as a Potential Adsorbent for the Removal of Toxic Reactive Dyes from Aqueous Solution: Kinetics and Thermodynamics', *Environmental Chemical Engineering*, 6 (2018) 5897 - 5905, DOI: 10.1016/j.jece.2018.05.017 (Cite Score 4.01)
7. S Kumar, A S Venkatesh, Rambabu Singh, **G Udayabhanu**, D Saha, 'Geochemical signatures and isotopic systematics constraining dynamics of fluoride contamination in groundwater across Jamui district, Indo-Gangetic alluvial plains, India, *Chemosphere*, 205 (2018) 493 – 505. (IF 4.427)
8. Neetha V Thampi, Rohith P. John, Keka Ojha and **G. Udayabhanu**, 'Effect of Hydrophobic Modification on the Properties of Polymer-Blended Microemulsion Gels', *J Surfactants & Detergents*, 21, 2, 269 – 282 (2018), DOI: 10.1002/jsde.12017 (IF: 1.454)
9. Shobha Kumari, T Gouricharan, J K Pandey, **G Udayabhanu** and S N Sharma, "Evaluation of Quartz reduction by coal cleaning for thermal utilization of an Indian coal", *Int. J Coal Preparation and Utilization*, 38, 2, 53 – 63 (2018) DOI: 10.1080/19392699.2016.1189418 (IF 1.527)
10. Akash Sharma, Mohua Chakraborty, R Thangavel, **G Udayabhanu**, "Hydrothermal growth of undoped and boron doped ZnO nanorods as a photoelectrode for solar water splitting applications", *J Sol-Gel Sci Technol* (2018) 85, 1, 1 – 11. DOI 10.1007/s10971-017-4536-3. (IF: 1.745)
11. Amrita Biswas, Punita Mourya, Dipanjan Mondal, Sagar Pal, **G. Udayabhanu,** Grafting effect of gum acacia on mild steel corrosion in acidic medium: Gravimetric and electrochemical study, *J. Molecular Liquids*, (2018), 251, Feb, 470 – 479, DOI: 10.1016/j.molliq.2017.12.087 (IF: 4.513)
12. Dharmendra Kumar Singh, Eno E. Ebenso, Mantu Kr. Singh, Debasis Behera, **G. Udayabhanu**, Rohith P. John, "Non-toxic Schiff bases as efficient corrosion inhibitors for mild steel in 1M HCl: Electrochemical, AFM, FE-SEM and theoretical studies", *J Molecular Liquid*s, (2018) 250, January, 88 – 99, doi:10.1016/j.molliq.2017.11.132 (IF: 4.513)

