

**Publication list - Professor Arun S Mujumdar Post retirement from NUS-August 2013-
November 2016**

**Publications in journals - excludes book chapters,
edited books and conference papers as
well as papers under review.**

Primary affiliation with. McGill University, Montreal, Canada.

Ghasemkhani, H., Keyhani, A., Aghbashlo, M., Rafiee, S., & **Mujumdar, A. S.** (2016). Improving exergetic performance parameters of a rotating-tray air dryer via a simple heat exchanger. *Applied Thermal Engineering*, 94, 13-23.

Ghadi, S., Esmailpour, K., Hosseinalipour, S. M., & **Mujumdar, A.** (2016). Experimental study of formation and development of coherent vortical structures in pulsed turbulent impinging jet. *Experimental Thermal and Fluid Science*, 74, 382-389.

Sasmito, A. P., Kurnia, J. C., Shamim, T., & **Mujumdar, A. S.** (2016). Optimization of an open-cathode polymer electrolyte fuel cells stack utilizing Taguchi method. *Applied Energy*.

Tong, W., Somasundaram, K., Birgersson, E., **Mujumdar, A. S.**, & Yap, C. (2016). Thermo-electrochemical model for forced convection air cooling of a lithium-ion battery module. *Applied Thermal Engineering*, 99, 672-682.

Jiang, H., Zhang, M., Fang, Z., **Mujumdar, A. S.**, & Xu, B. (2016). Effect of different dielectric drying methods on the physic-chemical properties of a starch–water model system. *Food Hydrocolloids*, 52, 192-200.

Xu, P., Sasmito, A. P., Qiu, S., **Mujumdar, A. S.**, Xu, L., & Geng, L. (2016). Heat transfer and entropy generation in air jet impingement on a model rough surface. *International Communications in Heat and Mass Transfer*, 72, 48-56.

Kurnia, J. C., Sasmito, A. P., & **Mujumdar, A. S.** (2016). Potential catalyst savings in heterogeneous gaseous spiral coiled reactor utilizing selective wall coating–A computational study. *Computers & Chemical Engineering*, 88, 59-72.

Kurnia, J. C., Jangam, S. V., Akhtar, S., Sasmito, A. P., & **Mujumdar, A. S.** (2016). Advances in biofuel production from oil palm and palm oil processing wastes: A review. *Biofuel*

Research Journal, 3(1), 332-346.

Kurnia, J. C., Sasmito, A. P., Shamim, T., & **Mujumdar, A. S.** (2016). Numerical investigation of heat transfer and entropy generation of laminar flow in helical tubes with various cross sections. *Applied Thermal Engineering*, 102, 849-860.

Cao, X., Zhang, M., Fang, Z., **Mujumdar, A. S.**, Jiang, H., Qian, H., & Ai, H. (2016). Drying Kinetics and Product Quality of Green Soybean Under Different Microwave Drying Methods. *Drying Technology*, (just-accepted).

Xu, P., Sasmito, A. P., Yu, B., & **Mujumdar, A. S.** (2016). Transport Phenomena and Properties in Treelike Networks. *Applied Mechanics Reviews*, 68(4), 040802.

Sookjitsumran, W., Devahastin, S., **Mujumdar, A. S.**, & Chiewchan, N. (2016). Comparative evaluation of microwave - assisted extraction and preheated solvent extraction of bioactive compounds from a plant material: a case study with cabbages. *International Journal of Food Science & Technology*, 51(11), 2440-2449.

Wang, J., Fang, X. M., **Mujumdar, A. S.**, Qian, J. Y., Zhang, Q., Yang, X. H., ... & Xiao, H. W. (2017). Effect of high-humidity hot air impingement blanching (HHAIB) on drying and quality of red pepper (*Capsicum annuum* L.). *Food Chemistry*, 220, 145-152.

Kurnia, J. C., Sasmito, A. P., Xu, P., **Mujumdar, A.S.** (2016). Performance and Potential Energy Saving of Thermal Dryer with Intermittent Impinging Jet. *Applied Thermal Engineering*. DOI: 10.1016/j.applthermaleng.2016.11.036

Jangam, S.V., **Mujumdar, A.S.**, Adhikari, B. (2016). Drying: Physical and Structural Changes. DOI: 10.1016/B978-0-12-384947-2.00241-5

Cao, X., Zhang, M., Qian, H., & **Mujumdar, A. S.** (2016). Drying based on temperature - detection - assisted control in microwave - assisted pulse - spouted vacuum drying. *Journal of the Science of Food and Agriculture*.

