

Profile Page



Name : Dr A K Tiwari
Designation : Assistant Professor
Department : Chemical Engineering
Qualification : Postdoc Mathematical modelling (MS2Discovery Interdisciplinary Research Institute, Waterloo, Canada)
PhD Chemical Engineering (IIT Kanpur)
M.Tech Chemical Engineering (IIT Kanpur)
B.E Chemical Engineering (Raipur Institute of Technology, Raipur(C.G))
Address : Room No: CE-11, Department of Chemical Engineering
NIT Jalandhar
Jalandhar, Punjab - 144011
Email : tiwaria@nitj.ac.in
Phone : +91-181-2690301 Ext. 2420/+91-9956356951

Research Interests :

Rheology of Non-Newtonian fluids, Micro & Nano-fluidics, modeling of biomedical devices, Nano-scale heat transfer

Other Profile Links :

Google Scholar Link :

Anurag Kumar Tiwari [Click Here](#)[Orcid](#) [Click Here](#)[vidwan](#) [Click Here](#)[ResearchGATE](#) [Click Here](#)[Web of Science](#)
[Click Here](#)

Personal Web Link :

Micro/Nano Scale Transport Process Lab [Click Here](#)

Journal Publications :

Year	Journal	Publication
2019	Particuology 43, 157–170	Pragy Mishra, Anurag Kumar Tiwari, R. P. Chhabra, "Effect of orientation on drag of a cone settling in Bingham plastic fluids"
2018	Journal of Coupled Systems and Multiscale Dynamics	Anurag Kumar Tiwari and Roderick Melnik, "Nonlocal optical response of nanowire-film system: Effect of geometric parameters"
2018	International communication of Heat and Mass Transfer, 93, 34-40	Pragy Mishra, Anurag Kumar Tiwari, R. P. Chhabra, "Effect of orientation on forced convection heat transfer from a heated cone in Bingham plastic fluid",
2016	Journal of Thermophysics and Heat Transfer, 30, 369-378.	Anurag Kumar Tiwari, R. P. Chhabra, "Free convection from a heated semi-circular cylinder in Bingham plastic fluids",

2015	Numerical Heat Transfer part A, 67, 330-356	Anurag Kumar Tiwari, R. P. Chhabra, "Laminar mixed convection in power-law fluids from a heated semi-circular cylinder: Effect of aiding buoyancy"r"
2015	Applied Mathematical Modelling, 39, 7045-7064	Anurag Kumar Tiwari, R. P. Chhabra, "Momentum and heat transfer from a semicircular cylinder in Bingham plastic fluids",
2014	Numerical Heat Transfer part A,65, 780-801	Anurag Kumar Tiwari, R. P. Chhabra, "Effect of orientation on steady laminar free convection heat transfer in power-law fluids from a heated triangular cylinder"
2014	Numerical Heat Transfer part A, 66, 1365-1388	Anurag Kumar Tiwari, R. P. Chhabra, "Momentum and heat transfer characteristics for the flow of power-law fluids over a semi-circular cylinder",
2013	International Journal of Heat and Mass Transfer, 58, 553-567	Anurag Kumar Tiwari, R. P. Chhabra, "Laminar natural convection in powerlaw liquids from a heated semi-circular cylinder with its flat side oriented downward",
2012	Soft Matter,8, 7228-7233.	Abhijit Majumder, Subrata Mondal, Anurag Kumar Tiwari, Animangsu Ghatak and Ashutosh Sharma, "Direction specific adhesion induced by subsurface liquid filled micro-channels"
2010	Journal of Adhesion Science and Technology,24, 2681	Abhijit Majumder, Anurag Kumar Tiwari, K Korada, Animangsu. Ghatak, "Microchannel induced surface bulging of soft elastomeric layer",

Conference Publications :

