

BIO-DATA of Prof. Sudip Kumar Das

Name : Sudip Kumar Das

Date of Birth : 27th Oct., 1957

Designation : Professor & Head

Postal Address : Department of Chemical Engineering
University of Calcutta
92, A. P. C. Road
Kolkata – 700 009
West Bengal, INDIA

E-mail : drsudipkdas@vsnl.net, skdchemengg@caluniv.ac.in

Telephone : 0091-033-2350 1397 Ext. 247 (O)
0091-033-2566 7650 (R)
0091 9830638908 (M); 0091 8697304884 (M)

Citizenship : Citizen of INDIA

Religion : Christian

Marital Status : Married with two children

Proficiency in Languages : Can read, write and speak in English and Bengali

Academic qualifications beginning with Bachelor's degree

Sl No.	Degree	University/Institute	Division/Equivalent	Year of passing	Specialisation
1	B. Sc (Hons.)	St. Xavier's College (Calcutta University)	I	1979	Chemistry
2	B. Tech.	Calcutta University	I	1982	Chemical Engineering
3	M. Tech.	IIT, Kharagpur	No Class being awarded	1984	Chemical Engineering Plant Design & Fabrication
4	Ph. D.	IIT, Kharagpur	Thesis title : Studies on two-phase gas-non-Newtonian liquid flow in horizontal, vertical tubes and bends	1988	Chemical Engineering - Multiphase Flow Phenomena

Membership of Professional Bodies/Societies

- 1) Member, IEEE
- 2) Member, Indian Institute of Chemical Engineers
- 3) Member, Indian Association for Air Pollution Control
- 4) Fellow, Indian Chemical Society
- 5) Fellow, Institute of Engineers
- 6) Member, Millennium Institute of Energy and Environment Management
- 7) Fellow, International Congress of Chemistry and Environment
- 8) Life Member, Int. J. Research under Literal Access
- 9) Member, Indian Science Congress
- 10) Member of Senate, University of Calcutta
- 11) Member of Faculty Council, University of Calcutta

Information related to Employment

- Rank: Professor
Chemical Engineering Department
Calcutta University
Since 20th November, 2014
- Rank: Associated Professor
Chemical Engineering Department
Calcutta University
23rd May, 2000 to 19th November, 2014
- Rank: Senior Lecturer
Chemical Engineering Department
Calcutta University
17th May, 1996 to 22nd May, 2000
- Rank: Lecturer
Chemical Engineering Department
Calcutta University
17th May, 1991 to 16th May, 1996
- Rank: Lecturer
Chemical Engineering Department
P. V. P. Institute of Technology
Budhgaon, Sangli
Maharashtra
17th January, 1989 to 11th May, 1991

In total **29** years of **Teaching** experience in UG and PG level in different Chemical Engineering subjects and **33** years of **Research** experience.

Academic Distinctions

1. 1st. in Chemistry Hons. in St. Xavier's College, Calcutta
2. National Fellowship in B. Tech. Course
3. IIT Fellowship in M. Tech. Course
4. IIT Fellowship in Ph. D. Course
5. **Indian National Science Academy Visiting Research Fellowship award 1999-2000**
6. **Research Ratna Award of the year 2019 for Best Researcher in Environmental Engineering**
7. **The Bharat Jyoti Puraskar 2018**, by Best Citizen Publishing House, New Delhi
8. **Indira Gandhi Gold Medal Award – 2016**, by The Global Economic Progress & Research Association, New Delhi
9. **Outstanding Faculty Award - 2015**, by Venus International Foundation, Chennai
10. **The best Citizen of India Award – 2015**, by International Publishing House, New Delhi.
11. **Dr. Radhakrishnan Gold Medal Award – 2015**, by The Global Economic Progress & Research Association, New Delhi
12. **Dr. Radhakrishnan Gold Medal Award – 2014**, by The Global Economic Progress & Research Association, New Delhi
13. **Bharat Gaurav Award, 2014** by India International Friendship Society
14. Selected as one of the **TOP 100 ENGINEERS 2009, 2010** by the International Biographical Centre, Cambridge, England.
15. **Marquis Who's Who in the World – 2008, 2009, 2010, 2011**
16. **Vical Award – 2nd Prize**, Gas-non-Newtonian Liquid flow through Helical Coils, A. B. Biswas and S. K. Das, CHEMCON 2004, Dec. 27-30, 2004 Mumbai
17. **Vical Award – 1st Prize** Comparative study on adsorption of phenol by natural and synthetic adsorbents, A. Banerjee, T. K. Naiya and S. K. Das, SCHEMCON 2006, Anantapur, 2006.
18. **Top 25 Hottest Articles – July – September 2006 in Chemical Engineering Journal, SI NO. 9** : A.K Bhattacharya,.; S.N Mandal,.; S.K. Das, **Adsorption of Zn(II) from aqueous**

solution by using different adsorbents, *Chemical Engineering Journal*, **123(1-2)**, 43-51 2006.

19. **Top 25 Hottest Articles – January – March 2008 in Chemical Engineering Journal, SI NO. 17** : A.K Bhattacharya,.; Naiya, T.K. S.N. Mandal, S.K. Das, **Adsorption, kinetics and equilibrium studies on removal of Cr(VI) from aqueous solutions using different low-cost adsorbents**, *Chemical Engineering Journal*,**137(3)** 529-541 (2008).
20. **Top 25 Hottest Articles – April - July 2008 in Chemical Engineering Journal, SI NO. 25** : A.K Bhattacharya,.; Naiya, T.K. S.N. Mandal, S.K. Das, **Adsorption, kinetics and equilibrium studies on removal of Cr(VI) from aqueous solutions using different low-cost adsorbents**, *Chemical Engineering Journal*, **137(3)** 529-541 (2008).
21. **Top 25 Hottest Articles – October - December 2008 in Journal of Chemical Health and Safety, SI NO. 10** : R. K. Gangopadhyay, S.K. Das, **Lessons learned from a fuming sulfuric acid tank overflow incident**, *Journal of Chemical Health and Safety*, **15(5)** 13-15 (2009).
22. **Top 25 Hottest Articles – January- March 2009 in Chemical Engineering Journal, SI NO. 15** : T. K. Naiya, P. Chowdhury, A.K Bhattacharya, S.K. Das, **Saw dust and neem bark as low-cost natural biosorbent for adsorptive removal of Zn(II) and Cd(II) ions from aqueous solutions**, , *Chemical Engineering Journal*, **147(2-3)** 245-251 (2008).
23. **Top 25 Hottest Articles – January – March 2009 in Journal of Chemical Health and Safety, SI NO. 19** : R. K. Gangopadhyay, S.K. Das, **Lessons learned from a fuming sulfuric acid tank overflow incident**, *Journal of Chemical Health and Safety*, **15(5)** 13-15 (2009).
24. **Top 25 Hottest Articles – July - September 2009 in Journal of Chemical Health and Safety, SI NO. 21** : R. K. Gangopadhyay, S.K. Das, **Lessons learned from a fuming sulfuric acid tank overflow incident**, *Journal of Chemical Health and Safety*, **15(5)** 13-15 (2009).
25. **Top 10 cited paper in Chemical Engineering Journal in last 5 years : SI no 6** : A.K Bhattacharya, S.N Mandal, S.K. Das, **Adsorption of Zn(II) from aqueous solution by using different adsorbents**, *Chemical Engineering Journal*, **123(1-2)**, 43-51 2006; dated 22nd June 2011, Citation received – 294.
26. **Top 10 cited paper in Chemical Engineering Journal in last 5 years : SI no 3** : A.K Bhattacharya,.; T. K. Naiya; S.N Mandal; S.K. Das, **Adsorption, Kinetics and Equilibrium studies on removal of Cr(VI) from aqueous solutions using different low-cost adsorbents** *Chemical Engineering Journal*, **123(1-2)**, 43-51 2006; dated 3rd March 2012, Citation received – 378.
27. **Best Paper Presentation award** in the Technical Session - Gas-Liquid system : 43rd Annual Session of IChE, Varanasi, Dec. 18-21, 1990

28. **Best Paper Presentation award** in the Technical Session - Transport Phenomena : 49th Annual Session of IChE, Ankleshwar, Dec. 15-18, 1996.
29. **Chairman** in the technical session TS1.4 Process Dynamics & Control, 51st Annual Session IChE, Visakhapatnam, 1998.
30. **Chairman** in the technical session TS 3.5 Reaction Engineering I, 51st Annual Session IChE, Visakhapatnam, 1998.
31. **Co-Chairman** in the technical session TS 4.2 Environmental Engineering IV, 51st Annual Session IChE, Visakhapatnam, 1998.
32. **Chairman** in the Technical Session III, All India Seminar on Chemical Engineering for Better Tomorrow, 10-11 November, 2001, REC Rourkela.
33. **Co-Chairman** in the Technical Session I, All India Seminar on Pollution Management in Chemical, Ceramics, Metallurgical & Mining Industries: Emerging Trends and Challenges, 15-16 November, 2002, NIT Rourkela.
34. **Invited Lecture** in the Seminar on Utilisation of non-conventional energy to meet energy crisis in India, Indo-German Association, Calcutta, 24th September, 2003
35. **Chairman** in the Technical Session II-E Energy Engineering (EE-2), Indian Chemical Engineering Congress-2003 (CHEMCON-2003), 19-22 December 2003, Bhubaneswar.
36. **Co-Chairman** in the Technical Session 1, **International Conference on Chemical Engineering** 2003, 29-30 December, BUET, Dhaka, Bangladesh.
37. **Co-Chairman** in the Technical Session III, National Seminar on Emerging Technology for Sustainable Environment in Chemical and Allied Industries, 2-3 October, 2004, Rourkela.
38. **Chairman** in the Technical Session Polymer Processing II, CHEMCON 2004, 27-30 December 2004, Mumbai.
39. **Co-Chairman** in the Technical Session III, WMCI – 2005, Rourkela
40. **Member of National Organizational Committee**, Indian Chemical Engineering Congress, CHEMCON 2005, New Delhi 14-17 Dec. 2005, New Delhi.
41. **Co-Chairman** in the Technical Session Modelling and Simulation I, Indian Chemical Engineering Congress-2005 (CHEMCON-2005), 14-17 December 2005, Delhi.
42. **Member National Organizational; Committee**, Indian Chemical Engineering Congress for Students, SCHEMCON 2007, 16-17 Sept. 2006, Anantapur.

43. **Chairman** in the Technical Session Environmental Engineering I , SCHEMCOM 2006, 16-17 Sept., 2006 Anantapur.
44. **Chairman** in the Technical Session TP – 2, Indian Chemical Engineering Congress, CHEMCON 2006, 27-28 Dec. 2006, Bharuch.
45. **Chairman** in the Technical Session TP – 2, Indian Chemical Engineering Congress, CHEMCON 2006, 27-28 Dec. 2006, Bharuch.
46. **Chairman** in the Technical Session – 4 International Conference **E-Waste Management in India- A Sustainable Solution, 18th May 2007**, Mumbai.
47. **Member National Organizational Committee**, Indian Chemical Engineering Congress, CHEMCON 2006, 27-28 Dec. 2006, Bharuch.
48. **Member National Organizational; Committee**, Indian Chemical Engineering Congress, CHEMCON 2007, Kolkata, 27-28 Dec. 2007, Kolkata.
49. **Member National Organizational Committee**, National Conference on Frontier of Chemical Engineering, 2007, 12-14 Dec. 2007, IIT Guwahati.
50. **Member National Organization Committee**, CHEMCON 2007, 27-30 Dec. 2007, Kolkata.
51. **Chairman in Technical Session – Paper Competition**, Int. Conf. on E-Waste Management, IChE Mumbai, May 18, 2007.
52. **Chairman** in the **Technical Session Chemical Engineering – III & Nanotechnology, International Conference on Modeling and Simulation (Emerging Methods towards Frontier Technologies in Chemical and Physical Sciences)**, CITICOMS 2007, 27 – 29, August 2007, Coimbatore.
53. **Chairman** in the **Technical Session – 11, National Conference on Frontiers in Chemical Engineering, NCFCE-2007**, Dec. 12-14, 2007.
54. **Member** of the **Refrigeration and Air Conditioning Sectional Committee, ME 03, Bureau of Indian Standard 2007 to till date.**
55. **Best Paper Presentation Award** : Tapan Kumar Ghosh, Nirjhar Bar and **Sudip Kumar Das**, Experimental studies of the flow pattern in small diameter tubes and ANN prediction, National Conference on Frontiers in Chemical Engineering 2007, 12-14 Dec. 2007, Guwahati.
56. **Chairman** in the **Technical Session - CFD, CHEMCON 2007**, Dec. 27-30, 2007.
57. **Best Paper Presentation award** in the Technical Session – Chemical Engineering - I :T. K. Naiya, S. N. Mandal, B. Singha, A. K. Bhattacharya and S. K. Das, Adsorption of Cd(II) and

Pb(II) onto clarified sludge – kinetics, thermodynamics, desorption and application study, GMSARN International Conference on Sustainable development : Issues and Prospects for the Greater Mekong Subregion, 12-14 November 2008 at Kunming, China, 12-14 Nov. 2008.

58. **Chairman in the Plenary Lectures Sessions – CHEMCON 2009, 62nd Annual Session of Indian Institute of Chemical Engineers, 27-30, Dec. 2009, Visakhapatnam.**
59. **Chairman in the Poster Session 5 – CHEMCON 2009, 62nd Annual Session of Indian Institute of Chemical Engineers, 27-30, Dec. 2009, Visakhapatnam.**
60. **Chairman in the Technical Session 2 – National Conference on Recent Trends in Engineering & Education, RTEE 2010, 28-29, Jan. 2010, Kolkata.**
61. **Plenary lecture IV in 6th Annual Session Student Chemical Engineering Congress, SCHEMCON 2010, 24-25, Sept. 2010, Guntur, AP.**
62. **Chairman in the Technical Session – Environmental Engineering, 6th Annual Session Student Chemical Engineering Congress, SCHEMCON 2010, 24-25, Sept. 2010, Guntur, AP.**
63. **Invited Talk in the 47th Annual Convention of Chemists-2010 & International Conference on Recent Advances in Chemical Sciences, 23-27 Dec. 2010, Raipur.**
64. **Chairman in the Technical Session in Applied Chemistry, 47th Annual Convention of Chemists-2010 & International Conference on Recent Advances in Chemical Sciences, 23-27 Dec. 2010, Raipur.**
65. **Best Papers award in the International Conference on Advanced Engineering and Technology ICAET'2011 – Nirjhar Bar, Tapan Ghosh, Manindra Nath Biswas and Sudip Kumar Das, Prediction of flow pattern in small diameter tubes using artificial neural network, International Conference on Advanced Engineering and Technology, E.C.G. Pillay Engineering College, Nagapattinam, TN.**
66. **Best Papers award in the International Conference on Advanced Engineering and Technology ICAET'2011 – Nirjhar Bar, Manindra Nath Biswas and Sudip Kumar Das, Frictional pressure drop prediction using ANN for gas-non-Newtonian liquid flow through 45° bend, International Conference on Advanced Engineering and Technology, E.C.G. Pillay Engineering College, Nagapattinam, TN.**
67. **Invited Talk in the National Seminar on New Routes and Challenges of Chemical Science, 21-22 Sept. 2011, Bhagalpur.**
68. **Chairman in the 3rd Technical Session in the National Seminar on New Routes and Challenges of Chemical Science, 21-22 Sept. 2011, Bhagalpur.**

69. **Co-Chairman in the Technical Session in the 7th Students' Chemical Engineering Congress 2011, SCHEMCOM 2011, 23-24 Sept. 2011, Kolkata.**
70. **Invited Talk in the 48th Annual Convention of Chemists-2011 & International Year of Chemistry, 3-7 Dec. 2011, Allahabad.**
71. **Chairman in the Technical Session IV in the International Conference on Control of Industrial Gaseous Emission, 9-10 Feb. 2012, Annamalai.**
72. **Chairman in the Technical Session – Process Systems Engineering 4 in the 2nd International Conference on Process Engineering and advanced Materials, IPCEAM 2012, 12-14 June 2012, Kuala Lumpur, Malaysia.**
73. **Chairman in the Technical Session – V – Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry & Industry (2012), The Indian Chemical Society, August 02-03, 2012, Kolkata.**
74. **Invited Talk in the 49th Annual Convention of Chemist-2012, 11-16 Dec. 2012, Bhopal.**
75. **Chairman in the Technical Poster Session in Analytical Chemistry and Environmental Chemistry, 11-16 Dec. 2012, Bhopal.**
76. **Chairman in the Technical Session New and Renewable Energy in 65th Annual Session of IChE, 27 – 30, Dec. 2012, Jalandhar.**
77. **Invited Talk in the National Seminar on New Strategies for Balancing the Environment, 2-3 March 2013, Naugachia, Bhagalpur**
78. **Invited Talk in the 50th Annual Convention of Chemists 2013, 4-7 Dec., 2013, Punjab.**
79. **Chairman in the Technical Session Analytical Chemistry and Environmental Chemistry in the 50th Annual Convention of Chemists 2013, 4-7 Dec., 2013, Punjab.**
80. **Chairman in the Poster Session Analytical Chemistry and Environmental Chemistry in the 50th Annual Convention of Chemists 2013, 4-7 Dec., 2013, Punjab.**
81. **Keynote Talk in the TRACK-8 Transport Process in International Conference – 1st Energy System Modeling & Optimization Conference, ESMOC 2013, 9-11 Dec., 2013 Durgapur**
82. **Chairman in the TRACK-8 Transport Process in International Conference – 1st Energy System Modeling & Optimization Conference, ESMOC 2013, 9-11 Dec., 2013 Durgapur.**
83. **Invited Talk in the National Seminar on Information Science and Environment, 12 -13 September 2014, Naugachia, Bhagalpur.**

84. **Invited Lecture in the 51st Annual Convension of Chemists 2014** in the Industrial & Applied Chemistry Section, 9-12, Dec. 2014, Kurukshetra.
85. **Invited Lecture in the 2nd International Conference on Nanotechnology -ICNT – 2015**, 19 – 21 Feb. 2014, Haldia Institute of Technology, Haldia, Purba Medinipur.
86. **Invited Lecture in the All India Seminar on Recent Developments in Chemical reactors & Reaction engineering for security in Energy, Environment, Food and Healthcare**, 20-21 March, 2015, Kolkata.
87. **Invited Lecture in the Workshop on environmental awareness: role of technology & media**, 19 Sept. 2015, Kolkata.
88. **Invited Lecture in the National Seminar Chemistry for Sustainable development**, 22-23 September 2015, Naugachia, Bhagalpur.
89. **Chairman in the 1st Technical Session in the Golden Jubilee International Conference on Recent Developments in Chemical and Biochemical Engineering**, NIT Durgapur, 2-4 Oct. 2015, Durgapur
90. **Keynote lecture in the 1st Technical Session in the Golden Jubilee International Conference on Recent Developments in Chemical and Biochemical Engineering**, NIT Durgapur, 2-4 Oct. 2015, Durgapur
91. **Invited Lecture in the 52nd Annual Convention of Chemists 2015 and International Conference on Recent Advances in Chemical Science** in the Industrial & Applied Chemistry Section, 28-30, Dec. 2015, JECRC University, Jaipur, Rajasthan.
88. **Invited Lecture in the International Conference on Recent Trends in Energy Technology, ICRTET-2016**, HIT Haldia, 21-23, Jan. 2016, Haldia.
89. **Keynote lecture in the National Symposium on Multiphase Flow, NSMF 2016**, NIT Durgapur, 22-24 Feb.. 2016, Durgapur.
90. **Invited Lecture in the National Seminar on Recent Advnace in Chemistry**, T.M. Bhagalpur University, 25-26 Feb. 2016, Bhagalpur.
91. **2nd Best Poster presentation in the International Conference on Advances in Engineering and Technology, ICAET-2016**, 4-5April, 2016, Kolkata
92. **Invited Lecture in the National Conference on Recent Developments & Applications in Chemical Sciences**, RDACS-2016, 20-21 May, 2016 NIT, Agartala
93. **Invited Lecture in the Short Term Programme on Recent Advancement in Upstream and Downstream Industries**, 13-17 June, 2016, NIT, Durgapur.

