

Prof. Arun S. Mujumdar's Publicaiton list (June 2007 ~ June 2008)

	Author Name	Title	Journal	Vol	Issue	Page	Date
1	M.R. Islam, K.S. Thaker, Arun S. Mujumdar	A diffusion model for a drum dryer subjected to conduction, convection, and radiant heat input	<i>Drying Technology</i>	25	6	1033-1043	Jun-07
2	D.K. Konstantopoulos, V.Z. Maroulis, M. Karoglou, A. Moropoulou, A.S. Mujumdar	Hygroscope: A moisture transfer a simulator for buildings	<i>Drying Technology</i>	25	6	1119-1125	Jun-07
3	S.M.A. Rahman, M.R. Islam, A.S. Mujumdar	A study of coupled heat and mass transfer in composite food products during convective drying	<i>Drying Technology</i>	25	7-8	1359-1368	Jul-07
4	Liu-Ping Fan, Min Zhang, Arun S. Mujumdar	Storage stability of carrot chips	<i>Drying Technology</i>	25	9	1537-1543	Sep-07
5	Santanu Basu, U.S. Shivhare, A.S. Mujumdar	Moisture adsorption isotherms and glass transition temperature of xanthan gum	<i>Drying Technology</i>	25	9	1581-1586	Sep-07
6	Duan Xu, Min Zhang, Arun S. Mujumdar	Studies on the microwave freeze drying technique and sterilization characteristics of cabbage	<i>Drying Technology</i>	25	10	1725-1731	Oct-07
7	Zhen-Xiang Gong, Arun S. Mujumdar	Review of R and D in drying of refractories	<i>Drying Technology</i>	25	12	1917-1925	Dec-07
8	Duan Xu, Min Zhang , Arun S. Mujumdar	Study on a combination drying technique of sea cucumber	<i>Drying Technology</i>	25	12	2011-2019	Dec-07
9	Xian-Ju Song, Min Zhang, Arun S. Mujumdar	Effect of vacuum-microwave predrying on quality of vacuum-fried potato chips	<i>Drying Technology</i>	25	12	2021-2026	Dec-07
10	Xian-Ju Song, Min Zhang, Arun S. Mujumdar	Optimization of vacuum microwave predrying and vacuum frying conditions to produce fried potato chips	<i>Drying Technology</i>	25	12	2027-2034	Dec-07
11	Zhiqing Gong, Zhang Min, Arun S. Mujumdar, Jincai Sun	Spray drying and agglomeration of instant bayberry powder	<i>Drying Technology</i>	26	1	116-121	Jan-08
12	Arun S. Mujumdar, Zhonghua Wu	Thermal drying technologies - Cost-effective innovation aided by mathematical modeling approach	<i>Drying Technology</i>	26	1	145-153	Jan-08
13	S. B. Pawar, P. Siva Rama Kumar, Arun S. Mujumdar, B.N. Thorat	Infrared-convective drying of organic pigments	<i>Drying Technology</i>	26	3	315-322	Mar-08
14	S. V. Jangam, V. S. Joshi, Arun S. Mujumdar, B. N. Thorat	Studies on dehydration of sapota (Achras zapota)	<i>Drying Technology</i>	26	3	369-377	Mar-08
15	S. M. A. Rahman, A.S. Mujumdar	A novel atmospheric freeze-drying system using a vibro-fluidized bed with adsorbent	<i>Drying Technology</i>	26	4	393-403	Apr-08
16	X. Duan , M. Zhang, XL Li, A.S. Mujumdar	Microwave freeze drying of sea cucumber coated with nanoscale silver	<i>Drying Technology</i>	26	4	413-419	Apr-08
17	X. Duan , M. Zhang, XL Li, A.S. Mujumdar	Ultrasonically enhanced osmotic pretreatment of sea cucumber prior to microwave freeze drying	<i>Drying Technology</i>	26	4	420-426	Apr-08
18	Ho-Hsien Chen, Tzou-Chi Huang, Chien-Hsiung Tsai, Arun S. Mujumdar	Development and performance analysis of a new solar energy-assisted photocatalytic dryer	<i>Drying Technology</i>	26	4	503-507	Apr-08
19	Peng Xu, Arun S. Mujumdar, B. Yu	Fractal Theory on Drying: A Review	<i>Drying Technology</i>	26	6	640-650	Jun-08

20	Z. Wang, X.F. Peng, A.S. Mujumdar, Ay Su, Duu-Jong Lee	Evaporation of Ethanol-Water Mixture Drop on Horizontal Substrate	<i>Drying Technology</i>	26	6	806-810	Jun-08
21	M.W. Woo, W. Daud, A.S. Mujumdar, Z.H. Wu, M.Z.M. Talib, S.M. Tasirin	Evaluation of droplet drying models in a CFD spray drying environment. <i>Drying Technology</i>	<i>Drying Technology</i>				<i>accepted</i>
