



RESUME of Professor Dr. Rafiqul Islam

Dr. Rafiqul Islam was Dean of the Faculty of Engineering and Technology of the University of Dhaka, Bangladesh. He is a Professor and former Chairman of the Dept of Applied Chemistry & Chemical Engineering, University of Dhaka. He is also the In-Charge of the Science Workshop and Director, Center for Climate Change Study and Resource Utilization of Dhaka University and was the Chief of the HEQEP (Higher Education Quality Enhancement Project of the University Grants Commission and the World Bank) in the Department of Applied Chemistry and Chemical Engineering. Professor Dr Rafiqul Islam was also Chairman of the Dept of Nuclear Engineering, University of Dhaka. Prior to joining the University of Dhaka, Dr Islam served as Engineer-Chemical (Process) in the Eastern Refinery Ltd and Chittagong Urea Fertilizer Co. Ltd.

- Professor Dr. Rafiqul Islam completed his Secondary School & Higher Secondary Certificate Examinations from Jhenidah Cadet College, securing Star marks and having 10th and 12th Positions in the combined merit list of Jessore Board.
- In 1974 he was selected for a Scholarship of the Govt. of Bangladesh and the former Soviet Union, and availing the Scholarship, he had his combined B.Sc. and Masters degree in Chemical Engineering from Azerbaijan Red Banner Order Institute of Petroleum & Chemistry, Baku in 1980 with highest CGPA amongst all - 4.85/5 and was awarded **RED CERTIFICATE** (degree **WITH HONOURS**).
- Dr. Islam did his Ph.D. from Azerbaijan Institute of Petro-Chemical Processes, Academy of Sciences in 1985 with high acclamation.

Prof. Islam has been honored as Distinguished Ex-Cadet of Jhenidah Cadet College, a school of very high discipline in the country. He became the Winner in the Moscow Olympiad of Young Scientists in 1984. Dr. Islam was a visiting Professor in many renowned universities of Asia and Europe and availed many prestigious Post-Doctoral Fellowships like

- Marie Curie Bursary by the Commission of the European Communities in Clausthal Technical University, Germany;
- UNESCO Fellowship in East China University of Science & Technology Shanghai;
- Alexander von Humboldt Fellowship & Europe Research Fellowship in Stuttgart University, Swiss Federal Institute of Technology Zurich, University of Geneva, Energy Research Centre of the Netherlands and
- Commonwealth Academic Staff Fellowship in the University of Nottingham, UK.

Professor Islam made more than 80 publications in national & international journals on Energy & Environment related research. His current research interest includes energy efficiency improvement and CO₂ emission reduction, technology of processing fossil fuels, water treatment and environmental pollution, membrane and nano-technology, climate change mitigation. Professor Islam was invited to give seminar on Energy, Environment & Climate Change related issues in many renowned educational institutions like

- Inter Government Panel on Climate Change IPCC Potsdam (Nobel Prize Winning Institution), Jacobs University Bremen, KIT Karlsruhe, Clausthal Technical University, Karlsruhe University of Applied Sciences, University of Geneva, Swiss Federal Institute of Technology Zurich, Energy Research Centre of the Netherlands, Imperial College London, University of Oxford, Leeds University, Cardiff University, University of Strathclyde, Palermo University, East China University of Science &

Technology Shanghai, Chiang Mei University, Nepal Academy of Sciences, NITTTR Bhopal, IIT, Kharapur, Indian Institute of Science, Bangalore, etc.

