Published Papers

The following research papers based on the work in the thesis have been published / communicated for publication in different journals.

1. Squeeze film based on ferrofluid in curved porous circular plates with various porous structure, *Applied Mathematics* **2(4)** 121-123 (2012), ISSN 2163-1409, DOI: 10.5923 j.am.20120204.04

2. Mathematical modeling of newly designed ferrofluid based slider bearing including effects of porosity, anisotropic permeability, slip velocity at both the ends, and squeeze velocity, *Applied Mathematics* **2(5)** 176-183 (2012), ISSN 2163-1409, DOI: 10.5923 j.am.20120205.05

3. Mathematical analysis of newly designed ferrofluid lubricated double porous layered axially undefined journal bearing with anisotropic permeability, slip velocity and squeeze velocity, *International Journal of Fluid Mechanics Research* **40(5)** 446-454 (2013), ISSN 1064-2277, DOI: 10.1615/InterJFluidMechRes.v40.i5.70

4. Magnetic fluid lubrication of porous pivoted slider bearing with slip and squeeze velocity, *International Journal of Industrial Mathematics* **6(3)** 199-206 (2014), ISSN 2008-5621, Article ID IJIM-00373

5. Mathematical analysis and comparative study of ferrofluid lubricated newly designed squeeze film bearing of different shapes. (Communicated to *Tribology Transactions*)