94. **Invited Lecture in the Short Term course on Modern Petroleum Industry and Its Challenges**, 1-5, Aug., 2016, IIT (ISM) Dhanbad.
95. **Chairman in the Technical Session 2A in the International Conference on Chemical and Polymeric Materials, ICEAPM 2016**, 18-21 Aug. 2016, BIT, Mesra.
96. **Chairman in the Technical Session 4B & 5B in the International Conference on Chemical and Polymeric Materials, ICEAPM 2016**, 18-21 Aug. 2016, BIT, Mesra.
97. **Invited Lecture in the International Conference on Chemical and Polymeric Materials, ICEAPM 2016**, 18-21 Aug. 2016, BIT, Mesra.
98. **Invited Lecture in the Nat. Sem. On Application of Image Processing in Chemical Engineering, Biology and Medicine**, Oct. 1, 2016, IE(I) Kolkata
99. **Invited Lecture in the National Conference on Frontiers in Chemical Sciences**, 4 Oct. 2016, Pacific Academy of Higher Education and Research University, Udaipur.
100. **Invited Lecture in the 53rd Annual Convention of Chemists 2016** in the Industrial Chemistry and Applied Chemistry Section, 27-29, Dec. 2016, GITAM University, Visakhapatnam, Andhra Pradesh.
101. **Chairman in the 2nd Technical Session in the Workshop Process Safety Management**, 10th Nov. 2017, Kolkata.
102. **Invited Lecturer ‘Non-spherical solid-non-Newtonian liquid fluidization’ in the One Day Seminar on Advancement of Chemical Engineering and Biotechnology in securing Health, Energy and Food**, 10th Nov. 2017, Kolkata.
103. **Invited Lecture ‘Fluidization using non-Newtonian liquids’ in the National Workshop on Applications of Cghemical Engineering in Natural Resources (AChENRI)**, 17-21, 2018, Sarang, Odisha.
104. **Chairman in the 3rd. Technical Session: Instrumentation essentially used in measurements of GW and PC in the All India Seminar on Recent Trends in Chemical Engineering and Biotechnology in Mitigation of Global Warming, The Institution of Engineers (India)**, 17-18 Aug. 2018, Kolkata.
105. **Invited Lecture “Role of chemical engineers for saving environment” in the All India Seminar on Recent Trends in Chemical Engineering and Biotechnology in Mitigation of Global Warming, The Institution of Engineers (India)**, 17-18 Aug. 2018, Kolkata.
106. **Invited as Guest of Honour in the Workshop on ‘Industry-Academia Interaction to meet the challenges in Process Industries for Sustainable Development’** 5-6th September, 2018 at NIT Agartala.

107. **Invited Lecture “Fluidization” in the Workshop on Industry-Academia Interaction to meet the challenges in Process Industries for Sustainable Development, 5-6th September, 2018 at NIT Agartala.**
108. **Invited Lecture “Process Intensification” in the Workshop on Industry-Academia Interaction to meet the challenges in Process Industries for Sustainable Development, 5-6th September, 2018 at NIT Agartala.**
109. **Invited Lecture “Bioactive glass ceramics - the wonder biomaterial” in the 106th Indian Science Congress, Engineering Section, 3-7th Jan. 2019, at Lovely Professional University, Jalandhar**
110. **Invited Lecture “Multiphase non-Newtonian pseudoplastic liquid systems” in the Research Conclave 2019, IIT Guwahati, 14 – 17 March 2019 at IIT Guwahati**

Reviewer of the following Journals:-

- 1) **The Canadian Journal of Chemical Engineering**
- 2) **Industrial Engineering and Chemistry Research**
- 3) **Chemical Engineering communications**
- 4) **International Journal of Chemical Reactor Engineering**
- 5) **Chemical Engineering Science**
- 6) **Chemical Engineering Journal**
- 7) **Chemical Engineering and Processing: Process Intensification**
- 8) **Indian Chemical Engineers**
- 9) **Journal of the Indian Chemical Society**
- 10) **Journal of Petroleum Science and engineering**
- 11) **Journal of Hazardous Materials**
- 12) **Bioresource Technology**
- 13) **Brazilian Journal of Chemical Engineering**
- 14) **Applied Surface Science**
- 15) **Powder Technology**
- 16) **Environmental Progress**
- 17) **Journal of the Chinese Institute of Chemical Engineers**
- 18) **Desalination**
- 19) **Chemical Engineering Research and Design**
- 20) **Journal of Loss Prevention in the Process Industries**
- 21) **Colloids and Surfaces A : Physicochemical and Engineering Aspects**
- 22) **Journal of Environmental Management**
- 23) **Journal of Engineering and Technology Research**
- 24) **Chemical Industry and Chemical Engineering Quarterly**
- 25) **Water Science and Technology**
- 26) **Separation Science and Technology**
- 27) **Journal of Multiphase Flow**
- 28) **Colloids and Surfaces B: Biointerfaces**
- 29) **Journal of the Taiwan Institute of Chemical Engineers**
- 30) **Particuology**

- 31) **International Journal of Heat and Fluid Flow**
- 32) **Journal of Colloid and Interface Science**
- 33) **Clean-Soil, Air, Water**
- 34) **International Journal of Workspace Health Management**
- 35) **AIChE J**
- 36) **Polish Journal of Environmental Studies**
- 37) **Turkish Journal of Chemistry**
- 38) **African Journal Pure and Applied Chemistry**
- 39) **Environmental Science and Pollution Research**
- 40) **African Journal of Biotechnology**
- 41) **Internal Journal of Thermal Sciences**
- 42) **Environmental Engineering and Management Journal**
- 43) **International Journal of Biological Macromolecules**
- 44) **African Journal of Agricultural Research**
- 45) **Recent Patents on Chemical Engineering**
- 46) **American Chemical Science Journal**
- 47) **International Journal of Environmental Science and Technology**
- 48) **The Korean Journal of Chemical Engineering**
- 49) **Materials Research Bulletin**
- 50) **Scientific Research and Essays**
- 51) **Indian Journal of Chemical Technology**
- 52) **Processing and Application of Ceramics**
- 53) **International Journal of Environmental Science and Technology**
- 54) **Desalination and Water Treatment**
- 55) **International Research Journal of Pure and applied Chemistry**
- 56) **International Journal of Physical Science**
- 57) **Chemical Papers**
- 58) **Fresenius Research Bulletin**
- 59) **International Journal of Industrial Chemistry**
- 60) **Journal of Engineering and Technology Research**
- 61) **Research on Chemical Intermediates**
- 62) **Langmuir**
- 63) **Polish Journal of Chemical Technology**
- 64) **Journal of Chemical & Engineering Data**
- 65) **Polish Journal of Chemical Technology**
- 66) **Bioresources**
- 67) **Annual Review & Research in Biology**
- 68) **Research on Chemical Intermediates**
- 69) **Journal of Pure and Applied Chemistry**
- 70) **Journal of Mechanical Engineering Science**
- 71) **Journal of Environmental Chemical Engineering**
- 72) **BioMed Research International**
- 73) **Journal of Research & Developments in Chemistry**
- 74) **International Journal Environmental Protection**
- 75) **Fuel**
- 76) **Clean Technologies and Environmental Policy**

- 77) **Journal of Chemistry**
- 78) **Environmental Monitoring and Assessment**
- 79) **Bulgarian Chemical Communications**
- 80) **Environmental Engineering and Management Journal**
- 81) **International Journal of Water Resources and Environmental Engineering**
- 82) **Advances in Industrial Engineering and Management**
- 83) **American Journal of Analytical Chemistry**
- 84) **Journal of Molecular Liquids**
- 85) **Process Biotechnology**
- 86) **Journal of Environmental Chemistry and Ecotoxicology**
- 87) **Royal Society of Chemistry Advances**
- 88) **Membrane Water Treatment, *An International Journal***
- 89) **The Open Journal of Petroleum Engineering**
- 90) **Journal of Materials and Environmental Science**
- 91) **Hydrometallurgy**
- 92) **Journal of Polymers and the Environment**
- 93) **Chemosphere**
- 94) **The Open Fuel and Energy Science Journal**
- 95) **Journal of CO₂ Utilization**
- 96) **Acta Polytechnica**
- 97) **Metallurgical and Materials Engineering**
- 98) **Journal of Electrical and Electronics Engineering Research**
- 99) **Archives of Industrial Hygiene and Toxicology**
- 100) **Journal of Alloys and Compounds**
- 101) **Oriental Journal of Chemistry**
- 102) **Reviews in Chemical Engineering**
- 103) **Journal of Chemical Engineering and Materials Science**
- 104) **International Journal of Applied Ceramics Technology**
- 105) **Materials Science and Engineering B**
- 106) **First International Conference on Computational Intelligence, Communications, and Business Analytics (CICBA-2017)**
- 107) **Membrane Water Treatment, An International Journal**
- 108) **International Journal of Fluid Mechanics Research**
- 109) **Process Safety and Environmental Protection**
- 110) **SciFed Journal of Chemical Research**
- 111) **Environmental Technology**
- 112) **ACS Sustainable Chemistry & Engineering**
- 113) **Journal: Applied Thermal Engineering**
- 114) **International Journal of Phytoremediation**
- 115) **Orient Journal of Chemistry**
- 116) **Transactions of the Indian Ceramic Society**
- 117) **Latin American Applied Research**
- 118) **International Journal of Water and Wastewater Treatment**
- 119) **Journal of Dispersion Science and Technology**
- 120) **International Journal of Applied Ceramic Technology**
- 121) **Journal of Chemical Technology and Biotechnology**

- 122) **International Journal of Chemical Engineering**
- 123) **Inorganic and Nano-Metal Chemistry**
- 124) **Asia-Pacific Journal of Chemical Engineering**
- 125) **Energy and Fuel**

Research Experience

(a) Research Topics:

- i) Liquid (Newtonian and non-Newtonian) liquid flows through Piping Components
- ii) Gas-liquid (Newtonian and non-Newtonian) liquid flows through Pipeline and Piping Components
- iii) Single and Multiphase flow through Coils
- iv) Microbial desulfurization of Indian Coal
- v) Fluidization & Inverse Fluidization
- vi) Air Pollution – Removal of Carbon disulphide from Waste Gases
- vii) Waste Water Treatment – Removal of Volatile Matters
- viii) Waste Water Treatment – Removal of Heavy Metals
- ix) Waste Water Treatment – Removal of organic compounds
- x) Oil-Water separation
- xi) CFD
- xii) Process Plant Safety
- xiii) Application of Artificial Neural Network

(b) Place of Research :

- i) Chemical Engineering Department, Indian Institute of Technology, Kharagpur, 1984 - 1988
- ii) Chemical Engineering Department, P. V. P. Institute of Technology, Budhgaon, Maharashtra, 1989 - 1991
- iii) Chemical Engineering Department, University of Calcutta, 19091 – till date
- iv) Chemical Engineering Department, Indian Institute of Technology, Kharagpur (As a **INSA Visiting Research Fellow**), 1999-2000

(c) Number of Years

- i) 4 years and 6 months as Research Scholar in IIT Kharagpur
- ii) 2 years and 6 months at P. V. P. Institute of Technology, Budhgaon
- iii) 23 years at University of Calcutta
- iv) 3 month at IIT Kharagpur as a INSA Visiting Research Fellow

List of Research/Development/Industrial experience:-

1. UPE II Project : Synthesis and Characterization of Bio-active glass-ceramics using nano materials, 1st year Rs. 22.50 lakhs, ongoing, 2017.

2. DST, Govt. of West Bengal, Adsorptive removal of heavy metals from wastewater using low cost-adsorbents – A fixed-bed continuous column studies, Rs.11,58,700/-, completed ongoing 2017.
3. TEQIP Phase II Research Project, Fluidization using non-Newtonian liquids, Rs. 1=00 lakhs, Completed 2016.
4. Center for Research in Nano Science & Nano Technology (CRNN), University of Calcutta, Development of Glass-Ceramics using nano materials, Rs. 2.00 Lakhs, Completed 2014.
5. DST, Govt. of India, Continuous column operation for the removal of Pb(II) from industrial waste water, Rs. 18.205 Lakhs, completed 2013.
6. AICTE MODROB – Heat Transfer Laboratory, Rs. 12.00 Lakhs, Completed 2012.
7. AICTE R & D Project - Adsorption of Cr(VI), Pb(II) and Cu(II) from wastewater using low cost bio adsorbent, Rs. 6.93 Lakhs, Completed 2012.
8. UPE Project : Development of novel machinable glass ceramics – UPE Project, 19 Lakhs, 2008 ongoing 2008
9. UGC Major Project : Studies on two-phase gas-liquid (Newtonian and non-Newtonian) flow through piping components, coils and flow phenomena using CFD technique, Amount Rs. 8.6 lakhs, Completed 2011.
10. UGC Major Project : Studies on two-phase gas-non-Newtonian liquid flow through helical coils and flow phenomena using CFD technique, Amount Rs. 8.5 lakhs, Completed 2006.
11. AICTE R & D Project : Microbial Desulfurization of Indian Coal, Amount Rs. 5.00 lakhs, completed 2001.
12. MHRD Modernization of Laboratory : Heat Transfer Laboratory, Amount Rs. 8.00 lakhs, completed, 1998.
13. Institute grant for the development of Fluid Flow and Heat Transfer Laboratory, Amount Rs. 1.50 lakhs, completed 1990.
14. Number of consulting projects on Calibration of equipments, Environmental aspects, Plant Safety etc.

Experience as a PhD Supervisor

Ph. D. Degree awarded : 16

Ph. D. synopsis submitted : 04

1. Tapan Kumar Bandyopadhyay : **Studies on non-Newtonian and gas-non-Newtonian liquid flow through horizontal tube and piping components, C. U., 2002**
2. Sailendra Nath Mandal : **Studies on gas-liquid flow through curved geometries, C. U., 2002.**
3. Asit Baran Biswas : **Some studies on gas-non-Newtonian liquid flow through coils, C. U. 2007.**
4. Ranjit Kumar Gangopadhyay : **Studies of some accidents in chemical industries – lessons learnt (Jointly with Prof. M. Mukherjee, BIT, Mesra), 2008.**

5. Ashim Kumar Bhattacharya : **Studies on the removal of heavy metals from waste water using clarified sludge from basic oxygen furnace of steel industry, C. U. 2008.**
6. Tarun Kumar Naiya : **Some studies on the removal of heavy metals using natural and chemical adsorbents, C. U., 2010**
7. Bimal Das : **Studies on inverse fluidization using non-Newtonian fluids, C. U. 2011.**
8. Tarun Kanti Bandyopadhyay : **Studies on liquid and gas-liquid flow through piping components and coils using CFD technique, C.U. 2011.**
9. Gargi Bhattacharjee - **Some studies on the effects of human factors in industrial accidents (Jointly with Dr. S. Neogi) C. U., 2013.**
10. Biswajit Singha : **Some studies on the removal of Cr(VI), Pb(II) and Cu(II) from waste water using low cost bio adsorbents, C.U., 2014.**
11. Amrita Gupta – **Studies on the microbial production of L. Lysine (Jointly with Prof. A. K. Banik), C.U. 2014**
12. Sumit Jana – **Studies on the taper bubble column (Jointly with Dr. A. B. Biswas) – C.U. 2015.**
13. Debasis Pradip Mukherjee – **Some studies on the development of novel machinable glass ceramics, C. U. 2015**
14. Nijhar Bar – **Application of Neural networks for the prediction of hydrodynamic parameters in liquid and gas-liquid flow through pipelines (Jointly with Prof. M. N. Biswas, WBUT) 2016.**
15. Sirshendu Guha - **Some Studies on the Inherent Resilience for a Gas Sweetening Unit – C. U. , 2017.**
16. Sama Nag – **Studies on removal of Cr(VI) and Cd(II) from wastewater using locally available natural/bio-adsorbents (NIT Agartala, jointly with U. Mishra) NIT, Agartala, 2017.**

Synopsis (5000 words) submitted

1. Shreyashi Sarkar – Studies on the removal of Cr(VI) and Cu(II) from aqueous solution by continuous column operation.
2. Mummum Banerjee - Some studies on the removal of heavy metals, Cr(VI) and Cu(II) from its aqueous solution using low cost bio-adsorbents in a fixed bed adsorption column (Jointly with R K Basu)

3. Samit Bikas Maiti – Some studies on the fluidization using non-Newtonian liquids.
4. Tania Mitra - Some studies on the removal of heavy metal ions from wastewater using natural/agricultural adsorbents in continuous mode.

Ph. D. On-going : 14

1. Basudev Basak – Some studies on the inverse fluidization using Newtonian liquids.
2. Ashandu Mandal – Some studies on the adsorptive removal of phenol and phenolic compounds from wastewater (Jointly with P. Mukherjee).
3. Rajeep Ghosh - Some studies on the removal of organics and heavy metals from aqueous solution using natural adsorbents.
4. Abhishek Das - Some studies on bioadsorption of Cr(VI) and Pb(II) from aqueous solution
5. Sukanta Daw - Polyvinyl alcohol composite films with different particles - synthesis, characterization and application (Jointly with R. K Basu)
6. Susanta Roy - Some Studies on Reclamations of used Lubricating Oil (NIT Durgapur, jointly with T. Kumar, B. Das)
7. Jayeeta Banerjee - Studies on biosorption of Ni(II) from aqueous solution using microorganism (Jointly with R. K. Basu and A K Banik)
8. Tamal Kanti Ghosh – Some studies on the development of bio-active glass ceramics
9. Sudipto Let – Some studies on solid-liquid fluidization and modelling (jointly with R. K. Basu)
10. Basab Brata Dey – Studies on biosorption of copper from aqueous solutions by copper resistant yeast (Jointly with R. K. Basu and A. K. Banik)
11. Anjan Bhattacharyya – Some studies on industrial accident in refineries (Jointly with R. K. Basu)
12. Samanwita Bhattacharya – enroled for Ph.D. (Jointly with B. Rajbanshi)
13. Sujan Chakraborty – enroled for Ph. D.
14. Ram Chandra Dutta – enroled for Ph. D. (with B. Rajbanshi)
15. Indrajit Ghosh – enroled for Ph.D.

