

Publications list (Partial) of Professor Arun S. Mujumdar

Jan 2012 – April 2016

No	Publication	Citation	Year
1	Effect of different dielectric drying methods on the physico-chemical properties of a starch–water model system. Jiang, H., Zhang, M., Fang, Z., Mujumdar, A. S. , & Xu, B <i>Food Hydrocolloids</i> , 52, 192-200.		2016
2	Numerical investigation of heat transfer and entropy generation of laminar flow in helical tubes with various cross sections. Kurnia, J. C., Sasmito, A. P., Shamim, T., & Mujumdar, A. S. <i>Applied Thermal Engineering</i> , 102, 849-860.		2016
3	Potential catalyst savings in heterogeneous gaseous spiral coiled reactor utilizing selective wall coating–A computational study JC Kurnia, AP Sasmito, AS Mujumdar <i>Computers & Chemical Engineering</i> 88, 59-72		2016
4	Heat transfer and entropy generation in air jet impingement on a model rough surface P Xu, AP Sasmito, S Qiu, AS Mujumdar , L Xu, L Geng <i>International Communications in Heat and Mass Transfer</i> 72, 48-56		2016
5	Advances in biofuel production from oil palm and palm oil processing wastes: A review JC Kurnia, SV Jangam, S Akhtar, AP Sasmito, AS Mujumdar <i>Biofuel Research Journal</i> 3 (1), 332-346		2016
6	Improving exergetic performance parameters of a rotating-tray air dryer via a simple heat exchanger H Ghasemkhani, A Keyhani, M Aghbashlo, S Rafiee, AS Mujumdar <i>Applied Thermal Engineering</i> 94, 13-23	1	2016
7	Thermo-electrochemical model for forced convection air cooling of a lithium-ion battery module W Tong, K Somasundaram, E Birgersson, AS Mujumdar , C Yap <i>Applied Thermal Engineering</i>		2016
8	Numerical investigation of semi-confined turbulent slot jet impingement on a concave surface using an Al ₂ O ₃ –water		2016

	nanofluid H Ahmadi, RM Moghari, K Esmailpour, AS Mujumdar Applied Mathematical Modelling 40 (2), 1110-1125		
9	Optimization of an open-cathode polymer electrolyte fuel cells stack utilizing Taguchi method AP Sasmito, JC Kurnia, T Shamim, AS Mujumdar Applied Energy		2016
10	Pollution: uncouple from economy Xiao Hong-Wei, Mujumdar, A.S. , Che Liming Nature, 517, 145	2	2015
11	Mining shell waste will not be easy. Xiao Hong-Wei, Gao Zhen-Jiang, Mujumdar, A.S. Nature, 525, 321.		2015
12	Experimental Study of formation and development of Coherent Vortical Structures in Pulsed turbulent Impinging jet S Ghadi, K Esmailpour, M Hosseinalipour, A Mujumdar Experimental Thermal and Fluid Science	1	2015
13	Thermal Performance of Coiled Square Tubes at Large Temperature Differences for Heat Exchanger Application JC Kurnia, AP Sasmito, AS Mujumdar Heat Transfer Engineering		2015
14	Acknowledgment of Referees for Drying Technology (2014–2015) AS Mujumdar Drying Technology 33 (15-16), 2021-2023		2015
15	Application of Drying Technology to Control Aflatoxins in Foods and Feeds: A Review N Chiewchan, AS Mujumdar , S Devahastin Drying Technology 33 (14), 1700-1707	2	2015
16	Recent developments in high-quality drying with energy-saving characteristic for fresh foods M Zhang, H Chen, AS Mujumdar , Q Zhong, J Sun Drying Technology 33 (13), 1590-1600	3	2015
17	Application of Artificial Neural Networks (ANNs) in Drying Technology: A Comprehensive Review M Aghbashlo, S Hosseinpour, AS Mujumdar Drying Technology 33 (12), 1397-1462	7	2015