He is serving as a Governing Body Member of many institutions in Bangladesh like: Military Institute of Science and Technology, Training Institute for Chemical Industries, etc. and also works as expert in many national committees. He is Member of several Professional Bodies in Bangladesh, including Life Fellow of the Bangladesh Institution of Engineers, Life Member of Bangladesh Chemical Society, Life Member of the Asiatic Society of Bangladesh. He is the Chairman of the Standardization Committee for Petroleum & Petroleum Products of BSTI and the Chairman of the Special Allocation Fund Committee for Projects in Engineering & Applied Sciences of the Ministry of Science & Technology, Govt. of Bangladesh. Professor Islam was the General Secretary of the Association of Humboldt Fellows Bangladesh for four terms. He was the Organizing Secretary of Bangladesh Chemical Society and Vice-Chairman of Bangladesh Chemical Congress for several times. Prof Islam was appointed as First Ambassador Scientist of the Alexander von Humboldt Foundation Germany in Bangladesh in 2010 for two terms until 2016 and was the country Adviser for the DeLPHE (Development Partnership for Higher Education), UK and the first Coordinator of the Commonwealth Scholarship from Developing Countries in the University of Dhaka. He is the President of Bangladesh Association of Commonwealth Scholars and Fellows and the President of the Alumni Association of German Universities in Bangladesh and Senior Vice-President of the Alumni Association of Applied Chemists & Chemical Engineers. Dr Rafiqul Islam's Bio-Data is incorporated in the International Biographical Centre, Cambridge, England and Who's Who in the World.

1. Name and Designation: Dr. RAFIQU L ISLAM, Professor, Former Dean, Faculty of Engineering & Technology, University of Dhaka

2. Nationality: Bangladeshi by birth.

3. Date of birth: 31 March, 1956

4. Present Address: Prof. Dr. Rafiqul Islam, Dept. of Applied Chemistry & Chemical Engineering, University of Dhaka, Dhaka- 1000, Bangladesh.

Tel. (8802) 9661940/ 4308 (Off); (8802) 9586070 (Res), Cell: 01710926609

E-mail: professorrafiqulislam@yahoo.co.uk

Fax: (8802) 9667222

5. Permanent Address: Professor Dr. Rafiqul Islam; Flat-88 (PARADISE De SUZZANA), Road-15, Sector-11, Uttara, Dhaka, Bangladesh.

Originally: C/O Late Professor Jahangir Hossain (Brother- Freedom Fighter)

Ex-Principal, Bualmari Govt College, Vill. Kamargram, P.O. & P.S. Bualmari, Dist. Faridpur.

6. Academic career from Matriculation/S.S.C. upto the highest degree:

School/College/ University	Years attended		Name of the Examination & Subject	Division /Class & place
	From	To		
Jhenidah Cadet College	1967	1972	S.S.C.(Science)	1st, Place 10 th in the merit list STAR MARKS*
Jhenidah Cadet College	1972	1974	H.S.C.(Science)	1st, Place 12 th in the merit list STAR MARKS*

Azerbaijan Red Banner Order Institute of Petroleum & Chemistry (Azerbaijan State Oil Academy)	1974	1980	M.S. in Petro-Chemical Engineering & Technology	RED CERTIFICATE HONOURS MARKS CGPA 4.85 out of 5 (First Class First).
Azerbaijan Institute of Petro-Chemical Processes Academy of Sciences	1982	1985 (year of defend)	Ph.D. in Petro-Chemical Engineering	With Highest Credit

7. Experiences:

- ◆ From 13-5-1981 to 24-10-1981: Process Engineer (Ch), Eastern Refinery Ltd. Bangladesh Petroleum Corporation.
- ◆ From 2- 1-1982 to 27-3-1986 : Ph.D. Also worked as Scientist at the Central Research Laboratory of Baku Oil Refinery with special permission from the Azerbaijan Ministry for 3 years from 1982 to 1985, followed by Post-Doctoral Research, carried out at the Azerbaijan Academy of Sciences.
- ◆ From 21-10-1986 to 9-6-1987: Engineer (Process Design) Bangladesh Chemical Industries Corporation (Chittagong Urea Fertilizer Limited).
- ◆ From 11-6-1987 - till date: Assistant Professor, Associate Professor (1992-1997) and Professor (since 1997) at the Dept. of Applied Chemistry & Chemical Engineering, University of Dhaka, Bangladesh.
- ◆ From October 1998- September 1999 – Visiting Professor at the East China University of Science & Technology, Shanghai and was assigned to teach M.S. & Ph.D. students the full course ‘Energy Conversion Engineering & Environment’ in English at the Energy Technology Department of the University.
- ◆ From December 1, 1993 - January 31, 1994: Appointed as Scientist at the German Petroleum Institute for Research, Germany.
- ◆ February 1, 2004- February 1, 2007- Chairman, Dept. of Applied Chemistry & Chemical Engineering, Dhaka University, Bangladesh.
- ◆ January 4, 2010 – till date: In-Charge (Director), Science Workshop, Dhaka University (Additional responsibility)
- ◆ December 10, 2013 – till date: Founder Director, Center for Climate Change Study and Resource Utilization, University of Dhaka (Additional responsibility)
- ◆ November 9, 2014- till January 19, 2017: Dean, Faculty of Engineering & Technology, University of Dhaka.