Year	Conference	Publication
March 23-24, 2019	Advances in Chemical and Environmental Engineering (ACEE-2019), Dr B R Ambedkar National Institute of Technology, Jalandhar-144011, Punjab, INDIA	Jaspinder Kaur, Anurag Kumar Tiwari, Jatinder Kumar Ratan, Natural convection heat transfer from a heated semi-circular cylinder in a circular enclosure: Effect of orientation
June 18-19, 2019	Proceedings of the 6th International Conference of Fluid Flow, Heat and Mass Transfer (FFHMT'19) Ottawa, Canada	Jaspinder Kaur, Anurag Kumar Tiwari, Jatinder Kumar Ratan, Hydrodynamic Study of Power-Law Fluids across Unconfined Semi-Circular Cylinder at Low Reynolds Numbers: Effect of Orientation angle
6-7 January, 2012	6th national symposium on Complex Fluids, IIT Gwahati	A. Chandra, Anurag Kumar Tiwari and R. P. Chhabra, "Effect of non-Newtonian rheology and orientation of fluid flow and heat transfer from a semi-circular cylinder",
29-31 Janauray , 2018	Nano-materials for Energy Conversion and Storage Applications, Pandit Deendayal Petroleum University (PDU), Gandhinagar, Gujarat	Rajesh Vanshpati, Tushar Mishra and A K Tiwari, "Optical response in subnanometer gold nanowires: Shape effect"
27-30 Decemb er, 2018	CHEMCON 2018, NIT Jlandhar, Punjab, India	Jaspinder Kaur, Anurag Kumar Tiwari, Jatinder Kumar Ratan, "Viscoelastic fluid flow over a tilted squar cylinder in creeping flow regime"
27-30 Decemb er, 2018	CHEMCON 2018, NIT Jlandhar, Punjab, India	Nilanjan Dutta, A. K. Tiwari, Renu Gupta, Ajay Bansal, "Forced Convection Heat Transfer From a Blunt Headed Cylinder in Power-law Fluids"
27-30 Decemb er, 2016	CHEMCON 2016, Anna University, Chennai, India	Stephin George, Sana Perween, Parth Samariya and Anurag Kumar Tiwari, "Laminar mixed convection in Bingham plastic fluids from a heated semi-circular cylinder: effect of aiding buoyancy",
22-24 Decemb er, 2014	8th symposium on complex fluids (CompFlu-2014), JNCASR, Bangalore, India	Anoop Kumar Gupta, Anurag Kumar Tiwari and R. P. Chhabra, "Hydrodynamic characteristics of a circular disk oriented normal to flow in yield-stress fluids",

20-25 August, 2017	IV AMMCS International Conference, Waterloo, Ontario, Canada	Anurag Kumar Tiwari and Roderick Melnik "Nonlocal optical response of nanowirefilm system: gap effects",
14-16 Deceber, 2015	8th National Conference on Thermo-physical Properties, MNIT Jaipur	Gayasuddin Mansoori and Anurag Kumar Tiwari "On creeping drag flow of a Bingham Plastic fluid over a semi-circular cylinder: wall effects".
1-3 March, 2013	International Conference on Advancement in Polymeric Materials, CIPET, Lucknow	Anurag Kumar Tiwari, R. P. Chhabra, "Mixed convection heat transfer from a heated triangular cylinder with apex facing upward immersed in power-law fluids",

Events Organized :

Category	Type	Title	Venue	From	To	Designation
IChE Conference	International	CHEMCON 2018	NIT Jalandhar	27-12-2018	30-12-2018	Technical Committee- Coordinating
IChE Conference	International	CHEMCON 2018	NIT Jalandhar	27-12-2018	30-12-2018	Website Committee- Coordinating

Professional Affiliations :

Designation	Organization
Member	Thermo-physical Society of India (TPSI)
Associate member	Indian Institute of Chemical Engineers (IChE)

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Nilanjan Dutta (M.Tech)	Momentum and heat transfer characteristics in power-law fluids	completed	2019	Dr. Renu Gupta
Jaspinder Kaur (PhD)	Momentum and heat transfer characteristics in Nanofluids	current	2018	Dr Jatinder Kumar Ratan
Ankita Sharma (M.Tech)	Momentum and heat transfer characteristics in Bingham plastic fluids	current	2018	Dr Deepak Sahu

Admin. Responsibilities :

Position Held	Organization	From	To
Departmental placement coordinator	Chemical Engineering Department	19-01-18	till now
Departmental Library Coordinator	Chemical Engineering Department	19-01-18	till now
Mass Transfer Lab, Modelling and simulation Lab in charge	Chemical Engineering Department	19-01-18	till now
UG/PG Results Coordinator	Chemical Engineering Department	19-01-18	till now
Departmental Coordinator	TechNITI 2018, NIT Jalandhar	19-01-18	till now
Faculty Coordinator	Literary and Debating, UTKANSH-2018, NITJalandhar	19-01-18	till now
Member	Swachh Bharat Abhiyan, NIT Jalandhar	19-01-18	till now

Award and Honours :

Title	Activity	Given by	Year
4th Venus International Research Awards - VIRA	Young Scientist in Chemical Engineering	Venus International Foundation	2018