22	Ravi Kandasamy, Xiang-Qi Wang, Arun S. Mujumdar	Application of phase change materials in thermal management of electronics	<i>Applied Thermal Engineering</i>	27	17-18	2822-2832	Dec-07
23	Ravi Kandasamy, Xiang-Qi Wang, Arun S. Mujumdar	Transient cooling of electronics using phase change material (PCM)-based heat sinks	<i>Applied Thermal Engineering</i>	28	8-9	1047-1057	Jun-08
24	Peamsuk Suvarnakuta, S. Devahastin, Arun S. Mujumdar	A mathematical model for low-pressure superheated steam drying of a biomaterial	<i>Chemical Engineering and Processing</i>	46	7	675-683	Jul-07
25	S.J. Wang, A.S. Mujumdar	Flow and mixing characteristics of multiple and multi-set opposing jets	<i>Chemical Engineering and Processing</i>	46	8	703-712	Aug-07
26	Ashutosh K. Patel, Suil S. Waje, B.N. Thorat, Arun S. Mujumdar	Tomographic diagnosis of gas maldistribution in gas-solid fluidized bed	<i>Powder Technology</i>	185	3	239-250	Jul-08
27	Zhonghua Wu, Arun S. Mujumdar	CFD modeling of the gas-particle flow behavior in spouted beds	<i>Powder Technology</i>	183	2	260-272	Apr-08
28	Xiang-Qi Wang, Christopher Yap, Arun S. Mujumdar	A parametric study of phase change material (PCM)-based heat sinks	<i>International Journal of Thermal Sciences</i>	47	8	1055-1068	Aug-08
29	Xiang-Qi Wang, Arun S. Mujumdar, Christopher Yap	Effect of bifurcation angle in tree-shaped microchannel networks	<i>Journal of Applied Physics</i>	102	7	73530	2007
30	Xiang-Qi Wang, Arun S. Mujumdar, Christopher Yap	Effect of orientation for phase change material (PCM)-based heat sinks for transient thermal management of electric components	<i>International Communications in Heat and Mass Transfer</i>	34	7	801-808	Aug-07
31	P. Suvarnakuta, S. Devahastin, Arun S. Mujumdar	A mathematical model for low-pressure superheated steam drying of a biomaterial	<i>Chemical Engineering and Processing</i>	46	7	675-683	Jul-07
32	M.W. Woo, W. Daud, A.S. Mujumdar, M.Z.M. Talib, Z.H. Wu, S.M. Tasirin	Comparative Study of Drying Models for CFD Simulations of Spray Dryers	<i>Chemical Engineering Research and Design</i>				<i>Article in Press</i>
33	TaoTao, XF Peng, A Su, DJ Lee, A.S. Mujumdar	Modeling convective drying of wet cake	<i>Journal of The Chinese Institute of Chemical Engineers</i>	39	3	287-290	May-08
34	Ravi Kandasamy, A.S. Mujumdar	Thermal analysis of a flip chip ceramic ball grid array (CBGA) package	<i>Microelectronica Reliability</i>	48	2	261-273	Feb-08
35	Zhonghua Wu, Arun S. Mujumdar	Pulse combustion characteristics of various gaseous fuels	<i>Energy & Fuels</i>	22	2	915-924	Mar-08
36	S. M. A. Rahman, Arun S. Mujumdar	Effect of osmotic treatment with concentrated sugar and salt solutions on kinetics and color in vacuum contact drying	<i>Journal of Food Processing and Preservation</i>	31	6	671-687	Dec-07
37	Chung Lim Law, Sunil Shivram Waje, B.N. Thorat, Arun Sadashiv Mujumdar	Advances and recent developments in thermal drying for bio-origin and agricultural products	<i>Stewart Postharvest Review</i>	4	1	1-23	Feb-08
38	I. Bislobrzewski, M. Zielińska, Arun S. Mujumdar, M. Markowski	Heat and mass transfer during drying of a bed of shrinking particles – Simulation for carrot cubes dried in a spout-fluidized-bed drier	<i>International Journal of Heat and Mass Transfer</i>				<i>Article in Press</i>

39	H. XIAN, D. LIU, F. SHANG, Y. Yang, X. DU, Arun S. Mujumdar, Li-xin HUANG	Study on Heat Transfer Enhancement of Oscillating-Flow Heat Pipe for Drying	<i>Drying Technology & Equipment</i>	5	3	107-113	Jun-07
40	Li-xin HUANG, Guo-hua CHEN, Arun S. Mujumdar	Latest Developments in Drying in the World and Prospective in Drying R&D	<i>Drying Technology & Equipment</i>	5	5	215-219	Oct-07
41	Li-xin HUANG, Rui-jun Zhou, Arun S. Mujumdar	Review on the Latest Development of Spray Drying	<i>Drying Technology & Equipment</i>	6	1	3-8	Feb-08
