

CURRICULUM VITAE

MD Kutub Uddin, Ph.D

Professor
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Dr. Uddin is now working as a project director titled “Low grade heat powered cooling system- a green technology toward low carbon society” funded by Bangladesh Climate Change Trust. He also engaged with a collaborative research work with a research team working at the International Institute for Carbon-Neutral Energy Research (I2CNER), Kyushu University, Japan. The interested research areas of Dr. Uddin are: alternative cooling to technology for low carbon society, thermodynamics analysis of adsorption cooling system, development of porous materials considering its application in heat pump cycle. He also have good experienced to study the performance of a new low-GWP refrigerant for domestic air-conditioning system.

Educational/Research Background (Start from the latest one)

Name of university / Institution	Location	Degree	Field	Completion year
International Institute of Carbon Neutral Energy Research, Kyushu University	Fukuoka, Japan	Post-Doc	Air Conditioning and Refrigeration	December 2018
Department of Energy and Environment Engineering, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University	Fukuoka, Japan	Ph.D.	Adsorption Science and adsorption heat pumps	September 2014
Department of Physics, Rajshahi University	Rajshahi, Bangladesh	Master of Science	Solid States Physics (Experimental)	April 2004
Department of Physics, Rajshahi University	Rajshahi, Bangladesh	Bachelor of Science	Theoretical and Experimental Physics	April, 2002
Higher Secondary School, Govt. Gov. Azizul Haque College	Bogra, Bangladesh	H.S.C	Science	1996
Secondary School, Bilchalan Bangabondhu High School	Sirajganj, Bangladesh	S.S.C	Science	1994

Employment (Start from the latest one)

Name of Institution	Location	Position	From - To
Department of Physics, Jagannath University	Dhaka, Bangladesh	Professor	September, 2021 – present
Department of Physics, Jagannath University	Dhaka, Bangladesh	Associate Professor	July, 2017 – August 2021
International Institute of Carbon Neutral Energy Research, Kyushu University	Fukuoka, Japan	Post-Doctoral Research Fellow	September, 2016 – December, 2018

Department of Physics, Jagannath University	Dhaka, Bangladesh	Assistant Professor	June, 2014 – August 2016
International Institute of Carbon Neutral Energy Research, Kyushu University	Fukuoka, Japan	WPI Research Support Staff	May, 2012 – April, 2015
Interdisciplinary Graduate School of Engineering Sciences, Kyushu University	Fukuoka, Japan	Ph.D. Student	October, 2011 – September, 2014
Department of Physics, Jagannath University	Dhaka, Bangladesh	Lecturer	May, 2010 – September, 2011
Department of Natural Science, Stamford University Bangladesh	Dhaka, Bangladesh	Lecturer	March, 2005 – April, 2010
Bangladesh Atomic Energy Commission	Dhaka, Bangladesh	Scientific Officer	November, 2006 – December, 2007