◆ November 24, 2014 – till January, 23, 2017: Chairman, Department of Nuclear Engineering, University of Dhaka.

◆ From June 15, 2010- till June 15, 2016: Appointed Ambassador Scientist of the Alexander von Humboldt Foundation Germany in Bangladesh

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*Member of the Academic Council of Dhaka University since 1997.

* Member of the Council (Senate Member) of the Military Institute of Science & Technology (MIST)

*Member of the Governing Body (Syndicate Member) of the Military Institute of Science & Technology (MIST)

* Member of the Academic Council of the Military Institute of Science & Technology (MIST)

* Former Member of the Academic Council of Dhaka University of Engineering & Technology

* Member of the Academic Council of BGMEA University of Fashion & Technology (BUFT).

*Director of the Governing Body of the Training Institute for Chemical Industries, BCIC.

* Council Board Member of the Institute of Chemists & Chemical Technologists, Bangladesh

* Expertise Member of Bangladesh Council for Scientific & Industrial Research, BCSIR

* Chairman of the Committee for Petroleum and Petroleum Products of Bangladesh Standard & Testing Institution, BSTI

* Chairman of the special allocation fund Committee for Projects in Engineering & Applied Sciences of the Ministry of Science & Technology, Govt. of Bangladesh.

* Was Country Adviser for the DelPHE (Development Partnership for Higher Education), UK

* Appointed Humboldt Ambassador Scientist in Bangladesh for two terms, effective from June 1, 2010 until June 2016 by the Alexander von Humboldt Foundation of the Federal Republic of Germany.

* President, Bangladesh Association of Commonwealth Scholars And Fellows

* President, Alumni Association of German Universities in Bangladesh.

8. Awards:

***From 1-11-1992 to 30-12-1993: MARIE CURIE BURSARY AWARD**

Worked as EEC Post-Doctoral Research Fellow & Scientist at the German Petroleum Institute for Research. ***Research Project: Technology development for Waste Oil Management.***

***From 27-10-1998 to 26-9-1999: UNESCO- GREAT WALL AWARD**

UNESCO Senior Scholar Fellow & Visiting Professor at the East China University of Science & Technology, Shanghai, P.R. China.

Research Project: Environmental management of Biomass wastes & Environmental friendly fuels from co-liquefaction of coal & biomass.

***From 1.1.2002-31.1.2003 - ALEXANDER VON HUMBOLDT FELLOWSHIP & EUROPE RESEARCH FELLOWSHIP AWARD:**

Alexander von Humboldt Post-Doctoral Research Fellow and Europe Research Fellow at the University of Stuttgart(Germany); Swiss Federal Institute of Technology Zurich, University of Geneva, (Switzerland); Energy Research Centre of the Netherlands.

Research project: Energy Efficiency Improvements in Chemical Industries-Greenhouse Gas Emission Reduction, Techno-Economic Potentials & Policy Instruments.

***From 1.11.2005- 30.4.2006 – COMMONWEALTH ACADEMIC STAFF FELLOWSHIP AWARD**

Commonwealth Academic Staff Fellow at the University of Nottingham, UK.

Research Project: Coal utilization and environmental issues.