42	S. M. A. Rahman, Arun S. Mujumdar	Effect of Combined Radiant and Conductive Vacuum Drying with Application of Vibration.	<i>Journal of Food Engineering</i>	4	2	1-16	May-08
43	S. M. A. Rahman, Arun S. Mujumdar	Sublimation of Ice in a Novel Atmospheric Freeze Drying System Using Vortex Tube and Multimode Heat Input: Simulation and Experiment.	<i>Asia-pacific Journal of Chemical engineering</i>				accepted
44	Arun S. Mujumdar	New Dehydration Technologies for Dairy and Food Products	<i>Indian Dairyman</i>	60	3		Mar-08
45	BN Thorat, AS Mujumdar, AR Kalambe	A Filter cum Dryer-Technology for today's need	<i>Chemical Business-Bombay</i>	21	9	30-36	2007
46	LC Law, AS Mujumdar	Vacuum Drying-An Overview	<i>Chemical Industry Digest</i>				2007
	Author Name	Title	Conference	Location		Date	
1	Peng Xu, Z. Wu, Arun S. Mujumdar, B. Yu	Innovative hydrocyclone designs to reduce erosion-indeced wear in mineral dewatering processes	<i>16th International Drying Sysposium (IDS2008)</i>	Hyderabad, India		9-12 Nov 2008	
2	M.W. Woo, W. Daud, A.S. Mujumdar, M.Z.M. Talib, Z.H. Wu, S.M. Tasirin	CFD Evaluation of Dropelt Drying Models in a Spray Dryer Fitted with a Rotary Atomizer	<i>16th International Drying Sysposium (IDS2008)</i>	Hyderabad, India		9-12 Nov 2008	
3	Agus P Sasmito, E. Birgersson, Arun S Mujumdar	Quantitative comparison on the effect of net-type flow gas distributor on PEMFC performance	<i>10th AUN/SEED-Net Field wise seminar</i>	Kuala Lumpur		Dec-07	
4	Agus P Sasmito, E. Birgersson, Arun S Mujumdar	Implementation and validation of a CFD model for PEMFC with a net-type flow field	<i>6th International conference on Heat transfer, Fluid mechanics and Thermodynamic (HEFAT 2008)</i>	University of Pretoria, South Africa		30 June - 2 July 2008	
5	Agus P Sasmito, E. Birgersson, Arun S Mujumdar	Numerical investigation of PEMFC stack cooling	<i>6th International conference on Heat transfer, Fluid mechanics and Thermodynamic (HEFAT 2008)</i>	University of Pretoria, South Africa		30 June - 2 July 2008	
6	K.W. Lum, E. Birgersson, Agus P Sasmito, H.J. Poh, Arun S Mujumdar	Numerical study of forced air convection for Polymer Electrolyte Fuel Cell Stacks	<i>213th Electrochemical Society Meeting 2008</i>	Phoenix, USA		18-23 May 2008	
7	Agus P Sasmito, E. Birgersson, Arun S Mujumdar	Transient analysis of a PEFC with a dead-end anode	<i>1st International conference on Applied energy</i>	Hong Kong		5-7 Jan 2009	
8	Agus P Sasmito, E. Birgersson, K.W. Lum, Arun S Mujumdar	Numerical study of natural convection air cooling of a PEFC: Single cell and stack	<i>1st International conference on Applied energy</i>	Hong Kong		5-7 Jan 2009	

9	S.M.A. Rahman, Tan Heong Kim, A. S. Mujumdar.	An experimental study on atmospheric freeze drying system using a vortex tube and multimode heat input.	5 th Asia-Pacific Drying Conference (ADC07)	Hong Kong University of Science and Technology	13-15 August 2007
10	S.M.A. Rahman and A. S. Mujumdar	Vortex tube-assisted Atmospheric Freeze Drying of Osmotically Pretreated Biological Materials	16 th International Drying Symposium (IDS2008)	Hyderabad, India	9-12 Nov 2008
11	Z.H. Wu, A.S. Mujumdar	CFD modeling of a lost foam casting process	16 th International Conference on Processing and Fabrication of Advanced Materials	Singapore	17-19 Dec 2007
12	Z.H. Wu, A.S. Mujumdar	Drying of high moisture coal-an overview	Energex 2007 Conference,	Singapore	27-30 Nov 2007
13	Z.H. Wu, A.S. Mujumdar	Mathematical Model of Post Combustion in an Electric Arc Furnace	61 st National Metallurgists Day and Annual Technical Meeting (NMD-ATM-2007),	Mumbai, India	13-16 Nov 2007