List of Peer Reviewed Publications

1. Ahmed A. Askalany, Kutub Uddin, Bidyut Baran Saha, Muhammad Sultan, Gulio Santory, Water desalination by silica supported ionic liquid: adsorption kinetics and system modeling, *Energy* (October 4, 2021) DOI: doi.org/10.1016/j.energy.2021.122069
2. Kutub Uddin, So Arakaki, Bidyut Baran Saha, Thermodynamic analysis of low-GWP blends to replace R410A for residential building air conditioning applications, *Environmental Science and Pollution Research*, Vol. 28, 2934-2947 (January, 2021) DOI: [10.1007/s11356-020-10656-9](https://doi.org/10.1007/s11356-020-10656-9)
3. Kutub Uddin, Animesh Pal, Bidyut Baran Saha, Improved CO₂ adsorption onto chemically activated spherical phenol resin, *Journal of CO₂ Utilization*, Vol. 41 (2020) 101255 DOI: [10.1016/j.jcou.2020.101255](https://doi.org/10.1016/j.jcou.2020.101255)
4. Mohamed M. Yones, Ibrahim I El-Sharkawy, A. E. Kabeel, Kutub Uddin, Takahiko Miyazaki, Bidyut Baran Saha, Characterization of silica gel-based composites for adsorption cooling applications, *International Journal of Refrigeration* Vol. 118. (2020) 345-353. DOI: [10.1016/j.ijrefrig.2020.04.002](https://doi.org/10.1016/j.ijrefrig.2020.04.002)
5. Animesh Pal, Kutub Uddin, Kyaw Thu, Hyun-sig Kill, Jin Miyawaki, Seong-ho Yoon, Bidyut Baran Saha, A benchmark for CO₂ uptake onto newly synthesized biomass-derived activated carbons, *Journal of Applied Energy*, Vol. 264 (2020) 114720. DOI: [10.1016/j.apenergy.2020.114720](https://doi.org/10.1016/j.apenergy.2020.114720)
6. Kutub Uddin, Animesh Pal, Kyaw Thu, Bidyut Baran Saha, Adsorption of CO₂ and Ethanol by a Spherical Activated Carbon in a Heat Pump. *Journal of Engineering Physics and Thermophysics*, Vol. 92 (2019) 1575–1581, DOI: [10.1007/s10891-019-02076-5](https://doi.org/10.1007/s10891-019-02076-5)
7. Animesh Pal, Kutub Uddin, Kaiser Ahmed Rocky, Kyaw Thu, Bidyut Baran Saha, CO₂ adsorption onto activated carbon-graphene composite for cooling application, *International Journal of Refrigeration* Vol. 106 (2019) 558-569 DOI: [10.1016/j.ijrefrig.2019.04.022](https://doi.org/10.1016/j.ijrefrig.2019.04.022)
8. Bidyut Baran Saha, Kutub Uddin, Animesh Pal, Kyaw Thu, Emerging sorption pairs for heat pump applications- an overview, *JMST Advances*, Vol. 1 (2019) 161-180, DOI: [10.1007/s42791-019-0010-4](https://doi.org/10.1007/s42791-019-0010-4)
9. Animesh Pal, Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, Activated carbon and graphene nanoplatelets based novel composite for performance enhancement of adsorption cooling cycle, *Energy Conversion and Management*, Vol. 180 (2019) 134-148. DOI: [10.1016/j.enconman.2018.10.092](https://doi.org/10.1016/j.enconman.2018.10.092)
10. Mohamed M. Younes, Ibrahim I. El-sharkawy, Abd elanby Kabeel, Kutub Uddin, Animesh Pal, Sourav Mitra, Kyaw Thu, Bidyut Baran Saha, Synthesis and characterization of silica gel composite with

