



Curriculum Vitae

Dr. Sabina Yasmin

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CAREER OBJECTIVES

To build my career in research with the help of my education and experiences, honesty, hard-work and innovations and to shape my life and goals in such a way where I can contribute to my country with the help of advance technological approaches

EDUCATIONAL QUALIFICATION

► **PhD in Chemistry**

CHONNAM NATIONAL UNIVERSITY, REPUBLIC OF KOREA

From Sept 2014 to Feb 2018

► **Master of Science in Chemistry**

UNIVERSITY OF DHAKA

Dhaka, Bangladesh

Passing Year 2008 (Held in 2010)

► **Bachelor of Science in Chemistry (4-year integrated)**

UNIVERSITY OF DHAKA

Dhaka, Bangladesh

Passing Year 2007 (Held in 2009)

Job Experience

- Position: Scientific Officer
Institute: Bangladesh Council of Scientific and Industrial Research (BCSIR)
Duration: 03 Feb 2013 – Present

Training

- In-house training on GC-ECD, GC-MS, LC-MS-MS, NMR, HPLC, XRD, ED-XRF, FT-IR, arranged Bangladesh council of scientific and industrial research. Bangladesh.
- A workshop on treatment of water and waste water organized by Institute of Chemists and Chemical Technologists, Bangladesh (ICCTB), Bangladesh Chemical Society (BCS) during 20-22 June 2014.

Selected skills & techniques

- Skilled in environmental and food sample preparation in different techniques to analysis in GC-ECD, LC-MS-MS, GC-MS, NMR and HPLC.
- Have knowledge on laboratory maintenance, Laboratory safety-security works.
- Capable of synthesis of hydrogen fuel cell catalyst by using graphene (2D materials) and electrochemical application for Oxygen reduction reaction (ORR).
- Able to operate X-ray diffractometer (**XRD**), Scanning electron microscope (**SEM**), **FT-IR**.
- Have knowledge transmission electron microscopy (TEM) and particle size analyzed by using Image-J software and origin software.

Computer Skills and competence

- Microsoft word, Excel, Power point, Chem draw, Image j software, origin software and Sigma plot.

Social skills and competences

- Social, communicative and friendly with others.

Languages

- Bengali (native), English (fluent) and Korean (moderate).

Citizenship: Bangladeshi

Date of Birth: 1986.12.31

Publications

- **Sabina Yasmin**, M.S. Ahmed, S. Jeon, Determination of Dopamine by Dual Doped Graphene-Fe₂O₃ in Presence of Ascorbic Acid, Journal of The Electrochemical Society, 162 (14) (2015) B363-B369
- **Sabina Yasmin**, M.S. Ahmed, D. Park S. Jeon, Nitrogen-Doped Graphene-Supported Cobalt Oxide for Sensitive Determination of Dopamine in Presence of High-Level Ascorbic Acid, Journal of The Electrochemical Society, 163 (2016) B491-B498.
- **Sabina Yasmin**, M.S. Ahmed, S. Jeon, Nitrogen-Doped Graphene-Supported Cobalt Oxide Nanocomposite as High-Performance Electrocatalyst for Oxygen Reduction Reaction. Journal of Nanoscience and Nanotechnology. 16 (2016) 1–8,

- **Sabina Yasmin**, M.S. Ahmed, S. Jeon, A noble silver nanoflower on nitrogen doped carbon nanotube for enhanced oxygen reduction reaction. International Journal of Hydrogen Energy, 42 (2017) 1075-1084.
- **Sabina Yasmin**, Y.Joo, S. Jeon, 2,3-diaminopyridine functionalized reduced graphene oxide-supported palladium nanoparticles with high activity for electrocatalytic oxygen reduction reaction. Applied Surface Science 406 (2017) 226–234
- **Sabina Yasmin**, S. Cho, S. Jeon, Electrochemically reduced graphene-oxide supported bimetallic nanoparticles highly efficient for Oxygen Reduction Reaction with excellent methanol tolerance. Applied Surface Science 434 (2018) 905-912.

References

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Director (in-charge)

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