List of Publications:

(1) Self-assembled nc-Si-QD/a-SiC thin films from Planar ICP-CVD Plasma without \( \text{H}_2 \)-dilution: a combination of wide optical gap, high conductivity and preferred <220> crystallographic orientation, uniquely appropriate for nc-Si solar cells, Debajyoti Das and Debjit Kar, *RSC Adv.* 6 (2016), 3860.


(9) Highly conducting and wide band gap phosphorous doped nc-Si–QD/a-SiC films as n-type window layers for solar cells. Debjit Kar and Debajyoti Das, Accepted in *AIP Conf. Proc.*

(10) Fabrication of double barrier structures in single layer c-Si–QDs/a-SiOx film and realization of energy selective contacts for applications in hot carrier solar cells. Debjit Kar and Debajyoti Das. Communicated (2016).