- polymer binders for adsorption cooling applications, *International Journal of Refrigeration*, Vol. 98 (2018) 161-170. DOI: [10.1016/j.ijrefrig.2018.09.003](https://doi.org/10.1016/j.ijrefrig.2018.09.003)
11. M. Matiar Rahman, Animesh Pal, Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, Statistical analysis of optimized isotherm model for Maxsorb III/ethanol and silica gel/water pairs, *Evergreen* Vol. 5(4) (2018) 1-12. DOI: [10.5109/2174852](https://doi.org/10.5109/2174852)
 12. Animesh Pal, Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, Refrigerant progression in terms of environmental impact and performance, *Evergreen*, Vol. 5(2) (2018) 58-66. DOI: [10.5109/1936218](https://doi.org/10.5109/1936218)
 13. Kutub Uddin, Md. Amirul Islam, Sourav Mitra, Jong-boong Lee, Kyaw Thu, Bidyut B. Saha, Shigeru Koyama, Specific heat capacities of carbon-based adsorbents for adsorption heat pump application, *Applied Thermal Engineering*, Vol. 129, (Jan 2018) 117-126. DOI: [10.1016/j.applthermaleng.2017.09.057](https://doi.org/10.1016/j.applthermaleng.2017.09.057)
 14. Asrafusjaman, Kutub Uddin, Galib Hashmi, Md. Abdur Rafiq Akand, Mono-crystalline silicon solar cell fabrication in Bangladesh, *International Journal of Research in Engineering and Technology*, Vol. 5(9) (2016) 169-174, DOI: [10.15623/ijret.2016.0509028](https://doi.org/10.15623/ijret.2016.0509028)
 15. Kutub Uddin, Bidyut B. Saha, Energy saving cooling technology for Bangladesh, *Bangladesh Journal of Physics*, Vol.19 (June 2016).
 16. Kutub Uddin, Monwar Hossain, Study on adsorption cooling system using newly developed adsorbing materials, *Jagannath University Journal of Sciences*, Vol.4(2) (May 2016).
 17. Ibrahim I El-Sharkawy, Kutub Uddin, Takahiko Miyazaki, Shigeru Koyama, Bidyut Baran Saha, Hyun-Sig Kil, Jin Miyawaki, Seong-Ho Yoon, Adsorption of ethanol onto phenol resin based adsorbents for developing next generation cooling systems, *International Journal of Heat and Mass Transfer*, Vol. 81 (Feb 2015) 171-178. DOI: [10.1016/j.ijheatmasstransfer.2014.10.012](https://doi.org/10.1016/j.ijheatmasstransfer.2014.10.012)
 18. M.M. Islam, M.G.M Choudhury, M.M. Rahman, M.K.R. Khan, M. Shahjahan, Kutub Uddin, Nano wall growth and structural, electro-optical characterization of spray pyrolysis cobalt oxide thin films. *International Journal of Thin Films Science and Technology*, Vol. 4 (Jan 2015) 51-58. DOI: [10.12785/ijtfst/040110](https://doi.org/10.12785/ijtfst/040110)
 19. Kutub Uddin, Ibrahim I. El-Sharkawy, Takahiko Miyazaki, Shigeru Koyama, Bidyut B. Saha, Hyun S. Kil, Jin Miyawaki, Seong H. Yoon, Adsorption characteristics of ethanol onto functional activated carbons with controlled oxygen content, *Applied Thermal Engineering*, Vol. 72 (Nov 2014) 211-218 DOI: [10.1016/j.applthermaleng.2014.03.062](https://doi.org/10.1016/j.applthermaleng.2014.03.062)
 20. Ibrahim I El-Sharkawy, Kutub Uddin, Takahiko Miyazaki, Shigeru Koyama, Bidyut Baran Saha, Jin Miyawaki, Seong-Ho Yoon, Adsorption of ethanol onto parent and surface treated activated carbon powders, *International Journal of Heat and Mass Transfer*, Vol.73 (June 2014) 445-455. DOI: [10.1016/j.ijheatmasstransfer.2014.02.046](https://doi.org/10.1016/j.ijheatmasstransfer.2014.02.046)
 21. Kutub Uddin, Ibrahim I. El-Sharkawy, Takahiko Miyazaki, Bidyut B. Saha, Shigeru Koyama, Thermodynamic analysis of adsorption cooling cycle using ethanol-surface treated Maxsorb III pairs, *Evergreen, Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy* Vol.1 (March 2014) 25-31. DOI: [10.5109/1440973](https://doi.org/10.5109/1440973)
 22. Kutub Uddin, Takahiko Miyazaki, Shigeru Koyama and Bidyut Baran Saha, Performance investigation of adsorption- compression hybrid systems, *International Journal of Air-conditioning and Refrigeration*, Vol. 21(4) (Dec 2013) 1350024-36. DOI: [10.1142/S2010132513500247](https://doi.org/10.1142/S2010132513500247)
 23. Ahmed A. Askalany, Bidyut B. Saha, Kutub Uddin, Takahiko Miyazaki, Shigeru Koyama, Kandai Srinivasan and Ibrahim M. Ismail, Adsorption isotherm and heat of adsorption of difluoromethane on activated carbons, *Journal of Chemical Engineering Data*, Vol. 58(10) (Sep 2013) 2828-2834. DOI: [10.1021/je4005678](https://doi.org/10.1021/je4005678)
 24. A.F.M.M. Rahman, M. Shamsuzzaman, M.S. Rahman, Kutub Uddin, S. Yeasmin, G.M. Nazmul Haque, M.M. Akramuzzaman, S.R. Chakraborty, Assessment of Radiological Dose around a 3-MW TRIGA