***From 1.4.2008-31.8.2008- Visiting Professor, Alexander von Humboldt Follow-up Research Program in Karlsruhe University of Applied Sciences, Germany.**

***From 1.9.2008-30.11.2008- Visiting Professor and Scientist at ITM-CNR, Institute of Membrane Technology, National Research Council of Italy, University of Calabria, Italy.**

***From 16.5.2019-15.11.2019- Visiting Professor & Researcher, Alexander von Humboldt Follow-up Research Program in Karlsruhe University of Applied Sciences, Germany.**

***Incorporated Bio-data in the International Biographical Centre, Cambridge, England and Who's Who in the World.**

9. Member of the following Professional Bodies:

1. Life Member- Bangladesh Chemical Society
2. Life Fellow- Institution of Engineers, Bangladesh
3. Life Member- Asiatic Society of Bangladesh
4. Life Member Bangladesh Association for the Advancement of Science (BAAS)
5. Executive Committee Member, Association of Humboldt Fellows Bangladesh.
6. President, Alumni Association of German Universities in Bangladesh

7. President, Bangladesh Association of Commonwealth Scholars and Fellows
8. Senior Vice-President of the Alumni Association of Applied Chemists & Chemical Engineers.

10. EXPERIENCES as CONSULTANT & Project Head:

Worked as Consultant for EIA of KAFCO- Karnaphuli Fertilizer Company Ltd.

*Worked as National Consultant for the World Bank Project: Develop and apply Sector-Wise Industrial Guidelines and Standards and to Monitor Compliance (IDA Credit 2340-BD), 1996.

*Worked as Team Leader in the Project of DoE, Govt. of Bangladesh “Control & Management of Polythene Shopping Bags in Bangladesh” , 2001.

*Worked as National Consultant for the World Bank Project: Air Pollution Management of Dhaka City, 2001.

* Worked as Researcher in the EU Project “Energy Efficiency Improvement in Chemical Industry- Techno-Economic Potentials & Policy Instruments”, 2002-2003.

* Worked as Project Director in the University Grants Commission UGC Bangladesh Project: “Industrial Wastewater Treatment (from Tannery Industry) by utilization of Algae and Aquatic Plants”, 2010-2011.

* Worked as Project Director in the University Grants Commission UGC Bangladesh Project: “Industrial Wastewater Treatment (from Textile Industry) by utilization of Algae and Aquatic Plants”, 2011-2012.

* Worked as Project Director in the University Grants Commission UGC Bangladesh Project: “Synthesis of folate chitosan coated Fe₃O₄ nanoparticles by thermal decomposition method and study of magnetic induction heating for cancer treatment.”, 2018-2019.

* Worked as Project Head of the Higher Education Quality Enhancement Project of Government of the People’s Republic of Bangladesh and University Grants Commission with support by the World Bank on the Project “Quality Enhancement of Undergraduate and MS Program: Improvement of Teaching Learning at Undergraduate and Master’s Level of the Department of Applied Chemistry and Chemical Engineering, University of Dhaka” 2014 -2017.

*Worked as Country Representative of the International Project : “Sustainable Food Systems under Climate Change in South Asia.”
Funded by the Federal Ministry of Education & Research, Germany from 2017-2019.
Implementing Body: Potsdam Institute for Climate Impact Research, Germany.

******Supervised around 60 Masters Thesis Students and 40 Projects of 4th year Students related to Climate Change in Applied Chemistry & Chemical Engineering, Dept of the University of Dhaka.**

11. Publications in Journals & Proceedings: More than 80 (List attached), mostly on Energy & Environment.

12. Language Proficiency:

Bengali - Mother tongue

English	-	Excellent
Russian	-	Excellent
German	-	Fair
Arabic	-	Read and write

13. REFEREES:

1. Professor Dr.-Ing. Jan Hoinkis, Director, Institute of Applied Sciences, Karlsruhe University of Applied Sciences, Karlsruhe, Germany
E-mail: jan.hoinkis@googlemail.com
2. Emeritus Professor Dr Enrico Drioli, University of Calabria, 87030 RENDE (CS)-ITALY E-mail: e.drioli@itm.cnr.it
3. Professor Dr. AAMS Arefin Siddique, Former Vice-Chancellor, University of Dhaka, Bangladesh. E-mail: aams.arefin@gmail.com
4. Dr. Alberto Figoli,
Director, Institute on Membrane Technology, National Research Council, CNR-ITM Via P. Bucci 17/C, 87036 Rende (CS), Italy. E-mail: a.figoli@itm.cnr.it
5. Emeritus Professor Dr Ainun Nishat. Former Vice-Chancellor, BRAC University, Bangladesh. E-mail: ainunnishat@yahoo.com

