

Publication list of Prof Arun Mujumdar

(January 1, 2014-April 22, 2015)

Journal articles:

1. Tohidi, A., Hosseinalipour, S.M., Shokrpour, M., Mujumdar, A.S. Heat transfer enhancement utilizing chaotic advection in coiled tube heat exchangers(2015) *Applied Thermal Engineering*, 76, pp. 185-195.
2. Show, K.-Y., Lee, D.-J., Mujumdar, A.S. Advances and Challenges on Algae Harvesting and Drying (2015) *Drying Technology*, 33 (4), pp. 386-394.
3. Ahmadi, H., Rajabi-Zargarabadi, M., Mujumdar, A.S., Mohammadpour, J. Numerical modeling of a turbulent semi-confined slot jet impinging on a concave surface (2015) *Thermal Science*, 19 (1), pp. 129-140.
4. Tong, W., Koh, W.Q., Birgersson, E., Mujumdar, A.S., Yap, C. Correlating uncertainties of a lithium-ion battery - A Monte Carlo simulation (2015) *International Journal of Energy Research*, 39 (6), pp. 778-788.
5. Liu, P., Mujumdar, A.S., Zhang, M., Jiang, H. Comparison of Three Blanching Treatments on the Color and Anthocyanin Level of the Microwave-Assisted Spouted Bed Drying of Purple Flesh Sweet Potato (2015) *Drying Technology*, 33 (1), pp. 66-71.
6. Chang, Y.-R., Lee, D.-J., Chang, J.-S., Mujumdar, A.S. Enhancement of Lutein Yield from Coagulated *Chlorella* sp. ESP-6 with Sodium Hypochlorite (2015) *Drying Technology*, 33 (4), pp. 429-433.
7. Su, Y., Zhang, M., Mujumdar, A.S. Recent Developments in Smart Drying Technology (2015) *Drying Technology*, 33 (3), pp. 260-276.
8. Song, C.F., Cui, Z.W., Jin, G.Y., Mujumdar, A.S., Yu, J.F. Effects of Four Different Drying Methods on the Quality Characteristics of Peeled Litchis (*Litchi chinensis* Sonn.) (2015) *Drying Technology*, 33 (5), pp. 583-590.
9. Gao, Y., Zhang, M., Wang, Y., Mujumdar, A.S., Chen, W. Textural and sensory properties of herring (*Clupea harengus*) cubes in Chinese-type paste as affected by prefrying methods (2015) *Journal of Aquatic Food Product Technology*, 24 (2), pp. 179-190.
10. Kurnia, J.C., Sasmito, A.P., Mujumdar, A.S. CFD simulation of methane dispersion and innovative methane management in underground mining faces (2014) *Applied Mathematical Modelling*, 38 (14), pp. 3467-3484.
11. Sasmito, A.P., Kurnia, J.C., Birgersson, E., Mujumdar, A.S. Computational evaluation of thermal management strategies in an underground mine (2014) *Applied Thermal Engineering*, Article in Press.
12. Kurnia, J.C., Sasmito, A.P., Wong, W.Y., Mujumdar, A.S. Prediction and innovative control strategies for oxygen and hazardous gases from diesel emission in underground mines (2014) *Science of the Total Environment*, 481 (1), pp. 317-334.