18	Recent Developments in Smart Freezing Technology Applied to Fresh Foods J Xu, M Zhang, AS Mujumdar , B Adhikari Critical reviews in food science and nutrition, 00-00		2015
19	Numerical Investigation of Heat Transfer Performance of Various Coiled Square Tubes for Heat Exchanger Application JC Kurnia, AP Sasmito, S Akhtar, T Shamim, AS Mujumdar Energy Procedia 75, 3168-3173		2015
20	Optimization of Design Parameters for an Open-cathode Polymer Electrolyte Fuel Cells Stack Utilizing Taguchi Method AP Sasmito, JC Kurnia, T Shamim, AS Mujumdar Energy Procedia 75, 2027-2032		2015
21	Numerical investigation of water cooling for a lithium-ion bipolar battery pack W Tong, K Somasundaram, E Birgersson, AS Mujumdar , C Yap International Journal of Thermal Sciences 94, 259-269	5	2015
22	Introduction and evaluation of a novel hybrid brattice for improved dust control in underground mining faces: A computational study JC Kurnia, AP Sasmito, FP Hassani, AS Mujumdar International Journal of Mining Science and Technology 25 (4), 537-543	1	2015
23	Heat transfer enhancement by combination of chaotic advection and nanofluids flow in helically coiled tube A Tohidi, H Ghaffari, H Nasibi, AS Mujumdar Applied Thermal Engineering 86, 91-105	1	2015
24	Drying Uniformity Analysis of Pulse-Spouted Microwave Freeze Drying Banana Cubes H Jiang, M Zhang, AS Mujumdar , RX Lim Drying Technology		2015
25	Entropy generation and second law analysis of pulsed impinging jet K Esmailpour, B Bozorgmehr, SM Hosseinalipour, AS Mujumdar International Journal of Numerical Methods for Heat & Fluid Flow 25 (5 ...	1	2015
26	Recent developments in high-quality drying of vegetables, fruits and aquatic products	1	2015

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27	Correlating uncertainties of a lithium-ion battery–A Monte Carlo simulation W Tong, WQ Koh, E Birgersson, AS Mujumdar , C Yap International Journal of Energy Research 39 (6), 778-788	5	2015
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29	Editorial: On the Occasion of the 85th Birthday of Professor Czeslaw Strumillo AS Mujumdar Drying Technology 33 (6), 633-633		2015
30	Editorial: Role of Global Networking in Research Collaboration AS Mujumdar Drying Technology 33 (5), 513-513		2015
31	Effects of Four Different Drying Methods on the Quality Characteristics of Peeled Litchis (Litchi chinensis Sonn.) CF Song, ZW Cui, GY Jin, AS Mujumdar , JF Yu Drying Technology 33 (5), 583-590	1	2015
32	Advances and challenges on algae harvesting and drying KY Show, DJ Lee, AS Mujumdar Drying Technology 33 (4), 386-394	2	2015
33	Enhancement of Lutein Yield from Coagulated Chlorella sp. ESP-6 with Sodium Hypochlorite YR Chang, DJ Lee, JS Chang, AS Mujumdar Drying Technology 33 (4), 429-433		2015
34	Editorial: Academic Research Under Resource-Challenged Conditions AS Mujumdar Drying Technology 33 (3), 257-257		2015
35	Recent developments in smart drying technology Y Su, M Zhang, AS Mujumdar Drying Technology 33 (3), 260-276	5	2015
36	Textural and Sensory Properties of Herring (Clupea harengus)	1	2015