LIST OF PUBLICATIONS

1. **Islam Rafiqul**; Yunus Miah; Shikhalizadeh, P.D.; Mekhtiev, S.I.; Guseinova, A.G.
Study on a Siberian petroleum.
J. Neft-i-gaz (Oil & Gas Journal), USSR, 8, 40-42, 1983.
2. **Islam Rafiqul**
Determination of chemical composition of fr. 320-400°C by luminiscent method.
Collection of scientific works on research and purification of oil products and their utilization in oil refineries and petrochemical industries, USSR, 26-27, 1983.
3. **Islam Rafiqul**
Mild hydrotreatment of fr. 320-400°C from Siberian petroleum.
Islam Rafiqul. Paper presented at the 6th Republican Scientific Conference of AZSSR, USSR, and abstracted in the Material of the Conference, 291, 1983.
4. **Islam Rafiqul**; Shikhalizadeh, P.D.; Mekhtiev, S.I.; Guseinova, A.G.
Study of the selective and dissolving capacity of phenol and furfural in refining transformer oil.
J. Azerbaijankoe Neftianno Khojoestvo (Azerbaijan Petroleum Journal), 12, 1984.

5. **Islam Rafiqul;** Mekhtiev, S.I.; Shikhalizadeh, P.D.; Guseinova, A.G.
Carbamide dewaxing for transformer oil production from Siberian petroleum.
J. Azerbaijanckoe Neftiannoe Khojoestvo (Azerbaijan Petroleum Journal), 6, 44-45, 58, 1984.
6. **Islam Rafiqul;** Abilov, A.G.; Dzhafarov, R.P.; Mekhtiev, S.I.; Shikhalizadeh, P.D.; Guseinova, A.G.
Study of hydrotreating of a transformer oil distillate of 320-400°C fractions of Siberian petroleum on Al-Co-Mo and Al-Ni-Mo catalysts by a multifactor experiment planning method.
J. Neft-i-gaz (Oil & Gas Journal), USSR, 8, 46-50, 1984.
7. **Islam Rafiqul;** Mekhtiev, S.I.; Shikhalizadeh, P.D.; Guseinova, A.G.
Group separation from a motor oil distillate fr. 400-480°C of Siberian petroleum.
Azerbaijanski Khimicheski Journal, 4, 113-117, 1984.
8. **Islam Rafiqul;** Shikhalizadeh, P.D; Mekhtiev, S.I.; Guseinova, A.G.
Effect of mild hydrotreatment process on the composition of oil distillate fr. 400-480°C from Siberian petroleum.
J. Neft-i-gaz (Oil & Gas Journal), USSR, 11, 57-58, 1984.
9. **Islam Rafiqul;** Mekhtiev, S.I.; Shikhalizadeh, P.D.; Guseinova, A.G.
Refining of a 400-480°C oil fraction of Siberian petroleum with furfural and phenol.
Azerbaijanski Khimicheski Journal,, 3, 70-74, 1984.
10. **Islam Rafiqul;** Shikhalizadeh, P.D.; Guseinova, A.G.
Hydrotreatment of a motor oil distillate fr. 400-480°C from Siberian petroleum on Al-Ni-Mo and Al-Co-Mo catalysts.
Paper presented at the scientific and Technical Conference on the occasion of 150 years Birthday Celebration of D.I. Mendeleev, held in Academy of Sciences, Azerbaijan, Baku, and abstracted in the Material of the Conference, 113, 1984.
11. **Islam Rafiqul;** Mekhtiev, S.I.; Shikhalizadeh, P.D.; Guseinova, A.G.; Alakhverdiev, A.A.
A Comparative study on the methods of determination of the chemical composition of a transformer oil distillate fr. 400-480°C from Siberian petroleum.
J. Neft-i-gaz (Oil & Gas Journal), USSR, 6, 37-39, 1984.
12. **Islam Rafiqul;** Shikhalizadeh, P.D; Mekhtiev, S.I.; Guseinova, A.G.
Optimization for cold dewaxing of a raffinate from M-6 motor oil, produced from a 400-480°C fraction of Siberian petroleum.
J. Neft-i-gaz (Oil & Gas Journal), USSR, 10, 46-48, 1984.
13. **Islam Rafiqul**
Development of technology for the production of high quality lubricating oils from Siberian petroleum blends .
Synopsis of Ph.D. dissertation, Azerbaijan Institute of Petrochemical Processes, Academy of Sciences, Baku, 1985.
14. **Islam Rafiqul**
Extension of raw materials for the production of high quality transformer oil by refining Siberian petroleum .
Paper presented at the 8th Republican Scientific Conference, AZSSR, USSR, and abstracted in the Material of the Conference, 1985.
15. **Islam Rafiqul;** Mekhtiev, S.I.; Shikhalizadeh, P.D.; Guseinova, A.G.
Production of high index base oil Avtol-6 from Sulfurous Siberian Petroleum with preliminary hydrotreatment of the distillate and without it.
J. Neft-i-gaz (Oil & Gas Journal), USSR, 12, 37-41, 1986.
16. **Islam Rafiqul;** Abilov, A.G.; Jafarov, R.P.; Shikhalizadeh, P.D.; Mekhtiev, S.I.; Guseinova,