13. Jiang, H., Zhang, M., Mujumdar, A.S., Lim, R.X. Changes of microwave structure/dielectric properties during microwave freeze-drying process banana chips (2014) *International Journal of Food Science and Technology*, 49 (4), pp. 1142-1148.
14. Gong, Z.-X., Mujumdar, A.S. Process Simulation of Combustion Drying with Simprosys Software (2014) *Drying Technology*, 32 (4), pp. 447-454.
15. Mohan, B., Puqing, J., Sasmito, A.P., Kurnia, J.C., Jangam, S.V., Mujumdar, A.S. Energy-efficient novel heterogeneous gaseous T-junction microreactor design utilizing inlet flow pulsation (2014) *Industrial and Engineering Chemistry Research*, 53 (49), pp. 18699-18710.
16. Tohidi, A., Hosseinalipour, S.M., Monfared, Z.G., Mujumdar, A.S. Laminar heat transfer enhancement utilizing nanofluids in a chaotic flow (2014) *Journal of Heat Transfer*, 136 (9), art. no. 091704.
17. Kurnia, J.C., Sasmito, A.P., Mujumdar, A.S. Dust dispersion and management in underground mining faces (2014) *International Journal of Mining Science and Technology*, 24 (1), pp. 39-44.
18. Roknul, A.S.M., Zhang, M., Mujumdar, A.S., Wang, Y. A Comparative Study of Four Drying Methods on Drying Time and Quality Characteristics of Stem Lettuce Slices (*Lactuca sativa* L.) (2014) *Drying Technology*, 32 (6), pp. 657-666.
19. Wu, Z., Yue, L., Li, Z., Li, J., Mujumdar, A.S., Rehkopf, J.A. Pulse Combustion Spray Drying of Egg White: Energy Efficiency and Product Quality (2014) *Food and Bioprocess Technology*, 8 (1), pp. 148-157.
20. Lu, Y., Zhang, M., Liu, H., Mujumdar, A.S., Sun, J., Zheng, D. Optimization of Potato Cube Drying in a Microwave-Assisted Pulsed Spouted Bed (2014) *Drying Technology*, 32 (8), pp. 960-968.
21. Kurnia, J.C., Sasmito, A.P., Birgersson, E., Shamim, T., Mujumdar, A.S. Evaluation of mass transport performance in heterogeneous gaseous in-plane spiral reactors with various cross-section geometries at fixed cross-section area (2014) *Chemical Engineering and Processing: Process Intensification*, 82, pp. 101-111.
22. Hosseinalipour, S.M., Tohidi, A., Mashaei, P.R., Mujumdar, A.S. Experimental investigation of mixing in a novel continuous chaotic mixer (2014) *Korean Journal of Chemical Engineering*, 31 (10), pp. 1757-1765.
23. Kurnia, J.C., Sasmito, A.P., Mujumdar, A.S. Simulation of a novel intermittent ventilation system for underground mines (2014) *Tunnelling and Underground Space Technology*, 42, pp. 206-215.
24. Zolfagharian, M.M., Rajabi-Zargarabadi, M., Mujumdar, A.S., Valipour, M.S., Asadollahi, M. Optimization of turbine blade cooling using combined cooling techniques (2014) *Engineering Applications of Computational Fluid Mechanics*, 8 (3), pp. 462-475.

25. Shaker, M., Birgersson, E., Mujumdar, A.S. Extended Maxwell model for the thermal conductivity of nanofluids that accounts for nonlocal heat transfer (2014) *International Journal of Thermal Sciences*, 84, pp. 260-266.
26. Mohammadpour, J., Rajabi-Zargarabadi, M., Mujumdar, A.S., Ahmadi, H. Effect of intermittent and sinusoidal pulsed flows on impingement heat transfer from a concave surface (2014) *International Journal of Thermal Sciences*, 76, pp. 118-127.
27. Mohammadpour, J., Zolfagharian, M.M., Mujumdar, A.S., Zargarabadi, M.R., Abdulhazadeh, M. Heat transfer under composite arrangement of pulsed and steady turbulent submerged multiple jets impinging on a flat surface (2014) *International Journal of Thermal Sciences*, 86, pp. 139-147.
28. Aghbashlo, M., Sotudeh-Gharebagh, R., Zarghami, R., Mujumdar, A.S., Mostoufi, N. Measurement Techniques to Monitor and Control Fluidization Quality in Fluidized Bed Dryers: A Review (2014) *Drying Technology*, 32 (9), pp. 1005-1051.
29. Li, R., Huang, L., Zhang, M., Mujumdar, A.S., Wang, Y.C. Freeze Drying of Apple Slices with and without Application of Microwaves (2014) *Drying Technology*, 32 (15), pp. 1769-1776.
30. Mothibe, K.J., Zhang, M., Mujumdar, A.S., Wang, Y.C., Cheng, X. Effects of Ultrasound and Microwave Pretreatments of Apple Before Spouted Bed Drying on Rate of Dehydration and Physical Properties (2014) *Drying Technology*, 32 (15), pp. 1848-1856.
31. Jiang, H., Zhang, M., Mujumdar, A.S., Lim, R.-X. Comparison of drying characteristic and uniformity of banana cubes dried by pulse-spouted microwave vacuum drying, freeze drying and microwave freeze drying (2014) *Journal of the Science of Food and Agriculture*, 94 (9), pp. 1827-1834.
32. Mothibe, K.J., Wang, C.-Y., Mujumdar, A.S., Zhang, M. Microwave-Assisted Pulse-Spouted Vacuum Drying of Apple Cubes (2014) *Drying Technology*, 32 (15), pp. 1762-1768.
33. Wang, Y., Zhang, M., Mujumdar, A.S., Chen, H. Drying and Quality Characteristics of Shredded Squid in an Infrared-Assisted Convective Dryer (2014) *Drying Technology*, 32 (15), pp. 1828-1839.
34. Qi, L.-L., Zhang, M., Mujumdar, A.S., Meng, X.-Y., Chen, H.-Z. Comparison of Drying Characteristics and Quality of Shiitake Mushrooms (*Lentinus edodes*) Using Different Drying Methods (2014) *Drying Technology*, 32 (15), pp. 1751-1761.
35. Chen, F., Zhang, M., Mujumdar, A.S., Jiang, H., Wang, L. Production of Crispy Granules of Fish: A Comparative Study of Alternate Drying Techniques (2014) *Drying Technology*, 32 (12), pp. 1512-1521.
36. Kurnia, J.C., Sasmito, A.P., Mujumdar, A.S. Laminar heat transfer performance of power law fluids in coiled square tube with various

