DR. MD. ANAMUL HAQUE

CURRENT PROFILE

✧ Associate Professor
Department of Chemistry, University of Dhaka
Dhaka-1000, Bangladesh; 25.02.2020 to present
Google Scholar Link: https://scholar.google.com/citations?user=80c3avoAAAAJ&hl=en

CONTACT ADDRESS

✧ Department of Chemistry, University of Dhaka, Dhaka-1000
✧ Phone: +88-01718578880; Email: anamul@du.ac.bd

TEACHING/RESEARCH EXPERINECES

✧ Assistant Professor (30.09.2014 to 24.02.2020), Department of Chemistry, Uni. of Dhaka, Dhaka-1000
✧ Visiting Researcher (01.12.2019-29.12.2019), Hokkaido University, Japan.
✧ Visiting Researcher (07.05.2019-29.06.2019), Hokkaido University, Japan.
✧ Visiting Researcher (15.05.2018-30.06.2018), Hokkaido University, Japan and ESPCI, France.
✧ Visiting Researcher (10.10.2017-29.09.2017), Hokkaido University Japan.
✧ JSPS Postdoctoral Research Fellow (06.10.2015-04.10.2017) Hokkaido University Japan.
✧ Lecturer (26.08.2013 to 29.09.2014), Department of Chemistry, University of Dhaka Dhaka-1000.
✧ Lecturer (16.07.2013 to 25.08.2013); Department of Chemistry, Jagannath University, Dhaka-1100.
✧ Postdoctoral Research Fellow (01.12.2011 to 12.07.2013); Hokkaido University, Japan.
✧ Research Fellow (01.10.2008 to 30.09.2011); Hokkaido University, Japan. (Japan Govt. Scholarship)

EDUCATION

✧ **Doctor of Philosophy** (*In Polymer & Material Science*): Hokkaido University, Japan, September 2011.
✧ **Master of Science** (*In Physical Chemistry*): Department of Chemistry, University of Dhaka, Bangladesh, 2007 (***First class 1st***).
✧ **Bachelor of Science** (*In Chemistry*): Department of Chemistry, University of Dhaka, Bangladesh, 2005 (***First class 3rd***).
✧ **H.S.C** (*In Science Group*): Bhurungamari College, Kurigram, June 1999 (*First division with star mark*).
✧ **S.S.C** (*In Science Group*): Sonahat High School, Kurigram, June 1997 (*First division with star mark*).

RESEARCH INTERESTS

✧ Self-assembly structure in polymer gels, Stimuli-sensitive photonic gels, and Mechanics of soft materials and gels, Liquid crystalline gels, Ionic liquid in polymer gels
✧ Removal of textile dyes by hydrogel as recyclable absorber
✧ Electrochemistry of sol-gel transition, Micro-fluidic pressure sensor

PUBLICATIONS

✧ **Total publications: 39**
✧ Original Articles: 31; Reviews: 4; Highlights: 1; Book Chapter: 2, Patent: 1
✧ Abstracts Published in Scientific Meeting: 55
✧ Number of Attended Scientific Conference: ~75
✧ Total Citation: 4600+, h-index: 18, i10-index: 22, Total Impact Factor: ~240

