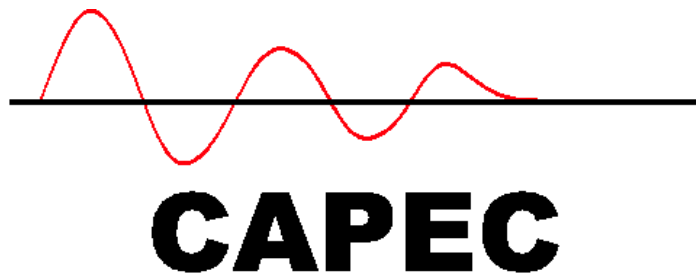


# CAPEC Publication List 1997-2009



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- PEC97-01 H. Yazdi, 1997, "Control and Supervision of Event-driven Systems", Ph.D.-thesis, DTU, February
- PEC97-02 E.S. Perez-Cisneros, 1997, "Modeling, Design and Analysis of Reactive Separation Processes", Ph.D.-thesis, DTU, December
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- PEC98-09 J.E. Hansen, 1998, "Plant Wide Dynamic Simulation and Control of Thermal Processes", Ph.D.-thesis,
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- PEC98-15 J. Abildskov, 1998, "Extended Group Contribution Model for Polyfunctional Phase Equilibria", Ph.D.-thesis,
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- PEC08-01 Vipasha Soni, 2008, "Chemically Structured Products: Simultaneous model-based design of process and assisting structured materials", Ph.D. thesis
- PEC08-23 Florin Paul Davidescu, 2008, "Optimal Experimental Design for Grey Box Models", Ph.D. thesis
- PEC08-24 Piotr Tomasz Mitkowski, 2008, "Computer aided design and analysis of reaction-separation and separation-separation systems", Ph.D. thesis
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- PEC09-01 Maria Antonieta Alvarez Villanueva and Sten Bay Jørgensen, 2009, "Bioprocess Modelling for Learning Model Predictive Control (L-MPC)", in: "Computational Intelligence Techniques for Bioprocess Modelling, Supervision and Control", M.C.Nicoletti and L.C. Jain (Eds.), Studies in Computational Intelligence, Springer-Verlag, Germany
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- PEC97-06 T. Zangirolami, C.L. Johansen, J. Nielsen, S.B. Jørgensen, 1997, "Simulation of Penicillin Production in Fed-batch Cultivations using a Morphologically Structured model", Journal of Biotechnology, 56 (6), pp. 593-604
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- PEC97-14 S. Isaacs, 1997, "Automatic adjustment of Cycle Length and Aeration time for Improved Nitrogen Removal in an Alternating Activated Sludge Process", *Water Science & Technology*, 1, 35, pp. 225-232
- PEC97-15 P. Rabeau, R. Gani, C. Leibovici, 1997, "An Efficient Initialisation Procedure for Simulation and Optimisation of Large Distillation Problems", *I&EC Research*, 10, 36, pp. 4291-4298
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- PEC97-22 R. Gani, T.S. Jepsen, E.S. Perez-Cisneros, 1998, "A Generalised Reactive Separation Unit Model. Modeling and Simulation Aspects", *Comp. & Chem. Eng.*, 22 (supplement), pp. 5363-5370
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- 239 Niels Jensen, 2005, "Preliminary Risk Assessment and the need for data", invited presentation at the International Open Forum, "Advanced System for Safety and Loss Prevention of Industrial Complex (Application to Mizushima Area)", 50th Anniversary Hall, Okayama University, Okayama, Japan, 26 January 2005
- 240 R. Gani, 2005, "Generation and evaluation of sustainable process (retrofit) alternatives", CAPE-Forum, Cluj-Napoca, Rumania, 24-27 February 2005 (**Plenary Lecture**)
- 241 Hong Wen Li, Torben Ravn Andersen and Sten Bay Jørgensen, 2005, "Operating Pressure Sensitivity in Distillation: Consequences for Control Structure", AIChE Spring Meeting 2005, Atlanta, USA, 10-14 April
- 242 Jan Kamyno Rasmussen and Sten Bay Jørgensen, 2005, "Modelling and Control of Industrial Fermentation", AIChE Spring Meeting 2005, Atlanta, USA, 10-14 April
- 243 Gunnar Jonsson, 2005, "Surface modification of ultrafiltration membranes for improved biocompatibility and fouling resistance", Engineering with membranes: Medical and biological applications, Camogli, Italy, 15-18 May
- 244 Jens-Ulrik Rype, Arvid Garde and Gunnar Jonsson, 2005, "Integrated membrane process for improved bioreactor productivity", Engineering with membranes: Medical and biological applications, Camogli, Italy, 15-18 May
- 245 Loïc d'Anterrosches and Rafiqul Gani, 2005, "Novel Group Contribution Based Approach in Process Flowsheet Synthesis, Design and Modelling", ESCAPE-15, Barcelona, Spain, 29 May – 1 June
- 246 Jens Abildskov and J.P. O'Connell, 2005, "Prediction of solubilities of complex medium-sized chemicals. Solutes in pure solvents, mixed solvents and cosolvent mixtures", ESCAPE-15, Barcelona, Spain, 29 May – 1 June
- 247 Núria Muro-Suñé, Ahsan Munir, Rafiqul Gani, Gordon Bell and Ian Shirley, 2005, "A framework for product analysis: Modelling and design of release and uptake of pesticides", ESCAPE-15, Barcelona, Spain, 29 May – 1 June