13. Mriganka Das, Amrita Biswas, Bidyut Kumar Kundu, Mohammad Mobin Shaikh, **G Udayabhanu**, Suman Mukhopadhyay, 'Targeted synthesis of cadmium(II) Schiff base complexes towards corrosion inhibition on mild steel', *RSC Advances*, 7 (77) 48569 – 48585, October 2017, DOI: 10.1039/C7RA08633D (IF: 2.936)
14. Shrenivas Ashrit, Pradip K. Banerjee, **Udayabhanu G. Nair**, and Venugopal Rayasam, "Thermogravimetric analysis of LD slag waste fines in the range of 0–6 mm and establishing the correlation between free lime and weight loss of LD slag fines", *Metall. Res. Technol*. 114 (3), 310 (2017), DOI: 10.1051/metal/2017023 (IF: 0.574)
15. Subhajit Dash, Haribandhu Chaudhuri, Radha Gupta, **G Udayabhanu** and Ashis Sarkar, "Fabrication and application of low cost thiol functionalized coal fly ash for selective adsorption of heavy toxic metal ions from water", *I & EC Research, 56* (6), pp 1461–1470 (2017) (IF 2.567)
16. Amrita Biswas, Sagar Pal, **G Udayabhanu**, "Effect of chemical modification of a natural polysaccharide on its inhibitory action on mild steel in 15% HCl solution", *J Adhesion Science & Technolog*y, VOL. 31, NO. 22, 2468–2489 (2017), doi:10.1080/01694243.2017.1306912 (IF: 1.039)
17. B Santoshkumar, Amrita Biswas, S Kalyanaraman, R Thangavel, **G Udayabhanu**, G Annadurai, S Velumani, "Influence of defect luminescence and structural modification on the electrical properties of Magnesium doped Zinc Oxide nanorods", *Superlattices and Microstructures*, 106, 58 – 66 (2017) (IF: 2.099).
18. Goutam Hatui, Ganesh Chandra Nayak, **G Udayabhanu,** Yogendra K Mishra and Devendra Deo Pathak, "Template free single pot synthesis of SnS2@Cu2O/reduced graphene oxide (rGO) nanoflower for high performance supercapacitors", *New Journal of Chemistry*, (2017), 41, 2702 – 2716, DOI: 10.1039/C6NJ02965E (IF 3.277)
19. Anima Ghosh, Dhirendra K. Chaudhary, Amrita Biswas, Rajalingam Thangavel and **G. Udayabhanu**, "Solution processed Cu_2XSnS_4 (X= Fe, Co, Ni) photo-electrochemical and thin film solar cells on vertically grown ZnO nanorod arrays", *RSC Advances*, 2016, **6**, 115204 – 115212, DOI: 10.1039/C6RA24149B. (IF 3.289)
20. Goutam Hatui, Ganesh Chandra Nayak, **G Udayabhanu**, "One pot solvothermal Synthesis of Sandwich-like Mg Al Layered Double Hydroxide anchored Reduced Graphene Oxide: An excellent electrode material for Supercapacitor", *Electrochimica Acta*, 219 (2016) 214 – 226. (IF 4.803)
21. Anima Ghosh, Amrita Biswas, Rajalingam Thangavel and **G. Udayabhanu**, "Photo-electrochemical property and electronic band structure of kesterite copper chalcogenides Cu_2-II-Sn-S_4 (II = Fe, Co, Ni) thin films", *RSC Advances*, 2016, **6**, 96025 - 96034, DOI: 10.1039/C6RA15700A.(IF 3.289)
22. Mohua Chakraborty, Dhrubojyoti Roy, Amrita Biswas, R. Thangavel and **G. Udayabhanu**, "Structural, optical and photo-electrochemical properties of hydrothermally grown ZnO nanorods arrays covered with a-Fe_2O_3 nanoparticles", *RSC Advances*, 2016,6, 75063 – 75072 (IF 3.289)
23. Shrenivas Ashrit, Ravikrishna V Chatti, K N Udpa, R Venugopal and **Udayabhanu G Nai**r, 'Process optimization of yellow gypsum synthesized from LD Slag fines – an opportunity for value addition of LD Slag', *Metall Res Technol*, 113, 605 (2016), DOI: 10.1051/metal/2016037 (IF 0.54)
24. Saheli Bera, T K Rout, **G. Udayabhanu** and Ramanuj Narayan, 'Water-Based Eco-friendly Hybrid Coating for enhanced Corrosion Protection & Adhesion on Galvanized Steel', *Progress in Organic Coatings*, 101, 24 – 44 (2016) (IF 2.955)
25. Dash, Subhajit; Chaudhuri, Haribandhu ; **G. Nair, Udayabhanu**; Sarkar, Ashis, 'Fabrication of Inexpensive Polyethyleneimine-Functionalized Fly Ash for Highly Enhanced Adsorption of

both Cationic and Anionic Toxic Dyes from Water', *Energy & Fuels*, 30 (8), 6646 – 6653 (2016) DOI: 10.1021/acs.energyfuels.6b00900 (IF 2.835)