Experience as a M. Tech Supervisor

M. Tech. Project Supervised: 31

1. Studies on two-phase gas-Newtonian liquid flow in horizontal tube and bends – Soma Nandi, 1988.
2. Studies on pressure drop for two phase air-water flow through horizontal tubes – Amaresh Sinha, 1991.
3. Studies on non-Newtonian liquid flow through globe and gate valve – Tapan Kumar Banerjee, 1992.
4. Studies on liquid-liquid equilibria of phenol-n-hydrocarbon systems – Swapan Kumar Paruya, 1994.
5. Studies on two-phase flow through horizontal tube, gate and globe valve – Amal Pal, 1996.
6. Studies on the Flow of Liquid through Helical Coils – Sailendra Nath Mandal, 1996.
7. Studies on fluidization with non-Newtonian fluid – Bhaskar Dutta, 1997.
8. Studies on gas-non-Newtonian liquid flow through elbows – Tarun Kanti Bandyopadhyay, 1997.
9. Studies on two-phase flow through helical coils – Somnath Sarkar, 1997.
10. Studies on two-phase pressure drop for air-non-Newtonian liquid flow through helical coils – Sharmistha Mukherjee, 1998.
11. Studies on fluidization with non-Newtonian fluid using mixed size particle – Biswajit Sarkar, 1998.
12. Studies on holdup for gas-non-Newtonian liquid flow through horizontal helical coils – Aist Baran Biswas, 2001.
13. Removal of ammonia from waste water in tapered bubble column – Basudev Basak, 2002.
14. Studies on the hydrodynamics of tapered bubble column – Partha Sarathi Mandal, 2002.
15. Studies on hydrodynamics of tapered bubble column – Sujit Sen, 2003.
16. Studies on two-phase Inverse fluidization – Bimal Das, 2004.
17. Air-Water flow through small diameter tubes – Narayan Chandra Dhaurya, 2004.

18. Removal of Zinc from wastewater using natural and synthetic adsorbents – Pankaj Chowdhury, 2004.
19. Studies on the hydrodynamic characteristics in tapered bubble column – Sumit Kumar Jana, 2006.
20. Studies on single-phase laminar flow through horizontal pipelines and elbows by CFD technique – Debojyoti Chakraborty, 2006.
21. Some studies on the hydrodynamics of taper bubble column - Jaydeep Bhandari, 2008.
22. Some studies of adsorptive removal of dyes, A Giri, 2009.
23. Hydrodynamic studies on two-phase inverse fluidization – S. Maity, 2010.
24. Heavy metal (Lead) removal from wastewater using fixed-bed continuous column process – Tania Mitra, 2012
25. Some studies on fluidization using non-Newtonian liquids – Gulam Nabi, 2013
26. Adsorptive removal of methylene blue dye from aqueous solution using guava leave powder – Sudipta Let, 2014
27. Preparation and characterization of sericin hydrogels - Ujjal Das, 2015
28. Synthesis of nano silica from rice husk and its application in glass-ceramic in $\text{SiO}_2\text{-Al}_2\text{O}_3\text{-CaCO}_3\text{-P}_2\text{O}_5\text{-CaF}_2\text{-ZrO}_2$ glass system – Soumyadeep Charan, 2016
29. Extraction of nano-silica from rice husk and its application in preparing bio-active glass ceramics – Poulomi Sarkar, 2016
30. Fluidization using non-Newtonian liquids – Shubhabrata Chowdhury, 2016
31. Bio-active glass ceramics synthesis - Biswadeep Pal, 2017
32. Synthesis of Bioactive glass-ceramics - Sayantan Naha, 2018

M. Tech. Project ongoing: 5

Experience as a B. Tech Supervisor

Supervised more than 150 B. Tech. Experimental Projects on various topics like, Multiphase gas-liquid and liquid-liquid flow through different types geometries and systems, Hydrodynamics of fluidized and inverse fluidized bed, liquid-liquid inversion phenomena, Waste Water treatment, Filtration, Microbial desulfurisation of coal, Food drying, Application of Artificial Neural Network in Multiphase Flow etc.

Ph.D. thesis examiner

- i. Osmania University
- ii. Andhra University
- iii. Indian Institute of Technology, Guwahati
- iv. Indian School of Mines, Dhanbad
- v. National Institute of Technology, Rourkela
- vi. Punjab University
- vii. Jadavpur University
- viii. National Institute of Technology, Durgapur

Administrative/Professional Experience: (Stated briefly the nature of work with no. of years)

Position held in Professional bodies :

1. **Hony. Joint Secretary**, Indian Institute of Chemical Engineers, Calcutta Regional Centre, 1992-1993.
2. **Hony. Secretary**, Indian Institute of Chemical Engineers, Calcutta Regional Centre, 1993-1994 (**Best Regional Centre Awarded in Category A**).
3. **Hony. Treasure**, Indian Institute of Chemical Engineers, Calcutta Regional Centre, 1995-1996.
4. **Hony. Secretary**, Indian Institute of Chemical Engineers, Calcutta Regional Centre, 1997-1998 (**Best Regional Centre Awarded in Category A**).
5. **Hony. Secretary**, Indian Institute of Chemical Engineers, Calcutta Regional Centre, 1998-1999.
6. **Hony. Secretary**, Indian Institute of Chemical Engineers, Calcutta Regional Centre, 1999-2000.
7. **Hony. Secretary**, Indian Institute of Chemical Engineers, Calcutta Regional Centre, 2000-2001.
8. **Hony. General Secretary**, Reunion Committee, Department of Chemical Engineering, Calcutta University, 1997-2000.
9. **Course Co-ordinator** – Workshop on Technology Management Thrust on development of Indigenous Technology and its Management, March, 1994, Calcutta.
10. **Course Co-ordinator** - Refresher course on Computer Applications in Chemical Process Industries Part I : Design and Simulation, June, 1994, Calcutta.
11. **Convener** - Regional Seminar on Housing with Alternative Materials, May, 1994, Calcutta.
12. **Convener** – National Seminar on Technology Development, Intellectual Property Rights vis-à-vis Dunkel Text, June, 1994 Calcutta.
13. **Convener** – National Seminar on Prospect of Petrochemical Industries based on Product Available from Haldia Petrochemicals, August, 1998, Calcutta.
14. **Course Director** – Workshop on Chemical Engineering Part – I, August, 1998 Calcutta.
15. **Course Director** – Workshop on Chemical Engineering Part – II, January, 1999 Calcutta.
16. **Course Director** – Workshop on Environmental and Safety Aspects for Plant Personnel, May, 1999, Calcutta.
17. **Convener** – Zonal Seminar on Status of Chemical Engineering Research in Eastern India, Sept., 1999.

18. **Convenor** – Technical Committee CHEMCON 2000, Dec. 2000.
19. **Teacher-In-Charge** – Student Chapter, Calcutta University, Calcutta Regional Centre, IChE.
20. **Convenor** – Workshop Committee on Furnace Design and Fuel Economy, Aug. 2002.
21. **Convenor** – Workshop Committee on Principles and Application of Adsorption, Dec. 2002.
22. **Convenor** – National Seminar on Leather Industry in Today's Perspective, November, 2003.
23. **Hony. General Secretary** – Reunion Committee, Department of Chemical Engineering, Calcutta University, 2003-2006.
24. **Council Member** – Indian Institute of Chemical Engineers, 2004-2007
25. **Hony. Treasurer** – Indian Institute of Chemical Engineers, 2005.
26. **Hony. Secretary** - Indian Institute of Chemical Engineers, 2006 - 2007
27. **Member** – Board of Studies, Leather Technology, WBUTE, 2006, 2007, 2008
28. **Member of the Refrigeration and Air Conditioning Sectional Committee, ME 03, Bureau of Indian Standard 2007 to till date.**
29. **Member Advisory Committee of the National Conference on Recent Trends in Engineering & Education, RTEE-2010**, to be held Jan. 28-29, 2010.
30. **Head**, Department of Chemical Engineering, University of Calcutta, 2010 to 2012
31. **Course Co-ordinator** – Workshop on Process Intensification, 29th Aug. 2011, Kolkata
32. **Council Member** – Indian Institute of Chemical Engineers, 2012-2015
33. **Hony. Treasurer** – Indian Institute of Chemical Engineers, 2012-2013
34. **Hony. General Secretary** – Reunion Committee, Department of Chemical Engineering, Calcutta University, 2012-2015.
35. **Chairman Calcutta Regional Centre, Indian Institute of Chemical Engineers, 2012-2014.**
36. **Member Organising Committee, Archarya Prafulla handra Ray Memorial Symposium on Chemistry & Industry (2012), August 02-03, 2012, Kolkata.**
37. **Course Coordination, Workshop on Process Safety Management, Jointly organized by Calcutta Regional Centre, IChE and Petroleum, Explosive Safety Organization, PESO, Govt. of India, 28-29 Sept. 2012, Kolkata.**
38. **Council Member, Indian Chemical Society, 2013-2016.**
39. **Course Coordinator, Special Summer School on Science & Technology : Biomedical, Engineering and Environmental Issues, 12th June – 2nd July, 2014, Acedamic Staff College, University of Calcutta.**
40. **Member National Organising Committee, International Conference on Chemical Engineering and advanced Polymeric Materials, IUCEAPM 2016, 18-21 Aug., 2016, BIT, Mesra.**
41. **Hony. Treasure, Indian Chemical Society, 2017-2019.**

Position held in the department/University:-

1. Incharge of Examination 1993 – 1998
2. Incharge of Placement 1994 – 1995
3. Incharge of Plant Visit 1995 – 1998
4. Incharge of Plant training 2001 – 2003
5. Incharge of IChE Student Chapter from 2002 – 2004

6. Member Board of Studies for Textile Technology
7. Member Board of Studies for Leather Technology 2005 – 2008
8. Head, Chemical Engineering Department, University of Calcutta, 2010-2012
9. Senate Member, University of Calcutta, upto May 2012
10. Senate Member, University of Calcutta, at present
11. Member Faculty Council for Engineering & Technology, University of Calcutta

List of publications

1. Number of book published : **1**
2. Number of chapter published in books: **9 Chapters**
3. Number of Research Papers published/accepted in International Journals/Proceedings with ISBN or ISSN number : **179**
4. Number of Research Papers presented and published in International conference / National / Workshop proceedings : **49**
5. Number of Research Papers presented for presentation in National / International Conference : **262**
6. Number of Research Papers communicated for publication in International Journal : **8**

Publication in Books/Chapters :

Sl. No.	Title	Author(s)	Name of the book, publishers name & year	Page Nos.
1	Hydrodynamics of Gas-non-Newtonian Liquid Flow and ANN Predictability	Nirjhar Bar & Sudip Kumar Das	LAP LAMBERT Academic Publishing, 2013 ISBN-13 : 979-3-659-40779-6 ISBN-10: 3659407798	1-72
2	Water flow through helical coils in turbulent conditions	S. K. Das	Ch. 13 , Multiphase Reactor and Polymerization system Hydrodynamics, Adv. In Engg. Fluid Mech. Ser., Ed. N. P. Chermisinoff, Golf Publishing Co., 1996 ISBN 0-88415-497-1	379-403
3	Non-Newtonian liquid flow through globe and gate valves	S. K. Das	Ch. 17 , Multiphase Reactor and Polymerization system Hydrodynamics, Adv. In Engg. Fluid Mech. Ser., Ed. N. P. Chermisinoff, Golf Publishing Co., 1996 ISBN 0-88415-497-1	487- 505
4	Fire during transfer of LPG from the road tanker to Horton sphere – rupture of the	R. K. Gangopadhyay and S. K. Das	Ch. 6 Fire Safety Eds. I. Sogaard and H. Krogh Nova Science Publishers, Inc.,	113 – 120

	hose attached to the manifold		2009 ISBN 978-1-60741-490-2	
5	Fire accident at a refinery in India : The causes and the lesson learnt	R. K. Gangopadhyay and S. K. Das	Ch. 7 Fire Safety Eds. I. Sogaard and H. Krogh Nova Science Publishers, Inc., 2009 ISBN 978-1-60741-490-2	121 – 126
6	Flow regime prediction using artificial neural networks for air-water flow through 1-5 mm tubes in horizontal plane	Nirjhar Bar, Manindra Nath Biswas and Sudip Kumar Das	Information System Design and Intelligent Applications Series : Advances in Intelligent Systems and Computing, 339 Eds. J.K. Mandal, S.C.Satapathy, M.K.Sanyal, P.P.Sarkar, A.Mukhopadhyay (Springer) 2015 DOI:10.1007/978-81-322-2250-7_82	823-830
7	Applicability of ANN in adsorptive removal of Cd(II) from aqueous solution	Nirjhar Bar and Sudip Kumar Das	Handbook of Research on Natural Computing for Optimization, Vol. II Eds. J. Kumar, Mandal, S. Mukhopadhyay, T. Pal Information Science Reference (an imprint of IGI Global), 2016 ISBN 9781522500582 (hardcover) ISBN 9781522500599 (ebook)	554-592
8	Removal of chromium (VI) from aqueous solution using peanut shell as a bio-adsorbent in a continuous fixed bed adsorption column	Munmum Laha and Sudip Kumar Das	Environmental Impacts on Health: Towards a better future, Eds. S. Biswas, M. K. Mitra, R. Bar, Readers Service Publishers, 2015 ISBN 978-93-82623-51-7	254-267
9	Column studies on removal of Cr(VI) by rice husk ash	Shreyashi Sarkar and Sudip Kumar Das	Environmental Impacts on Health: Towards a better future, Eds. S. Biswas, M. K. Mitra, R. Bar, Readers Service Publishers, 2015 ISBN 978-93-82623-51-7	267-279

10	Removal of Cr(VI) ions from aqueous solution using blackberry leaves in continuous column mode	Tania Mitra and Sudip Kumar Das	Environmental Impacts on Health: Towards a better future, Ed. S. Biswas, M. K. Mitra, R. Bar, Readers Service Publishers, 2015 ISBN 978-93-82623-51-7	280-297
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Publication in International Journals/accepted in Journals/Proceedings with ISBN or ISSN number

Sl. No.	Title of Paper	Author(s)	Name & Vol. Of Journal & Year	Page No.
1	Frictional pressure drop for flow of water in U-bends at high Dean number	S. Nandi & S. K. Das	Ind. J. Technol., 27 , 1989	181–184
2	Pressure losses in two-phase gas-non-Newtonian liquid flow in horizontal tube	S. K. Das , M. N. Biswas & A. K. Mitra	J. Pipelines, 7 , 1989	307–325
3	Pressure drop in U-bends for air-water flow	S. K. Subbu, S. K. Das , M. N. Biswas & A. K. Mitra	Int. J. Engg. Fluid Mech., 3 , 1990	239–248
4	Friction factor for small diameter transparent PVC pipes	R. Venkatesan S. K. Das & M. N. Biswas	Ind. J. Technol., 28 , 1990	549–553
5	Non-Newtonian liquid flow in bends	S. K. Das , M. N. Biswas & A. K. Mitra	The Chem. Engg., J. 45 , 1991	165–171
6	Hydrodynamics of developing two-phase upflow in a convergent-divergent column	S. Chandraker, S. K. Das & M. N. Biswas	Ind. J. Technol., 29 , 1991	145–148
7	Friction factor for gas-non-Newtonian liquid flow in horizontal bends	S. K. Das , M. N. Biswas & A. K. Mitra	Can. J. Chem. Engg., 69 , 1991	179–188
8	Holdup for two-phase flow gas-non-Newtonian liquid mixtures in horizontal and vertical pipes	S. K. Das , M. N. Biswas & A. K. Mitra	Can. J. Chem. Engg., 70 , 1992	431–437
9	Pressure losses in two-phase air-water flow in	N. Gadiyar & S. K. Das	Ind. J. Technol., 31 , 1993	811–814

	orifices			
10	Water flow through helical coils in turbulent condition	S. K. Das	Can. J. Chem. Engg., 71 , 1993	971–973
11	Non-Newtonian liquid flow through globe and gate valves	T. K. Banerjee, M. Das & S. K. Das	Can. J. Chem. Engg., 72 , 1994	207–211
12	Pressure losses in two-phase gas-non-Newtonian liquid flow in a vertical tube	S. K. Das & M. N. Biswas	Chem. Engg. Comm., 135(1) , 1995	229–237
13	Air-water two-phase flow through vertical 90° pipe bend	S. K. Das & A. K. Mitra	Ind. Chem. Engr., 39 , 1997	232–235
14	Pressure losses in air-water flow through horizontal tubes	A. Sinha, T. Ghosh, M. Das & S. K. Das	Ind. Chem. Engr. 40 , 1998	41–45
15	Gas-non-Newtonian liquid flow through globe and gate valves	T. K. Banerjee, & S. K. Das	Chem. Engg. Comm., 167 , 1998	133–146
16	Gas-Newtonian liquid flow through horizontal tube	S. N. Mandal & S. K. Das	Ind. Chem. Engr., 40 , 1998	241–248
17	Stimulatory effect of chemical nutrients on desulfurization of Indian coal by thiobacillus ferrooxidans	Dolan Sengupta, S. K. Das & A. K. Banik	Bull. Cat. Soc. Ind., 9 , 1999	172–177
18	Development of a mutant strain of thiobacillus ferrooxidans and optimisation of some physical parameters for desulfurization of Indian coal	Dolan Sengupta, S. K. Das & A. K. Banik	J. Surface Sci. & Technol., 15(1-2) , 1999	30–40
19	Pressure losses in orifices for the flow of gas-non-Newtonian liquid	A. K. Samanta, T. K. Banerjee & S. K. Das	Can. J. Chem. Engg., 77 , 1999	579–583
20	Pressure losses in two-phase gas-liquid flow in U-bends	S. N. Mandal & S. K. Das	Ind. Chem. Engr., 42 , 2000	22–25
21	Gas-non-Newtonian	T.K.Bandyopadh	Chem. Engg.	21–33

	liquid flow through elbows	yay,T.K.Banerjee & S. K. Das	Comm., 182 , 2000	
22	Pressure drop non-Newtonian liquid flow through elbows	T. K. Banerjee & S. K. Das	Chinese J. Chem. Engg., 8(4) , 2000	388–390
23	Mass transfer prediction in spray column for absorption of carbon disulphide	S. Mukherjee, S. K. Das & M. N. Biswas	J. Energy, Heat & Mass Transfer, 22 , 2000	7–15
24	Two-Phase flow through helical coils	S.N.Mondal & S. K. Das	Proc. Petroleum Refining and Petrochemical based Industries in Eastern India, Kharagpur, 2000, Allied Publisher Ltd., ISBN: 81-7764-63-1	132–138
25	Absorption of carbon disulfide in alkaline solution – equipment selection	S. K. Das , S. Mukherjee & M. N. Biswas	Proc. 3 rd Asia Pacific Conf. On. Sustainable Energy and Environmental Technologies, Dec. 3-6, 2000 at Hong Kong, ISBN:981-02-549-1	454–459
26	Absorption of carbon disulphide in alkaline solution	S. Mukherjee, S. K. Das & M. N. Biswas	J. Energy, Heat & Mass Transfer, 22 , 2000	109–119
27	Pressure Losses in bends during two-phase gas-Newtonian liquid flow through bends	S. N. Mandal & S. K. Das	Ind. Engg. Chem. Res., 40(10) , 2001	2340–2351
28	An experimental investigation on the removal of ammonia from waste water in spray column	A. Banerjee, S. K. Das & M. N. Biswas	J. Energy Heat & Mass Transfer, 23 , 2001	153–185
29	Leakage of carbon disulfide and hydrogen sulfide in a carbon disulfide manufacturing unit – A case study	S. K. Das & R. K. Gangopadhyay	J. Energy Heat & Mass Transfer, 23 , 2001	205–211
30	Gas-Newtonian liquid	S. N. Mandal &	Can. J. Chem.	979–983

	flow through helical coils in horizontal orientation	S. K. Das	Engg., 80 , 2002	
31	Desulfurization of Indian coal by a mutant strain of Thiobacillus ferrooxidans X ₂₀₀ – role of metal ions and amino acids	Dolan Sengupta, S. K. Das , A. K. Banik	Proc. National Seminar on Mineral Biotechnology 2002, August, 2002, RRL, Bhubaneswar, 2002, ISBN:81-7764-349-5	107–112
32	Case study – chlorine leakage due to crack at the bottom of the baby chlorine cylinder	S. K. Das , V. N. Singh, M. Mukherjee and R. K. Gangopadhyay	Macro Review, 16(1) , 2003	448–451
33	Emission of sulphur oxides from the stack of DCDA unit – a case study	S. K. Das , M. Mukherjee and R. K. Gangopadhyay	Macro Review, 16(1) , 2003	452–456
34	Gas-Liquid flow through helical coils in vertical orientation	S. N. Mandal & S. K. Das	Ind. Engg. Chem. Res., 42 , 2003	3487–3494
35	Gas-liquid flow through coils	S. N. Mandal & S. K. Das	Korean J Chem. Engg., 20(4) , 2003	624–630
36	Separation of oil-water mixture in tanks	S. K. Das & M. N. Biswas	Chem. Engg. Comm., 190(1) , 2003	116–127
37	Gas-liquid flow through coils	A. B. Biswas, S. K. Das & S. N. Mandal	Proc. Int Conf. On Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	93–97
38	Improved Decolorization of reactive dye effluents using coagulant aids and polyelectrolyte	A. K. Bhattacharya, S. K. Das & S. N. Mandal	Proc. Int Conf. On Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	128–131
39	Bioaccumulation of chromium and cadmium commercially edible fishes of Odisha West Bengal	A. K. Bhattacharya, S. K. Das & S. N. Mandal	Proc. Int Conf. On Chemical Engineering 2003, December 29-30, 2003, Dhaka,	132–136

