Md Abul Kalam, PhD

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Professor of Chemistry; *September 2016-Present*
Texas A&M University-Texarkana

Recently Taught Courses (Past 2 Years)

CHEM 1311: General Chemistry I
CHEM 1312: General Chemistry II
CHEM 2423: Organic Chemistry I
CHEM 2425: Organic Chemistry II
CHEM 351: Physical Chemistry I
CHEM 352: Physical Chemistry II
CHEM 410: Biochemistry I
CHEM 411: Biochemistry II

Education

UNIVERSITY OF CONNECTICUT; Storrs, CT
Ph.D. in Chemistry, 2005
UNIVERSITY OF DHAKA, DHAKA, BANGLADESH
M.Sc. in Physical-Inorganic Chemistry, 1996
B.Sc. (Hons) in Chemistry, 1994

Academic Experience

TEXAS A&M UNIVERSITY- TEXARKANA; Texarkana, TX
Professor of Chemistry, 09/16 to Present
Associate Professor of Chemistry, 09/14 to 08/16

SUL ROSS STATE UNIVERSITY, Alpine, TX
Associate Professor of Chemistry, 09/12 to 08/14
Assistant Professor of Chemistry, 09/07 to 08/12

VANDERBILT UNIVERSITY, Nashville, TN
Post-doctoral Research Fellow, 09/05-08/07

UNIVERSITY OF CONNECTICUT, Storrs, CT
Graduate Teaching Assistant in Chemistry, 01/01 to 05/05

SHAHJALAL UNIVERSITY OF SCIENCE & TECHNOLOGY, Sylhet, Bangladesh
Lecturer/Assistant Professor of Chemistry, 10/96-12/00

Significant Professional Publications (last 5 years)

Effect of light irradiation on esterification of oleic acid with ethanol catalyzed by immobilized *Pseudomonas cepacia* lipase
Ong, H. R., Ganasen, P., **Kalam, M. A.** Ethiraj, B., Mahmud, M. S., Khan M. M. R; The Canadian Journal of Chemical Engineering, **(2019)**, 97, 2876- 2882

Quantum-mechanical calculations of the effects of oxygen-sulfur exchange in dye structure on dye regeneration in dye-sensitized solar cells
Kalam, M. A. and Asaduzzaman M. A.; 72nd Annual Southwestern Regional Meeting of American Chemical Society, November 10-13, **2016** (Abstract ID: 196)

Mescaline Concentrations in Three Principal Tissues of *Lophophora Williamsii* (Cactaceae): Implications for Sustainable Harvesting Practice
Klein, M. T., **Kalam, M. A.**, Trout, K., Fowler, N., Terry, M.; *Haseltonia,* **(2015),** 20, 34-42

Research Interests

- Isolation and Characterization of Biologically Active compounds from plants
- Enzyme Kinetics
- Site-specific DNA Mutagenesis

Future Research

- Determination of the Structural Basis for DNA Mutagenesis by Various adducts