26. Neetha V Thampi, Rohith P. John, Keka Ojha and **Udayabhanu G. Nair**, "Effect of Salts, Alkali, and Temperature on the Properties of Sodium Oleate Hydrogel", *I & EC Research*, *55* (20), (2016), pp 5805–5816, DOI: 10.1021/acs.iecr.6b00158 (IF 2.567)
27. Mohua Chakraborty R. Thangavel, Amrita Biswas and **G. Udayabhanu**, "Facile synthesis, and the optical and electrical properties of nanocrystalline $ZnFe_2O_4$ thin films", *Cryst Eng Comm*, 18 (2016), 3095 - 3103, DOI: 10.1039/c5ce02553b (IF 8.849)
28. S Bera, **G Udayabhanu**, R Narayan, T K Rout, "High performance chrome free for white rust protection of zinc", *Material Science and Technology*, 32, 4 (2016) 338 - 347; DOI:10.1179/1743284715Y.000000008 (IF 1.18)
29. Dharmendra Kumar, Santosh Kumar, **G Udayabhanu** and Rohit P John, "4(N,N-dimethylamino) benzaldehyde nicotinic hydrazone as corrosion inhibitor for mild steel in 1M HCl solution: An experimental and theoretical study, *J. of Molecular Liquids*, 216 (2016) 738 – 746; dxdoi1016/j.molliq.2016.02.012 (IF 2.740)
30. Kumari Sangita, Bably Prasad and **G Udayabhanu**, "Synthesis of zeolite from waste fly ash by using different methods", *Asian Journal of Chemistry*, 28, 7 (2016), 1435 – 1439
31. S K Ray, D C Panigrahi, **G Udayabhanu** and V K Saxena, "Assessment of spontaneous heating susceptibility of Indian coals – A new approach", *Energy Sources Part A: Recovery, Utilization and Environmental Effects.* 38, 1 (2016), 59 – 68 DOI: 10.1080/15567036.2012.752422. (IF 0.578)
32. Surabhi, **G Udayabhanu** and Suresh Nikkam, "Removal of Unburnt Carbon from Fly Ash to Use it as an Adsorbent", *Poll Res*. 34 (4): 687 – 692 (2015)
33. Shrenivas Ashrit, Pradip K Banerjee, Tamal K Ghosh, Venugopal Rayasam and **Udayabhanu G Nair**, "Characterization of LD slag fines by X-Ray diffraction", *Metall. Res. Technol*. 112, 502 (2015), DOI: 10.1051/metal/2015030. (IF 0.54)
34. Amrita Biswas, Sagar Pal, **G Udayabhanu**, "Experimental and theoretical studies of xanthan gum and its graft co-polymer as corrosion inhibitor for mild steel in 15% HCl", *Applied Surface Science*, 353 (2015) 173-183. (IF 3.150)
35. Shrenivas Ashrit, Pradip K Banerjee, Ravikrishna V. Chatti, Venugopal Rayasam and **Udayabhanu Gopalakrishnan Nair**, "Synthesis and characterization of yellow gypsum from LD slag fines generated in a steel plant", *Current Science*, 109, 4 (2015), 727 – 732. (IF 0.883)
36. Saheli Bera, T K Rout, **G Udayabhanu**, R Narayan, "Comparative Study of Corrosion Protection of Sol-Gel Coatings with Different Organic Functionality on Al-2024 substrate", *Progress in Organic Coatings*, 88 (2015) 293 – 303, doi 10.1016/j.progcoat.2015.07.006. (IF 2.632)
37. Akshya Kumar Guin , Manish Bhadu , Mohua Sinhababu , Tapan Kumar Rout , **G. Udayabhanu**, "Effect of nano ZnO containing sol-gel coating on galvanized iron sheet, *Pigment and Resin Technology*, 07/2015; 44(4). DOI:10.1108/PRT-01-2014-0007, pp. 239 – 249 (IF 0.79)
38. Shrenivas Ashrit, Pradip Kumar Banerjee, Ravikrishna V Chatti, Venugopal R and **Udayabhanu G,** "Characterization of Gypsum synthesized from LD Slag fines generated at a Waste Recycling Plant of a Steel Plant", *New J. Chemistry*, 39, 4128 (2015); DOI: 10.1039/c4nj02023e, (IF 3.277)
39. Akshya Kumar Guin, Manish Bhadu, Mohua Sinhababu**, G Udayabhanu, "**The Effect of Zirconia Ions on Corrosion Performance of Sol-Gel Coated Galvanised Steel", *J. Coat. Technol. Res*., 11 (6) 967–977, 2014 DOI 10.1007/s11998-014-9602-y. (IF 1.298)