			Bangladesh	
40	An experimental investigation on the removal of ammonia from wastewater in tapered bubble column	P. S. Mandal, B. Basak & S. K. Das	Proc. Int Conf. On Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	166–170
41	Ammonia leakage from a refrigeration plant – case studies	R. K. Gangopadhyay, M. Mukherjee & S. K. Das	Proc. Int Conf. On Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	171–175
42	Studies on seasonal distribution of heavy metals in water and sediment phase with its bio-accumulation in upper stretch of odeling West Bengal	A. K. Bhattacharya, S. K. Das , S. N. Mandal & A. Mitra	Proc. Int Conf. On Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	176–180
43	Chromium removal from wastewater by adsorption techniques	Sukanta Kumar Naskar, Sailendra Nath Mandal & Sudip Kumar Das	J Indian Leather Technologist Association, LIV , 2004	833–838
44	Removal of zinc from wastewater	A.K.Bhattacharya, S.N. Mandal and S. K. Das	Res. J. Chem. Envir., 8(4) , 2004	77–79
45	Clarification of raw water using synthetic polymeric coagulant	A. K. Bhattacharyya, U. C. Kumar, S. N. Mandal & S. K. Das	J. Ins. Public Health Engineers, India, 2005(2) , 2005	33–35
46	Chlorine leakage from bonnet of a valve – a case study	R. K. Gangopadhyay, S. K. Das & M. Mukherjee	J. Loss Prevention in Process Industries, 18 , 2005	526–530
47	Carbon disulphide – Toxic chemical	S. K. Das	Indian Chem. Engrs. 47 , 2005	132–133
48	Acetone – toxic chemical	Biswarup Roy Chowdhury & Sudip Kumar Das	Indian Chem. Engrs., 47 , 2005	277–279
49	Removal of organic and inorganic load from wastewater by	Ashim Kumar Bhattacharya, Sailendra Nath	J. India Leather Technogogists Association,	65–69

	coagulation and flocculation technique	Mandal & Sudip Kumar Das	LV(1), 2005	
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165	Tapered Bubble Column using pseudoplastic non-Newtonian Liquids – Empirical correlation	Sumit Kumar Jana & Sudip Kumar Das	Chemistry & Chemical Technol., 11(3) 2017	327-332

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166	Comparative study of adsorptive removal of Cr(VI) ion from aqueous solution in fixed bed column by peanut shell and almond shell using empirical models and ANN	Munmun Banerjee and Sudip Kumar Das	Environ. Sci. Pollution Res., 24 2017 DOI: 10.1007/s11356-017-8582-8 I.F : 2.760	10604-10620
167	Accidental fire due to spray of pesticide in a household	Gargi Bhattecharjee, Susmita Neogi and Sudip Kumar Das	J. Indian Chem. Soc. 94 2017 I.F.:0.35	653-656
168	Bio-sorption of Chromium (VI) from aqueous solutions and ANN modeling	Soma Nag, Abhijit Mondal, Nirjhar Bar and Sudip Kumar Das	Environ. Sci. Pollution Res., 24(23) 2017 DOI: 10.1007/s11356-017-9325-6 I.F:2.760	18817 - 18835
169	Experimental investigation of photocatalytic and photovoltaic activity of titania/rice husk crystalline nano-silica hybrid composite	Poulomi Sarkar, Sk. Abdul Moyez, Argha Dey, Subhasis Roy, Sudip Kumar Das	Solar Energy Materials and Solar Cells 172 (2017) I.F.:4.784	93–98
170	Non-spherical solid-non-Newtonian liquid fluidization and ANN modelling : minimum fluidization velocity	Samit B Maiti, Sudipta Let, Nirjhar Bar, Sudip K Das	Chemical Engineering Science 176 (2018) I.F.:3.306	233-241
171	Removal of Cr(VI) from its aqueous solution using green adsorbent pistachio shell: A fixed bed column study and GA-ANN modelling	Munmun Banerjee, Nirjhar Bar, Ranjan Kumar Basu, Sudip Kumar Das	Water Conservation Science and Engineering 3 (2018) https://doi.org/10.1007/s41101-017-0039-x	19-31
172	Cr(VI) adsorption by a green adsorbent walnut shell : adsorption studies, regeneration	Munmun Banerjee, Ranjan Kumar Basu, Sudip Kumar	Process Safety and Environmental Protection 116 (2018)	693-702

	studies, scale-up design and economic feasibility	Das	I.F. 3441 DOI: 10.1016/j.psep.2018.03.037	
173	Sustainable bioremediation of Cd(II) from aqueous solution using natural waste materials: Kinetics, equilibrium, thermodynamics, toxicity studies and GA-ANN hybrid modelling	Soma Nag, Abhijit Mondal, Dijendra Nath Roy, Nirjhar Bar, Sudip Kumar Das	Environmental Technology & Innovation 11 (2018) DOI: 10.1016/j.eti.2018.04.009	83-104
174	Sustainable bioremediation of Cd(II) in fixed bed column using green adsorbents: Application of Kinetic models and GA-ANN technique	Soma Nag, Nirjhar Bar, Sudip Kumar Das	Environmental Technology & Innovation 13 (2018) DOI: 10.1016/j.eti.2018.11.007	130-145
175	Removal of phenol from aqueous solution using activated carbon from coconut coir	Ashanendu Mandal, Paramartha Mukhopadhyay, Sudip Kumar Das	IOSR Journal of Engineering 8(12) 2018	41-55
176	The study of adsorption efficiency of rice husk ash for removal of phenol from wastewater with low initial phenol concentration	Ashanendu Mandal, Paramartha Mukhopadhyay, Sudip Kumar Das	SN Applied Sciences 1(2) Article 192 2019	1-13
177	Synthesis and crystallisation kinetics study of nano-Al ₂ O ₃ containing bio-active glass-ceramics	Tamal Kanti Ghosha, Debasis pradipta Mukherjee, Uttam Kumar Ghorai, Sudip Kumar Das	Materials Today: Proceedings 11 (2019)	794–803
178	Cu(II) removal using green adsorbents: kinetic modeling and	Munmun Banerjee, Ranjan Kumar Basu, Sudip Kumar	Environmental Science and Pollution Research 26(12) (2019)	11542-11557

	plant scale-up design	Das	I.F:2.760 DOI : 10.1007/s11356- 018-1930-5	
179	Rice husk: green adsorbents for Pb(II) and Cr(VI) removal from aqueous solution – column study and GA-NN modeling	Tania Mitra, Nirjhar Bar and Sudip Kumar Das	SN Applied Sciences Doi:1.1007/s42452-019-0513-5	Online

3. Paper Presented & Published in International/National Seminar/Conference with/without ISBN/ISSN number etc.

Sl. No.	Title of Paper	Author(s)	Name of the Conference & Year	Page No
1	Two-phase co-current gas-non-Newtonian fluid vertical flow	S. K. Das , A. R. Das, M. N. Biswas & A. K. Mitra	15 th Nat. Conf. Fluid Mech. & Fluid Power, Srinagar, 1987	649-656
2	Flow of non-Newtonian fluids through bends	S. K. Das , M. N. Biswas & A. K. Mitra	Int. Sym. Hydraulic Transportation of Coal & other Minerals, Bhubaneswar, 1988	199-204
3	Processing behaviour of styrene-butadiene rubber-mica compounds	S. Debnath & S. K. Das	Nat. Sem. Elastomer Processing & Application, Calcutta, 1988	Paper no – V
4	Flow-behaviour & die-swell of mica-filled styrene-butadiene rubber compounds	S. Debnath & S. K. Das	16 th Nat. Conf. Fluid Mech. & Fluid Power, Kanpur, 1988	308-313
5	Air-water upflow in converging-diverging tube with improved gas-liquid mixing	S. K. Das	42 nd Annual Session of the IChE, 1, 1989	67-71
6	Frictional pressure drop for gas-non-Newtonian two-phase flow	S. N&i, S. K. Das , M. N. Biswas & A. K. Mitra	42 nd Annual Session of the IChE, 1, 1989	89-92
7	Case study of flash distillation by Newton – Raphson method	S. K. Das & S. V. Kolte	Nat. Sem. Computer Application in various fields, Amravati, 1990	1.3.1-1.3.6
8	Design of Heat	S. K. Das	Computer Application	11.1-

	Exchanger		in Chemical Process Industries Pt. – I Desing & Simulation, Calcutta, 1994	11.26
9	Air floatation in waste water treatment in pulp & paper industries	U. Roychaudhuri A. K. Banik & S. K. Das	Workshop on Technology Options for Pollution Abatement in Pulp & Paper Industry, Calcutta, 1996	25-33
10	Gas-liquid flow through bends	S. N. M&al & S. K. Das	IICHe Golden Jubilee Cong., New Delhi, 1, 1997	442-450
11	Flow measurement	S. K. Das & S. S. Pal	Workshop on Chemical Engineering for Plant Personnel, Pt. – I, Calcutta, 1998	2 – 20
12	Basic concept of Heat Transfer	S. K. Das	Workshop on Chemical Engineering for Plant Personnel, Pt. – I, Calcutta, 1998	26 – 35
13	Process Calculation part – I Material Balance	S. K. Das	Workshop on Chemical Engineering for Plant Personnel, Pt. – II, Calcutta, 1999	SKD1 – SKD14
14	Abatement of carbon disulfide pollution by absorption in spray column	S. K. Das & M. N. Biswas	Workshop on Environmental & Safety Aspects for Plant Personnel, Calcutta, 1999	15 - 21
15	Air-water flow through helical coils	S.Sarkar, S.N.M&al & S.K.Das	Proc. 8 th Asian Pacific Confederation of Chemical Engineering, Seoul, Korea, 1999	965-968
16	The goal for the new millennium – Pollution abatement through good house keeping & application of appropriate technology	S. K. Das & M. N. Biswas	Zonal Conf. On Status of Chemical Engineering Research in Eastern India, Calcutta, 1999	42-44
17	Two-Phase flow through helical coils	S.N.Mondal & S. K. Das	Proc. Petroleum Refining & Petrochemical based Industries in Eastern India, Kharagpur, 2000, Allied Publisher Ltd. ISBN:81-7764-063-1	132-138

18	Absorption of carbon disulfide in alkaline solution – equipment selection	S. K. Das, S. Mukherjee & M. N. Biswas	Proc. 3 rd Asia Pacific Conf. On. Sustainable Energy & Environmental Technologies, Dec. 3-6, 2000 at Hong Kong	454-459
19	Experimental studies on two phase encapsulation	D. Banik, S. K. Das , D. Mukherjee & M. N. Biswas	Proc. Indian Chemical Engineering Congress, 2000, Calcutta, 2000	1 , TP119-TP122
20	Experimental study of non-Newtonian fluid through fluidized bed	B. Sarkar, D. Dutta & S. K. Das	Proc. Indian Chemical Engineering Congress, 2000, Calcutta, 2000	1 , TP127-TP129
21	A simplified fuzzy logic controller for temperature control	Uttan Roychaudhuri, Sudip Kumar Das , Sushree Mukherjee, Monodip Dutta & Utpal Raychaudhuri	Proc. Indian Chemical Engineering Congress, 2000, Calcutta, 2000	1 , PIC21-PIC23
22	Desulfurization of Indian coal by a mutant strain of Thiobacillus ferrooxidans X ₂₀₀ – role of metal ions & amino acids	Dolan Sengupta, S. K. Das , A. K. Banik	Proc. National Seminar on Mineral Biotechnology 2002, August, 2002, RRL, Bhubaneswar, 2002	107 – 112
23	Case study – chlorine leakage due to crack at the bottom of the baby chlorine cylinder	S. K. Das , V. N. Singh, M. Mukherjee & R. K. Gangopadhyay	Proc. 4 th Asia Pacific Conf. Sustainable Energy & Environmental Technologies, May 8 – 10, 2003, Japan	448-451
24	Emission of sulphur oxides from the stack of DCDA unit – a case study	S. K. Das , M. Mukherjee & R. K. Gangopadhyay	Proc. 4 th Asia Pacific Conf. Sustainable Energy & Environmental Technologies, May 8 – 10, 2003, Japan	452-456

25	Chromium Removal from Wastewater by Adsorption Techniques	Sukanta Kumar Naskar, Sailendra Nath Mandal & Sudip Kumar Das	Proc. National Seminar on Leather Industry in Today's Perspective, Nov. 14-15, 2003, Kolkata, India	81 – 85
26	Removal of Organic & Inorganic Load from Wastewater By Coagulation & Flocculation Technique	Ashim Kumar Bhattacharya, Sailendra Nath Mandal & Sudip Kumar Das	Proc. National Seminar on Leather Industry in Today's Perspective, Nov. 14-15, 2003, Kolkata, India	106-108
27	Gas-liquid flow through coils	A. B. Biswas, S. K. Das & S. N. Mandal	Proc. Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	93-97
28	Improved Decolorization of reactive dye effluents using coagulant aids & polyelectrolyte	A. K Bhattacharya, S. K. Das & S. N. Mandal	Proc. Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	128-131
29	Bioaccumulation of chromium & cadmium commercially edible fishes of gangetic West Bengal	A. K Bhattacharya, S. K. Das & S. N. Mandal	Proc. Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	132-136
30	An experimental investigation on the removal of ammonia from wastewater in tapered bubble column	P. S. Mandal, B. Basak & S. K. Das	Proc. Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	166-170
31	Ammonia leakage from a refrigeration plant – case studies	R. K. Gangopadhyay, M. Mukherjee & S. K. Das	Proc. Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	171-175
32	Studies on seasonal distribution of heavy metals in water & sediment phase with its bio-accumulation in upper stretch of gangetic West Bengal	A. K Bhattacharya, S. K. Das , S. N. Mandal & A. Mitra	Proc. Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	176-180

33	Microbial De-sulpherization of Coal	S. K. Das, M. Das & A. K. Banik	All India Seminar on Carbonization of Coal, 14 Feb. 2004, Dankuni	5 - 8
34	Application of synthetic polymeric coagulant in water clarification	A. K. Bhattacharyya, S. N. Mandal & S. K. Das	Proc. Nat. Sem. Emerging Technology for Sustainable Environment in Chemical & Allied Industries, October 2-3, 2004, Rourkela	31-37
35	Hydrodynamics of Inverse Fluidization	Bimal Das & Sudip Kumar Das	Proc. Nat. Sem. Emerging Technology for Sustainable Environment in Chemical & Allied Industries, October 2-3, 2004, Rourkela	126-130
36	Removal of Chromium from wastewater using low cost adsorbent	Tarun Naiya, Suparna Mukherjee & Sudip Kumar Das	Proc. Nat. Sem. Emerging Technology for Sustainable Environment in Chemical & Allied Industries, October 2-3, 2004, Rourkela	203-207
37	Removal of Zn(II) from wastewater using Natural & Synthetic Adsorbents	Suparna Mukherjee, A. K. Bhattacharyya, S. N. Mandal & S. K. Das	Proc. Nat. Sem. Emerging Technology for Sustainable Environment in Chemical & Allied Industries, October 2-3, 2004, Rourkela	214-218
38	Removal studies of Cr(VI) using low cost non conventional adsorbents	A. K. Bhattacharyya, S. K. Das, T. K. Naiya & Suparna Mukherjee	Proc. Int. Conf. Environ. Management., Pollution & Control Technologies, Oct. 28-30, 2005, Hyderabad	284-292
39	Non-Newtonian & gas non-Newtonian liquid flow through small diameter elbows a piping Component - experiments & CFD analysis	T. K. Bandyopadhyay & S. K. Das	Proc. International Conference on Modeling & Simulation – CITICOMS – 2007	94 – 98