Mark II Research Reactor, *International Letters of Chemistry, Physics and Astronomy*, Vol. 10(2) (Sep 2013) 65-82. DOI: [10.18052/www.scipress.com/ILCPA.15.183](https://doi.org/10.18052/www.scipress.com/ILCPA.15.183)

25. Kutub Uddin, M.G.M. Choudhury, M.M. Rahman, M.M. Islam; Structural, Optical and Electrical properties of CdO thin films prepared by spray pyrolysis method, *Bangladesh Journal of Physics*. Vol. 7&8 (August 2009) 1-10.
26. M. Shamsuzzaman, A F M M Rahman, Kutub Uddin, Debashis Paul, M.A. Hossain, Abdur Razzaque, M.A. Haque, M.A. Zulquarnain; Radiological dose assessment due to incidental release of ^{131}I around the TRIGA Mark II research reactor, *Bangladesh Journal of Physics*. Vol. 7&8, (August 2009) 43-54.
27. A.F.M.M. Rahman, Kutub Uddin, S. Zaman, T. Rumin and M.S. Rahman, Commissioning of Calibration X-ray Machine in SSDL, *Journal of Jahangirnagar Physics Studies*, Vol.14, (March 2008) 73-85.
28. S. Sharmin, A.F.M.M. Rahman, Kutub Uddin, T. Rumin, M.S. Rahman and S.M.A. Islam, Characteristics of radiation measuring instruments for low energy range (33 keV- 662 keV), *Journal of Jahangirnagar Physics Studies*, Vol.14 (2008) 11-17.
29. M. Moniruzzaman, A.F.M.M. Rahman, Kutub Uddin, T. Rumin, S. Yeasmin, M.A. Hoque and S.M.A. Islam, A study on TLD holders (Local and Standard) at photon beams in the energy range 40 KV X-rays to ^{137}Cs gamma rays, *Journal of Nuclear Science and Applications*, BAEC, Vol.16(1) (Dec 2007) 10-16.
30. M.M. Chand, A.F.M.M. Rahman, Kutub Uddin, T. Rumin, S. Yeasmin, M.M. Rahman and M.M. Akramuzzaman, Radiological Dose Assessment for the Radionuclides ^{90}Sr and ^{137}Cs around the TRIGA Mark II Research Reactor, *Journal of Nuclear Science and Applications*, BAEC, Vol.16(2) (2007) 57-67.

Book Chapter

1. Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, Chapter 14: Low GWP Refrigerants for Energy Conservation and Sustainability, Book: *Advances in Solar Energy Research*, Publisher: [Springer](#) (Jan 2019) 485-517. DOI: [10.1007/978-981-13-3302-6_15](https://doi.org/10.1007/978-981-13-3302-6_15)
2. Animesh Pal, Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, Hyun-Sig Kil , Seong-Ho Yoon, Jin Miyawaki, Synthesis of high grade activated carbons from waste biomass, Reference Module in Materials Science and Materials Engineering, Publisher: [Elsevier](#) (2019). DOI: [10.1016/B978-0-12-803581-8.11341-4](https://doi.org/10.1016/B978-0-12-803581-8.11341-4)
3. Animesh Pal, Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, Hyun-Sig Kil , Seong-Ho Yoon, Jin Miyawaki, Thermophysical and adsorption characteristics of waste biomass-derived activated carbons, Publisher: [Elsevier](#) (2019) DOI: [10.1016/B978-0-12-803581-8.10832-X](https://doi.org/10.1016/B978-0-12-803581-8.10832-X)