- configurations (2014) *International Communications in Heat and Mass Transfer*, 57, pp. 100-108.
37. Wang, R., Huo, H., Dou, R., Li, Z., Mujumdar, A.S. Effect of the Inside Placement of Electrically Conductive Beads on Electric Field Uniformity in a Microwave Applicator (2014) *Drying Technology*, 32 (16), pp. 1997-2004.
 38. Liu, P., Zhang, M., Mujumdar, A.S. Purple-Fleshed Sweet Potato Cubes Drying in a Microwave-Assisted Spouted Bed Dryer (2014) *Drying Technology*, 32 (15), pp. 1865-1871.
 39. Wang, H., Zhang, M., Mujumdar, A.S. Comparison of Three New Drying Methods for Drying Characteristics and Quality of Shiitake Mushroom (*Lentinus edodes*) (2014) *Drying Technology*, 32 (15), pp. 1791-1802.
 40. Freire, F.B., Vieira, G.N.A., Freire, J.T., Mujumdar, A.S. Trends in Modeling and Sensing Approaches for Drying Control (2014) *Drying Technology*, 32 (13), pp. 1524-1532.

Book chapters:

1. Mujumdar A.S., Law, C.L., Woo, M.W. Effects on sensory and nutritional properties, in *Encyclopedia of Food and Health*, Ed. Caballero B., Finglas P. and Toldrá F., 2015, Accepted.
2. Jangam S.V., Adhikari B., Mujumdar A.S. Drying | Physical and structural changes, in *Encyclopedia of Food and Health*, Ed. Caballero B., Finglas P. and Toldrá F., 2015, Accepted.
3. Law, C.L., Daud, W.R.W., Mujumdar, A.S. 2014. Emerging Drying Technologies for Agricultural Products. In *Introduction to Advanced Food Process Engineering*, J.K. Sahu (ed.), pg. 31-77. CRC Press, Boca Raton.
4. Law, C.L., Chen, H.H., Mujumdar, A.S. 2014. Food Technologies: Drying. In: Motarjemi Y. (ed.) *Encyclopedia of Food Safety*, Volume 3, pp. 156-167. Waltham, MA: Academic Press.
5. Jangam S.V.; Mujumdar A.S. Superheated steam drying, in *Drying Technologies for Foods: Fundamentals and Applications*, Ed. Nema P.K., Kaur B.J. and Mujumdar A.S., 2015.
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7. Mujumdar A.S.; Jangam S.V.; Pikon, J. Drying of coal, in *Handbook of Industrial Drying*, fourth edition, Ed. Mujumdar A.S., 2014.
8. Haque N.; Jangam S.V.; Mujumdar A.S. Life cycle assessment of drying systems, in *Handbook of Industrial Drying*, fourth edition, Ed. Mujumdar A.S., 2014.
9. Gong Z.X.; Jangam S.V.; Mujumdar A.S. Simprosys: Software for dryer calculations, in *Handbook of Industrial Drying*, fourth edition, Ed. Mujumdar A.S., 2014.

Books edited:

1. Nema P.K., Kaur B.J., Mujumdar A.S. *Drying Technologies for Foods: Fundamentals and Applications*, 2015, New India Publishing Agency, New Delhi, India.
2. Mujumdar, A.S. *Handbook of Industrial Drying*, fourth edition, 2014, CRC Press, Taylor and Francis, Boca Raton, FL.
3. Tsotsas, E., Mujumdar, A.S. *Modern Drying Technology*, Volume 5, 2014, Wiley-VCH, Germany.
4. Tsotsas, E., Mujumdar, A.S. *Modern Drying Technology*, Volume 4, 2014, Wiley-VCH, Germany.