Ju, H. Y., Zhang, Q., **Mujumdar, A. S.**, Fang, X. M., Xiao, H. W., & Gao, Z. J. (2016). Hot-air Drying Kinetics of Yam Slices under Step Change in Relative Humidity. *International Journal of Food Engineering*, 12(8), 783-792.

2015-2016:

Xiao, H. W., **Mujumdar, A. S.**, & Che, L. (2015). Pollution: Uncouple from economy boom. *Nature*, 517(7533), 145-145.

- Mujumdar, A. S.** (2015). Editorial: IDS and Global Drying R&D. *Drying Technology*, 33(1), 1-1.
- Liu, P., **Mujumdar, A. S.**, Zhang, M., & Jiang, H. (2015). Comparison of three blanching treatments on the color and anthocyanin level of the microwave-assisted spouted bed drying of purple flesh sweet potato. *Drying Technology*, 33(1), 66-71.
- Xiao, H. W., **Mujumdar, A. S.**, & Che, L. (2015). Pollution: Uncouple from economy boom. *Nature*, 517(7533), 145-145.
- Tohidi, A., Hosseinalipour, S. M., Shokrpour, M., & **Mujumdar, A. S.** (2015). Heat transfer enhancement utilizing chaotic advection in coiled tube heat exchangers. *Applied Thermal Engineering*, 76, 185-195.
- Mujumdar, A. S.** (2015). Editorial: Academic Research Under Resource-Challenged Conditions. *Drying Technology*, 33(3), 257-257.
- Su, Y., Zhang, M., & **Mujumdar, A. S.** (2015). Recent developments in smart drying technology. *Drying Technology*, 33(3), 260-276.
- Song, C. F., Cui, Z., Jin, G. Y., **Mujumdar, A. S.**, & Yu, J. F. (2015). Effects of four different drying methods on the quality characteristics of peeled litchis (*Litchi chinensis* Sonn.). *Drying Technology*, 33(5), 583-590.
- Mujumdar, A. S.** (2015). Editorial: Role of Global Networking in Research Collaboration. *Drying Technology*, 33(5), 513-513.
- Aghbashlo, M., Hosseinpour, S., & **Mujumdar, A. S.** (2015). Application of Artificial Neural Networks (ANNs) in Drying Technology: A Comprehensive Review. *Drying Technology*, 33(12), 1397-1462.
- Chiewchan, N., **Mujumdar, A. S.**, & Devahastin, S. (2015). Application of drying technology to control aflatoxins in foods and feeds: a review. *Drying Technology*, 33(14), 1700-1707.
- Xiao, H. W., Gao, Z. J., & **Mujumdar, A. S.** (2015). Seafood: Mining shell waste will not be easy. *Nature*, 525(7569), 321-321.
- Mujumdar, A. S.** (2015). Acknowledgment of Referees for Drying Technology (2014–2015). *Drying Technology*, 33(15-16), 2021-2023.
- Mujumdar, A. S.** (2015). Editorial: On the Occasion of the 85th Birthday of Professor Czeslaw Strumillo. *Drying Technology*, 33(6), 633-633.

Kurnia, J. C., Sasmito, A. P., & **Mujumdar, A. S.** (2015). Thermal Performance of Coiled Square Tubes at Large Temperature Differences for Heat Exchanger Application. *Heat Transfer Engineering*, 1-16.

2014-2015:

Wu, Z., Yue, L., Li, Z., Li, J., **Mujumdar, A. S.**, & Rehkopf, J. A. (2015). Pulse Combustion Spray Drying of Egg White: Energy Efficiency and Product Quality. *Food and bioprocess technology*, 8(1), 148-157.

Mujumdar, A. S. (2014). Editorial: Role of R&D in Innovation. *Drying Technology*, 32(1), 1-1.

Mujumdar, A. S. (2014). Editorial: Role of Insight, Oversight, and Foresight in Successful R&D. *Drying Technology*, 32(3), 247-248.

Devahastin, S., & **Mujumdar, A. S.** (2014). Guest Editorial: On the First IDS Held at McGill University in 1978. *Drying Technology*, 32(2), 128-129.

Mujumdar, A. S. (2014). Editorial: 14th Chinese Drying Conference, Changzhou, China, October 2013. *Drying Technology*, 32(2), 127-127.

Mujumdar, A. S. (2014). Proceedings of the First International Drying Symposium McGill University, Montreal, Canada, August 1978 FOREWORD.

Mohammadpour, J., Rajabi-Zargarabadi, M., **Mujumdar, A. S.**, & Ahmadi, H. (2014). Effect of intermittent and sinusoidal pulsed flows on impingement heat transfer from a concave surface. *International Journal of Thermal Sciences*, 76, 118-127.

Mujumdar, A. S. (2014). Editorial: Role of International Collaboration in Effective R&D. *Drying Technology*, 32(4), 373-373.