- A.G.
Study of mild hydrotreatment process of motor oil distillate fraction 400-480°C of Siberian petroleum on Al-Ni-Mo catalysts
 J. Neft-i-gaz (Oil & Gas Journal), USSR, 9, 50-54, 1988.
17. **Islam Rafiqul**; Shikhalizadeh, P.D; Mekhtiev, S.I.; Guseinova, A.G.
New technology of processing sulfur containing petroleum for obtaining high grade insulating oils.
 J. Bangladesh Academy of Sciences, 15 (2): 89-94, 1991.
18. Manzur, A.; **Islam, Rafiqul**; Kabir, A.Z.; Mustafa, A.I.
Origin of Sylhet-7 (Haripur) crude oil: A study of normal alkane, regular isoprenoid and pentacyclic triterpane distribution patterns.
 J. Bangladesh Chemical Society, 4(2): 231-241, 1991.
19. **Islam Rafiqul**; Manzur A.; Shiraji I.; Sayeed, I.U.; Kabir, A.Z.
Study on Sylhet-7 (Haripur) crude oil and a preliminary recommendation for its processing.
 J. Asiatic Society of Bangladesh, 17 (2): 99-105, 1991.
20. **Islam Rafiqul**; A.I. Mustafa; Dilruba, Huq; A.Z. Kabir and Ahmed, Manzur.
A study on Kailas Tila-2 Crude Oil. J. The Dhaka University studies. Part B, Jan 1993
21. **Islam Rafiqul**
Study on the formation of gas phase during thermal alteration of Petroleum.
 J. Bangladesh Academy of Sciences, 19(1): 97-104, 1995.
22. Hamid, Pahlavan & **Islam Rafiqul**.
Laboratory Simulation of geochemical changes of heavy crude oils during thermal Oil Recovery.
 J. Petroleum Science and Engineering (Elsevier Science B.V., The Netherlands), 12, 219-231, 1995.
23. **Islam Rafiqul**; Ahmed Manzur; A. I. Mustafa; M. A. Ashrif Mahmud; A. Al-Mamun and A. Z. Kabir.
Petroleum extraction by Hydrous Pyrolysis of some selected rock samples from Bengal Basin.
 Journal of the Asiatic Society of Bangladesh (Science), 22(2) : 201-207, 1996.
24. D. A. Hadi; M. Billah; B. K. Farhana and Figoli, A , Hoinkis, J., Criscuoli, A., Franz, C., de Rycke, M., Block, C., Deowan, S.A., **Islam, R.**, Drioli, E.
The removal of arsenic from (ground)-water by adsorbent loaded in polymeric microspheres.
 Journal of Harbin Institute of Technology (New Series), China, ISSN: 10059113, Volume 19, Issue 1, Pages 63-66, 2012.
25. *Chemical Analysis of Precipitation in Dhaka City.*
 Paper presented in the 19th Bangladesh Science Conference of Bangladesh Association for the Advancement of Science in Technical Section-IV and published in the Material of the Conference, 1996.
26. D. A. Hadi; M. Billah; B. K. Farhana and **R. Islam**.
Status of Iron, Copper, Zinc, Lead and Cadmium in precipitation in Dhaka City.
 Paper presented in the 19th Bangladesh Science Conference of Bangladesh Association for the Advancement of Science in Technical Section-IV and published in the Material of the Conference, 1996.
27. A. Z. Kabir; **Islam Rafiqul**; A. I. Mustafa and A. Manzur.
Quantitative Separation of crude Petroleum into main structural types Comparison of three

