

## List of Publications

- Lochan Sharma, Rahul Chhibber, (2019), Investigating the physicochemical and thermophysical properties of submerged arc welding fluxes designed using TiO<sub>2</sub>-SiO<sub>2</sub>-MgO and SiO<sub>2</sub>-MgO-Al<sub>2</sub>O<sub>3</sub> flux systems for linepipe steels, *Ceramics International*, 45, 1569-1587.
- Lochan Sharma, Rahul Chhibber, (2019), Design & development of SAW fluxes using CaO-SiO<sub>2</sub>-CaF<sub>2</sub> and CaO-SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> flux systems, *Ceramics International*, (In Press).
- Lochan Sharma, Jagdish Kumar, Rahul Chhibber, (2019), Experimental investigation on high temperature wettability and structural behaviour of SAW fluxes using MgO-TiO<sub>2</sub>-SiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub>-MgO-SiO<sub>2</sub> flux system, *Ceramics International*, (In Press).
- Lochan Sharma, Rahul Chhibber, (2019), Microstructure evolution and electrochemical corrosion behaviour of API X70 pipeline steel in different environments, *International Journal of Pressure Vessels and Piping*, 171, 51-59.
- Lochan Sharma, Rahul Chhibber, (2018), Mechanical properties and hydrogen induced cracking behaviour of API X70 SAW weldments, *International Journal of Pressure Vessels and Piping*, 165, 193-207.
- Lochan Sharma, Rahul Chhibber, (2019), Design and development of submerged arc welding fluxes using TiO<sub>2</sub>-SiO<sub>2</sub>-CaO and SiO<sub>2</sub>-CaO-Al<sub>2</sub>O<sub>3</sub> flux system, *Journal of process Mechanical Engineering*, IMechE part E, 233(4), 739-762.
- Lochan Sharma, Rahul Chhibber, (2019), Design of CaO-SiO<sub>2</sub>-CaF<sub>2</sub> and CaO-SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> based submerged arc fluxes for series of bead on plate pipeline steel welds : Effect on Carbon and Manganese content, Grain size and Microhardness, *Journal of Pressure vessel Technology, Transactions of ASME*, 141, 1-10.
- Lochan Sharma, Rahul Chhibber, (2019), Design of TiO<sub>2</sub>-SiO<sub>2</sub>-MgO and SiO<sub>2</sub>-MgO-Al<sub>2</sub>O<sub>3</sub> based submerged arc fluxes for multi-pass bead on plate linepipe steel welds, *Journal of Pressure vessel Technology, Transactions of ASME*, 141, 1-12.
- Lochan Sharma, Rahul Chhibber, (2019), Effect of Heat Treatment on Mechanical Properties and Corrosion Behaviour of API X70 Linepipe Steel in Different Environments, *Transactions of Indian Institute of Metals*, 72 (1), 93-110.
- Lochan Sharma, Rahul Chhibber, (2019), Design and Development of Submerged Arc Welding Slags Using CaO-SiO<sub>2</sub>-CaF<sub>2</sub> and CaO-SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> System, *Silicon*, 1-11, doi:10.1007/s12633-019-0068-5.
- Lochan Sharma, Rahul Chhibber, (2019), Experimental Investigation of Thermo-Physical properties of SAW slag, *Silicon*, (In Press).