Patent

Waste heat driven distributed cold storage and potable water production system

Conference Papers

1. Mehedi Hasan, Kutub Uddin, Low GWP refrigerants for green environment, International Conference on Physics-2020, organized by Bangladesh Physical Society (**Dhaka, Bangladesh**)(2020.03)
2. Aurpon Sen, Shampa Paul, Debasish Paul, Kutub Uddin, Investigations on natural and probable artificial radioactivity in soil, sediment, and water samples collected from the Padma River around Rooppur, Pabna, Bangladesh, International Conference on Physics-2020, organized by Bangladesh Physical Society (**Dhaka, Bangladesh**)(2020.03)
3. Mehedi Hasan, Kutub Uddin, Reduction of total warming equivalent impact (TEWI) from air-conditioning system for low carbon society, Conference on Environmental Solutions for Sustainable Development: Towards Developed Bangladesh (CESSD 2019) (**Dhaka, Bangladesh**) (2019.11)

4. Md. Amirul Islam, Kutub Uddin, Animesh Pal, Kyaw Thu, Nasruddin, M. I. Alhamid, Bidyut Baran Saha, Measurement and Evaluation of the Specific Heat Capacity of Silica Gels for Adsorption Heat Pump Applications, 5th International Conference on Polygeneration (ICP2019) (**Fukuoka, Japan**) (2019.05)
5. Mahbubul Muttakin, Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, Study of an Adsorption Chiller that Incorporates Mass and Heat Recovery Schemes, 5th International Conference on Polygeneration (ICP2019) (**Fukuoka, Japan**) (2019.05)
6. Mahua Jahan Rupa, Amirul Islam, Animesh Pal, Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, Game Theory as a Tool for Improving Operation and Durability of a Central Air Conditioning System, 5th International Conference on Polygeneration (ICP2019) (**Fukuoka, Japan**) (2019.05)
7. Kaiser Ahmed Rocky, Animesh Pal, Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, Development of Thermal Conductive Composite Adsorbents for Cooling Applications, 5th International Conference on Polygeneration (ICP2019) (**Fukuoka, Japan**) (2019.05)
8. Matiar Rahman, Animesh Pal, Mahbubul Muttakin, Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, A Statistical Approach Employing Bootstrap Sample to Determine Optimum, Models for IUPAC Type-I and Type-V Isotherms, 5th International Conference on Polygeneration (ICP2019) (**Fukuoka, Japan**) (2019.05)
9. Tahmid Hasan Rupam, Amirul Islam, Animesh Pal, Kutub Uddin, Kyaw Thu, Bidyut Baran Saha, Adsorption Thermodynamics for Different Adsorbent/Refrigerant Pairs for Cooling Applications, 5th International Conference on Polygeneration (ICP2019) (**Fukuoka, Japan**) (2019.05)
10. Kutub Uddin, Animesh Pal, Kyaw Thu, Bidyut Baran Sala, Adsorption onto spherical activated carbon for heat pump application, *X Minsk International Seminar "Heat Pipes, Heat Pumps, Refrigerators, Power Sources"*, (**Minsk, Belarus**) (2018.09).
11. Mahbubul Muttakin, Animesh Pal, Kutub Uddin, Kyaw Thu, Kazuhide Ito, Baran Bidyut Saha, Experimental Study on the Effect of Adsorbent Height on Adsorption Dynamics, *Proceedings of The 10th International Meeting on Advances in Thermofluids (IMAT)* (**Bali, Indonesia**) (2018.11).
12. Mahbubul Muttakin, Animesh Pal, Kutub Uddin, Kyaw Thu, Kazuhide Ito, Bidyut Baran Saha, Experimental study of adsorption kinetics for activated carbon-CO₂ pair, *Proceedings of 4th International Exchange and Innovation Conference on Engineering & Sciences (IEICES2018)* (**Fukuoka, Japan**) (2018.10).
13. Md. Asrafusjaman, Md. Abdur Rafiq Akand, Mahbubul Hoq, Kutub Uddin, Fabrication process of silicon solar cell in Bangladesh, *International Conference on Physics* (**Dhaka, Bangladesh**) (2016.03)
14. Monwar Hossain, Kutub Uddin, Study on adsorption cooling system using newly developed adsorbent materials, *2nd International Bose Conference* (**Dhaka, Bangladesh**) (2015.12)
15. Kutub Uddin, Takahiko Miyazaki, Bidyut Baran Saha, Shigeru Koyama, Alternative technology for cooling, *International Conference on Green Energy and Technology*, (**Dhaka, Bangladesh**) (2015.09)
16. Kutub Uddin, Ibrahim I. El-Sharkawy, Takahiko Miyazaki, Bidyut Baran Saha, Shigeru Koyama, Thermodynamic analysis of adsorption refrigeration cycles using parent and surface treated Maxsorb III/ethanol pairs, *International Refrigeration and Air Conditioning Conference* (**Purdue, IN, USA**), (2014.07)
17. I.I. El-Sharkawy, Kutub Uddin, T. Miyazaki, B. B. Saha, S. Koyama, S.K. Henninger, Characterization of adsorbent/refrigerant pairs for developing high performance adsorption cooling systems, *The 7th Asian Conference on Refrigeration and Air Conditioning (ACRA2014, Korea)*, (2014.05)
18. Kutub Uddin, Ibrahim I. El-Sharkawy, Takahiko Miyazaki, Bidyut Baran Saha, Shigeru Koyama, Hyun-Sig Kil, Jin Miyawaki, Seong-Ho Yoon, Adsorption of ethanol onto carbon based adsorbents, *11th China-Japan-Korea Joint Symposium on Carbon Saves the Earth (CSE, Nagasaki, Japan)*, (2013.11)