Lu, Y., Zhang, M., Liu, H., **Mujumdar, A. S.**, Sun, J., & Zheng, D. (2014). Optimization of potato cube drying in a microwave-assisted pulsed spouted bed. *Drying Technology*, 32(8), 960-968.

Mujumdar, A. S. (2014). Editorial: A Historical Perspective on Various Books and Book Series in Drying Edited by Prof. Arun S. Mujumdar. *Drying Technology*, 32(8), 877-878.

Mujumdar, A. S. (2014). Editorial: On Revised and Enhanced Versions of the Handbook of Industrial Drying. *Drying Technology*, 32(7), 755-756.

Mujumdar, A. S. (2014). In Memoriam: Dr. Carl W. Hall, 1924–2014: A Tribute to Dr. Carl W. Hall, Founding Editor of Drying Technology. *Drying Technology*, 32(9), 1003-1004.

- Aghbashlo, M., Sotudeh-Gharebagh, R., Zarghami, R., **Mujumdar, A. S.**, & Mostoufi, N. (2014). Measurement techniques to monitor and control fluidization quality in fluidized bed dryers: A review. *Drying Technology*, 32(9), 1005-1051.
- Jangam, S. V., & **Mujumdar, A. S.** (2014). Heat Pump Assisted Drying Technology—Overview with Focus on Energy, Environment and Product Quality. *Modern Drying Technology, Set*, 121-162.
- Tohidi, A., Hosseinalipour, S. M., Monfared, Z. G., & **Mujumdar, A. S.** (2014). Laminar Heat Transfer Enhancement Utilizing Nanofluids in a Chaotic Flow. *Journal of Heat Transfer*, 136(9), 091704.
- Barrozo, M. A. S., **Mujumdar, A.**, & Freire, J. T. (2014). Air-drying of seeds: A review. *Drying Technology*, 32(10), 1127-1141.
- Mujumdar, A. S.** (2014). Editorial: Vision 2020 for Global Drying R&D. *Drying Technology*, 32(10), 1125-1126.
- Ahmadi, H., Moghari, R. M., Esmailpour, K., & **Mujumdar, A. S.** (2016). Numerical investigation of semi-confined turbulent slot jet impingement on a concave surface using an Al₂O₃-water nanofluid. *Applied Mathematical Modelling*, 40(2), 1110-1125.
- Zolfagharian, M. M., Rajabi-Zargarabadi, M., **Mujumdar, A. S.**, Valipour, M. S., & Asadollahi, M. (2014). Optimization of Turbine Blade Cooling Using Combined Cooling Techniques. *Engineering Applications of Computational Fluid Mechanics*, 8(3), 462.
- Mujumdar, A. S.** (2014). Editorial: Higher Education in Engineering: Need for Paradigm Shift. *Drying Technology*, 32(12), 1397-1397.
- Chen, F., Zhang, M., **Mujumdar, A. S.**, Jiang, H., & Wang, L. (2014). Production of crispy granules of fish: A Comparative Study of Alternate Drying Techniques. *Drying Technology*, 32(12), 1512-1521.
- Shaker, M., Birgersson, E., & **Mujumdar, A. S.** (2014). Extended Maxwell model for the thermal conductivity of nanofluids that accounts for nonlocal heat transfer. *International Journal of Thermal Sciences*, 84, 260-266.
- Freire, F. B., Vieira, G. N., Freire, J. T., & **Mujumdar, A. S.** (2014). Trends in modeling and sensing approaches for drying control. *Drying Technology*, 32(13), 1524-1532.
- Mujumdar, A. S.** (2014). Editorial: Green Innovation. *Drying Technology*, 32(13), 1523-1523.

