A New Approach to Compute the Porosity and Surface Roughness of Porous Coated Capillary-Assisted Low Pressure Evaporators

Poovanna Cheppudira Thimmaiah¹, Asish Kumar Panda², Upendra Kumar Pandey³, Claire McCague¹, Pradip Dutta³* and Majid Bahrami¹¹

¹Laboratory for Alternative Energy Conversion (LAEC), School of Mechatronic Systems Engineering, Simon Fraser University, BC, Canada V3T 0A3

²Materials Research Centre (MRC), Indian Institute of Science (IISc), Bangalore, India 560012

³Interdisciplinary Centre for Energy Research (ICER), Indian Institute of Science (IISc), Bangalore, India 560012

¹ Corresponding author
Tel.: +1 (778) 782-8538; Fax: +1 (778) 782-7514.
E-mail addresses pthimmai@sfu.ca (P. Cheppudira Thimmaiah), pradip@mecheng.iisc.ernet.in (P. Dutta), mbahrami@sfu.ca (M. Bahrami).
SEM images of wire flame coating at locations (a) and (b)
SEM images of plasma spray coating at locations (a) and (b)