

Mohammad Pabel Kabir

pabelchem@gmail.com, 803 728 9585
Apt# 3, 620, Heidt Street, Columbia, SC 29205

Education Background

- Georgia State University, Atlanta, GA, USA** Current
Doctor of Philosophy in Biophysical and Computational Chemistry
Thesis title:
- University of South Carolina, Columbia, SC, USA** December 2016
Masters of Science in Organic Chemistry
Thesis title: Cobaltocenium containing polymers: Complexation with organic anion and initial assessment for anion exchange membranes
- University of Dhaka, Dhaka, Bangladesh** October 2012
Masters of Science in Physical Chemistry
Thesis title: Adsorption of Remazol Red (RR) onto chitosan from aqueous solution
- University of Dhaka, Dhaka, Bangladesh** February 2011
Bachelors of Science in Chemistry
Project title: Investigation of the change of surface tension of the mixture of different surfactants at different ratio with survismeter

Research Experience

- Graduate Researcher** August 2014-December 2016
University of South Carolina, Columbia, SC, USA
Department of Chemistry and Bio-chemistry
Advisor: Chuanbing Tang
- Worked on synthesis and applications of cobaltocenium containing polyelectrolytes
 - Worked on alkaline anion exchange membranes for fuel cells (AAEMs)
 - Investigated binding strength of polyelectrolytes toward organic small molecules
- Graduate Researcher** October 2010-May 2012
University of Dhaka, Dhaka, Bangladesh
Advisor: Md. Mufazzal Hossain
- Investigated adsorption of remazol red RR (commercially used in textile industry) onto chitosan from aqueous solution
 - Studied comparative study of adsorption of Remazol Red RR on chitosan and zinc oxide

Work Experience

Teaching Assistant

August 2014-December 2016

University of South Carolina, Columbia, SC, USA

Department of Chemistry and Bio-chemistry

- Instructed Organic I Lab and Organic II Lab, three times a week and Organic I Lab Recitation, once a week for two semesters
- Instructed Organic II Theory Recitation class of 90 students for three semesters
- Conducted office hours to help students understand and solve homework problems
- Prepared and graded homework solutions
- Wrote weekly quizzes, posted solutions online, graded quizzes and exams, kept record of the scores using Excel
- Collaborated with professors and other TA's on course material and grading policies, improving communication skills

Chemistry Teacher

October 2012-May 2013

Gateway International School, Dhaka, Bangladesh

- Instructed O-level and A-level Chemistry, five times a week and one hour each
- Created lesson plans, daily quizzes and term final exams
- Graded papers and performed other administrative duties as needed.
- Managed student behavior in the classroom by invoking approved disciplinary procedures
- Observed and evaluated student's performance and tutored students on an individual basis

Skills

Knowledgeable using the following programs: Mestrenova, Origin, Sigmaplot, Microsoft Office, ChemDraw and SciFinder. Efficient in operating and interpreting data from NMR, IR, FTIR, MS, HPLC, GC, AAS, UV, GPC, DSC, TGA, TEM, SEM, and elemental analysis

Publications

- **Kabir, M. P.;** Islam, M. M.; Masum, S. M.; Hossain, M. M. "Adsorption of remazol red RR onto chitosan from aqueous solution" *Bangladesh J. Sci. Ind. Res.*, **2015**, 49, 111-118
- Yan, Y.; Pageni, P.; **Kabir, M. P.;** Tang, C. "Metalloenium Chemistry and Its Emerging Impact on Synthetic Macromolecular Chemistry" *Synlett*, **2016**, 27, 984- 1005
- Yang, P., Pageni, P., **Kabir, M. P.**, Zhu, T., Tang, C. "Metallocene-Containing Homopolymers and Heterobimetallic Block Copolymers via Photoinduced RAFT Polymerization" *ACS Macro Letters*, **2016**, 5, 1293-1300
- Pageni, P., **Kabir, M. P.**, Yang, P., & Tang, C. "Binding of Cobaltocenium-Containing Polyelectrolytes with Anionic Probes" *Journal of Inorganic and Organometallic Polymers and Materials*, **2017**, 1-10

References

- **Prof. Samer Gozem**, Department of Chemistry, Georgia State University, Atlanta, GA, 30302, Phone: 404-413-5569, sgozem@gsu.edu
- **Prof. Chuangbing Tang**, Department of Chemistry & Bio-Chemistry, University of South Carolina, Columbia, SC, 29208, Phone: 803-777-3628, tang4@mailbox.sc.edu
- **Prof. George A. Handy**, Department of Chemistry & Bio-Chemistry, University of South Carolina, Columbia, SC, 29208, Phone: 803-777-5188, handy@mailbox.sc.edu