	Cubes in Chinese-Type Paste as Affected by Prefrying Methods Y Gao, M Zhang, Y Wang, AS Mujumdar , W Chen Journal of Aquatic Food Product Technology 24 (2), 179-190		
37	Heat transfer enhancement utilizing chaotic advection in coiled tube heat exchangers A Tohidi, SM Hosseinalipour, M Shokrpour, AS Mujumdar Applied Thermal Engineering 76, 185-195	2	2015
38	Editorial: IDS and Global Drying R&D AS Mujumdar Drying Technology 33 (1), 1-1		2015
39	Comparison of Three Blanching Treatments on the Color and Anthocyanin Level of the Microwave-Assisted Spouted Bed Drying of Purple Flesh Sweet Potato P Liu, AS Mujumdar , M Zhang, H Jiang Drying Technology 33 (1), 66-71	4	2015
40	Enhanced heat transfer characteristics of conjugated air jet impingement on a finned heat sink S Qiu, P Xu, L Geng, AS Mujumdar , Z Jiang, J Yang Thermal Science, 30-30		2015
41	Pulse Combustion Spray Drying of Egg White: Energy Efficiency and Product Quality Z Wu, L Yue, Z Li, J Li, AS Mujumdar , JA Rehkopf Food and Bioprocess Technology 8 (1), 148-157	1	2015
42	Numerical modeling of a turbulent semi-confined slot jet impinging on a concave surface H Ahmadi, M Rajabi-Zargarabadi, AS Mujumdar , J Mohammadpour Thermal Science 19 (1), 129-140	1	2015
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43	Heat transfer under composite arrangement of pulsed and steady turbulent submerged multiple jets impinging on a flat surface J Mohammadpour, MM Zolfagharian, AS Mujumdar , MR Zargarabadi, ... International Journal of Thermal Sciences 86, 139-147	7	2014

44	Editorial: Some Perspectives on the International Drying Symposium (IDS) Series AS Mujumdar Drying Technology 32 (16), 1887-1887		2014
45	Effect of the Inside Placement of Electrically Conductive Beads on Electric Field Uniformity in a Microwave Applicator R Wang, H Huo, R Dou, Z Li, AS Mujumdar Drying Technology 32 (16), 1997-2004	3	2014
46	Research Project-based Learning (RPBL) in Higher Education SV Jangama, AP Sasmitob, JC Kurniad, AS Mujumdarb		2014
47	Editorial: Food Dehydration R&D at Jiangnan University (JU), Wuxi, Jiangsu, PR China AS Mujumdar Drying Technology 32 (15), 1741-1741		2014
48	Purple-fleshed sweet potato cubes drying in a microwave-assisted spouted bed dryer P Liu, M Zhang, AS Mujumdar Drying Technology 32 (15), 1865-1871	4	2014
49	Effects of ultrasound and microwave pretreatments of apple before spouted bed drying on rate of dehydration and physical properties KJ Mothibe, M Zhang, AS Mujumdar , YC Wang, X Cheng Drying Technology 32 (15), 1848-1856	7	2014
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55	Laminar heat transfer performance of power law fluids in coiled square tube with various configurations JC Kurnia, AP Sasmito, AS Mujumdar International Communications in Heat and Mass Transfer 57, 100-108	3	2014
56	Extended Maxwell model for the thermal conductivity of nanofluids that accounts for nonlocal heat transfer M Shaker, E Birgersson, AS Mujumdar International Journal of Thermal Sciences 84, 260-266	6	2014
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58	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. AS Mujumdar Drying Technology 32 (13), 1640-1640		2014
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60	Trends in modeling and sensing approaches for drying control FB Freire, GNA Vieira, JT Freire, AS Mujumdar Drying Technology 32 (13), 1524-1532	4	2014
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63	Production of crispy granules of fish: A comparative study of alternate drying techniques F Chen, M Zhang, AS Mujumdar , H Jiang, L Wang Drying Technology 32 (12), 1512-1521	2	2014
64	Laminar Heat Transfer Enhancement Utilizing Nanofluids in a Chaotic Flow A Tohidi, SM Hosseinalipour, ZG Monfared, AS Mujumdar Journal of Heat Transfer 136 (9), 091704	1	2014
65	Evaluation of mass transport performance in heterogeneous gaseous in-plane spiral reactors with various cross-section geometries at fixed cross-section area JC Kurnia, AP Sasmito, E Birgersson, T Shamim, AS Mujumdar Chemical Engineering and Processing: Process Intensification 82, 101-111	2	2014
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67	Editorial: Vision 2020 for Global Drying R&D AS Mujumdar Drying Technology 32 (10), 1125-1126		2014
68	CFD simulation of methane dispersion and innovative methane management in underground mining faces JC Kurnia, AP Sasmito, AS Mujumdar Applied Mathematical Modelling 38 (14), 3467-3484	8	2014
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73	Editorial: A Historical Perspective on Various Books and Book Series in Drying Edited by Prof. Arun S. Mujumdar AS Mujumdar Drying Technology 32 (8), 877-878		2014
74	Simulation of a novel intermittent ventilation system for underground mines JC Kurnia, AP Sasmito, AS Mujumdar Tunnelling and Underground Space Technology 42, 206-215	11	2014
75	Energy-Efficient Novel Heterogeneous Gaseous T-Junction Microreactor Design Utilizing Inlet Flow Pulsation B Mohan, J Puqing, AP Sasmito, JC Kurnia, SV Jangam, AS Mujumdar Industrial & Engineering Chemistry Research 53 (49), 18699-18710	2	2014
76	Editorial: On Revised and Enhanced Versions of the Handbook of Industrial Drying AS Mujumdar Drying Technology 32 (7), 755-756		2014
77	Prediction and innovative control strategies for oxygen and hazardous gases from diesel emission in underground mines JC Kurnia, AP Sasmito, WY Wong, AS Mujumdar Science of The Total Environment 481, 317-334	8	2014
78	Editorial: The Making of the Handbook of Industrial Drying AS Mujumdar Drying Technology 32 (6), 627-628		2014
79	A comparative study of four drying methods on drying time and quality characteristics of stem lettuce slices (<i>Lactuca sativa</i> L.) ASM Roknul, M Zhang, AS Mujumdar , Y Wang Drying Technology 32 (6), 657-666	9	2014
80	Editorial: Leadership in Drying R&D AS Mujumdar	1	2014

