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Research Publications (Journals)	<p>Published:</p> <ol style="list-style-type: none"> 1. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, "Determination of inter-stage idle times in scheduling design of a three stage zero wait batch process". Journal of Applied Sciences 8(9):1706-1712,2008. 2. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, "Scheduling three stage flowshop processes with no intermediate storage using novel matrix approach". Journal of Applied Sciences 8(11):2136-2141,2008. 3. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, "New completion time algorithms for sequence based scheduling in multiproduct batch processes using matrix". Chemical Engineering Research & Design 86: 1167-1181,2008. 4. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, "More on completion time algorithms for intermediate storage tanks in multiproduct batch process scheduling using matrix representation". Industrial & Engineering Chemistry Research 47: 9957-9970,2008. 5. M. Saif Ur Rehman, Ayyaz Muhammad, Amir Shafeeq, M.A. Chughtai, Arshid Mehmood Ali and Farooq Ahmad, "Decolorization of Turquoise Blue Dye by Ozonation, O₃/H₂O₂ and Fenton Processes". Research Journal of Environmental Sciences 2 (5): 310-315, 2008. 6. A. Muhammad, A. Shafeeq, M.A. Butt, Z.H. Rizvi, A. Chughtai and S.Rehman, "Decolorization and removal of COD and BOD from raw and biotreated textile dye bath effluent through advanced oxidation processes(AOPS)". Brazilian Journal of Chemical Engineering 25(3):453-459, 2008 7. Ayyaz Muhammad, M.I. Abdul Mutalib, C.D. Wilfred, T. Murugesan and Amir Shafeeq, "Thermophysical properties of 1-hexyl-3-methyl imidazolium based ionic liquids with tetrafluoroborate, hexafluorophosphate and bis(trifluoromethylsulfonyl)imide anions" Journal of Chemical Thermodynamics 40: 1433-1438, 2008 8. Ayyaz Muhammad, Mohamed I. Abdul Mutalib, Thanabalan Murugesan and Amir Shafeeq, "Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K", Journal of Chemical and Engineering Data 53: 2217-2221, 2008 9. Ayyaz Muhammad, Mohamed I. Abdul Mutalib, Cecilia D. Wilfred, Thanabalan Murugesan and Amir Shafeeq, "Viscosity, Refractive Index, Surface Tension and Thermal Decomposition of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K", Journal of Chemical and Engineering Data 53: 2226-2229, 2008. 10. Ayyaz Muhammad, Mohamed I. Abdul Mutalib, Thanabalan Murugesan and Amir Shafeeq, "Thermophysical Properties of Aqueous Piperazine and Aqueous (N-

	<p>Methyldiethanolamine + Piperazine) Solutions at Temperatures (298.15 to 338.15) K”, Journal of Chemical and Engineering Data 54: 2317–2321, 2009.</p> <ol style="list-style-type: none"> 11. A.Shafeeq, A.Muhammad, R.U.Khan and M.Azam,” Application of heuristics to solve scheduling problems of intermediate transfer policies in multiproduct chemical batch processes”. Journal of Quality and Technology Management, V (1) 67-81,2009. 12. R.U. Khan , M. Saleem and A. Shafeeq, “Vacuum Gas Carburizing with Acetylene - Gas Phase Modeling of a Bench Scale Reactor”, Journal of the Pakistan Institute of Chemical Engineers, Vol.37,25-29, 2009. 13. A.Ijaz, A.Shafeeq, A. Muhammad and S.S. Daood,” Optimized Values for a sieve plate pulsed column for acetic acid, water and kerosene system”. Journal of Quality and Technology Management, VI (1), 119-133,2010. 14. Arshad Ali Anjum, Arshad Chughtai, Amir Shafeeq and Ayyaz Muhammad "Improvement in supply chain management for oil and gas sector using drag reduction theory" Journal of the Pakistan Institute of Chemical Engineers Vol:XXXVIII,49-53,2010. 15. M. Akram, S. Ali, S.A. Shahid, I. Ullah, M. Nadeem, A. Shafeeq "A Study on the after treatments of metallised acid dye on nylon 6, 6 by using reactive fixing agent". Journal of Quality and Technology Management Vol:VIII (I), 29-40,2012 16. Shaukat Ali Shahid, Baber Shahzad, Afshan Naz, Javed Niaz, Ramiza Farrukh, Maria Yaseen, Inam Ullah, Amir Shafeeq "Convenient Synthesis of Ni-Zn Ferrites from Metal Chlorides Articles". Journal of Faculty of Engineering & Technology Vol:19 (1),2012. 17. Arshid M. Ali, Ayaz Muhammad, Amir Shafeeq, Hafiz M. A. Asghar, Syed N. Hussain, Hamid Sattar "Doped Metal Oxide (ZnO) and Photocatalysis: A Review". Journal of Pakistan Institute of Chemical Engineers Vol: 40 (1),11-19,2012. 