40. Vikash Kumar Saw**,** Manojkumar Gudala, **G. Udayabhanu**, Ajay Mandal and Sukumar Laik. "Kinetics of Methane Hydrate Formation and its Dissociation in presence of Non- ionic Surfactant Tergitol." *Journal of Unconventional Oil and Gas Resources*, 6 (**2014)**, 54 – 59 (Cite Score 4.40)
41. Baisali Sengupta, V.P.Sharma and **G Udayabhanu**, "In-situ gelation studies of an eco-friendly cross-linked polymer system for water shut-off at high temperatures", *Energy Resources Part A, Recovery, Utilization and Environmental Effects*, Volume 36, Issue 13, May (2014) pp. 1445-1467 | DOI: 10.1080/15567036.2011.553661. (IF 0.516)
42. Saheli Bera, **G Udayabhanu**, Ramanuj Narayan and Tapan Kumar Rout, "Sol-Gel Chemistry Materials for Anti-Corrosion Coatings", *Journal of Research Updates in Polymer Science*, 2, No 3 (**2013**)
43. Surabhi, **G Udayabhanu** and Nikkam Suresh, 'Characterization and Beneficiation of carbonaceous material in Indian fly ash' *J of Indian Chem. Soc*., 91, January (**2014**), 73 – 80. (IF 0.251)
44. Krishna Murari Prasad Singh, **G Udayabhanu** and T Gouricharan, "Comparative Studies on the Settling Behaviour of Indian Non-Coking Coal Fines by Standard Jar Test and Instrument", *Int. Journal of Coal Preparatioan and Utilization* (Taylor & Francis), 34, 2, (2014), 65-74, DOI:10.1080/19392699.2013.853663 (IF 1.527)
45. Vikash Kumar Saw**, G. Udayabhanu**, Ajay Mandal and Sukumar Laik. "Methane Hydrate Formation and Dissociation in presence of Silica Sand." *Oil & Gas Science and Technology*, **2014,** DOI: 10.2516/ogst/2013200. (IF 1.258)
46. Neetha V Thampi, Keka Ojha, **Udayabhanu G Nair**, Effect of Branched Alcohols on Phase Behavior and Physicochemical Properties of Winsor IV Microemulsions, *J Surfactants & Detergents*, 2014, Volume 17, Issue 2, pp 371–381 (1.454)
47. S K Ray, D C Panigrahi and **G Udayabhanu**, "Effect of Moisture on Smouldering Combustion Characteristics of Indian Coals", *J Sustainable Energy Eng*.,Vol 1, No 2, April (2013), pp 169 – 179, DOI: 10.7569/JSEE.2013.629512
48. Neetha V Thampi, Keka Ojha, **Udayabhanu G Nair**, "Effect of Branched Alcohols on Phase Behaviour and Physicochemical Properties of Winsor IV Microemulsions, *J Surfactants Detergents* (2014) 17:371–381, DOI 10.1007/s11743-013-1482-0.(IF 1.515)
49. Vikash Kumar Saw, **G Udayabhanu**, Ajay Mandal, Sukumar Laik, "Methane Hydrate Formation and Dissociation in the Presence of Bentonite Clay Suspension", *Chem. Eng & Technol*. 2013, 36, No 5, 1 – 10.(IF 1.366)
50. K M P Singh, **G Udayabhanu** and T Gouricharan, "Sedimentation studies on some industrial flocculates on Indian non coking coal fines", *CPSI Journal*, Vol 4, No 10, pp 6 – 10.(2012)
51. N Haldar, H S Shukla and **G Udayabhanu**, "Anisidine isomers as corrosion inhibitor for oil well casing steel in hydrochloric acid" *Indian Journal of Chemical Technology*, Vol 19, pp 173 – 179 (2012) (IF 0.628)
52. Vikash Kumar Saw, Iqbal Ahmad, Ajay Mandal, **G. Udayabhanu**, Sukumar Laik, "Methane hydrate formation and dissociation in synthetic seawater", *Journal of Natural Gas Chemistry*, 21 (2012) 625 – 632, doi:10.1016/S1003-9953(11)60411-8 (IF 1.405)
53. Baisali Sengupta, V.P.Sharma and **G Udayabhanu**, "A study of the effect of concentration of constituents on the characteristics of a Crosslinked polyacrylamide gel", *Petroleum Science & Tech***,** 30: 1865 – 1881, July, (2012), DOI: 10.1080/10916466.2010.493907 (IF 0.981)
54. Baisali Sengupta, V.P.Sharma and **G Udayabhanu, "**Gelation studies of an organically cross-linked polyacrylamide water shut-off gel system at different temperatures and pH", *J. of Petroleum Science & Engineering*, 81 (2012) 145 – 150, doi:10.1016/j.petrol.2011.12.016 (IF 2.382)

55. H. S. Shukla, N. Haldar and **G.Udayabhanu**, "Synergistic effect of substituted anilines and phenol derivative on corrosion inhibition of mild steel in sulphuric acid medium" *E- Journal of Chemistry*, 9 (1), 2012, 149 - 160
56. Neetha V Thampi, Keka Ojha, **G Udayabhanu**, " An Overview of Recent Advances in Viscoelastic Surfactant based Fracturing Fluid Technology" *Journal of Petroleum Engineering and Technology*, 2, No 2, 1 -14 (2012)
57. Baisali Sengupta, V.P.Sharma and **G Udayabhanu,** "An overview of the performance of ecofriendly polymers for improving oil recovery from existing oil fields", *Journal of Petroleum Engineering and Technology*, 1:1, pp 1 – 12, (2011).
58. Shobha Kumari, Rawesh Kumar, Kamlesh Kumar Mishra, Jai Krishna Pandey,**G Udayabhanu** and Anup Kumar Bandopadhyay, "Determination of Quartz and its Abundance in Respirable Airborne Dust in Both Coal and Metal Mines in India", *Procedia Engineering*, 26 (2011), 1810 – 1819.
59. Sagar Pal, S.Ghorai, M.K.Dash, S.Ghosh, and **G Udayabhanu,** "Flocculation properties of polyacrylamide grafted carboxymethyl guar gum(CMG-g-PAM) synthesized by conventional and microwave assisted method", *J. Hazardous Materials*, 192 (2011) 1580 - 1588, DOI: 10.1016/jhazmat.2011.06.083.(IF 6.434)
60. Mukherjee A., Srivastava S.K., **Udaybhanu G**, "Removal of lead ions from waste water using raw and treated coals as adsorbents", *Int. J. Chem. Sci.*: 9 (4) 1993 – 2008 (2011)
61. H S Shukla, N Haldar and **G Udayabhanu**, "Corrosion inhibition behavior of Gum Acacia as natural occurring polymer for mild steel and synergistic effect of halide ions in H_2SO_4 medium", *J Corrosion Science and Engineering*, 14 (2011), 1- 18.
62. Nilesh Haldar, Himanshu Shekhar Shukla and G **Udayabhanu**, "Alkyl substituted Anilines as Corrosion Inhibitor for N80 Steel in Hydrochloric Acid Medium", *Asian J. of Chemistry*: 23 (11), 5127 – 5132 (2011). (IF 0.253)
63. A.Sarkar, H.Banichul, S. Jena, **G.Udayabhanu** and S Shome, "Morphological analysis of Magnetic Concentrates in Fly ash", *Energy Resources Part A, Recovery, Utilization and Environmental Effects*, 33:11, pp1076 – 1085, (2011), DOI: 10.1080.15567030903330835. (IF 0.555)
64. Sangita, **Udayabhanu, G** and Prasad, B, "Studies on environmental impact of acid mine drainage generation and its treatment: An appraisal", *Indian Journal of Environmental Protection*, 30(11), 2010, pp 953 - 967
65. A. Sarkar, Ruma Rano, **G.Udayabhanu** and A.K.Basu, "A Comprehensive Characterisation of Fly ash from a Thermal Power Plant in Eastern India", *Fuel Processing Technology*, 87 (2006) pp. 259 –277. (IF 3.956)
66. D.C.Panigrahi, J.K.Pandey and **G.Udayabhanu**, "Pattern of Hexa-valent Chromium in Air-borne Respirable Dust Generated at Various Work Places in Opencast Chromite Mines", *Environmental Monitoring and Assessment*, 114, No 1 – 3, March 2006, pp 211 - 213. (IF 1.804)
67. R.K.Singh, **G. Udayabhanu** et.al., "Protection of mild steel by thiourea derivatives as corrosion inhibitors in 20 % HCl", *Bulletin of Electrochemistry*, Vol 22, No 6, pp 257 -261 (2006).
68. J.K.Pandey, **G.Udayabhanu**, D.C.Panigrahi, "An Investigation into the Presence of Hexa-valent Chromium and Total Chromium in Water Sources Around Sukinda Chromite Belt, Orissa", *Indian Journal of Environmental Protection*, Vol 25, No 3 , 2005, pp 260 – 266.
69. Surabhi, Nikkam Suresh and **G.Udayabhanu**, "Methodologies for Recovery of Carbonaceous Material from Coal Combustion Byproducts in India", *Powder Handling & Processing*, Vol 16, No 3 May-June 2004