40	Adsorption of Cd(II) & Pb(II) onto clarified sludge - Kinetics, thermodynamics & desorption & application study	T. K. Naiya, S. N. Mandal, A. K. Bhattacharya & S. K. Das	Third GMSARN International Conference 2008 on 'Sustainable Development: Issues & Prospects for the Greater Mekong Subregion', 12-14 November 2008 at Kunming, China	1-10 In CD
41	Adsorptive removal of Cr(VI) from aqueous solution using abundantly available rice waste- kinetic, equilibrium & thermodynamic studies	B. Singha, T. K. Naiya, S. N. Mandal & S. K. Das	Third GMSARN International Conference 2008 on 'Sustainable Development: Issues & Prospects for the Greater Mekong Subregion', 12-14 November 2008 at Kunming, China	1-9 In CD
42	Phenol adsorption onto fly ash from aqueous solution - kinetic, equilibrium & thermodynamic studies	S. Ghosh, T. K. Naiya, A. K. Bhattacharya & S. K. Das	Proc. 2009 Int. Sym. Environ. Sci. & Technol., 2-5 June 2009, Shanghai, China, Published in Progress Environ. Sci. Technol., 2 Part B 2009	2034 - 2040
43	Adsorption of Zn(II), Cd(II) & Pb(II) onto Fly Ash	Tarun Kumar Naiya, Ashim Kumar Bhattacharya, Sailendranath M&al & Sudip Kumar Das	Proc. 2009 Int. Sym. Environ. Sci. & Technol., 2-5 June 2009, Shanghai, China, Published in Progress Environ. Sci. Technol., 2 Part B 2009	2041- 2051
44	Prediction of flow pattern in small diameter tubes using artificial neural network	Nirjhar Bar, Tapan Kumar Ghosh, Sudip Kumar Das & Manindra Nath Biswas	Proc. Int. Conf. Advances in Engineering & Technology, 27-28, May 2011, Nagapattinam, TN, ISBN 978-1-4507-6433-9	MECH0 01

45	Frictional pressure drop prediction using ANN for gas-non-Newtonian liquid flow through 45° bend	Nirjhar Bar, Sudip Kumar Das & Manindra Nath Biswas	Proc. Int. Conf. Advances in Engineering & Technology, 27-28, May 2011, Nagapattinam, TN, ISBN 978-1-4507-6433-9	MECH002
46	Gas Hold-up & Frictional Pressure Drop Prediction in Vertical Pipes for Gas Non-Newtonian Flow using ANN	Nirjhar Bar & Sudip Kumar Das	2 nd International Conference on Process Engineering & Advanced Materials (ICPEAM 2012), June 12 – 14 2012, Kuala Lumpur, Malaysia, ISBN:978-983-2271-81-9	PSE-105 1569583 035
47	Assessment of Resilience for System: Quantitative Resilience Analysis of a Pipe Segment System	Sisshendu Guha & Sudip Kumar Das	2 nd International Conference on Process Engineering & Advanced Materials (ICPEAM 2012), June 12 – 14 2012, Kuala Lumpur, Malaysia, ISBN:978-983-2271-81-9	PSE-125 1569582 875
48	Effects of CaF ₂ vis-a-vis TiO ₂ as nucleating agent in SiO ₂ -Al ₂ O ₃ -CaO glass-ceramics	Debasis Pradip Mukherjee, Tanmoy Datta, & Sudip Kumar Das	Int. Conf. Recent Trends Applied Physics & Material Science, RAM2013, Feb., 01-02 2013, Bikaner ISBN:978-93-80858-36-4	188
49	Glass-ceramics system using normal & nano silica - preparation & Characteristics	Debasis Pradip Mukherjee, Jayanta Kumar Sinha, & Sudip Kumar Das	Int. Conf. Recent Trends Applied Physics & Material Science, RAM2013, Feb., 01-02 2013, Bikaner ISBN:978-93-80858-36-4	192

4. Paper Presented in International/National Seminar/Conference etc.

Sl. No.	Title of Paper	Author(s)	Name of the Conference & Year	Status
1	Two-phase pressure drop through vertical 90° pipe bend	S. K. Das , S. K. Ghosal & A. K. Mitra	38 th Annual Session IChE, Calcutta, 1985	Presented
2	Holdup in gas-non-Newtonian two-phase horizontal flow	S. K. Das , M. N. Biswas & A. K. Mitra	39 th Annual Session IChE, Hyderabad, 1986	Presented
3	Pressure loss for gas-non-Newtonian two-phase flow in U-bend	S. K. Das , M. N. Biswas & A. K. Mitra	40 th Annual Session IChE, Sindri, 1987	Presented
4	Flow of water in U-bends	S. N&i, S. K. Das , M. N. Biswas & A. K. Mitra	41 th Annual Session IChE, Baroda, 1988	Presented
5	Two-phase air-water flow in U-bends	S. K. Subbu, S. K. Das , M. N. Biswas & A. K. Mitra	41 th Annual Session IChE, Baroda, 1988	Presented
6	Frictional pressure drop for gas-Newtonian two-phase flow	S. N&i, S. K. Das, M. N. Biswa & A. K. Mitra	42 nd Annual Session IChE, 1989	Presented
7	Air-water flow in orifices	N. Gadiyar, S. V. Kolte & S. K. Das	43 th Annual Session IChE, Varanasi, 1990	Presented
8	Bentonite slurry flow through horizontal pipeline	S. V. Kolte & S. K. Das	43 th Annual Session IChE, Varanasi, 1990	Presented
9	Flow of water through helical coils in turbulent region	M. T. Thomas, K. K. Singh & S. K. Das	44 th Annual Session IChE, Madras, 1991	Presented
10	Pressure losses in two-phase gas-Newtonian & gas-non-Newtonian liquid flow in U-bends	S. K. Das , M. N. Biswas & A. K. Mitra	44 th Annual Session IChE, Madras, 1991	Presented
11	Kinetics of water desorption during drying of food stuff	T. Dutta, S. K. Das , P. De & B. K. Dutta	44 th Annual Session IChE, Madras, 1991	Presented
12	Artificial neural networks in chemical engineering	G. Saha, S. K. Das & P. Ray	44 th Annual Session IChE, Madras, 1991	Presented

13	Non-Newtonian liquid flow through half inch gate & globe valves	S. K. Ghosh, S. K. Sau, S. P. Mukhopadhyay & S. K. Das	46h Annual Session IChE, Bombay, 1993	Presented
14	Pressure losses in air-water flow through horizontal tube	A. Sinha, M. Das & S. K. Das	47 th Annual Session IChE, Kharagpur, 1994	Presented
15	Liquid-liquid equilibrium for phenol-n-paraffin system	S. K. Paruya, S. Sen & S. K. Das	47 th Annual Session IChE, Kharagpur, 1994	Presented
16	Gas-non-Newtonian liquid flow through ½ inch gate & globe valves	S. Mukherjee, G. Mondal, T. K. Banerjee & S. K. Das	47 th Annual Session IChE, Kharagpur, 1994	Presented
17	Flow of water through ½ inch gate & globe valves	R. Mani. C. K. Das, K. Patra & S. K. Das	47 th Annual Session IChE, Kharagpur, 1994	Presented
18	An experimental study on phase inversion of liquid-liquid dispersion	P. Maity, K. Ganguly, S. K. Das & P. Ray	47 th Annual Session IChE, Kharagpur, 1994	Presented
19	Air water flow through gate & globe valves	A. Pal, T. K. Ghosh & S. K. Das	48 th Annual Session IChE, Kalpakkam, 1995	Presented
20	Gas-liquid flow in bends	S. K. Das & M. N. Biswas	48 th Annual Session IChE, Kalpakkam, 1995	Presented
21	Ejector venturi fume scrubbing	S. P. Mukherjee, A. Banerjee, M. N. Biswas & S. K. Das	48 th Annual Session IChE, Kalpakkam, 1995	Presented
22	Phase inversion in zero density difference liquid-liquid systems	K. Ganguly, S. K. Das & P. Ray	48 th Annual Session IChE, Kalpakkam, 1995	Presented
23	Two-phase flow through helical coils	S. N. M&al, S. K. Paurya & S. K. Das	49 th Annual Session IChE, Ankleshwar, 1996	Presented
24	Gas-non-Newtonian liquid flow through globe & gate valves	T. K. Banerjee & S. K. Das	49 th Annual Session IChE, Ankleshwar, 1996	Presented
25	Drag reduction in two-phase flow	S. K. Das & M. N. Biswas	49 th Annual Session IChE, Ankleshwar, 1996	Presented

26	Experimental investigations on phase inversion	P. N&i, K. Ganguly & S. K. Das	49 th Annual Session IChE, Ankleshwar, 1996	Presented
27	Development of a mutant strain Thiobacillus Ferrooxidans & optimisation of some physical parameters for desulfurization of Indian coal	D. Sengupta, S. K. Das & A. K. Banik	Int. Conf. Disperse Systems, Calcutta, 1998	Presented
28	Gas-non-Newtonian liquid flow through elbows	T. K. B&yopdhyay, T. K. Banerjee & S. K. Das	51 st Annual Session IChE, Visakhapatnam, 1998	Presented
29	Pressure drop for gas-non-Newtonian liquid flow through helical coil	S. Mukherjee, S. K. Paruya & S. K. Das	51 st Annual Session IChE, Visakhapatnam, 1998	Presented
30	Experimental study of non-Newtonian fluid through fluidised bed of mixed size particle	B. Sarkar, D. Dutta, M. Das & S. K. Das	51 st Annual Session IChE, Visakhapatnam, 1998	Presented
31	Pressure losses in air-water flow through helical coils	S. N. M&al & S. K. Das	51 st Annual Session IChE, Visakhapatnam, 1998	Presented
32	Gas-Liquid flow through helical coils	S. N. M&al & S. K. Das	52 nd Annual Session IChE, Ch&ighar, 1999	Presented
33	Two-phase flow through helical coils	S.N.M&al & S. K. Das	Conf. Pet. Ref. & Petrochem. Inds. In Eastern India, to be held on 1-2, July, 2000 at Kharagpur	Presented
34	Optimization of some physical & chemical parameters for desulfurization of Indian coal by Thiobacillus ferrooxidant	Dolan Sengupta, S. K. Das & A. K. Banik	3 rd Asia Pacific Conf. On. Sustainable Energy & Environmental Technologies, Dec. 3-6, 2000 at Hong Kong	Presented
35	Leakage of Carbon disulfide & hydrogen sulphide in a carbon disulfide manufacturing	S. K. Das & R. K. Gangopadhyay	3 rd Asia Pacific Conf. On. Sustainable Energy & Environmental	Presented

	unit – a case study		Technologies, Dec. 3-6, 2000 at Hong Kong	
36	Absorption of carbon disulfide in alkaline solution – equipment selection	S. K. Das, S. Mukherjee & M. N. Biswas	3 rd Asia Pacific Conf. On. Sustainable Energy & Environmental Technologies, Dec. 3-6, 2000 at Hong Kong	Presented
37	Experimental studies on two phase encapsulation	D. Banik, S. K. Das , D. Mukherjee & M. N. Biswas	53 rd Annual Session, IChE, CHEMCON 2000, Calcutta, Dec. 2000	Presented
38	Experimental study of non-Newtonian fluid through fluidized bed	B. Sarkar, D. Dutta & S. K. Das	53 rd Annual Session, IChE, CHEMCON 2000, Calcutta, Dec. 2000	Presented
39	A simplified fuzzy logic controller for temperature control	Uttan Roychaudhuri, Sudip Kumar Das , Sushree Mukherjee, Monodip Dutta & Utpal Raychaudhuri	53 rd Annual Session, IChE, CHEMCON 2000, Calcutta, Dec. 2000	Presented
40	Environmental Audit	Sudip Kumar Das	Environment Conference 2001 NTPC Farakka, April 2001	Presented
41	Removal of ammonia from waste water using spray column	S. K. Das & M. N. Biswas	All India Seminar on Chemical Engineering for Better Tomorrow, Rourkela, Nov. 2001	Presented
42	Gas liquid flow through helical coils	S. N. M&al, B. C. Das & S. K. Das	All India Seminar on Chemical Engineering for Better Tomorrow, Nov. 2001	Presented
43	Heat transfer in a convergent-divergent heat exchanger	S. K. Das	Indian Chemical Engineering Congress, 2001,	Presented

			Chennai, Dec. 2001	
44	Equipment selection for carbon disulphide absorption in alkaline solution	S. Mukherjee, S. K. Das & M. N. Biswas	54 th Annual Session, IChE, CHEMCON 2001, Chennai, Dec. 2001	Presented
45	Gas-non-Newtonian liquid flow through helical coils	Asit Baran Biswas & Sudip Kumar Das	54 th Annual Session, IChE, CHEMCON 2001, Chennai, Dec. 2001	Presented
46	Hazop studies	S. K. Das	Workshop on Industrial Safety at M/S Kesoram Rayan, 11 Jan. 2002	Presented
47	Fundamentals of Safety	S. K. Das	Workshop on Industrial Safety at M/S Hindustan Heavy Chemical Ltd, 25 Jan. 2002	Presented
48	Industrial Safety – fundamentals	S. K. Das	Workshop on Occupation Safety & Health, 19 April, 2002, Kolkata	Presented
49	Case studies on the phenol-formaldehyde runaway reaction	S. K. Das & R. K. Ganguly	2 nd Engineering World Congress, Malaysia, 22 nd – 25 th July 2002	Presented
50	Non-Newtonian liquid flow through small diameter piping components	S. N. M&al & S.K. Das	9 th Asian Pacific Confederation of Chemical Engineering to held at Christchurch, New Zealand, 29 th Sept. – 3 rd Oct., 2002	Presented
51	Gas-liquid flow through helical coils in vertical orientation	S. N. M&al & S.K. Das	9 th Asian Pacific Confederation of Chemical Engineering to held at Christchurch, New Zealand, 29 th Sept. – 3 rd Oct., 2002	Presented

52	Accidental emission of hydrogen sulphide in the manufacture of cobalt sulphide	S. K. Das & R. K. Gangopadhyay	9 th Asian Pacific Confederation of Chemical Engineering to held at Christchurch, New Zealand, 29 th Sept. – 3 rd Oct., 2002	Presented
53	Case study – chlorine leakage due to crack at the bottom of the baby chlorine cylinder	S. K. Das, V. N. Singh, M. Mukherjee & R. K. Gangopadhyay	4 th Asia Pacific Conf. On. Sustainable Energy & Environmental Technologies, May 8 – 10, 2003, Japan	Presented
54	Emission of sulphur oxides from the stack of DCDA unit – a case study	S. K. Das, M. Mukherjee & R. K. Gangopadhyay	4 th Asia Pacific Conf. On. Sustainable Energy & Environmental Technologies, May 8 – 10, 2003, Japan	Presented
55	Comparative studies of removal of dyes from effluent using ferrous sulphate, alum & a synthesis coagulant	Asim Kumar Bhattacharya, Sailendranath M&al & Sudip Kumar Das	All India Seminar on Pollution Management in Chemical, Ceramics, Metallurgical & Mining Industries : Emerging Trends & Challenges, Nov. 15-16, 2002, NIT Rourkela	Presented
56	Emission of sulphur oxides from the stack of DCDA unit – a case study	S. K. Das & R. K. Gangopadhyay	All India Seminar on Pollution Management in Chemical, Ceramics, Metallurgical & Mining Industries : Emerging Trends & Challenges, Nov. 15-16, 2002, NIT Rourkela	Presented
57	Removal of ammonia from coal gas	Ayan Bhattacharya, Anirban Banerjee &	All India Seminar on Pollution Management in Chemical,	Presented

		Sudip Kumar Das	Ceramics, Metallurgical & Mining Industries : Emerging Trends & Challenges, Nov. 15-16, 2002, NIT Rourkela	
58	Removal of ammonia from wastewater in tapered bubble column	Basudev Basak & Sudip Kumar Das	All India Seminar on Pollution Management in Chemical, Ceramics, Metallurgical & Mining Industries : Emerging Trends & Challenges, Nov. 15-16, 2002, NIT Rourkela	Presented
59	Gas holdup in tapered bubble column	Partha Sarathi M&al & Sudip Kumar Das	55 th Annual Session, IChE, CHEMCON 2002, Hyderabad, Dec. 19-22, 2002	Presented
60	An effective effluent treatment procedure of a paint manufacturing unit	A. K. Bhattacharya, S. N. M&al & S. K. Das	55 th Annual Session, IChE, CHEMCON 2002, Hyderabad, Dec. 19-22, 2002	Presented
61	Separation of oil/grease from waste water	A. K. Bhattacharya, S. N. M&al & S. K. Das	Indian Chemical Engineering Congress, 2002, Hyderabad, Dec. 19-22, 2002	Presented
62	Removal of Zinc from waste water	A. K. Bhattacharya, S. N. M&al & S. K. Das	55 th Annual Session, IChE, CHEMCON 2002, Hyderabad, Dec. 19-22, 2002	Presented
63	Gas-non-Newtonian liquid flow through helical coils	A. K. Biswas & S. K. Das	55 th Annual Session, IChE, CHEMCON 2002, Hyderabad, Dec. 19-22, 2002	Presented
64	Flow pattern & its transition for air-water flow through 4 mm tube	T.K. Ghosh, N. Dhauria & S. K. Das	56 th Annual Session IChE, CHEMCON 2003,	Presented

			Bhubaneswar, Dec. 19-22, 2003	
65	Gas-non-Newtonian liquid flow through concentric annulus	A. K. Biswas & S. K. Das	56 th Annual Session IChE, CHEMCON 2003, Bhubaneswar, Dec. 19-22, 2003	Presented
66	Minimum fluidization velocity in inverse fluidization	B. Das, B. Basak, B. C. Das & S. K. Das	56 th Annual Session IChE, CHEMCON 2003, Bhubaneswar, Dec. 19-22, 2003	Presented
64	Ammonia removal from wastewater in tapered bubble column	P. S. M&al, B. Basak & S. K. Das	56 th Annual Session IChE, CHEMCON 2003, Bhubaneswar, Dec. 19-22, 2003	Presented
68	Effect of electrolyte on gas holdup in tapered bubble column	S. Sen, P. S. M&al & S. K. Das	56 th Annual Session IChE, CHEMCON 2003, Bhubaneswar, Dec. 19-22, 2003	Presented
69	Gas-liquid flow through coils	A. B. Biswas, S. K. Das & S. N. M&al	Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	Presented
70	Improved Decolorization of reactive dye effluents using coagulant aids & polyelectrolyte	A. K. Bhattacharya, S. K. Das & S. N. M&al	Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	Presented
71	Bioaccumulation of chromium & cadmium commercially edible fishes of gangetic West Bengal	A. K. Bhattacharya, S. K. Das & S. N. M&al	Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	Presented
72	An experimental investigation on the removal of ammonia from wastewater in tapered bubble column	P. S. M&al, B. Basak & S. K. Das	Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	Presented