18. Shaukat Ali Shahid, Maria Yaseen, Muhammad Shahbaz, Abdul Ghaffar, Maryam Liaqat, Shameela Sadaf and Amir Shafeeq “Optimization of Uniform Field of View and Centre Field of View for Intrinsic Uniformity of Hybrid SPECT/CT using Technitium-99m “Journal of Pakistan Institute of Chemical Engineers , Vol 40(1), 115-118, 2012 19. Inam Ullah, Shaukat Ali, Muhammad Asif Hanif, Shaukat Ali Shahid, Muhammad Mushtaq, Amir Shafeeq,” Performance of pretreated antimicrobial agent (AEM-5707) on cotton fabric dyed with reactive dye”,International Journal of Chemical and Biochemical Sciences, Vol. 3,132-135,2013. 20. Amir Shafeeq, Rabya Aslam, Shaukat ali shahid, Ayyaz Muhammad, Aamir Ijaz, Arshid Mehmood Ali,Inam ullah,Muhammad Mushtaq,Umer Rashid,” Poly(vinyl alcohol): An Economical Substitute to Calcium Lignosulphonate for PVC/PET Separation by Froth Flotation” Asian Journal of Chemistry; Vol. 25, No. 13, 7509-7512, 2013. 21. Muhammad Irfan, Tahir Butt, Naz Imtiaz,Naeem Abbas,Rauf Ahmad Khan, Aamir Shafique,”The removal of COD,TSS and colour of black liquor by coagulation-flocculation process at optimized pH, settling and dosing rate”, Arabian Journal of Chemistry (2013) (DOI: 10.1016/j.arabjc.2013.08.007). 22. Aneela Sabir , Atif Islam, Muhammad Shafiq, Amir Shafeeq, Muhammad Taqi Zahid Butt, Nasir M. Ahmad, Khairuddin Sanauallah, Tahir Jamil “Novel polymer matrix composite membrane doped with fumed silica particles for reverse osmosis desalination”, Desaliantion, 368,159-170, (2015). 23. Aneela Sabir, M. Shafiq, Atif Islam, Shahzad M. Khan, Tahir Jamil, M. Taqi Zahid,
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	<p>Amir Shafeeq, Arslan Shehzad, Arshad S. Bhatti, Younas Habib, Saba Behzad, and Sarwat Jabeen “Influence of Polyethylene Glycol 600 on Cellulose Acetate Membranes for Reverse Osmosis Desalination”, <i>Polymers Research Journal</i>, Vol.9, Issue 2, (2015).</p> <p>24. Raziya Nadeem, Amna Iqbal, Muhammad Abid Zia, Farooq Anwar, Shaukat Ali Shahid, Zahed Mahmood, Amir Shafeeq, Naseem Akhtar “ Effect of Cold-Pressing and Soxhlet Extraction on the Physico-Chemical Attributes of Sunflower (<i>Helianthus annuus</i> L.) Seed Oil”, <i>International Journal of Chemical and Biochemical Sciences</i>, Vol.7.41-46,(2015).</p> <p>25. Aneela Sabira, MuhammadShafiq, Atif Islam, Afsheen Sarwar, Muhammad Rizwan Dilshad, Amir Shafeeq, Muhammad Taqi Zahid Butt, Tahir Jamil “Fabrication of tethered carbon nanotubes in cellulose acetate/polyethylene glycol-400 composite membranes for reverse osmosis”, <i>Carbohydrate Polymers</i> 132: 589–597 (2015).</p> <p>26. Aneela Sabir, Muhammad Shafiq, Atif Islam, Faiza Jabeen, Amir Shafeeq, Adnan Ahmad, Muhammad Taqi Zahid Butt, Karl. I. Jacob, Tahir Jamil “Conjugation of silica nano particles with cellulose acetate/polyethylene glycol 300 membrane for reverse osmosis using MgSO₄ solution” <i>Carbohydrate Polymers</i>, 136: 551-559 (2016).</p> <p>27. Aneela Sabir, Wail Falatha, Karl I. Jacob, Muhammad Shafiq, Nafisa Gull, Atif Islam, Muhammad Azeem Munawar, Saba Zia, Shahzad Maqsood Khan, Amir Shafeeq, Muhammad Taqi Zahid Butt, Tahir Jamil “Integrally skinned nano-cellular crosslinked asymmetric thin films infused with PEO-PPO-PEO block copolymer/ZnO-NPs for desalination using sea salt” <i>Materials Chemistry and Physics</i>, http://dx.doi.org/10.1016/j.matchemphys.2016.09.022 (2016).</p>
<p>Dissertations/ Books/Patents</p>	<p>Dissertation</p> <p>1. Amir Shafeeq, “Scheduling Multiproduct Chemical Batch Processes”. <u>PhD Thesis</u>. Universiti Teknologi Petronas, Malaysia 2008.</p> <p>Book Chapter</p> <p>2. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, “A novel matrix approach to determine makespan for zero wait batch processes”. <i>Advances in industrial engineering and operations research</i> published by Springer, 2008, pp 143-153. (ISBN: 978-0-387-74903-7)</p> <p>Book</p> <p>3. Amir Shafeeq, “Multiproduct Batch Process Scheduling” published by VDM Verlag Dr. Müller, May 2011 (ISBN: 978-363935244).</p> <p>4. Patent (Submitted) “Pilot Plant for enhanced recovery of fuels from high density polyethylene (HDPE) ravage material” notified (642/2014) in weekly notification on patents and industrial designs on 19/09/2014 by Intellectual Property Organization (IPO) Government of Pakistan.</p>