70. D.C.Panigrahi, H.B.Sahu, **G.Udayabhanu**, V.K.Saxena, "Wet Oxidation Method for Predicting the Spontaneous Heating Susceptibility of Indian Coals", *Coal Mining Technology and Management*, Vol 9, No 6-8, June – August 2004, pp 13 – 21.
71. Sushil Kumar, S.Prasad, **G.Udayabhanu**, "Studies on Some Aspects of Extraction of Nickel from Laterite Ore", *Journal of Metallurgy and Material Science*, Vol. 46, No 1, January – March 2004, pp 39 –49.
72. Emranuzzaman, T.Kumar, S.Vishwanatham and **G.Udayabhanu**, "Synergistic Effects of Formaldehyde and Alcoholic Extract of Plant Leaves for Protection of N80 Steel in 15 % HCl", *Corrosion Engineering, Science and Technology*, Vol 39, No 4 (2004), pp 327 – 332. (IF 1.071)
73. Sushil Kumar, **G.Udayabhanu**, K.M.Godiwalla, "Chemical Composition and Mineralogical Characterisation of Fly Ash From Bokaro Thermal Power Station, India", *Journal of Metallurgy and Material Science*, Vol. 45, No 1, January – March 2003, pp 55 –59.
74. D.C.Panigrahi, V.K.Saxena and **G.Udayabhanu**; " An Empirical Study on Susceptibility of Indian Coals with Some of their Intrinsic Properties, *Indian Mining and Engineering Journal*, Vol. 41, No 10, 2002.
75. S.R.Patnaik, **G.Udayabhanu**, N.S.Rawat, "Evaluation of Molybdate – Polyvinyl Alcohol Mixtures as Inhibitors for Mild Steel Corrosion in Synthetic Sea Water", *Bulletin of Electrochemistry*, Vol 9, No 2 & 3, 1993, pp 66.
76. A.Sarkar, B.Ram, **G.Udayabhanu**, "A model for the Recovery of 2-Naphthol Derivatives from Effluents", *Indian Journal of Environmental Protection*, Vol 5, 1997, pp 376.
77. **G.Udayabhanu**, R.K.Arora, N.S.Rawat, "Effect of Chloride Ions on the Inhibition of Mild Steel Corrosion by Some Nitrogenous Aromatic Compounds in Sulphuric Acid Medium", *Transactions of SAEST*, Vol. 20, No 2 & 3, 1985, 63.