19. Kutub Uddin, T. Miyazaki, S. Koyama, B.B. Saha, H.S. Kil, J. Miyawaki, S.H Yoon, Adsorption kinetics of ethanol onto functional activated carbons with controlled oxygen content, *Innovative Materials for Processes in Energy Systems (IMPRES2013, Fukuoka, Japan)*, (2013.09) p.356-361
20. Ahmed A. Askalany, Bidyut B. Saha, **Kutub Uddin**, Takahiko Miyazaki, Shigeru Koyama, Adsorption isotherms of R134a and R32 onto activated carbons, *14th Cross Straits Symposium on Energy and Environmental Science and Technology (CSS-EEST, Fukuoka, Japan)*, (2013.02) p.147-148
21. Kutub Uddin, Takahiko Miyazaki, Shigeru Koyama and Bidyut Baran Saha, Thermodynamic analysis of HFCs-ethanol subcooler type hybrid refrigeration system, *14th Cross Straits Symposium on Energy and Environmental Science and Technology (CSS-EEST, Fukuoka, Japan, 2013.02)* p.227-228
22. Miyazaki Takahiko, Koyama Shigeru, Kutub Uddin, Dynamic simulation on a mechanical/thermal compression hybrid air-conditioning cycle, *The 6th Asian Conference on Refrigeration and Air Conditioning (ACRA2012, China)*, 2012.08.
23. Kutub Uddin, Takahiko Miyazaki, Shigeru Koyama, Bidyut B. Saha, Hyun S. Kil, Jin Miyawaki, Seong H. Yoon, Adsorption kinetics of ethanol onto hydrogen treated activated carbon, *Japanese Society for Refrigeration and Air-Conditioning Engineers Conference, (JSRAE, Tokyo, Japan)*, (2013.09) p.33-36
24. Kutub Uddin, Takahiko Miyazaki, Shigeru Koyama, Bidyut Baran Saha, Performance analysis of cascade type adsorption and vapor compression hybrid cycle using activated carbon and ethanol pair, *Japanese Society for Refrigeration and Air-Conditioning Engineers Conference, (JSRAE, Hokkaido, Japan)*, (2012.09) p.233-236
25. Animesh Pal, Ibrahim I. El-Sharkawy, Kutub Uddin, Takahiko Miyazaki, Bidyut Baran Saha, Shigeru Koyama, Tomohiro Maruyama, Shinnosuke Maeda, Takashi Nakamura, A study on adsorption of ethanol onto consolidated composite adsorbents for cooling application, *Japanese Society for Refrigeration and Air-Conditioning Engineers Conference (JSRAE, Saga, Japan)* (2014.9)
26. Kutub Uddin, M G M Choudhury, M.M. Rahman, Properties of CdO thin films prepared by spray pyrolysis method, *Fifth ISSS International Conference 2008, (Bangalore, India)* (No. 103, 2008.07) p.24-26
27. Kutub Uddin, S. Zaman, A.F.M.M Rahman, T. Rumin, Attenuation coefficient for shielding materials in Bangladesh measured by X-ray and Gamma ray in the energy reange 33-662 keV, *International Physics Conference, (Dhaka, Bangladesh)*, (X-CP 15 2009.05) p.15-17
28. Kutub Uddin, M G M Choudhury, M.M. Rahman, M M Islam, Structural, Optical and Electrical properties of Ni-CoO thin films prepared by spray pyrolysis method, *International Physics Conference, (Dhaka, Bangladesh)*, (CPP 094, 2009.05) p.15-17,
29. M.M. Islam, M.G.M. Choudhury, M.M. Rahman, Kutub Uddin, Structural, optical and electrical properties of Cobalt Oxides thin films prepared by spray pyrolysis method, *Proceedings of the International Conference on Magnetism and Advanced Materials (ICMAM, Dhaka, Bangladesh 2010.05)*