73	Ammonia leakage from a refrigeration plant – case studies	R. K. Gangopadhyay, M. Mukherjee & S. K. Das	Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	Presented
74	Studies on seasonal distribution of heavy metals in water & sediment phase with its bio-accumulation in upper stretch of gangetic West Bengal	A. K. Bhattacharya, S. K. Das , S. N. M&al & A. Mitra	Int Conf. on Chemical Engineering 2003, December 29-30, 2003, Dhaka, Bangladesh	Presented
75	Removal of Zn(II) from wastewater using natural & synthetic adsorbent	P. Chowdhury, Suparna Mukherjee, A. Bhattacharya, S. N. M&al & S. K. Das	5 th Asia Pacific Conference on Sustainable Energy & Environmental Technologies, to be held 9 – 11 May, 2005, Wellington, New Zealand	Presented
76	Microbial desulfurization of Coal	S. K. Das , M. Das & A. K. Banik	All India Sem. Carbonization of Coal, 14 Feb. Dankuni, 2004	Presented
77	Application of synthetic polymeric coagulant in water clarification	A. K. Bhattacharyya, S. N. M&al & S. K. Das	Nat. Sem. Emerging Technology for Sustainable Environment in Chemical & Allied Industries, October 2-3, 2004, Rourkela	Presented
78	Hydrodynamics of Inverse Fluidization	Bimal Das & Sudip Kumar Das	Nat. Sem. Emerging Technology for Sustainable Environment in Chemical & Allied Industries, October 2-3, 2004, Rourkela	Presented
79	Removal of Chromium from wastewater using	Tarun Naiya, Suparna	Nat. Sem. Emerging	Presented

	low cost adsorbent	Mukherjee & Sudip Kumar Das	Technology for Sustainable Environment in Chemical & Allied Industries, October 2-3, 2004, Rourkela	
80	Removal of Zn(II) from wastewater using Natural & Synthetic Adsorbents	Suparna Mukherjee, A. K. Bhattacharya, S. N. M&al & S. K. Das	Nat. Sem. Emerging Technology for Sustainable Environment in Chemical & Allied Industries, October 2-3, 2004, Rourkela	Presented
81	Chlorine leakage from bonnet of a valve – a case study	R. K. Gangopadhyay, S. K. Das & M. Mukherjee	Int. Conf. Bhopal Gas Tragedy & its Effect on Process Safety, Dec. 1-3, 2004 Kanpur	Presented
82	Removal of Zinc from wastewater using Natural & Synthesis adsorbent	P. Chwdhury, A. K. Bhattacharyya, S. N. M&al & S. K. Das	56 th Annual Session IChE, Int. Conf. Indo-US Joint Session, Dec. 27-30, 2004, Mumbai	Presented
83	Ejector Venturi Fume Scrubber	P.S. M&al, S. K. Das & M. N. Biswas	56 th Annual Session IChE, Int. Conf. Indo-US Joint Session, Dec. 27-30, 2004, Mumbai	Presented
84	Hydrodynamics of Inverse Fluidization	B. Das, B. Basak & S. K. Das	56 th Annual Session IChE, Int. Conf. Indo-US Joint Session, Dec. 27-30, 2004, Mumbai	Presented
85	Gas-non-Newtonian Liquid flow through Helical Coils	A. B. Biswas & S. K. Das	56 th Annual Session IChE, CHEMCON 2004, Dec. 27-30, 2004 Mumbai	Presented

86	Sedimentation of aqueous coal slurry in presence of sodium silicate as flocculent	Aveek Das, S. K. Das & U. P. Ganguly	Nat. Conf. Waste Management in Chem. & Allied Industries, Oct. 1-2, 2005, NIT Rourkela	Presented
87	Removal of Cd(II) from wastewater using low cost natural adsorbents	A K Bhattacharya, T K Naiya, S. N. Mondal, S. K. Das	Nat. Conf. Waste Management in Chem. & Allied Industries, Oct. 1-2, 2005, NIT Rourkela	Presented
88	Removal studies of Cr(VI) using low cost non conventional adsorbents	A. K. Bhattacharya, S. K. Das , T. K. Naiya & Suparna Mukherjee	Int. Conf. Environ. Management., Pollution & Control Technologies, Oct. 28-30, 2005, Hyderabad	Presented
89	Bench Scale Evaluation on Percent Reduction of COD & BOD from a Molasses Based Effluent	A K Bhattacharya, S N Mondal & S K Das	Indian Chemical Engineering Congress, CHEMCON 2005, Dec. 14-17, 2005 New Delhi	Presented
90	Applicability of the concept of velocity – ratio to predict bed expansion in inverse fluidization	B. Das, B. Basak, S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2005, Dec. 14-17, 2005 New Delhi	Presented
91	Adsorption of Cr (VI) using Locally Available Adsorbents	Tarun Kumar Naiya, Suparna Mukherjee, A. K. Bhattacharjee & S K Das	Indian Chemical Engineering Congress, CHEMCON 2005, Dec. 14-17, 2005 New Delhi	Presented
92	Accident In Refrigeration Plant – Case Studies	R. K. Gangopadhyay & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2005, Dec. 14-17, 2005 New Delhi	Presented

93	Comparative study on adsorption of natural & synthetic adsorbent for adsorption of phenol	A. Banerjee, T., Naiya & S. K. Das	SCHEMCOM 2006, 16-17 Sept., 2006 Anantapur	Presented
94	Minimum inverse fluidization velocity for single & binary system	B. Das, B. Basak, U. P. Ganguly & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2006 27-30 Dec. 2006, Bhar	Presented
95	Two-phase frictional pressure drop of gas-non-Newtonian liquid flow in a vertical column with improved gas dispersion	S. K. Ch&raker, M. N. Biswas & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2006 27-28 Dec. 2006, Bharuch	Presented
96	Accidental emission of sulfur oxides from the stack of dcda unit – a case study	S.K. Das & R. K. Gangopadhyay	Indian Chemical Engineering Congress, CHEMCON 2006 27-30 Dec. 2006, Bharuch	Presented
97	Adsorption of Cd(II) using low cost locally available natural adsorbents	T. K. Naiya, A. K. Bhattacharyya, S. N. M&al & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2006 27-30 Dec. 2006, Bharuch	Presented
98	A study on removal characteristics of lead from aqueous solution using industrial waste materials	T. K. Naiya, A. K. Bhattacharyya, S. N. M&al & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2006 27-28 Dec. 2006, Bharuch	Presented
99	CFD modeling of non-Newtonian liquid flow through piping components	T. K. B&yopadhyay, T. Ghosh & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2006, 27-30 Dec. 2006, Bharuch	Presented
100	Two-phase gas-non-Newtonian liquid flow through helical coils in horizontal orientation,	Asit Baran Biswas & Sudip Kumar Das	Indian Chemical Engineering Congress, CHEMCON 2006, 27-28 Dec. 2006,	Presented

			Bharuch.	
101	Non-Newtonian & gas non-Newtonian liquid flow through small diameter elbows a piping component-experiments & CFD analysis.	T. K. B&yopadhyay & S. K. Das	International Conference on Modeling & Simulation, CITICOMS 2007, 27-29, August 2007, Coimbatore, India	Presented
102	Non-Newtonian & gas-non-Newtonian liquid flow through gate valve	T. K. B&yopadhyay & S. K. Das	National Symposium on Advances in Chemical Engineering, AChemE 2007, 22-24 Nov., 2007 Hydrabad.	Presented
103	Adsorption studies on the removal of Cr(VI) from waste water using rice straw & rice bran.	Biswajit Singha, Tarun Kumar Naiya, Sudip Kumar Das	National Symposium on Advances in Chemical Engineering, AChemE 2007, 22-24 Nov., 2007 Hydrabad.	Presented
104	Adsorption of heavy metals onto fly ash	T. K. Naiya, A. K. Bhattacharyya, S. N. M&al & S. K. Das	National Conference on Frontiers in Chemical Engineering 2007, 12-14 Dec. 2007, Guwahati	Presented
105	Elutriation in Two Phase Inverse Fluidization	Maitraye Sen, Bimal Das, Basudev Basak & S. K. Das	National Conference on Frontiers in Chemical Engineering 2007, 12-14 Dec. 2007, Guwahati	Presented
106	Oleum spillage due to overflow from the storage tank – lesson learned	R. K. Gangopadhyay & S. K. Das	National Conference on Frontiers in Chemical Engineering 2007, 12-14 Dec. 2007, Guwahati	Presented

107	Experimental studies of the flow pattern in small diameter tubes & ANN prediction	Tapan Kumar Ghosh, Nirjhar Bar & Sudip Kumar Das	National Conference on Frontiers in Chemical Engineering 2007, 12-14 Dec. 2007, Guwahati	Presented
108	Adsorption of phenol using coal fly ash	S. Ghosh, T. K. Naiya, D. Ghosh & S. K. Das	Regional workshop on Environmental Engineering, 19-20 Jan. 2008 Visva-Bharati, Santiniketan	Presented
109	Adsorptive removal of Pb(II) from aqueous solutions using rice husk ash	Traun Kumar Naiya, Ashim Kumar Bhattacharya, Biswajit Sinha & Sudip Kumar Das	Regional workshop on Environmental Engineering, 19-20 Jan. 2008 Visva-Bharati, Santiniketan	Presented
110	Removal of Cr(VI) from aqueous solution using abundantly available rice waste – kinetics, equilibrium & thermodynamic studies	B.Singha, T. K. Naiya & S. K. Das	All India Seminar on Emerging Trends of Chemical Engineering in Process Industries ETCE-2008, 17-18 Oct., 2008 Jamshedpur	Presented
111	Modeling of single & multi-phase flow through elbows	T.K. B&yopadhyay & S. K. Das	All India Seminar on Emerging Trends of Chemical Engineering in Process Industries ETCE-2008, 17-18 Oct., 2008, Jamshedpur	Presented
112	Prediction of minimum inverse fluidization velocity using non-Newtonian liquid	B .Das & S. K. Das	All India Seminar on Emerging Trends of Chemical Engineering in Process Industries ETCE-2008, 17-18 Oct., 2008,	Presented

			Jamshedpur	
113	Modeling of gas-non-Newtonian liquid flow through helical coils	T.K.B&yopadhyay, A.B. Biswas & S. K. Das	All India Seminar on Emerging Trends of Chemical Engineering in Process Industries ETCE-2008, 17-18 Oct., 2008, Jamshedpur	Presented
114	Adsorption of Cd(II) & Pb(II) onto clarified sludge – Kinetics, thermodynamics & desorption & application study	T. K. Naiya, S. N. Mondal, A. K. Bhattacharya & S. K. Das	Third GMSARN International Conference 2008 on 'Sustainable Development: Issues & Prospects for the Greater Mekong Subregion', 12-14 November 2008 at Kunming, China	Presented
115	Adsorptive removal of Cr(VI) from aqueous solution using abundantly available rice waste – kinetics, equilibrium & thermodynamics studies	B.Singha, T.K.Naiya, A. K. Bhattacharya, S. K. Das	Third GMSARN International Conference 2008 on 'Sustainable Development: Issues & Prospects for the Greater Mekong Subregion', 12-14 November 2008 at Kunming, China	Presented
116	Study on adsorption of natural & synthetic adsorbent for adsorption of phenol- kinetic, equilibrium & thermodynamic study	S. Ghosh, T. K. Naiya, B.Singha, S. N. Mondal, S. K. Das	International congress on environmental research, ICER,2008 18-20 December, 2008, Goa, India	Presented
117	Use of rice husk ash for the removal of Cd(II) & Pb(II) from aqueous solution	T. K. Naiya, S. N. Mondal, A. K. Bhattacharya, B. Singha, S. K. Das	International congress on environmental research, ICER,2008 18-20 December, 2008, Goa, India	Presented

118	Utilization of rice husk for the removal of Cr(VI) from waste water	B Singha, T K Naiya & S K Das	Indian Chemical Engineering Congress, CHEMCON 2008, 27-30 Dec. 2008, Ch&igarh	Presented
119	Adsorption of Pb(II) onto clarified sludge – Kinetics, thermodynamics	T. K. Naiya, A. K. Bhattacharya, B. Singha & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2008, 27-30 Dec. 2008, Ch&igarh	Presented
120	Cd(II) & Pb(II) ions removal from aqueous solutions using activated alumina	T. K. Naiya, B. Singha, A. K. Bhattacharya, S. N. M&al & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2008, 27-30 Dec. 2008, Ch&igarh	Presented
121	Experiments & CFD analysis for flow through half inch gate valve	T. K. B&yopadhyay & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2008, 27-30Dec. 2008, Ch&igarh	Presented
122	Synthesis & characterization of PVA-clarified sludge composite	S. Daw, A. B&yapadhyay & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2008, 27-230 Dec. 2008, Ch&igarh	Presented
123	Gas-liquid flow through elbows	T. K. B&yopadhyay & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2008, 27-30 Dec. 2008, Ch&igarh	Presented
124	Chlorine leakage from the bottom of a baby chlorine cylinder : lesson learned	R. K. Gangopadhyay & S. K. Das	Indian Chemical Engineering Congress, CHEMCON 2008, 27-28 Dec. 2008, Ch&igarh	Presented
125	Fundamentals of Process Safety	S. K. Das	Workshop on Industrial Hazard & Risk Assessment – An Integrated	Presented

			Training Programme, 6-7 Feb., 2009, University of Calcutta, Kolkata	
126	Phenol adsorption onto fly ash from aqueous solution – kinetic, equilibrium & thermodynamic studies	S. Ghosh, T. K. Naiya, A. K. Bhattacharya & S. K. Das	2009 Int. Sym. Environ. Sci. & Technol., 2-5 June 2009, Shanghai, China	Presented
127	Adsorption of Zn(II), Cd(II) & Pb(II) onto Fly Ash	Tarun Kumar Naiya, Ashim Kumar Bhattacharya, Sailendranath M&al & Sudip Kumar Das	2009 Int. Sym. Environ. Sci. & Technol., 2-5 June 2009, Shanghai, China	Presented
128	Hydrodynamics study of two-phase gas-liquid flow through helical coils	A.B.Biswas, S.N. M&al & S. K. Das	Int. Conf. Adv. Mechanical & Building Science in the 3 rd Millennium, 14-16 Dec., 2009 VIT University, TN	Presented
129	Pressure drop in gas dispersion in non-Newtonian liquid jet ejector system	S.K. Ch&arkar, S. K. Das & M. N. Biswas	Int. Conf. Adv. Mechanical & Building Science in the 3 rd Millennium, 14-16 Dec., 2009 VIT University, TN	Presented
130	Elutriation velocity in inverse fluidization using non-Newtonian liquid	B.Das, S. K. Das & U. P. Ganguly	Chemical Engineering Congress 2009, CHEMCON 2009, 27-30Dec. 2009, Visakhapatnam	Presented
131	Minimum inverse fluidization velocity using non-Newtonian liquid	B.Das, S. K. Das & U. P. Ganguly	Chemical Engineering Congress 2009, CHEMCON 2009, 27-30Dec. 2009, Visakhapatnam	Presented
132	Cryogen leakage in industrial gas plant – a case study	S. K. Chakraborty & S. K. Das	Chemical Engineering Congress 2009,	Presented

			CHEMCON 2009, 27-30Dec. 2009, Visakhaptnam	
133	Adsorption of Pb(II) from aqueous solutions on Fuller's earth	T.K. Naiya, B. Singha & S. K. Das	Chemical Engineering Congress 2009, CHEMCON 2009, 27-30Dec. 2009, Visakhaptnam	Presented
134	Removal of Cr(VI) from waste water using hysinth root : kinetic, equilibrium & thermodynamic studies	B.Singha, T.K. Naiya & S. K. Das	Chemical Engineering Congress 2009, CHEMCON 2009, 27-30 Dec. 2009, Visakhaptnam	Presented
135	Human errors responsible for accident in process plant	Gargi Bhattacharyya, R. K. Gangoppadhyay & S. K. Das	Chemical Engineering Congress 2009, CHEMCON 2009, 27-30 Dec. 2009, Visakhaptnam	Presented
136	Adsorption of Pb(II) from aqueous solutions onto neem leaves	R. Sinha, B. Singha, T K Naiya & S K Das	National Conference on Recent Trends In Engineering & Education (RTEE- 2010) Jan, 28-29 th 2010, National Institute of Technical Teachers' Training & Research, Kolkata, Block- FC, Sector- III, Salt Lake City, Kolkata- 700106	Presented
137	Chlorine leakage from the bottom of a baby chlorine cylinder – Human factor & lesson learned	Gargi Bhattacharjee, Ranjit Kumar Gangopdhyay & Sudip Kumar Das	National Conference on Recent Trends In Engineering & Education (RTEE- 2010) Jan, 28-29 th 2010, National Institute of Technical Teachers' Training	Presented

			& Research, Kolkata, Block- FC, Sector- III, Salt Lake City, Kolkata- 700106	
138	Carbide fire in an industrial gas plant – a case study	Gargi Bhattacharjee, Sisir Chakraborty, S. Neogi & Sudip Kumar Das	17th State Science & Technology Congress- 4th – 5th March, 2010 West Bengal University of Animal & Fishery Sciences 37 & 68, Khudiram Bose Sarani, Belgachia, Kolkata - 700037	Presented
139	Case study of a CNG bus	Gargi Bhattacharjee, Sibdas Bhattacharya & Sudip Kumar Das	Academic meet 2010, 9th & 10th April, Forum Of Scientists, Engineers & Technologists (FOSET), West Bengal University of Technology (WBUT) Kolkata	Presented
140	Removal of Pb(II) from aqueous solutions using coconut shell	A. Banerjee, B. Singha & S. K. Das	National Conference on Recent Trends In Engineering & Education (RTEE-2010) Jan, 28-29 th 2010, National Institute of Technical Teachers' Training & Research, Kolkata, Block-FC, Sector- III, Salt Lake City, Kolkata- 700106	Presented
141	Adsorption of Pb(II) from aqueous solution using rice straw : kinetic & equilibrium studies	Rupam Sinha, Biswajit Singha & Sudip Kumar Das	17 th State Science & Technology Congress, 4-5 March, 2010, Kolkata	Presented

142	Sorption kinetic & isotherm studies on removal of Pb(II) from aqueous solutions using hyacinth roots	Abhijit Banerjee, Biswajit Singha & Sudip Kumar Das	17 th State Science & Technology Congress, 4-5 March, 2010, Kolkata	Presented
143	Determination of kinetic, Equilibrium & thermodynamic parameters of the batch adsorption of Cr(VI) onto hyacinth roots & coconut shell	Rupam Sinha, Abhijit Banerjee & Biswajit Singha & Sudip Kumar Das	Academic meet 2010, 9 th & 10 th April, Forum Of Scientists, Engineers & Technologists (FOSET), West Bengal University of Technology (WBUT) Kolkata.	Presented & third paper awarded
144	Cr(VI) adsorption – mechanistic approach for biosorption from aqueous solutions	Biswajit singha & Sudip Kumar Das	International Conference on Energy, Environment & Development: from Stockholm to Copenhagen & beyond (ICEED-2010), 10-12 Dec. 2010, Sambalpur University, Orissa, India	Presented
145	Biosorption of Cr(VI) ions from aqueous solutions: kinetics, equilibrium, thermodynamics & desorption studies	Biswajit singha & Sudip Kumar Das	International Conference on Energy, Environment & Development: from Stockholm to Copenhagen & beyond (ICEED-2010), 10-12 Dec. 2010, Sambalpur University, Orissa, India	Presented
146	Feasibility of biosorption of Pb(II) ions from aqueous solutions using rice waste	Biswajit singha & Sudip Kumar Das	National Conference on Agricultural & Industrial Metabolism for Sustainable Development, 3-4	Presented