Papers published in the Proceedings of Refereed International Conferences

1. Punita Mourya, Praveen Singh, G Udayabhanu, "Effect of imidazole derivative structure on mild steel corrosion inhibition in sulfuric acid", Corcon 2018, Jaipur, India
2. Saheli Bera, **G Udayabhanu**, T K Rout, "Effect of incorporating natural gum into silane epoxy hybrid layer into silane-epoxy hybrid layer to improve corrosion protection on galvanized steel", Presented in XXX International Conference on Surface Modification Technologies (SMT 30), 29th June-1st July 2016, Milan, Italy.
3. Tithi Sen, Rajalingam Thangavel, **Udayabhanu Gopalakrishnan Nair**, "Study of morphological and electrical properties of zinc doped nickel oxide thin film prepared by facile sol-gel method", Presented in XXX International Conference on Surface Modification Technologies (SMT 30), 29th June-1st July 2016, Milan, Italy.
4. K M P Singh, **G Udayabhanu** and T Gouricharan, "Coal Hhophobicity and the settling behavior of coal fines tailings", XVIII International Coal Preparation Congress, 28 June – 1 July 2016, St Petersburg, Russia, pp 451 – 455, ISBN: 978-3-319-40942-9 (Print) 978-3-319-40943-6 (Online)
5. Amrita Biswas, Sagar Pal and **G Udayabhanu**, "Natural polysaccharides as inhibitors for mild steel corrosion in 15 % HCl medium", Paper No 17267, Asia Pacific Corrosion Control Conference, Jan 27 – 30, 2016, Victor Menzes Convention Centre, IIT Bombay, India.

6. Ritesh Mohan, **G Udayabhanu** and Nikkam Suresh, "An electron microprobe microanalysis study of float-sink fractions of the coal middlings from a coking-coal washery", MPT 2016, Jan 5-7, 2016, TCS Sahyadri Park Campus, Hinjewadi, Pune, India.
7. Shobha Kumari, T Gouri Charan, J K Pandey and **G Udayabhanu**, "Effect of washing Indian non-coking coals for reduction of quartz", MPT 2016, Jan 5-7, 2016, TCS Sahyadri Park Campus, Hinjewadi, Pune, India.
8. Shalini Pandey, Sumanta Let, K M P Singh, G K Bayen and **G Udayabhanu**, "A brief study on the effect of HF treatment on the rice husk chars properties", MPT 2016, Jan 5-7, 2016, TCS Sahyadri Park Campus, Hinjewadi, Pune, India.
9. Sumanta Let, Shalini Pandey, K M P Singh, G K Bayen and **G Udayabhanu**, "A study on effect of temperature and carbonization time on the properties of rice husk char", MPT 2016, Jan 5-7, 2016, TCS Sahyadri Park Campus, Hinjewadi, Pune, India.
10. K M P Singh, **G Udayabhanu** and T Gouricharan, "Sedimentation Studies on an Indian Non – Coking Coal Washery Fines", Proc., 17th International Coal Preparation Congress, 1 – 6 October, 2013, Istanbul, Turkey, pp 503 – 507.
11. Akshya K Guin, M Bhadu, Mahua Sinhababu, Saurabh Mittal, **G Udayabhanu**, "Effective Corrosion inhibition Performance of Quinol Containing Sol-Gel Coating on GI Sheet", CORCON 2013, Sept 30 – Oct 3, 2013, New Delhi, Paper No 13RPC13.
12. Vikash Kumar Saw**,** Manojkumar Gudala, G**. Udayabhanu**, Ajay Mandal and Sukumar Laik. "Kinetics of Methane Hydrate Formation and its Dissociation in presence of Non- ionic Surfactant Tergitol." *International Conference on Developing Oil and Gas Resources "DUOG 13"*, **March 1-3, 2013**, IIT Madras, India
13. K M P Singh. **G Udayabhanu**, T Gouricharan, " Flocculation studies on Indian no coking coal fines, paper No 806, XXVI International Mineral Processing Congress, New Delhi (2012)
14. B Sengupta, V P Sharma and **G Udayabhanu**, "Development and performance of an eco-friendly cross-linked polymer system for water shut-off technique", Int Petroleum Technology Conf. (IPTC 2012) Bangkok, Thailand, 7 – 9 Feb 2012, Vol. 1, 601 - 611
15. S.K. Ray, D.C. Panigrahi, **G. Udayabhanu** and V.K. Saxena, " A Study of Spontaneous Heating Characteristics of Indian Coals by Crossing Point Temperature and Wet Oxidation Potential Methods", 34th International Conference on Safety in Mines Research Institutes, 7 - 10 December 2011, Macmillan (2011) 179 – 190
16. Shobha Kumari, Rawesh Kumar, Kamlesh Kumar Mishra, Jai Krishna Pandey, **G Udayabhanu**, Anup Kumar Bandopadhyay, "Determination of quartz and its abundance in respirable airborne dust in both coal and metal mines in India", First International Symposium on Mine Safety Science and Engineering, 26 – 28 October 2011, Beijing, China
17. K M P Singh, **G Udayabhanu**, T Gouricharan and D D Haldar, "Settling Characteristics of Indian Non-Coking Coal fines of Different Size Fractions Using Various Flocculents", MPT 2011, Udaipur.
18. Shobha Kumari, Rawesh Kumar, Kamlesh Kumar Mishra, Jai Krishna Pandey, **Gopalakrishna Nair Udayabhanu** and Anup Kumar Bandopadhyay, "Emission of respirable quartz-laden dust in mines – Its measurement, variation, prediction and control for safety in work places", AIMPS, CIMFR, Dhanbad, 26 -27 August 2011.

