

Dr. Abdul Khaliq Rasheed

Position: Research Fellow
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Education:

Ph.D degree, University of Nottingham, Malaysia

Master degree, International Islamic University, Malaysia

Bachelor degree, CAHCET-Anna University, India

Teaching:

Heat and Mass Transfer

Engineering Thermodynamics

Internal Combustion Engine Fundamentals

Brief Employment History:

University of Nottingham, Research Consultant

International Islamic University Malaysia, Research Assistant

Indian Institute of Technology Madras, Project Associate

Research Interests:

Nanoscale Heat Transfer, Nano-tribology, Nanofluids, Graphene Nanolubricants, Energy Storage, Education Management

Selected Publications:

1. Mohammad Khalid, Abdul Khaliq Rasheed, Rashmi Walvekar. Graphene Nanolubricant for Engine Applications. Patent Filing In Progress.

2. A.K. Rasheed, M. Khalid, A. Javeed, W. Rashmi, T.C.S.M. Gupta, A. Chan, Heat Transfer and Tribological Performance of Graphene Nanolubricant in An internal Combustion Engine, *Tribology International*, Volume 103, November 2016, Pages 504-515
3. Abdul Khaliq Rasheed, Mohammad Khalid, Rashmi Walvekar, Thummalapalli Chandra Sekhara Manikyam Gupta and Andrew Chan. Study of Graphene Nanolubricant using Thermogravimetric Analysis. *Journal of Materials Research*, Volume 31, Issue 13, Pages 1939-1946
4. A.K. Rasheed, M. Khalid, W. Rashmi, T.C.S.M. Gupta, A. Chan, Graphene Based Nanofluids and Nanolubricants – Review of Recent Developments, *Renewable and Sustainable Energy Reviews*, Volume 63, September 2016, Pages 346-362
5. Rashmi Walvekar, Faris Ismail, Mohammed Khalid, Abdul Khaliq R. Experimental and Numerical Investigation of Heat Transfer in CNT Nanofluids. 2013 *Journal of Experimental Nanoscience*. 1-19.
6. Abdul Khaliq R, Raed Kafafy, Waleed F. Faris, Hamzah Mohd Salleh. Enhancing the Efficiency of Polymerase Chain Reaction using Graphene Nano-flakes. 2012 *Nanotechnology* 23, 455106
7. Abdul Khaliq R, Sonawane PJ, Sasi BK, Sahu BS, Pradeep T, Das SK, Mahapatra NR. 2010. Enhancement in the efficiency of polymerase chain reaction by TiO₂ nanoparticles: crucial role of enhanced thermal conductivity. *Nanotechnology* 21: 255704 (1-11).
8. CPY Alicia, W Rashmi, M Khalid, AK Rasheed, TCSM Gupta. Synthesis and thermo-physical characterization of graphene based transformer oil. *Journal of Engineering Science and Technology*. EURECA 2015 Special Issue February (2016) 140-152
9. A K. Rasheed, M. Khalid, W. Rashmi and TCSM. Gupta. Thermal and tribological studies of graphene nanolubricants. *International Tribology Conference*, 16th-20th September, 2015. Tokyo, Japan.
10. A K. Rasheed, M. Khalid, W. Rashmi and TCSM. Gupta. Study of graphene nanolubricant using thermogravimetric analysis. *Proceedings of Malaysian International Tribology Conference 2015*. pp. 155-156, November 2015 Penang, Malaysia.
11. Abdul Khaliq Rasheed, Mohammad Khalid, Rashmi Walvekar, TCSM Gupta, T. Saritha, Andrew Chan. Stability and thermal conductivity of graphene nanolubricants. *17th Lubricating Grease Conference*. February 12 – 14, 2015 Mamallapuram, Tamilnadu, India.
12. Abdul Khaliq R, Hamzah Mohd Salleh, Raed Kafafy, Waleed F. Faris. Enhancement of Polymerase Chain Reaction using Graphene Nano-flakes. *International Conference on Biotechnology Engineering*. 17-19 May, 2011. Malaysia. ISBN: 978-983-42978-3-1

13. Abdul Khaliq R, Raed Kafafy, Hamzah Mohd Salleh, Waleed F. Faris. (2012). Effect of graphene nanoflakes on polymerase chain reaction (PCR). International Conference on Nano Science and Technology (ICONSAT-2012), India, Jan, 2012
14. Raed Kafafy, Abdul Khaliq R, Hamzah Mohd Salleh, Waleed F. Faris. (2012). Experimental investigation on thermal conductivity, viscosity and surface tension of graphene nanofluids. International Conference on Nano Science and Technology (ICONSAT-2012), India, Jan, 2012
15. Khaliq et al. The Heat Transfer Effect of Nanoparticles on Polymerase Chain Reaction, Proceedings of The International Conference For Nanotechnology Industries, April 5-7, 2009 King Saud University, Riyadh, Saudi Arabia.