- analytical techniques.*
The Dhaka University Journal of Science, 45(1): 1-5, 1997.
28. **Islam Rafiqul** *and Iradj Rahimian.
Laboratory Scale Unit design of Hydrotreatment equipment with trickle-bed reactor system and Demonstration by Hydrodenitrogenation experiments using test mixture of model nitrogen compounds.
Journal of Bangladesh Academy of Sciences, 21(1): 19-24 , 1997.
 29. **Islam Rafiqul** and Iradj Rahimian.
Enhancing crude oil flow rate through pipeline using a new drag reducing additive,
The Dhaka University Journal of Science Vol. 45 (2) : 163-167, 1997.
 30. **Islam Rafiqul**; Ahmed Manzur; Abuzar Kabir; A.I. Mustafa.
Chemical Composition of and source related biological Marker compounds in Fenchuganj-2 Oil from Surma Basin.
The Dhaka University Journal of Science Vol. 45 (2) : 139-146, 1997.
 31. D. A. Hadi; M. Billah; B. K. Farhana and **R. Islam.**
Status of some trace elements in precipitation at Savar, Narayanganj, Joydevpur and Tongi.
Paper presented in the 20th Annual Conference of Bangladesh Chemical Society and published in the Material of the Conference, 1997.
 32. D. A. Hadi; S. Banu; M. Billah; A. U. Ahmed and **R. Islam.**
Status of some chemical parameters in surface waters collected at Narayanganj, Bangladesh.
Paper presented in the 20th Annual Conference of Bangladesh Chemical Society and published in the Material of the Conference, 1997.
 33. D. A. Hadi; S. Banu; M. Billah; M. Rahman and **R. Islam.**
Status of some elements in Dry Deposition of Dusts at Dhaka City, Bangladesh.
Paper presented in the 20th Annual Conference of Bangladesh Chemical Society and published in the Material of the Conference, 1997.
 34. D. A. Hadi; M. Billah; B. K. Farhana and **R. Islam.**
Chemical composition of precipitation at Savar, Narayanganj, Joydevpur and Tongi.
Paper presented in the 20th Annual Conference of Bangladesh Chemical Society and published in the Material of the Conference, 1997.
 35. D.A. Hadi; M. Billah; B.K. Farhana and **Islam Rafiqul***
A Study on Chemical Composition of Atmospheric Precipitation at Savar, Joydevpur, Tongi and Narayanganj, Bangladesh.
J. Water, Air and Soil Pollution 111: 377-384, 1999. Kluwer Academic Publishers, The Netherlands.
 36. **Islam Rafiqul**, Bai Lugang, Yongjie Yan, Tingchen Li
*Study on Coliquefaction of Chinese bituminous Coal and Bagasse by Factorial Experiment Design Method .*Journal of Fuel Processing Technology, USA, 1999.
 37. **Islam Rafiqul**, A.N.M.H. Kabir, M.S. Islam.
Water Analysis of Pond Ecosystem and Survival of Vibrios in a Cholera Endemic Area of Bangladesh.

Paper in the Proceedings of the Second International Symposium on Assessing and Managing Health Risk from Drinking Water Contamination: Approaches and Applications, held at Santiago, Chile, 1998.