Editorials:

1. Mujumdar, A.S. Editorial: IDS and Global Drying R&D (2015) *Drying Technology*, 33 (1), p. 1.
2. Mujumdar, A.S. Editorial: On the Occasion of the 85th Birthday of Professor Czeslaw Strumillo (2015) *Drying Technology*, 33 (6), p. 633.
3. Mujumdar, A.S. Editorial: Academic Research Under Resource-Challenged Conditions (2015) *Drying Technology*, 33 (3), p. 257.
4. Mujumdar, A.S. Editorial: Role of Global Networking in Research Collaboration (2015) *Drying Technology*, 33 (5), p. 513.
5. Tsotsas, E., Mujumdar, A.S. Preface of Volume 1 (2014) *Modern Drying Technology*, 1-4, pp. xv-xx.
6. Tsotsas, E., Mujumdar, A.S. Preface of Volume 4 (2014) *Modern Drying Technology*, 4-4, pp. xv-xviii.
7. Tsotsas, E., Mujumdar, A.S. Series Preface 4 (2014) *Modern Drying Technology*, 4-4, pp. xi-xiv.
8. Tsotsas, E., Mujumdar, A.S. Preface of Volume 3 (2014) *Modern Drying Technology*, 3-4, pp. xvii-xix.
9. Tsotsas, E., Mujumdar, A.S. Preface of Volume 2 (2014) *Modern Drying Technology*, 2-4, pp. xvii-xxii.
10. Tsotsas, E., Mujumdar, A.S. Series Preface 1 (2014) *Modern Drying Technology*, 1-4, pp. xi-xiv.
11. Mujumdar, A.S. Editorial: Leadership in Drying R&D (2014) *Drying Technology*, 32 (5), pp. 495-496.
12. Mujumdar, A.S. Editorial: Role of International Collaboration in Effective R&D (2014) *Drying Technology*, 32 (4), p. 373.
13. Mujumdar, A.S. Editorial: 14th Chinese Drying Conference, Changzhou, China, October 2013 (2014) *Drying Technology*, 32 (2), p. 127.
14. Mujumdar, A.S. Proceedings of the First International Drying Symposium McGill University, Montreal, Canada, August 1978 (2014) *Drying Technology*, 32 (2), pp. 128-129.

15. Mujumdar, A.S. Editorial: On Revised and Enhanced Versions of the Handbook of Industrial Drying (2014) *Drying Technology*, 32 (7), pp. 755-756.
16. Mujumdar, A.S. In Memoriam: Dr. Carl W. Hall, 1924-2014: A Tribute to Dr. Carl W. Hall, Founding Editor of *Drying Technology* (2014) *Drying Technology*, 32 (9), pp. 1003-1004.
17. Mujumdar, A.S. Editorial: Green Innovation (2014) *Drying Technology*, 32 (13), p. 1523.
18. Mujumdar, A.S. Editorial: Vision 2020 for Global Drying R&D (2014) *Drying Technology*, 32 (10), pp. 1125-1126.
19. Mujumdar, A.S. Editorial: Some Perspectives on the International Drying Symposium (IDS) Series (2014) *Drying Technology*, 32 (16), p. 1887.
20. Mujumdar, A.S. Editorial: Outsourcing, Insourcing, and Rightsourcing of R&D (2014) *Drying Technology*, 32 (14), p. 1641.
21. Mujumdar, A.S. Editorial: The Making of the Handbook of Industrial Drying (2014) *Drying Technology*, 32 (6), pp. 627-628.
22. Mujumdar, A.S. Editorial: Food Dehydration R&D at Jiangnan University (JU), Wuxi, Jiangsu, P.R. China (2014) *Drying Technology*, 32 (15), p. 1741.
23. Mujumdar, A.S. Editorial: A Historical Perspective on Various Books and Book Series in Drying Edited by Prof. Arun S. Mujumdar (2014) *Drying Technology*, 32 (8), pp. 877-878.
24. Mujumdar, A.S. Editorial: Higher Education in Engineering: Need for Paradigm Shift (2014) *Drying Technology*, 32 (12), p. 1397.
25. Mujumdar, A.S. Editorial: Role of R&D in Innovation (2014) *Drying Technology*, 32 (1), p. 1.
26. Mujumdar, A.S. Editorial: Role of Insight, Oversight, and Foresight in Successful R&D (2014) *Drying Technology*, 32 (3), pp. 247-248.

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