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81	Changes of microwave structure/dielectric properties during microwave freeze-drying process banana chips H Jiang, M Zhang, AS Mujumdar , RX Lim International Journal of Food Science & Technology 49 (4), 1142-1148	2	2014
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83	Editorial: Role of International Collaboration in Effective R&D AS Mujumdar Drying Technology 32 (4), 373-373	2	2014
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91	Editorial: Role of R&D in Innovation AS Mujumdar Drying Technology 32 (1), 1-1	3	2014
92	Optimization of Turbine Blade Cooling Using Combined Cooling Techniques M Mehdi Zolfagharian, M Rajabi-Zargarabadi, AS Mujumdar , MS Valipour, ... Engineering Applications of Computational Fluid Mechanics 8 (3), 462-475		2014
93	Numerical Study of Passive Thermal Management of a Cylindrical Lithium-ion Battery W Tong, E Birgersson, AS Mujumdar , C Yap International Proceedings of Chemical, Biological & Environmental Engineering 66		2014
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96	Simulation of drying characteristics of evaporation from a wet particle in a turbulent pulsed opposing jet contactor A Yahyaee, K Esmailpour, M Hosseinalipour, AS Mujumdar Drying Technology 31 (16), 1994-2006	2	2013
97	Editorial: On Citation Statistics—What Do They Really Mean? AS Mujumdar Drying Technology 31 (16), 1897-1898		2013

