Biography

kuet



Wahidur Rahman Sajal Assistant Professor Research AreaMaterials Recycling Nanostructured Materials

Education

Master of Science in Materials and Metallurgical Engineering

Bangladesh University of Engineering and Technology (BUET), Bangladesh (2018-2022)

Thesis Title: Thermodynamic Analysis of Caustic Roasting and Investigation of Caustic Roasting-Leaching Parameters of Electric Arc Furnace Dust

Bachelor of Science in Materials and Metallurgical Engineering

Bangladesh University of Engineering and Technology (BUET), Bangladesh (2013-2018) Achievement: Passed with an Honors (CGPA>3.75) **Higher Secondary Certificate**

Shahid Smrity College, Bangladesh (2011-2013) Achievement: General Scholarship

Secondary School Certificate

Maluhar Wazedia Secondary School, Bangladesh (2006-2011) Achievement: Talent Pool Scholarship

Service Records

• Assistant Professor

Department/Section: Materials Science and Engineering

Khulna University of Engineering & Technology(KUET) From 2022-12-15 00:00:00to1970-01-01 06:00:00

Lecturer

Department/Section: Materials Science and Engineering

Khulna University of Engineering & Technology(KUET) From 2019-07-28 00:00:00to2022-12-14 00:00:00

Research Fellow

Department/Section: Materials Science Devision, Pilot Plant and Process Development Centre

Bangladesh Council of Scientific and Industrial Research (BCSIR) From 2019-06-16 00:00:00to2019-07-27 00:00:00

Research Interest

Materials Recycling

Extracted Iron and Zinc from electric arc furnace dust using a combination of pyro and hydrometallurgical route. Systematic thermodynamic caustic-roasting assessments of electric arc furnace dust using thermochemical FactSage software and caustic roasting-leaching experimental investigations were carried out to assess the suitability of this important hybrid process.

Nanostructured Materials

Systhesis Gold(Au) and Silver(Ag) nano particles by co-precipitation method. Immobilized AuNPs and AgNPs using the polydopamine as linker on the magnetic Graphene Oxide. Then I studied its rapid catalysis and recyclability for waste water treatment.