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RESEARCH INTEREST:

Scintillation Detector Development, Gamma Ray Spectroscopy, Particle Physics, Defects Analysis of 2D Materials, Atomic Nuclei Structure Analysis, Plasma Applications, Surface Engineering, Multi-functional Coatings, Nano-materials etc.

JOURNAL PUBLICATIONS:

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- **Md. Shahinur Rahman**, Ulugbek Shaislamov, Jong-Keun Yang, Jong-Kuk Kim, Young Hun Yu, Sooseok Choi and Heon-Ju Lee, “Effects of Electron Beam Irradiation on Tribological and Physico-Chemical Properties of Polyoxymethylene Copolymer (POM-C)”, Nuclear Instruments and Methods In Physics Research Section B, 2016 (**Q1-SCI Indexed Journal**, <http://dx.doi.org/10.1016/j.nimb.2016.10.001>).
 - **Md. Shahinur Rahman**, Heon-Ju Lee, Jong- Keun Yang, Konstantin Lyakhov and Muhammad Athar Uddin, “Study on Wear and Morphological Behavior of Electron Beam Dose Irradiated Polyoxymethylene Copolymer (POM-C)”, RUJSE , ISSN: 2309-0952 and Print: 2408-8803, Vol. 44, November, 2016.
 - **Md. Shahinur Rahman**, Konstantin Lyakhov, Jong- Keun Yang, Muhammad Athar Uddin and Muhammad Sifatul Alam Chowdhury, “ Friction and Structural Responses of Ion Implanted Polyoxymethylene Copolymer (POM-C)”, RUJSE, ISSN: 2309-0952 and Print: 2408-8803, Vol. 44, November, 2016.
 - Muhammad Waqar Ahmed, **Md. Shahinur Rahman**, Sooseok Choi, Ulugbek Shaislamov, Jong-Keun Yang, Rai Suresha, and Heon-Ju Lee, “Measurement of Electron Temperature and Number Density and Their Effects on Reactive Species Formation in a DC Underwater Capillary Discharge”, Appl. Sci. Conver. Technol. 26(5): 118-128 (2017).
 - Lamia Sultana, **Md. Shahinur Rahman** and Rezaul karim, “An Overview of Current Water Supply and Sanitation Status in an Acute Saline Prone Area in Bangladesh (Nuniapara, Paikgacha, Khulna)”, Australian Journal of Science & Technology (AJST), Volume 2, Issue 1, February 2018.
 - Jong Keun Yang, Seung Hyun Kim, Muhammad Waqar Ahmed, Suresh Rai, **Rahman Md. Shahinur** and Heon- Ju Lee, “Study on the Image Correction Using Gray-Level OPC at Optical Maskless Lithography ”, Journal of Research Institute of Advanced Technology, ISSN: 1598-5849, Vol. 26, December, 2015.
 - Lamia Sultana, Sudhakaran M.S.P, **Md. Shahinur Rahman**, Md. Mokter Hossaina, “Plasma Enhanced Dry Reforming of Propane to Syngas Over Ni-CeO₂/γ-Al₂O₃ Catalysts in DBD Reactor”, November 2017 (Under Review- International Journal of Hydrogen Energy).

CONFERENCE PROCEEDINGS:

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- **Md. Shahinur Rahman**, Heon-Ju Lee, Konstantin Lyakhov and Muhammad Athar Uddin, “Friction and Morphological Properties of Ion Implanted Polyoxymethylene Copolymer (POM-C)”, IC4ME2-2016, March 24-25, 2016, Rajshahi University, Bangladesh.
 - **Md. Shahinur Rahman**, Heon-Ju Lee, Konstantin Lyakhov and Muhammad Athar Uddin, “Wear and Morphological Behavior of Electron Beam Dose Irradiated Polyoxymethylene Copolymer (POM-C)”, IC4ME2-2016, March 24-25, 2016, Rajshahi University, Bangladesh.

POSTER PRESENTATIONS:

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- **Md. Shahinur Rahman**, Ulugbek Shaislamov, Jong-Keun Yang, Suresh Rai, Konstantin Lyakhov and Heon Ju Lee, “Deposition of ITO Thin Film for Electrochromic (EC) and Flat Panel Display Applications Using DC magnetron Sputtering Technology ”, ICMAP 2016, September 26-29, 2016, Gyeongju, Korea.
 - **Md. Shahinur RAHMAN** , Heon-Ju LEE, Ulugbek SHAISLAMOV, Jong-Keun YANG and Rai SURESH, “Optimization for Electrical and Structural Properties of Aluminium Thin Films Deposited on Glass by DC Magnetron Sputtering”, IVC-20, August 21-26, 2016, Busan, Korea.
 - Jong-Keun Yang, Rai Suresh , **Rahman Md. Shahinur** and Heon Ju Lee, “Progress of the Laser Development for

Plasma Diagnostics”, KAPRA, July 1, 2016, Korea.

- **Md. Shahinur Rahman** and Heon-Ju Lee, “Tribological and Physico-Chemical Properties of Electron Beam Irradiated Polyoxymethylene Copolymer (POM-C)”, AEPSE 2015, September 20-24, 2015, Jeju, Korea.
- **Md. Shahinur Rahman**, Ulugbek Shaislamov , Jong –Keun Yang, Rai Suresh and Heon- Ju Lee, “Effect of Electron Beam Irradiation on Tribological and Physico-Chemical Properties of Polyoxymethylene (POM)”, CoMMET 2015, July 29-30, 2015, Seoul, Korea.
- Ulugbek Shaislamov, Jong-Keun Yang, **Rahman Md. Shahinur** and Heon-Ju Lee, “Study of Field-Emission Properties of Cu Nanowire Arrays Grown Directly on Cu Substrate”, ISPlasma2015, March 26-31, 2015, Nagoya University, Japan.
- Ulugbek Shaislamov, Jong-Keun Yang, **Rahman Md. Shahinur** and Heon-Ju Lee, “Growth of Vertically Aligned Cu Nanowires for Improved Heat Transfer”, ISPlasma2015, March 26-31, 2015, Nagoya University, Japan.
- Ulugbek Shaislamov, Jong-Keun Yang, **Rahman Md. Shahinur** and Heon-Ju Lee, “Facile Fabrication of Hierarchical Cu/ZnO Nanorod/Nanobranched Photoelectrode for Solar Hydrogen Generation”, ISPlasma2015, March 26-31, 2015, Nagoya University, Japan.
- UlugbekShaislamov, Rai Suresh, **Rahman Md. Shahinur** and Lee Heon-Ju, “Growth of Vertically Aligned Cu Nanowires for Improved Heat transfer”, The 47 th Annual Conference of The KVS, August 18-20, 2014, Korea.
- Suresh Rai, **Rahman Md. Shahinur** and Heon-Ju Lee, “Application of DBD Plasma Treatment on Surface Modification of Stainless Steel Sheet at Atmospheric Pressure”, The 47 th Annual Conference of The KVS, August 18-20, 2014, Korea.
- Muhammad Waqar Ahmed, **Rahman Md. Shahinur** and Lee Heon-Ju, “Underwater DC Discharge for Generating OH Radicals”, The 47 th Annual Conference of The KVS, August 18-20, 2014, Korea.