- Mujumdar, A. S.** (2014). Book Review: Heat Pump Dryers: Theory, Design and Industrial Application, by Odilio Alves-Filho: CRC Press: Boca Raton, FL; Forthcoming in 2015. ISBN 978149871133 (Hardback); 360 pp. *Drying Technology*, 32(13), 1640-1640.
- Hosseinalipour, S. M., Tohidi, A., Mashaei, P. R., & **Mujumdar, A. S.** (2014). Experimental investigation of mixing in a novel continuous chaotic mixer. *Korean Journal of Chemical Engineering*, 31(10), 1757-1765.
- Qi, L. L., Zhang, M., **Mujumdar, A. S.**, Meng, X. Y., & Chen, H. Z. (2014). Comparison of drying characteristics and quality of shiitake mushrooms (*Lentinus edodes*) using different drying methods. *Drying Technology*, 32(15), 1751-1761.
- Mujumdar, A. S.** (2014). Editorial: Outsourcing, Insourcing, and Rightsourcing of R&D. *Drying Technology*, 32(14), 1641-1641.
- Wang, R., Huo, H., Dou, R., Li, Z., & **Mujumdar, A. S.** (2014). Effect of the Inside Placement of Electrically Conductive Beads on Electric Field Uniformity in a Microwave Applicator. *Drying Technology*, 32(16), 1997-2004.
- Mujumdar, A. S.** (2014). Editorial: Food Dehydration R&D at Jiangnan University (JU), Wuxi, Jiangsu, PR China. *Drying Technology*, 32(15), 1741-1741.
- Mohammadpour, J., Zolfagharian, M. M., **Mujumdar, A. S.**, Zargarabadi, M. R., & Abdulhazadeh, M. (2014). Heat transfer under composite arrangement of pulsed and steady turbulent submerged multiple jets impinging on a flat surface. *International Journal of Thermal Sciences*, 86, 139-147.
- Mujumdar, A. S.** (2014). Editorial: Some Perspectives on the International Drying Symposium (IDS) Series. *Drying Technology*, 32(16), 1887-1887.
- 2013.7-2014:**
- Mujumdar, A. S.** (2013). Editorial: On Industry–Academia Interaction: Hallmark of Engineering Research. *Drying Technology*, 31(9), 965-965.
- Mujumdar, A. S.** (2013). Editorial: How Industry May Benefit from Interaction with Academia. *Drying Technology*, 31(10), 1083-1083.
- Yahyaee, A., Esmailpour, K., Hosseinalipour, M., & **Mujumdar, A. S.** (2013). Simulation of drying characteristics of evaporation from a wet particle in a turbulent pulsed opposing jet contactor. *Drying technology*, 31(16), 1994-2006.

- Mujumdar, A. S.** (2013). Editorial: R&D: A Historical Perspective. *Drying Technology*, 31(11), 1191-1191.
- Mujumdar, A. S.** (2013). Editorial: The Role of Art in Innovative R&D. *Drying Technology*, 31(12), 1317-1318.
- Bai, J. W., Sun, D. W., Xiao, H. W., **Mujumdar, A. S.**, & Gao, Z. J. (2013). Novel high-humidity hot air impingement blanching (HHAIB) pretreatment enhances drying kinetics and color attributes of seedless grapes. *Innovative Food Science & Emerging Technologies*, 20, 230-237.
- Adhikari, B., Devahastin, S., & **Mujumdar, A. S.** (2013). Guest Editorial: Special Thematic Issue on Drying of Proteins and Enzymes. *Drying Technology*, 31(13-14), 1439-1440.
- Tohidi, A., Hosseinalipour, S. M., Taheri, P., Nouri, N. M., & **Mujumdar, A. S.** (2013). Chaotic advection induced heat transfer enhancement in a chevron-type plate heat exchanger. *Heat and Mass Transfer*, 49(11), 1535-1548.
- Zhang, C. H., Huang, L. X., Xie, P. J., You, F., Zhang, Y. L., & **Mujumdar, A. S.** (2013). Numerical simulation of a spouted bed using computational fluid dynamics (CFD). *Drying Technology*, 31(15), 1879-1887.
- Sasmito, A. P., Shamim, T., Birgersson, E., & **Mujumdar, A. S.** (2013). Numerical Investigation of Water and Temperature Distributions for Open-Cathode Polymer Electrolyte Fuel Cell Stack With Edge Cooling. *Journal of Fuel Cell Science and Technology*, 10(6), 061003.
- Moghari, R. M., **Mujumdar, A. S.**, Shariat, M., Talebi, F., Sajjadi, S. M., & Akbarinia, A. (2013). Investigation effect of nanoparticle mean diameter on mixed convection Al₂O₃-water nanofluid flow in an annulus by two phase mixture model. *International Communications in Heat and Mass Transfer*, 49, 25-35.
- Mujumdar, A. S.** (2013). Editorial: On Citation Statistics—What Do They Really Mean?. *Drying Technology*, 31(16), 1897-1898.
- Mujumdar, A. S.** (2013). Book Review: Modeling Drying Processes—A Reaction Engineering Approach: Xiao Dong Chen and Aditya Putranto Cambridge University Press: Cambridge, UK; 2013; ISBN: 978-1-107-01210-3 (Hardback), 214 pp. *Drying Technology*, 31(16), 2018-2018.

During August 2013-November 2016 two edited books and 8 book chapters were published.

Additional professional contribution :

Editor-in-Chief, Drying Technology, 16 issues per annum

Founding Chair, IDS, 2014, ADC 2015 and IDS 2016.

Reviewer for journals - about 50 per annum

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