SELECTED PUBLICATIONS

1. M.A. Haque, G. Kamita, T. Kurokawa, K. Tsujii, J.P. Gong. "Unidirectional Alignment of Lamellar Bilayer in Hydrogel: One-Dimensional Swelling, Anisotropic Modulus, and Stress/Strain Tunable Structural Color." *Advanced Materials* 22, 5110-5114, 2010. **I.F = 27**
2. M.A. Haque, T. Kurokawa, G. Kamita, Y. Yue, J.P. Gong. "Rapid and Reversible Tuning of Structural Color of a Hydrogel over the Entire Visible Spectrum by Mechanical Stimulation." *Chemistry of Materials* 23, 5200-5207, 2011. **I.F = 8.5**
3. M.A. Haque, T. Kurokawa, J.P. Gong. "Anisotropic Hydrogel Based on Bilayers: Color, Strength, Toughness, Fatigue Resistance." *Soft Matter*; 8, 8008, 2012. **I.F = 2.9**
4. Y. F. Yue, M.A. Haque, T. Kurokawa, T. Nakajima, J.P. Gong. Lamellar Hydrogels with High Toughness and Ternary Tunable Photonic Stop-Band, *Advanced Materials* 25, 3106-3110, 2013. **I.F = 27**
5. T. L. Sun, T. Kurokawa, S. Kuroda, A.B. Ihsan, T. Akasaki, K. Sato, M.A. Haque, T. Nakajima, J.P. Gong, "Physical Hydrogels Composed of Polyampholytes Demonstrate High Toughness and Viscoelasticity," *Nature Materials*, 12, 932–937, 2013. **I.F = 44**
6. Y. Yue, T. Kurokawa, M. A. Haque, T. Nonoyama, T. Nakajima, I. Kajiwara, J. P. Gong, "Mechano-actuated Ultrafast Full-Colour Switching in Layered Photonic Hydrogels" *Nature Communication*, 5: 4659, 2014. **I.F = 15**
7. M. Ilyas, M. A. Haque, Y. Yue, T. Kurokawa, T. Nakajima, T. Nonoyama, J. P. Gong. Water-Triggered Ductile−Brittle Transition of Anisotropic Lamellar Hydrogels and Effect of Confinement on Polymer Dynamics. *Macromolecules 2017, 50, 8169−8177*. **I.F = 6**
8. M. A. Haque, K. Mito, T. Kurokawa, T. Nakajima, T. Nonoyama, M. Ilyas, J. P. Gong. Tough and Variable-Band-Gap Photonic Hydrogel Displaying Programmable Angle-Dependent Colors. *ACS Omega 2018, 3, 55−62*. **I.F = 4**
9. M. A. Haque, and J. Ping Gong, et.al. Lamellar Bilayer to Fibril Structure Transformation of Tough Photonic Hydrogel under Elongation. *Macromolecules* 2020, 53, 4711 − 4721. **I.F = 6**
10. Y. N. Ye, M. A. Haque, A. Inoue, Y. Katsuyama, T. Kurokawa, J. P. Gong. Flower-like Photonic Hydrogel with Superstructure Induced via Modulated Shear Field. ACS Macro Lett. 2021, 10, 708−713. **I.F = 5**
11. A. Linder, L. Ducloue, M. A. Haque, J. P. Gong, Microfluidic or millifluidic chip comprising a pressure sensing unit usingcolour-switching hydrogels, **EUROPEAN PATENT**, Date of publication: 23.06.2021, Bulletin 2021/25.
12. M. A. Haque, Md Aftab Ali Shaikh, Kawsar Akhtar, Stimuli-Responsive Photonic Hydrogels, Encyclopedia of Materials: Plastic and Polymer, Elsevier Inc. 2022.
13. M. A. Haque, T. Kurokawa, T. Nakajima, G. Kamita, Z. Fatema and J. P. Gong, Surfactant induced bilayer-micelle transition for emergence of functions in anisotropic hydrogel, J. Mater. Chem. B, 2022,10, 8386-8397. **I.F = 6**
14. L. Ducloué, M. A. Haque, M. Goral, M. Ilyas, J. P. Gong, A. Lindner. Color-switching hydrogels as integrated microfluidic pressure sensors. *Scientific Reports* 14:6333, 2024. **I.F = 4.3**
15. M. A. Rahman, M. A. Haque, M. A. A. Shaikh, C. K. Roy, and M. M. Rahman, et.al. Titanium sulfide thin film coated titanium foil for high-performance symmetric supercapacitor. *Journal of Energy Storage* 99:113205, 2024. **I.F = 8.9**

LANGUAGE PROFICIENCY

- ✧ **English:** Excellent in reading, writing, speaking, and listening.
- ✧ **Japanese:** Good in speaking, listening; fair in reading, writing.

PERSONAL PROFILE

- *Permanent Address:* Vill: Bharatercharra, Post: Bangla Sonahat Thana: Bhurungamari, District: Kurigram
- *Fathers name:* Md. Abdur Rahman Mollah
- *Mothers Name:* Begum Nurjahan
- *Date of birth:* 27 February 1982
- *Nationality:* Bangladeshi
- *Marital Status:* Married

SCHOLARSHIPS AND AWARDS

- Junior High School Scholarship in the Talent Pool of the 1st Grade 1994-1996
- Dhaka University Scholarship for Brilliant Results in Bachelor of Science 1st year Final in 2002
- Dhaka University Scholarship for Brilliant Results in Bachelor of Science Final in 2006
- Japan Government Scholarship (MEXT), Japan. October 2008-September 2011
- Postdoctoral Fellowship, Hokkaido University, Japan. December 2011 to July 2013

INTERESTS

- Traveling
- Sports

COUNTRY VISITED

- Japan, China, India, USA, France

REFERENCES

Person 1	**Person 2**
Dr. Md. Aftab Ali Shaikh Chairman, BCSIR Professor, Department of Chemistry University of Dhaka. Tel: +88-09666911463/7178 Mobile: 01725375552 E-mail: aftabshaikh@du.ac.bd	**Dr. Jian Ping Gong** Professor Faculty of Advanced Life Science Hokkaido University, Sapporo, Japan. Tel. & Fax: +81-11-706-9011 E-mail: gong@sci.hokudai.ac.jp

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Dr. Md. Anamul Haque

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