Supervision of M.Sc. Thesis Work

01. Study on adsorption cooling system using newly developed adsorbing materials (2015)
02. Fabrication of Crystalline Silicon Solar Cell in Bangladesh (2017)
03. Assessment of natural radioactivity levels and associated dose rates in soil, sediment and water samples collected near RNPP, Pabna, Bangladesh (2019)
04. Study the total equivalent warming impact (TEWI) from an air conditioning systems used in Bangladesh (2020)
05. Responding to the risks of global warming from an air-conditioning system (ongoing)
06. Environment friendly adsorption cooling system for Bangladesh (ongoing)

Awards

- Best Poster Award, *International conference on Innovative Materials for Processes in Energy Systems (IMPRES 2013, Fukuoka, Japan)*.
- Best Poster Award, *International Conference on Green Energy and Technology, (ICGET 2015, Bangladesh)*.

Keynote speaker

X Minsk International Seminar “Heat Pipes, Heat Pumps, Refrigerators, Power Sources”, **Minsk, Belarus**, 10–13 September, 2018 on title ‘adsorption onto spherical activated carbon for heat pump application’.

M.Sc. Thesis (2002-2004)

Preparation and characterization of cadmium oxides (CdO) thin films deposited on glass substrate using spray pyrolysis method, under the supervision of Professor Dr. Golam Mawla Choudhury, Department of Physics, University of Rajshahi, Bangladesh.

Ph.D. Thesis (2011-2014)

Study on adsorption characteristics of ethanol onto activated carbons-effect of surface treatment-, under the supervision of Professor Shigeru Koyama, Professor Bidyut B. Saha and Associate Professor Takahiko Miyazaki, Faculty of Engineering Sciences, Kyushu University.

Post-Doctoral Research (2016-2017)

Study on the performance of next-generation refrigerants for domestic air conditioning application. Development of thermally driven adsorption cooling system. Institute of Next Generation Refrigerant Properties (Next-RP), International Institute of Carbon Neutral Energy Research (I2CNER), Kyushu University, Japan

Scopus web address

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Google scholar web address

<https://scholar.google.co.jp/citations?user=wUD6M6EAAA&hl=en>

Workshop

Workshop on *Advanced Oxide Interface*, May 9-12, 2011. The Abdus Salam International Centre for Theoretical Physics (ICTP 2011, Trieste, Italy).

Training

- Faculty Development Program - organized by Centre for Excellence, Stamford University Bangladesh [March 12-April 9, 2005]
- Basic Nuclear Orientation Course 2008, BAEC – organized by Bangladesh Atomic Energy Commission [May 28- August 27, 2008, And achieved grade A⁺]

Membership: Life member, Bangladesh Physical Society [Membership no. LMQ-0213]

Personal Information

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Signature

A handwritten signature in black ink, appearing to be 'Kutub Uddin', written over a horizontal line.

Dr. Md. Kutub Uddin