19. Baisali Sengupta, V P Sharma and **G Udayabhanu**, "Study of the Gelation Kinetics and Rheological Behaviour of an Organically Cross-linked Polyacrylamide Gel Systems Used for Enhanced Oil Recovery", Presented at the International Conference on Unconventional Sources of Fossil Fuels and Carbon Management, held at PDPU, Gandhinagar, Gujrat, Feb 21 – 22, 2011.
20. K. M. P. Singh, **G. Udayabhanu**, T. Gouri Charan and D. D. Haldar; Flocculation Studies on Non-Coking Coal Fines Using Suitable Reagents, *Proceedings of the XI International Seminar on Mineral Processing Technology (MPT-2010), pp. 259–264*
21. J K Pandey and **G Udayabhanu**, " Control of active mine fires in Alkusa Colliery of Jharia Coal Field", 9th International Mine Ventilation Congress, New Delhi, India 10 – 13 November, 2009, Proceedings, pp 127 – 134.
22. D.C.Panigrahi, **G.Udayabhanu**, M.D.Yadav, R.S.Singh, "Development of Inhibitors to Reduce the Spontaneous Heating Susceptibility of Indian Coals", Proceedings, *8th International Mine Ventilation Congress, Brisbane, Australia*, 6 – 8 July 2005, Australian Institute of Mining and Metallurgy, pp 349 – 353.
23. Surabhi, **G.Udayabhanu**, Nikkam Suresh, "Recovery of Carbonaceous Material from Bokaro Thermal Power Plant (BTPP) by Froth Flotation", Proceedings, *International Seminar on Mineral Processing Technology (MPT – 2005), January 6 – 8, 2005, Indian school of Mines, Dhanbad*, pp 333 - 340
24. D.C.Panigrahi, **G.Udayabhanu**, "Development of Retardants to Control Fire in Opencast Coal Mines", Proceedings, *19th World Mining Congress, 1 – 5 November 2003, New Delhi*, pp 1101 – 1110.
25. A.Sarkar, Anil Kumar**, G.Udayabhanu** and A.K.Basu, "Cenospheres- the High Potency Fillers for Specialty Construction Materials, Proceedings, *International. Conference on Construction Materials and Management, 9-11 January, 2003, IIT Kharagpur*, Phoenix Publishing House, pp 751.
26. A.K.Mahato, S.Vishwanatham and **G.Udayabhanu**, "Corrosion Problems of Copper Condenser Tubes in the Nitrogen Gas Plant of TISCO Colliery, Sijua (Dhanbad) – A Case Study", Proceedings, *Seventh International Symposium on Electrochemical Science and Technology (ISAEST – VII), 27-29 November 2002, Chennai*, pp C25 – C28.
27. A Sarkar, K Karmakar, **G Udayabhanu**, S Vishwanatham, M M Konar and R Venugopal, "A Comparative Study on the Performance of Some Alicyclic Alcohols and Cresols as Frother", Proceedings, *Internationa. Conference on Challenges in Coal and Mineral Beneficiation, Indian School of Mines, Dhanbad, Dec.7-8, 2001*; Tata McGraw Hill, pp 97-107.
28. D.C.Panigrahi, Ranveer, **G.Udayabhanu**, "Influence of Some Additives on Spontaneous Heating Susceptibility of Indian Coals", Proceedings, *Internationl.* Conference *on Challenges in Coal and Mineral Beneficiation, Indian School of* Mines, *Dhanbad, Dec.7-8, 2001*; Tata McGraw Hill, pp 217 – 226.
29. D.C.Panigrahi, V.K.Saxena, **G.Udayabhanu**, "A Study of Susceptibility of Indian Coals to Spontaneous Combustion and its Correlation with their Intrinsic Properties", Proceedings, *International Seminar on Mine Environment and Ventilation, December 11 – 12, 2000, Indian school of Mines, Dhanbad*, A.A.Balchema, Netherlands and Oxford &IBH, pp 347 – 353.
30. D.C.Panigrahi, Ranveer, **G.Udayabhanu**, "Role of Some Additives on Spontaneous Heating Characteristics of Indian Coals", *International Seminar on Mine* Environment *and Ventilation, December 11 –12, 2000, Indian school of Mines, Dhanbad,* A.A. Balchema Netherlands, and Oxford & IBH, pp 409 – 414