			Dec. 2010, IISWBM, Kolkata	
147	Preparation of machinable glass using of CaO-Al ₂ O ₃ -SiO ₃	Debasis Pradip Mukherjee & Sudip Kumar Das	17th West Bengal State Science & Technology Congress, West Bengal University of Animal & Fishery Science, March 2010, Kolkata, India.	Presented
148	Biosorption of lead(II) from aqueous solutions using rice husk	Biswajit singha, Tarun Kumar Naiya & Sudip Kumar Das	5 th International Congress of Chemistry & Environment, 27-29 May, 2011, Kuching, Sarawak, Malaysia	Presented
149	Statistical analysis on Safety knowledge of LPG auto drivers & LPG tank drivers	Rahul Ghosh, Sreedip Ghosh, Pinaki Naskar, Girija Sankar Mundra, Gargi Bhattacharjee, Susmita Neogi & Sudip Kumar Das	National Conference on Advanced pollution control systems for better environmental management, 9th & 10th April, 2011, Durgapur institute of advanced technology & management, Rajb&h, Durgapur -12, Burdwan, West Bengal	Presented
10	Prediction of flow pattern in small diameter tubes using artificial neural network	Nirjhar Bar, Tapan Kumar Ghosh, Sudip Kumar Das & Manindra Nath Biswas	Int. Conf. Advances in Engineering & Technology, 27-28, May 2011, Nagapattinam, TN, ISBN 978-1-4507-6433-9	Presented
151	Frictional pressure drop prediction using ANN for gas-non-Newtonian liquid flow through 45°	Nirjhar Bar, Sudip Kumar Das & Manindra Nath	Int. Conf. Advances in Engineering & Technology, 27-	Presented

	bend	Biswas	28, May 2011, Nagapattinam, TN, ISBN 978-1-4507- 6433-9	
152	FTIR study for the Cr(VI) removal from aqueous solution using rice waste	Tarun Kumar Naiya, B iswajit Singha & Sudip Kumar Das	2011 Int. Conf. Chemistry & Chemical Processes	Presented
153	Preparation & properties of SiO ₂ -Al ₂ O ₃ -CaO glass-ceramics	Debasis Pradip Mukherjee & Sudip Kumar Das	Young Scientist Award ” in the symposium on “Acharya Prafulla Ch&ra Ray memorial symposium on Chemistry today (2011) & the celebration of the international year of chemistry, Indian Chemical Society -2011, August 02-03, Kolkata	Presented
154	The effect of TiO ₂ & CaF ₂ as nucleating agent on crystallization of glass-ceramics	Debasis Pradip Mukherjee & Sudip Kumar Das	48th Annual Convention of Chemists 2011, Indian Chemical Society -2011, University of Allahabad, Dec. 03-07, 2011, Allahabad	Presented
155	Accidents in Process industries – Human Factor & Process Intensification	Gargi Bhattacharjee & Sudip Kumar Das	48th Annual Convention of Chemists 2011 & the Celebration of the International year of Chemistry, 3-7 Dec. ,2011, Allahabad, U.P.	Presented
156	Effect of nucleating agents on crystallization & microstructure of CaO- Al ₂ O ₃ -SiO ₂ glass- ceramics system	Debasis Pradip Mukherjee & Sudip Kumar Das	Indian Chemical Engineering Congress -2011 (Chemcon 2011), M.S. Ramaiah	Presented

			Institute of Technology, Bangalore, Dec. 27 – 29, 2011, Bangalore	
152	Accidental emission of ammonia from cold storage & ice factory in Kolkata & its remedial action	Gargi Bhattecharjee, S. Bhattacharya, R. K. Gangopadhyay & S. K. Das	International Conference on Control of Industrial Gaseous Emission, Annamalai University Dept. of Chem.Engg. February, 9th -10th , 2012.	Presented
158	Statistical analysis on safety knowledge of LPG auto drivers & LPG tank drivers	Gargi Bhattacharjee, Susmita Neogi & Sudip Kumar Das	Acharya P.C. Ray National Young Scientists' Conference during 17-18 February, 2012, Presidency University, Kolkata, W.B.	Presented
159	Cr(VI) ion adsorption onto coconut shell – kinetics, equilibrium, thermodynamics studies	Shreyashi Sarkar, Biswajit Singha & Sudip Kumar Das	Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry & Industry 2012, August 02-03, 2012, Kolkata	Presented
160	The use of Artificial Neural Networks (ANN) for Modelling of Bio-Adsorption of Cr(VI) Ions	Biswajit Singha, Nirjhar Bar & Sudip Kumar Das	Emerging Trends in Separation Science & Technology, February 27 – March 01, 2012, SVKM's Mithibai College, Vile Parle, Mumbai – 400056, India	Presented
161	Adsorption Characteristics of Cu(II) Ions From Aqueous Solution using Rice	B.Singha & Sudip Kumar Das	Emerging Trends in Separation Science & Technology,	Presented

	Straw & Rice Husk		February 27 – March 01, 2012, SVKM's Mithibai College, Vile Parle, Mumbai – 400056, India	
162	Adsorptive Removal of Zn(II) & Cd(II) Ions from Aqueous Solution using Fuller's Earth	A.K. Bhattacharya, T. K. Naiya & S. K. Das	Emerging Trends in Separation Science & Technology, February 27 – March 01, 2012, SVKM's Mithibai College, Vile Parle, Mumbai – 400056, India	Presented
163	Gas Hold-up & Frictional Pressure Drop Prediction in Vertical Pipes for Gas Non-Newtonian Flow using ANN	Nirjhar Bar & Sudip Kumar Das	2 nd International Conference on Process Engineering & Advanced Materials (ICPEAM 2012), June 12 – 14 2012, Kuala Lumpur, Malaysia.	Presented
164	Assessment of Resilience for System: Quantitative Resilience Analysis of a Pipe Segment System	Sishendu Guha & Sudip Kumar Das	2 nd International Conference on Process Engineering & Advanced Materials (ICPEAM 2012), June 12 – 14 2012, Kuala Lumpur, Malaysia.	Presented
165	Removal of Pb(II) From Aqueous Solutions Using Fuller's Earth	Tarun Kumar Naiya, Biswajit Singha, Ashim Kumar Bhattacharya & Sudip Kumar Das	ICNN-2012 International Conference on Nanoscience & Nanotechnology, July 5-6, 2012 Zurich, Switzerland	Presented
166	Hydrodynamic studies on two-phase inverse fluidization	Samit Bikas Maiti, Basudev Basak & Sudip	Acharya Prafulla Chandra Ray Memorial	Presented

		Kumar Das	Symposium on Chemistry & Industry 2012, August 02-03, 2012, Kolkata	
167	Properties of SiO ₂ -Al ₂ O ₃ -CaO-CaF ₂ glass-ceramics : effects of nano SiO ₂	Debasis Pradip Mukherjee & Sudip Kumar Das	Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry & Industry 2012, August 02-03, 2012, Kolkata	Presented
168	Fixed-bed column study for the removal of Pb ^{II} ions from aqueous solution using hyacinth roots & rice husk	Tania Mitra, Biswajit Singha & Sudip Kumar Das	Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry & Industry 2012, August 02-03, 2012, Kolkata	Presented
169	Storage tank fire accident in West Bengal	S. Bhattacharya, Gargi Bhattacharjee & S. K. Das	International Conference on Safety, ICS2012, October 12-13, 2012, IIT Guwahati	Presented
170	Removal of Cr(VI) from aqueous solution using fly ash of different origins	T. K. Naiya, A. K. Bhattacharyya & S. K. Das	4 th International Conference on Anthropogenic Impact on Environment & Conservation Strategy, November 2-4, 2012, Ranchi	Presented
171	Removal of Pb(II) ions from aqueous solution using hyacinth root & rice husk – fixed-bed column operation	Tania Mitra & Sudip Kumar Das	4 th Int. Conf. on Anthropogenic Impact on Environment & Conservation Strategy, 2-4 Nov. 2012	Presented
172	Safety culture in Indian Industries	S K Das	49 th Annual Convention of Chemists, Indian	Presented

			Chemical Society, 11-16 Dec. 2012, Bhopal	
173	Inverse fluidization using Newtonian liquids	Basudev Basak, Samit Bikas Maity, Bimal Das & Sudip Kumar Das	Int. Conf. Sustainable Technology for Energy & Environment in Process Industries & Indo-US Joint Int. Conferene on Energy & Environment, 65 th Annual Session of IChE, 27-30 Dec., 2012, Jal&har	Presented
174	Effects of CaF ₂ vis-à-vis TiO ₂ as nucleating agent in SiO ₂ -Al ₂ O ₃ -CaO glass system	Debasis Pradip Mukherjee, Tanmoy Datta & Sudip Kumar Das	Int. Conf. Recent Trends in Applied Physics & Material Sciene, RAM 2013, 1-2 Feb. 2013, Bikaner	Presented
175	Glass-ceramics system using normal & nano silica – preparation & characteristics	Debasis Pradip Mukherjee, Jayanta Kumar Sinha & Sudip Kumar Das	Int. Conf. Recent Trends in Applied Physics & Material Sciene, RAM 2013, 1-2 Feb. 2013, Bikaner	Presented
176	Accidental fire due to spray of pesticide in a house hold	Gargi Bhattercharjee & Sudip Kumar Das	Int. Conf. Adv. Chem. Engg., ACE-2013, 22-24 Feb. 2013, Roorkee	Presented
177	Inverse fluidization using non-Newtonian liquids for binary solid system	B.Das, U. P. Ganguly & S K Das	Int. Conf. Adv. Chem. Engg., ACE-2013, 22-24 Feb. 2013, IIT, Roorkee	Presented
178	Artificial Neural Networl – Application in Chemistry & Process Industry	S K Das	National Conference on New Strategies for Balancing the Environment, 2-3 March, 2013, Bhagalpur	Presented

179	Fire in storage tank in Burdwan, West Bengal	S K Das	All India Sem. Risk/Safety & Disaster Management in Process Industries, Kolkata, March 2013	Presented
180	Biosorption of Pb(II) ions from aqueous solution using continuous column	Tania Mitra & Sudip Kumar Das	Workshop on Water Management, Kolkata, 26-27 April, 2013	Presented
181	CFD analysis for water & air-water flow through small diameter U-bend	Tarun Kanti B&yopadhyay & Sudip Kumar Das	National Seminar on Chemical Industry : in Quest for Clean Technology & Sustainable Development, 22 nd June, 2013	Presented
182	Removal of Pb(II) from aqueous solution using <i>Ployalthia longifolia</i> leaves	Sarbani Ghosh & Sudip Kumar Das	National Seminar on Chemical Industry : in Quest for Clean Technology & Sustainable Development, 22 nd June, 2013	Presented
183	Cr(VI) removal from aqueous solution in continuous column mode using rich hush	S. Nag & S K Das	15 th Asian Chemical Congress 2013, 19 - 23 August 2013, Resorts World Sentosa, Singapore	Presented
184	Removal of Cr(VI) from aqueous solution using fly ash collected from different power plants in India	S K Das & D. C. Mukherjee	15 th Asian Chemical Congress 2013, 19 - 23 August 2013, Resorts World Sentosa, Singapore	Presented
185	Process Safety in Chemistry & Chemical Engineering Education	S. K. Das	15 th Asian Chemical Congress 2013, 19 - 23 August 2013, Resorts World Sentosa, Singapore	Presented

186	Removal of Pb(II) ions from aqueous solution using hyacinth roots & rice husk in Fixed-bed	Tania Mitra, S. K. Das & D. C Mukherjee	15 th Asian Chemical Congress 2013, 19 - 23 August 2013, Resorts World Sentosa, Singapore	Presented
187	Adsorptive phenol removal from aqueous solution using rice husk ash : kinetics, Isotherms, Thermodynamics & scaleup	A. M&al, R. Ghosh & S. K. Das	DAE-BRNS Sym. Emerging Trends in Separation Science & Technology-SESTEC-2014, Feb. 25-18, 2014, Mumbai	Presented
188	Adsorptive removal of Cr(VI) from aqueous solution using blackberry leaves – column study	Tania Mitra & Sudip Kumar Das	DAE-BRNS Sym. Emerging Trends in Separation Science & Technology-SESTEC-2014, Feb. 25-18, 2014, Mumbai	Presented
189	Synthesis & charaterazion of a novel bioactive glass ceramics with invitro property study	Tamal Kanti Ghosh, Debasis Pradip Mukherjee & Sudip Kumar Das	Nat. Sym. Chem. & Industry 2014, Aug. 1-2, 2014, Kolkata	Presented
190	Use of locally available bio-adsorbent for removal of Chromium (VI) from industrial waste water	Soma Nag, Abhijit Mondal, Umesh Mishra, Sudip Kumar Das	Nat. Sem. Recent Trends in Research, Development & Innovations Sept. 05-07 2014, Agartala	Presented
191	ANN application in the adsorptive removal of heavy metals from aqueous solution	S K Das	Nat. Sem. Information Science & Environment, Sept. 12-13, 2014, Bhagalpur	Presented
192	Influence of TiO ₂ on the crystallization & microstructure of machinable glass ceramics	DebasisPradip Mukherjee & Sudip Kumar Das	1st Int.Conf. Emerging Materials: Characterization & Application,	Presented

			EMCA-2014, Dec. 4-6, 2014 Kolkata	
193	Role of ZrO ₂ on properties of machinable glass-ceramics	Debasis Pradip Mukherjee & Sudip Kumar Das	1st Int. Conf. Emerging Materials: Characterization & Application, EMCA-2014, Dec. 4-6, 2014 Kolkata	Presented
194	Synthesis & characterization of bio-active glass-ceramics using nano-silica	Tamal Kanti Ghosh, Debasis Pradip Mukherjee & Sudip Kumar Das	1st Int. Conf. Emerging Materials: Characterization & Application, EMCA-2014, Dec. 4-6, 2014 Kolkata	Presented
195	Flow Regime Prediction Using Artificial Neural Networks for Air-Water Flow Through 1–5 mm Tubes in Horizontal Plane	Nirjhar Bar, Manindra Nath Biswas & Sudip Kumar Das	2nd Int. Conf. Information systems Design & Intelligent Applications INDIA 2015, Jan. 8-9 2015, Kalyani	Presented
196	Fly ash - adsorptive removal of Cr(VI) from aqueous solution	Sudip Kumar Das	Nat. Sem. Management & utilisation of wastes from Metal processing industries & thermal power stations, 13-14 February 2015, Kolkata	Presented
197	The role of nano-SiO ₂ vs normal SiO ₂ on the machinable bio-compatible glass ceramics	Debasis Pradip Mukherjee & Sudip Kumar Das	2 nd Int. Conf. Nanotechnology - ICNT – 2015 19 – 21 Feb. 2014 HIT, Haldia, Purba Medinipur	Presented
198	Adsorptive removal of Cr(VI) by rice husk ash – column study	Shreyashi Sarkar & Sudip Kumar Das	22 nd West Bengal State Sci. & Techol. Congress 2015, Darjeeling, 28 th Feb. – 1 st March 2015	Presented
199	Behavioral study of pea	Munmun	22 nd West Bengal	Presented

	nut shell as an adsorbent in a continuous fixed bed column for the removal of Cr(VI) from aqueous solution	Banerjee & Sudip Kumar Das	State Science & Technology Congress 2015, Darjeeling, 28 th Feb. – 1 st March 2015	
200	Impact of different nut shell on the removal of Cr(VI) from aqueous solution	Abhishek Das & Sudip Kumar Das	22 nd West Bengal State Science & Technology Congress 2015, Darjeeling, 28 th Feb. – 1 st March 2015	Presented
201	Adsorptive removal of chromium (VI) from aqueous solution in a continuous fixed bed column using peanut shell as an adsorbent	Munmun Banerjee & Sudip Kumar Das	All India Seminar on Recent Developments in Chemical Reactors & Reaction Engineering for Security in Energy, Environment, Food & Healthcare, Kolkata, 20-21 March, 2015	Presented
203	Hydrodynamics of tapered bubble columns using non-Newtonian liquids	Sumit Kumar Jana, Asit Baran Biswas & Sudip Kumar Das	All India Seminar on Recent Developments in Chemical Reactors & Reaction Engineering for Security in Energy, Environment, Food & Healthcare, Kolkata, 20-21 March, 2015	Presented
204	Removal of Cr (VI) from aqueous solution using peanut shell as a bioadsorbent in a continuous fixed bed adsorption column	Munmun Banerjee & Sudip Kumar Das	UGC sponsored Nat. Conf. Environmental impact on Health – towards a better future, Kolkata, 27-28 March 2015	Presented
205	Column studies on removal of Cr(VI) by rice husk ash	Shreyashi Sarkar & Sudip Kumar Das	UGC sponsored Nat. Conf. Environmental impact on Health –	Presented

			towards a better future, Kolkata, 27-28 March 2015	
206	Nickel & its health effect	Jayeeta Banerjee & Sudip Kumar Das	UGC sponsored National Conference on Environmental impact on Health – towards a better future, Kolkata, 27-28 March 2015	Presented
207	Removal of Chromium(VI) from aqueous solution using almond shell as a bio-adsorbent in a continuous fixed bed adsorption column	Munmum Banerjee & Sudip Kumar Das	Nat. Sym. Recent Adv. Chem. & Industry - 2015, July 31 - Aug. 1, Kolkata, 2015	Presented
208	Removal of Cr(VI) & Cu(II) ion from aqueous solution by rice husk ash - column studies	Shreyashi Sarkar & Sudip Kumar Das	Nat. Sym. Recent Adv. Chem. & Industry - 2015, July 31 - Aug. 1, Kolkata, 2015	Presented
209	Role of nano-silica on the characteristics improvement of bio-active glass-ceramics	Tamal Kanti Ghosh, Debasis Pradip Mukherjee & Sudip Kumar Das	Nat. Sym. Recent Adv. Chem. & Industry - 2015, July 31 - Aug. 1, Kolkata, 2015	Presented
210	Wastewater treatment with respect of heavy metals	Sudip Kumar Das	National Seminar Chemistry for Sustainable development 22-23 Sept. 2015 Naugachia, Bhagalpur	Presented
211	Studies on removal of chromium(VI) from aqueous solutions in a continuous fixed bed adsorption column using low cost bio-adsorbents	Munmum Banerjee & Sudip Kumar Das	Golden Jubilee Int. Conf. Recent Developments in Chem. Biochem. Engg., 2-4 Oct. NIT Durgapur, 2015	Presented
212	Recent trends in reuse of waste automotive lubricating oil	Sushanta Kumar Roy, Bimal Das, Tarkeshwar Kumar & Sudip Kumar Das	Golden Jubilee Int. Conf. Recent Developments in Chem. Biochem. Engg., 2-4 Oct.	Presented