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99	<p>Numerical investigation of water and temperature distributions for open-cathode polymer electrolyte fuel cell stack with edge cooling</p> <p>AP Sasmito, T Shamim, E Birgersson, AS Mujumdar Journal of Fuel Cell Science and Technology 10 (6), 061003</p>	3	2013
100	<p>Microwave-assisted pulse-spouted bed freeze-drying of stem lettuce slices—Effect on product quality</p> <p>Y Wang, M Zhang, AS Mujumdar, KJ Mothibe Food and Bioprocess Technology 6 (12), 3530-3543</p>	18	2013
101	<p>Drying and radial shrinkage characteristics and changes in color and shape of carrot tissues (<i>Daucus carota</i> L) during air drying</p> <p>H Nahimana, AS Mujumdar, M Zhang African Journal of Biotechnology 10 (68), 15327-15345</p>	2	2013
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103	<p>Numerical Simulation of a Spouted Bed Using Computational Fluid Dynamics (CFD)</p> <p>CH Zhang, LX Huang, PJ Xie, F You, YL Zhang, AS Mujumdar Drying Technology 31 (15), 1879-1887</p>	1	2013
104	<p>Drying kinetics and quality characteristics of slightly salted grass carp fillets by hot air drying and vacuum microwave drying</p> <p>J Wan, M Zhang, Y Wang, AS Mujumdar, W Yong-Jun Journal of Aquatic Food Product Technology 22 (6), 595-604</p>	1	2013
105	<p>Chaotic advection induced heat transfer enhancement in a chevron-type plate heat exchanger</p> <p>A Tohidi, SM Hosseinalipour, P Taheri, NM Nouri, AS Mujumdar Heat and Mass Transfer 49 (11), 1535-1548</p>	3	2013
106	<p>Novel high-humidity hot air impingement blanching (HHAIB) pretreatment enhances drying kinetics and color attributes of</p>	37	2013

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110	Guest Editorial: Special Thematic Issue on Drying of Proteins and Enzymes B Adhikari, S Devahastin, AS Mujumdar Drying Technology 31 (13-14), 1439-1440		2013
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112	Influence of microwave drying method on the characteristics of the sweet potato dices WEIQ YAN, MIN Zhang, LUELUE HUANG, AS Mujumdar , J Tang Journal of Food Processing and Preservation 37 (5), 662-669	9	2013
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114	Heat transfer in coiled square tubes for laminar flow of slurry of microencapsulated phase change material JC Kurnia, AP Sasmito, SV Jangam, AS Mujumdar Heat Transfer Engineering 34 (11-12), 994-1007	6	2013
115	Editorial: The Role of Art in Innovative R&D AS Mujumdar		2013

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118	Editorial: How Industry May Benefit from Interaction with Academia AS Mujumdar Drying Technology 31 (10), 1083-1083		2013
119	DRYING, BIOLOGICAL MATERIALS AS MUJUMDAR Downstream Industrial Biotechnology: Recovery and Purification, 465		2013
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122	Numerical simulation of flow and thermal characteristics of harmonic pulsed laminar impinging streams M Hosseinalipour, K Esmailpour, A Yahyaei, AS Mujumdar Asia-Pacific Journal of Chemical Engineering 8 (4), 607-617	2	2013
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126	Analysis of temperature distribution and SEM images of microwave freeze drying banana chips H Jiang, M Zhang, AS Mujumdar , RX Lim Food and Bioprocess Technology 6 (5), 1144-1152	13	2013
127	Editorial: Why Four Decades of R&D in Drying? AS Mujumdar Drying Technology 31 (6), 617-618		2013
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134	Bound water content in wet materials DJ Lee, A Su, AS Mujumdar	7	2013

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136	Optimization of Liquid Steel Flow in an Industrial Tundish QF Tong, ZH Wu, AS Mujumdar Advanced Materials Research 634, 1752-1755		2013
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138	Guest Editorial: Urgent Need for Reduction in Greenhouse Gas Emissions in Industrial Processes: Are We Past the Tipping Point for Global Warming? AS Mujumdar , RD Piacentini Drying Technology 31 (1), 3-4	2	2013
139	Study of drying uniformity in pulsed spouted microwave–vacuum drying of stem lettuce slices with regard to product quality Y Wang, M Zhang, AS Mujumdar , KJ Mothibe, SM Roknul Azam Drying Technology 31 (1), 91-101	34	2013
140	Editorial: Role of Quality and Quantity on Impact of Archival Publications AS Mujumdar Drying Technology 31 (1), 1-2		2013
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