14	Z.H. Wu, A.S. Mujumdar	Parametric study of the lost foam casting process of aluminum alloy	61 st National Metallurgists Day and Annual Technical Meeting (NMD-ATM-2007),	Mumbai, India	13-16 Nov 2007
15	X.Q.Wang, A.S. Mujumdar, D. Mazumdar	Transient flow and heat transfer in a steelmaking ladle during filling operation,	61 st National Metallurgists Day and Annual Technical Meeting (NMD-ATM-2007),	Mumbai, India	13-16 Nov 2007
16	Z.H. Wu, A.S. Mujumdar	Optimization of liquid steel flow in a industrial Tundish	Third Baosteel Biennial Academic Conference,	Shanghai, China	18-20 Aug 2008
17	Z,H, Wu, A.S. Mujumdar D.J. Lee	Dewatering and drying in mineral processing industry: potential for innovations,	16 th International Drying Symposium (IDS2008)	Hyderabad, India	9-12 Nov 2008
18	Z.H. Wu, A.S. Mujumdar	Optimization of post combustion process in an Electrical Arc Furnace	Third International Conference Processing Material for Properties	Bangkok, Thailand	7-10 Dec 2008
19	N. Milosavljevic and A.S. Mujumdar	Air impingement drying-technology for future paper machines	16 th International Drying Symposium (IDS2008)	Hyderabad, India	9-12 Nov 2008
20	Shusheng Pang and Arun S. Mujumdar	Drying of woody biomass for bioenergy: drying technologies and operation for an integrated bioenergy plant	16 th International Drying Symposium (IDS2008)	Hyderabad, India (Keynote paper)	9-12 Nov 2008
21	Erik Birgersson, Hee Joo Poh, Kah Wai Lum, Arun Mujumdar	A Study of Jet Impingement on the Cathode Side of a PEMFC	6 th International Conference on Materials Processing, Properties and Performance (MP3) in Beijing,	Beijing, China	14-16 Sep 2007
22	Hee Joo Poh, Cary K Turangan, Jing Lou, Arun S. Mujumdar	Improvement of an Industrial Co-Current Spray Cooler Operation for Fatty Acid Product Using Side Tangential Entries Design – A Modeling Study	5 th Asia-Pacific Drying Conference,	Hong Kong University of Science and Technology	13-15 August 2007
23	Hee Joo Poh, Arun. S. Mujumdar	Heat Transfer From A Pulsed Turbulent Impinging Jet At Large Temperature Difference	5 th Asia-Pacific Drying Conference,	Hong Kong University of Science and Technology	13-15 August 2007

24	Hee Joo Poh, Arun. S. Mujumdar	Analysis of a New Impinging Jet Design to Enhanced Fuel Cell Performance	<i>2nd European Fuel Cell Technology and Applications Conference,</i>	Rome, Italy	11-14 Dec 2007		
25	Hee Joo Poh, Arun. S. Mujumdar	Effect of Upstream H ₂ Reservoir on Dead End Anode, Self Air-Breathing Cathode of PEMFC	<i>2nd European Fuel Cell Technology and Applications Conference</i>	Rome, Italy	12-14 Dec 2007		
26	Kah Wai Lum Erik Birgersson, Hee Joo Poh, Arun Mujumdar	A numerical study and design of multiple jet impingement in a PEMFC,	<i>6th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2008),</i>	University of Pretoria, South Africa	30 June - 2 July 2008		
27	M. Karthikeyan, J.V.M. Kuma, A.S. Mujumdar	Experimental Investigations On Minimization Of Moisture Re-Adsorption In Dried Coal	<i>16th International Drying Symposium (IDS2008)</i>	Hyderabad, India	9-12 Nov 2008		
	Author Name	Title	Book Publisher	Vol	Issue	Page	Date
1	Evangelos Tsotsas, Arun S. Mujumdar	Modern Drying Technology: Volume 1: Computational Tools at Different Scales	Wiley-VCH	1			2007
2	Evangelos Tsotsas, Arun S. Mujumdar	Modern Drying Technology: Volume 2: Experimental Techniques	Wiley-VCH	2			2008
3	Law Chung Lim and Arun S. Mujumdar	Drying, in Wiley encyclopedia of Industrial Biotechnology	Wiley (<i>under review</i>)				2008
4	Arun S. Mujumdar and H. Yoshida	Electro-osmotic Dewatering of Biomaterials Ch. 5 in <i>Foods and Biomaterials in Electrotechnologies for Extraction from Plants</i> , Ed. E. Vorobiov	Springer, Germany				2008