

SK ABDUL KADER MD FARUQUE
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CAREER OBJECTIVE

Seeking an academic position as an fulltime/part time/guest lecturer/ Assistant Professor in the field of Physics. I also aspire to perform research along with teaching under grad courses with an aim towards improvement of personal skillset and be part of a reputed organisation.

EDUCATION

- **Saha Institute of Nuclear Physics, Kolkata**
PhD (Physics)
Thesis title: Study of sputter deposited ZrO₂ thin film on Si under different oxidation and annealing condition
2017
- **IIT Madras**
MSc in Physics
7.5 on Scale 10
2011
- **Presidency College, Kolkata (Calcutta University)**
BSc with Physics(Hons)
60.25%
2009
- **Bagnan High School (WBCHSE)**
Higher Secondary (XII)
83.6%
2005
- **Mugkalyan High School (WBBSE)**
Matriculation (X)
89%
2003

ACHIEVEMENTS & AWARDS

- Qualified UGC NET (LECTURESHIP) June, 2017 with AIR 97
- Awarded Research Fellowship from Department of Atomic Energy (GOI) through SINP Entrance test, 2011
- Qualified JEST, 2011 AIR 213
- Qualified JAM, 2009 AIR 164

AREA OF EXPERTISE

- RF and DC magnetron sputtering, e-beam evaporator and spin coater in clean room environment.
- Differential Scanning Calorimetry (DSC) for thermal analysis.
- Grazing-incidence x-ray diffraction (GIXRD) and reflectivity (XRR), both in laboratory source and synchrotron source (BL-12, INDUS-2, RRCAT, Indore, India), X-ray photoelectron spectroscopy (XPS) and atomic force microscopy (AFM).
- Acquired proficiency in various scientific software packages like MATLAB, ORIGIN, Mathematica, GNUPlot, and Parratt.
- Working Knowledge of Fortran, C and C++, Acquaintance with both Windows and Linux platform

PUBLICATIONS

- Sk AKM Faruque, Shaibal Saha, Debaleen Biswas and Supratic Chakraborty, Development of a linear temperature ramp-based automated system for furnace oxidation of semiconductor wafers. Int. J. Instrumentation Technology, 1 (2015) 259.
- Sk AKM Faruque, Satya R Bhattacharya, Anil K Sinha and Supratic Chakraborty, Study of temperature dependent zirconium silicide phases in Zr/Si structure by differential scanning calorimetry, J. Phys. D: Appl. Phys., 49 (2016) 065102.
- Sk AKM Faruque, Anil K Sinha and Supratic Chakraborty, Oxidation kinetics of ZrO₂ films on Si by differential scanning calorimetry, J. Mat. Sci: Mater. Electron., 27 (2016) 4923.
- Sk AKM Faruque, R P Giri and Supratic Chakraborty, Effect of N₂O ratio on the crystallization temperature of ZrO₂ film deposited on Si by reactive sputtering in Ar/O₂/N₂O plasma, Materials Research Express, 3 (2016) 116406.
- Sk AKM Faruque, Debika Debnathb, Bimalesh Giri, Supratic Chakraborty, Crystal growth kinetics of ultra-thin ZrO₂ film on Si by Differential Scanning Calorimetry, Journal of Crystal Growth, 459 (2017), 38
- Sk AKM Faruque and Supratic Chakraborty, Differential scanning calorimetry in determining kinetics parameter of Si oxidation, AIP Conference Proceedings, 1731 (2016) 070028, Presented at DAE SSPS Symposium, 2015, Amity University, Delhi.

PERSONAL PROFILE

- Date of Birth : 17/08/1986
- Marital Status : Married
- Nationality : Indian
- Known Languages : English, Bengali, Hindi

DECLARATION

I hereby declare that all the above mentioned information given by me is true and correct to the best of my knowledge and belief.

Date : 01/02/2019
Place : Kolkata



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