			NIT Durgapur 2015	
213	Synthesis & characterization of polyvinyl alcohol-red mud hybrid composites	Sukanta Daw & Sudip Kumar Das	Golden Jubilee Int. Conf. Recent Developments in Chem. Biochem. Engg., 2-4 Oct. NIT Durgapur 2015	Presented
214	Removal of chromium(VI) from aqueous solutions using rubber leaf powder : batch, column studies & ANN modeling	Soma Nag, Umesh Mishra, Nirjhar Bar & Sudip Kumar Das	Golden Jubilee Int. Conf. Recent Developments in Chem. Biochem. Engg., 2-4 Oct. NIT Durgapur 2015	Presented
215	Estimation of minimum fluidization velocity for non-Newtonian fluids	Samit Kumar Maiti & Sudip Kumar Das	Golden Jubilee Int. Conf. Recent Developments in Chem. Biochem. Engg., 2-4 Oct. NIT Durgapur 2015	Presented
216	Adsorption of Cr(VI) from aqueous solutions on coconut shell powder in fixed bed column	Soma Nag, Umesh Mishra, Sudip Kumar Das	CHEMCON 2015, Dec. 27-30, IIT Guwahati 2015	Presented
217	Nano Particles in Machinable Glass-Ceramics	Sudip Kumar Das	52nd Annual Convension of Chemists 2015 & International Conference on Recent Advances in Chemical Science in the Industrial & Applied Chemistry Section, 28-30, Dec. 2015, JECRC University, Jaipur, Rajasthan.	
218	Enhance Oil Production from Mature Fields - Indian Status & Prospect	Sudip Kumar Das	International Conference on Recent Trends in Energy Technology, ICRTET-2016,	Presented

			HIT Haldia, 21-23, Jan. 2016, Haldia	
219	Multiphase flow & ANN application	Sudip Kumar Das	National Symposium on Multiphase Flow, NSMF 2016, NIT Durgapur, 22-24 Feb.. 2016, Durgapur	Presented
220	Removal of chromium(VI) from aqueous solutions using rubber leaf powder: batch & column studies & ANN Modeling	Sudip Kumar Das	Nat. Sem. on Recent Advances in Chemistry, Feb. 25-26, T. M. University, Bhagalpur	Presented
221	Cr(VI) removal from aqueous solution using nut shells – batch mode	Abhishek Das & Sudip Kumar Das	23 rd West Bengal State Sci. & Techol. Congress 2015, Kolkata, 28 th Feb. – 1 st March 2016	Presented
222	Continuous column mode operation for the removal of Cr(VI) using nut shells	Munmun Banerjee & Sudip Kumar Das	23 rd West Bengal State Sci. & Techol. Congress 2015, Kolkata, 28 th Feb. – 1 st March 2016	Presented
223	Cr(VI) removal from aqueous solutions using rubber leaf & ann modeling	Soma Nag & Sudip Kumar Das	16th Asian Chemical Congress 16ACC, March 16-19, 2016, Dhaka, Bangladesh	Presented
224	Bio-active glass ceramics - synthesis & characterization	Tamal Kanti Ghosh, Debasis Pradip Mukherjee & Sudip Kumar Das	16th Asian Chemical Congress 16ACC, March 16-19, 2016, Dhaka, Bangladesh	Presented
225	Removal of chromium(vi) ion from aqueous solution using hyacinth root as an adsorbent in continuous mode	Tania Mitra, Sudip Kumar Das & Dulal Ch&ra Mukherjee	16th Asian Chemical Congress 16ACC, March 16-19, 2016, Dhaka, Bangladesh	Presented
226	Preparation & characteristion of nano	Poulomi Sarkar & Sudip	Int. Conf. Adv. Engg. & Technol,	Presented

	silica extracted from rice husk ash	Kumar Das	ICAET 2016 4-5 April, 2016 Kolkata	
227	Bio-sorption of methylene blue from aqueous solution, industrial effluent & ANN modeling	Rajdeep Ghosh & Sudip Kumar Das	National Conf. on Recent Developments & Applications in Chemical Sciences, RDACS-2016, 20-21, May 2016, Agartala	Presented
228	Quantification of Resilience of Process Systems: Identification of Most thermodynamically Efficient Operating Capacity Regime For Optimization of Energy Usage	Sirshendu Guha & Sudip Kumar Das	Energy Systems Conference 2016 14-15 June 2016 QEII Centre, Westminster, London,	Presented
229	ANN application in Chemical Engineering	Sudip Kumar Das	Int. Conf. on Chemical Engineering & Advanced Polymeric Materials, Aug. 18-20, 2016 BIT, Misra, Ranchi	Presented
230	Adsorptive removal of Cr(VI) from aqueous solutions using nut shells	Abhishek Das & Sudip Kumar Das	Int. Conf. on Chemical Engineering & Advanced Polymeric Materials, Aug. 18-20, 2016 BIT, Misra, Ranchi	Presented
231	Elutriation in non-Newtonian pseudoplastic liquid fluidization	Samit Bikas Maiti & Sudip Kumar Das	Int. Conf. on Chemical Engineering & Advanced Polymeric Materials, Aug. 18-20, 2016 BIT, Misra, Ranchi	Presented
232	Gas holdup in tapered bubble columns using water : effect of columns	Sumit Kumar Jana & Sudip Kumar Das	Int. Conf. on Chemical Engineering &	Presented

	diameter with same taper angle & liquid height		Advanced Polymeric Materials, Aug. 18-20, 2016 BIT, Misra, Ranchi	
233	Computational fluid dynamics & its application	Sudip Kumar Das	Nat.. Sem. On Application of Image Processing in Chemical Engineering, Biology & Medicine, Oct. 1, 2016, IE(I) Kolkata	Presented
234	Cr(VI) removal from aqueous solution using natural adsorbents & ANN modelling	Soma Nag & Sudip Kumar Das	Nat. Conf. on Frontiers in Chemical Sciences, Oct. 04, 2016 PAHER University, Udaipur	Presented
235	Role of nano alumina on the synthesis, crystallization kinetics & microstructure behavior of bio-active glass ceramics	Tamal Kanti Ghosh, Debasis Pradip Mukherjee & Sudip Kumar Das	International Conference on Computational Advancement in Applied Science & Engineering – IC2A2SE-2016 4-6 oct., 2016, Kolkata	Presented
236	Removal of chromium (VI) from its aqueous solution using low cost bio-adsorbents like pistachio shell in a continuous fixed bed adsorption column	Munmun Banerjee, Ranjan Kumar Basu & Sudip Kumar Das	1 st Regional Sci & Technol. Congress, 2016 Presidency Div., West Bengal, 13-14, Nov . 2016, Kolkata	Presented
237	Removal of copper (II) from its aqueous solution using low cost bio-adsorbents like peanut shell in a continuous fixed bed adsorbent column	Munmun Banerjee, Kajari Kundu & Sudip Kumar Das	1 st Regional Sci & Technol. Congress, 2016 Presidency Div., West Bengal, 13-14, Nov . 2016, Kolkata	Presented
238	Effects of nano materials on the development of bio-r biomedical application	Tamal Kanti Ghosh, Debasis Pradip Mukherjee &	1 st Regional Sci & Technol. Congress, 2016 Presidency Div., West Bengal,	Presented

		Sudip Kumar Das	13-14, Nov . 2016, Kolkata	
239	Column studies on removal of Cr(VI) by rice bran	Shreyashi Sarkar & Sudip Kumar Das	1 st Regional Sci & Technol. Congress, 2016 Presidency Div., West Bengal, 13-14, Nov . 2016, Kolkata	Presented
240	Removal of Cu(II) ions from aqueous solution by neem leaf & coconut shell – column study	Shreyashi Sarkar & Sudip Kumar Das	1 st Regional Sci & Technol. Congress, 2016 Presidency Div., West Bengal, 13-14, Nov . 2016, Kolkata	Presented
241	Synthesis and crystallization kinetics study of nano Al ₂ O ₃ containing bio-active glass-ceramics	Tamal Kanti Ghosh, Debasis Pradip Mukherjee, Uttam Kumar Ghorai and Sudip Kumar Das	2 ^{ns} Int. Conf. Emerging Materials: Characterization and Application, EMCA-2017, NIT, Durgapur 15-17, March 2017	Presented
242	Bio-active glass-ceramics synthesis and its characterization	Biswadeep Pal, Tamal Kanti Ghosh, Debasis Pradip Mukherjee and Sudip Kumar Das	2 ^{ns} Int. Conf. Emerging Materials: Characterization and Application, EMCA-2017, NIT, Durgapur 15-17, March 2017	Presented
243	Removal of copper(II) from its aqueous solution using low-cost bio-adsorbents like almond shell in a continuous fixed bed adsorption column	Aindrila Ghosh, Munmun Banerjee & Sudip Kumar Das	Nat. Conf. Sustainable technologies to connect people with nature, 9 June 2017, Kolkata	Presented
244	A review on the Application of various adsorption isotherms for mono layer and multi layer adsorption	Samanwita Bhattacharya and Sudip Kumar Das	CHEMCON-2017 27-30 December, 2017 HIT Haldia	Presented
245	Adsorptive removal of Cu(II) from Aqueous Solution by Chitosan- <i>n</i> SiO ₂ Nanocomposite-	Samanwita Bhattacharya, Baisali Rajbansi and Sudip	Int. Seminar Recent Advances in Molecules and Materials-2018	Presented

	Isotherm, Kinetic and Thermodynamic Study	Kumar Das	2-3 August, 2018 HIT, Haldia	
246	Adsorptive removal of Cu(II) from Aqueous Solution by Chitosan- <i>n</i> SiO ₂ Nanocomposite	Samanwita Bhattacharya, Baisali Rajbansi and Sudip Kumar Das	Nat. Conf. Science, Technology and Communication Skills (NCSTCS-2K18) 21 st April, 2018 Narula Institute of Technology, Agarpara, Kolkata	Presented
247	Chitosan- <i>n</i> SiO ₂ Nanocomposite-Preparation and Application in Cu(II) Remotion from Aqueous Solution	Samanwita Bhattacharya, Baisali Rajbansi and Sudip Kumar Das	National Conference on Engineering and Technology for Rebuilding India, 2018 5-6 June, 2018 CSIR, Kolkata	Presented
248	Adsorptive Removal of Crystal Violet from Aqueous Solution using Phosphoric Acid Treated Eucalyptus Leaf	Rumpita Ghosh, Koushik Ghosh, Sudip Kumar Das , Asit Baran Biswas	National Conference on Engineering and Technology for Rebuilding India, 2018 5-6 June, 2018 CSIR, Kolkata	Presented
249	Adsorptive Removal of Crystal Violet from Aqueous Solution using H ₃ PO ₄ Treated Eucalyptus Leaf	Koushik Ghosh, Sudip Kumar Das , Asit Baran Biswas	BIOSPECTRUM 2018, 27-28 July, 2018 UEM, Kolkata	Presented
250	Adsorptive removal of phenol from wastewater using rice husk ash	Ashanendu Mandal, Paramartha Mukhopadhyay, Sudip Kumar Das	Int. Sem. Recent Advances in Molecules and Materials-2018 2-3 August, 2018 HIT, Haldia	Presented
251	Synthesis and Characterisation of nano Zirconia Containing Bio-active Glass Ceramics	Tamal Kanti Ghosh and Sudip Kumar Das	Int. Sem. Recent Advances in Molecules and Materials-2018 2-3 August, 2018 HIT, Haldia	Presented
251	Remotion of Crystal	Koushik Ghosh,	106 th Indian	Presented

	Violet from Aqueous Solution Using Eucalyptus Leaves: Kinetic and thermodynamic study	Somnath Jana , Asit Baran Biswas and Sudip Kumar Das	Chemical Congress 2019 3-7 Jan. 2019 Jalandhar	
252	Minimum Fluidization Velocities for binary Sand particles	Sudipta Let, Sourav Habib Halder, Ranjan Kumar Basu and Sudip Kumar Das	106 th Indian Chemical Congress 2019 3-7 Jan. 2019 Jalandhar	Presented
253	Removal of Phenol from Aqueous Solution using Activated Carbon from Coconut Coir	Ashanendu Mandal, Paramartha Mukhopadhyay and Sudip Kumar Das	106 th Indian Chemical Congress 2019 3-7 Jan. 2019 Jalandhar	Presented
254	Adsorptive Removal of Methylene Blue from Aqueous Solution by Chitosan-nano-silica composite	Samanwita Bhattacharya, Baisali Rajbansi and Sudip Kumar Das	106 th Indian Chemical Congress 2019 3-7 Jan. 2019 Jalandhar	Presented
255	Optimization of physical parameters for Ni(II) biosorption from solution by Ni ⁺² resistant <i>Saccharomyces cerevisia</i> RA100	Jayeeta Banerjee, Ranjan Kumar Basu, Sudip Kumar Das and Ajit Kumar Banik	Nat. Conf. Future India: Science and Technology, 27 th - 28 th Feb. 2019, Kolkata	Presented
256	Prediction of two-phase pressure drop for air-water flow through U-bends using the artificial neural network (ANN)	Sudip Kumar Das	RSU International Research Conference 2019, Thailand, 26 th April, 2019	Presented
257	Surfactant Aided Synthesis of Precipitated Calcium Carbonate Nano-particles from Chicken Egg Shell by Co-precipitation Method	Sujan Kumar Chakrabarti and Sudip Kumar Das	RSU International Research Conference 2019, Thailand, 26 th April, 2019	Presented
258	Synthesis and	Gourab Dutta	RSU International	Presented

	Characterisation of Machineable Bio-Active Glass Ceramics in the SiO ₂ -Na ₂ O-CaO-P ₂ O ₅ -MgO System	Mustafi, Tamal Kanti Ghosh and Sudip Kumar Das	Research Conference 2019, Thailand, 26 th April, 2019	
259	Synthesis and analysis of bio active glass ceramic of varying lithium content	Somnath Biswas, Sujan Kumar Chakrabarti, Gourab Dutta Mustafi and Sudip Kumar Das	RSU International Research Conference 2019, Thailand, 26 th April, 2019	Presented
260	Adsorptive Removal of Crystal Violet (aq) Using Untreated and Acid Treated Eucalyptus Leaves	Koushik Ghosh, Asit Baran Biswas and Sudip Kumar Das	RSU International Research Conference 2019, Thailand, 26 th April, 2019	Presented
261	Hydrodynamic characteristics in binary solid-liquid fluidization system	Sudipta Let, Sourav Habib Halder, Ranjan Kumar Basu and Sudip Kumar Das	RSU International Research Conference 2019, Thailand, 26 th April, 2019	Presented
262	Effect of Nano-ZrO ₂ addition on the Synthesis, Crystallization, Mechanical and Biological Properties of bioactive glass ceramics	Tamal Kanti Ghosh and Sudip Kumar Das	RSU International Research Conference 2019, Thailand, 26 th April, 2019	Presented

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Newtonian liquid mixture in horizontal & vertical pipes, *Can. J. Chem. Engg.*, 70 (1992) 431-437].

James F. Steffe, *Rheological Methods in Food Process Engineering*, 2nd Ed. Freeman Press, 2807 Still Valley Dr. East Lansing, MI 48823 USA, pp 133 (1996) [Paper : Banerjee Tapan Kumar, Manas Das & **Sudip Kumar Das**, Non-Newtonian liquid flow through globe & gate valve, *Can. J. Chem. Engg.*, **72(2)** (1994) 207-211]

R. P. Chhabra & J. F. Richardson, *Non-Newtonian flow in Process Industries*, Butterworth-Heinemann, Oxford, pp 146 (1999) [Paper : Banerjee Tapan Kumar, Manas Das & **Sudip Kumar Das**, Non-Newtonian liquid flow through globe & gate valve, *Can. J. Chem. Engg.*, **72(2)** (1994) 207-211]

Gautam et al., *Biosorption of heavy metals recent trends & challenges*, Ch. 10, pp- 304-320, in *Wastewater reuse & management*, Ed. Sanjoy Sharma & Rashmi Sanghi, Springer, (2011), ISBN 978-94-007-4941-2 [Tarun Kumar Naiya, Ashim Kumar Bhattacharya, Sailendranath M&al & **Sudip Kumar Das**, The sorption of Lead (II) ions on rice husk ash, *J. Hazardous Mat.*, **163(2-3)** (2009) 1254-1264].

Veruscha Fester, Paul Slatter & Neil Alderman (2012). Resistance Coefficients for Non-Newtonian Flows in Pipe Fittings, *Rheology*, Chapter 7, 151-186, Dr. Juan De Vicente (Ed.), ISBN: 978-953-51-0187-1, InTech, Available from:

<http://www.intechopen.com/books/rheology/resistance-coefficients-for-non-newtonian-flows-in-pipe-fittings> [Paper : Banerjee Tapan Kumar, Manas Das & **Sudip Kumar Das**, Non-Newtonian liquid flow through globe & gate valve, *Can. J. Chem. Engg.*, **72(2)** (1994) 207-211]

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Paper : A K Bhattacharya, T. K. Naiya, S N Mondal & **S K Das**, Adsorption, Kinetics & Equilibrium studies on removal of Cr(VI) from aqueous solutions using different low-cost adsorbents, *Chem. Engg. J.*, **137(3)**, (2008) 529-541.

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Paper : A.K. Bhattacharya, S. N. M&al & **S. K. Das**, Adsorption of Zn(II) from aqueous solution by using different adsorbents, *Chem. Engg. J.*, **123**, (2006) 43-51.

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Paper : Tarun Kumar Naiya, Ashim Kumar Bhattacharya & **Sudip Kumar Das**, Adsorption of Cd(II) & Pb(II) from aqueous solutions on activated alumina, *J. Coll. Int. Sci.*, **333**, (2009) 14–26.

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Paper : Tarun Kumar Naiya, Ashim Kumar Bhattacharya, Sailendranath M&al & **Sudip Kumar Das**, The sorption of Lead (II) ions on rice husk ash, *J. Hazardous Mat.*, **163(2-3)**, (2009) 1254-1264.

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Paper : Tarun Kumar Naiya, Pankaj Chaudhury, Ashim Kumar Bhattacharya & **Sudip Kumar Das**, Saw dust & neem bark as low-cost natural biosorbent for adsorptive removal of Zn(II) & Cd(II) ions from aqueous solutions, Chem. Engg. J., **148**, (2009) 68-79.

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Paper : Biswajit Singha & **Sudip Kumar Das**, Biosorption of Cr(VI) ions from aqueous solutions: kinetics, equilibrium, thermodynamics & desorption studies, Colloids & Surfaces B: Biointerfaces, **84**, (2011), 221-232

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Paper : B. Singha & S. K. Das, Adsorptive removal of Cu (II) from aqueous solution & industrial effluent using natural/agricultural wastes, Colloids & Surfaces B: Biointerfaces **107** (2013) 97-106

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Paper : T.K. Naiya, A.K. Bhattecharjee, **S.K. Das**, Removal of Cd(II) from aqueous solutions using clarified sludge (basic oxygen furnace sludge) –kinetics, thermodynamics & desorption, J Coll. Int. Sci., **325(1)** (2008) 48-56

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Paper : T. K. Naiya, A. K. Bhattacharya & **S. K. Das**, Adsorption of Pb(II) by saw dust & neem bark from aqueous solutions, Environ. Progress, **27(3)**, (2008) 313-328.

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Paper: Mukherjee, D. P. & **S. K. Das**, SiO₂-Al₂O₃-CaO glass-ceramics: Effects of CaF₂ on crystallization, microstructure & properties, Ceramics International, **39** (2013) 571-578.

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Paper: Singha, B., T. K. Naiya, A. K. Bhattacharya & **S. K. Das**, Cr(VI) ions removal from aqueous solutions using natural adsorbents - FTIR studies, J. Environmental Protection, **2(6)** (2011) 729-735.

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