31. **G.Udayabhanu**, N.S.Rawat, "Plant Material (Azadirachta Indica) as Corrosion Inhibitor", *7th European Symposium on Corrosion Inhibitors, Univ. of Ferrara, Italy, September 17-23, 1990.*

32. N.S.Rawat, **G.Udayabhnau**, "Electrochemical Behaviour of Copper in Dil. Sulphuric Acid Containing Halide Ions and Benzotriazole", *7th European Symposim on corrosion Inhibitors, Univ. of Ferrara, Italy, September 17-23, 1990.*

33. **G.Udayabhanu,** N.S.Rawat, " Synergistic Effects of Halide Ions and Benzyl Amine on the Electrochemical Behaviour of Mild Steel in Dilute Sulphuric acid", *10th International Congress on Metallic Corrosion (ICMC) Madras, 1987*, Proceedings, Vol III, pp 2963

Papers Presented in National Seminars

1. Amrita Biswas, Sagar Pal, **G Udayabhanu**, "Chemically Modified Polysaccharide as Corrosion Inhibitor for Mild Steel in 15% HCl Medium", CORSYM 2014, February 20 -21 2014, Victor Menzes Convention Centre, IIT Bombay.

2. Baisali Sengupta, V P Sharma and **G Udayabhanu**, " Rheological studies of cross-linked polymer gel system for application in chemical enhanced oil recovery", Proceedings, PP-15, Paper presented in Current Trends in Chemistry 2011 (CTriC 2011), March 4 – 5, 2011, Cochin University of Science & Technology, Kochi, Proceedings, OP-1, pp 35.

3. Neetha V Thampi, Keka Ojha and **G Udayabhanu,** " Novel applications of microemulsions: Comment on its phase behaviour, effect alcohols, salts on solubilisation pattern and rheological properties of Wnsor IV gel phase", Paper presented in Current Trends in Chemistry 2011 (CTriC 2011), March 4 – 5, 2011, Cochin University of Science & Technology, Kochi, Proceedings, OP-1, pp 8.
4. A.Sarkar, B.Kumari, **G.Udayabhanu** and K.Nagarajan, "Magnetic properties of Fe bearing nanoparticles from ultrafine flyash", Paper CT07, National Seminar on Nanomaterials and their Applications (NANOMAT-2011), ISM, Dhanbad, Feb 10 – 11, 2011
5. Himanshu Shekhar Shukla and **G.Udayabhanu**, "Corrosion Studies on Mild Steel and Cast Iron in Flyash Slurries", National Convention of Electrochemists, 6 – 7 December, 2007, IGCAR, Kalpakkam, B-15.

6. A. Sarkar, **G. Udayabhanu**, P.K. Behera & A.K.Basu, "Effect of particle characteristic of size fractionated flyash on compressive strength flyash cement concrete". Advance in Civil Engineering – (ACE- 2002). 3 - 5, Jan. 2002. Transportation 1 Geo Technical Structural Engineering. Vol. II , pp 1495

7. Aparna Mukherjee and **G Udayabhanu**, "A FTIR and SEM study of the effect of chemical treatment of some coal samples", National conference on Instrumental Techniques in Chemical analysis, Indian school of mines, Dhanbad, Sept. 15-16,2001.

8. Ranveer, **G.Udayabhanu**, N.M.Mishra, D.D.Pathak, D.C.Panigrahi, "FTIR and XRD Characteristics of Some Indian Coals Highly Prone to Spontaneous Combustion"' Paper presented in *National Seminar on Instrumental Techniques in Chemical Analysis, September 15-16, 2001, ISM, Dhanbad*.

9. A.Sarkar, **G.Udayabhanu**, J.P.Baranwal, R.Venugopal, "Fourier Transform Infrared Spectroscopic Studies of Flyash Components", Paper presented in *National Seminar on Applied Physics, March 25-26, 1998, ISM, Dhanbad*.

10. R.K.Singh, **G.Udayabhanu**, " Inhibition of Mild Steel Corrosion by Some Organic Compounds and Quaternary Ammonium Salts in Dilute Hydrochloric Acid", Paper presented in *7th National Congress on Corrosion Control, September 17-19, Hyderabad, 1997.*

11. D.C.Panigrahi, Alok Ojha,**G.Udayabhanu**, " A Comparative Study of Wet Oxidation Method and Crossing Point Temperature Method for Determining the Susceptibility of Indian Coals to Spontaneous Combustion", Proceedings, *Seminar on Prevention and Control of Mine and Industrial Fires – Trends and Challenges, Calcutta, 1996.*

12. **G.Udayabhanu**, M.K.Jha, N.S.Rawat, "Activation Energy for the Corrosion of Mild Steel in Sulphuric Acid", Paper presented in *5th Annual Convention of Indian Council of Chemists, BIT, Sindri, November 7-11, 1985*.