38. Yong-Jie Yan, Ting-Chen Li and **Islam Rafiqul***
Energy recovery from sawdust by Flash Devolatilization and its Kinetic Behavior.
Paper presented and published in the Proceedings of the 8th Congress of Asian Pacific Confederation of Chemical Engineering, August 16-19, 1999, Seoul, Korea.
39. J. Xu, T.C. Li, Y.J. Yan, Z.W. Ren and **R. Islam***
Kinetic Model for Coliquefaction of Coal and Biomass Waste.
Paper presented and published in the Proceedings of the 10th International Conference on Coal Science, Taiyuan, P.R. China, 1999, P.1175-1178.
40. **Islam Rafiqul,*** Bai Lugang, Yongjie Yan, Tingchen Li
A new direction of producing Environment friendly Fuels – Thermal Liquefaction of rice husk and its Coliquefaction with Coal. Paper published in the Proceedings of the 5th International Conference on Technologies and Combustion for a Clean Environment, Lisbon, 12 – 15 July, 1999.
- 41. Islam Rafiqul,*** Bai Lugang, Yongjie Yan, Tingchen Li
Study on coliquefaction of coal and bagasse by factorial experiment design method, J. Fuel Processing Technology (Elsevier), 2000, 68, 3-12.
- 42. Rafiqul Islam**
Energy efficiency improvements in the chemical industries-techno-economic potentials and policy instruments. Paper presented and abstracted in the Alexander von Humboldt Stiftung/Foundation, Einfuhrungstagung Karlsruhe, Germany, 14-15 February, 2002, p.58.
- 43. Rafiqul Islam**
Bangladesh Petroleum Institute (BPI),
Banglapedia-First National Encyclopedia of Bangladesh, published by Asiatic Society of Bangladesh; Vol. 2, p. 21-22, 2003.
- 44. Rafiqul Islam**
Eastern Refinery Limited,
Banglapedia-First National Encyclopedia of Bangladesh, published by Asiatic Society of Bangladesh; Vol. 3, p. 441, 2003.
- 45. Rafiqul Islam**
Non-renewable Energy, Banglapedia-First National Encyclopedia of Bangladesh, published by Asiatic Society of Bangladesh; Vol. 7, p. 329, 2003.
- 46. Rafiqul Islam**
Petroleum Products, Banglapedia-First National Encyclopedia of Bangladesh, published by Asiatic Society of Bangladesh; Vol. 8, p. 58-59, 2003.
- 47. S. Shahnawaz Ahmed and Rafiqul Islam**
Renewable Energy, Banglapedia-First National Encyclopedia of Bangladesh, published by Asiatic Society of Bangladesh; Vol. 8, p. 394-397, 2003.
- 48. Islam Rafiqul*,** Cristoph Weber, Bianca Lehmann, Alfred Voss
Energy efficiency improvements in ammonia production- perspectives and uncertainties
J. Energy-Elsevier publisher, 30, 2487-2504, 2005.
- 49. A.K. Mallik, M.S. Islam, I. Rafiqul, M.A. Matin and I.K. Zahid**
Bacteriological quality of untreated deep tube well and treated river water of Dhaka city, Bangladesh. Bangladesh Journal of Environ. Sci. Vol.12, No. 1, 64- 67, 2006.
- 50. A.K. Mallik, M.S. Islam, I. Rafiqul, M.A. Matin**
A study on chemical quality assessment of Curzon Hall deep tube well water of Dhaka University. Journal of Science Foundation, Vol.-4, No.1, 2006.

51. A.K. Mallik, M.S. Islam, **I. Rafiqul**, M.A. Matin
Comparative study on chemical parameters of untreated deep tube well and treated. surface water in different supplies of Dhaka city, Bangladesh.
Journal of Science Foundation, Vol.-4, No.1, 2006.
52. Mohammad Alaul Azim, Shamshad Begum Quraishi, **Rafiqul Islam**
Seasonal variation of different water quality parameters in Buriganga and Turag river.
Paper presented in the Bangladesh Chemical Congress (International) 9-11 March, 2007.
53. Mohammad Zakarul Islam, Muhammad Alaul Azim, **Rafiqul Islam**, Shamshad Begum Quraishi
Study on Trace Elements and Micronutrients in water from the Shitalakhma and Balu river and increasing trend of pollution.
Paper presented in the Bangladesh Chemical Congress(International) 9-11 March, 2007.
54. Muhammad Ghiyas Kamal, Muhammad Ali, Muhammad Alaul Azim, **Rafiqul Islam**
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