- 248 Edgar Ramírez and Rafiqul Gani, 2005, “Design and Control Structure Integration from a Model-Based Methodology for Reaction-Separation with Recycle Systems”, ESCAPE-15, Barcelona, Spain, 29 May – 1 June
- 249 Rafiqul Gani, 2005, “Integrated Chemical Product-Process Design: CAPE Perspectives”, ESCAPE-15, Barcelona, Spain, 29 May – 1 June (**Plenary Lecture**)
- 250 B. Lin, B. Recke, P. Renaudat, J. Knudsen, S. B. Jørgensen, 2005, “A Systematic Approach for Soft Sensor Development”, ESCAPE-15, Barcelona, Spain, 29 May – 1 June
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- 252 Irene Kouskoumvekaki and Jens Abildskov, 2005, “Modeling of Active Ingredient Loading in Microparticle Controlled-Delivery Systems”, 21<sup>st</sup> European Symposium on Applied Thermodynamics (ESAT 2005), Jurata, Poland, 1-5 June
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- 254 B. Lin, B. Recke, J. Knudsen, S. B. Jørgensen, 2005, “Robust Statistics for Soft Sensor Development in Cement Kiln”, 16th IFAC World Congress, Prague, Czech Republic, 3-8 July
- 255 B. Lin, B. Recke, J. Knudsen, S. B. Jørgensen, 2005, “Robust Statistics for Soft Sensor Development”, 7th World Congress of Chemical Engineering, Glasgow, Scotland, 10-14 July 2005
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- 258 Krist V. Gerneay, Morten Lind and Sten Bay Jørgensen, 2005, “Understanding role and function of regulatory networks in microorganisms”, 12<sup>th</sup> European Congress of Biotechnology (ECB12), Copenhagen, Denmark, 21-24 August
- 259 Dennis Bonné, John B. Jørgensen and Sten Bay Jørgensen, 2005, “Keeping Experiments in Control with Interval Methods”, Second Scandinavian Workshop on INTERVAL METHODS AND THEIR APPLICATIONS”, Lyngby, Denmark, 25-27 August
- 260 Dennis Bonné and Sten Bay Jørgensen, 2005, “Advanced Control of Batch Processes”, ISPE Nordic PAT Workshop, Copenhagen, 28 October
- 261 Vipasha Soni, Jens Abildskov, Gunnar E. Jonsson, Rafiqul Gani, Nikos Ch. Karayiannis, and Vlasis Mavrantzas, 2005 “Structural Design of Polymers for Membrane Based Separation Using Reverse Simulation Approach”, AIChE, Cincinnati, USA, 30 October – 4 November

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- 276 Florin Paul Davidescu, Henrik Madsen, Sten Bay Jorgensen, 2006, "Production of fine chemicals using a system of biotransformations or SBT", 1<sup>st</sup> Meeting on Process Analytical Technologies, KVL Denmark, 8-9 March
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- 288 Loïc d'Anterroches, Rafiqul Gani, 2006, "Computer Aided Methodology for Simultaneous Synthesis, Design & Analysis of Chemical Products-Processes", ESCAPE 16/PSE 9, Garmisch-Partenkirchen, Germany, 9-13 July
- 289 Bao Lin, Bodil Recke, Torsten Jensen, Jørgen Knudsen, Sten B. Jørgensen, 2006, "Product quality estimation using multi-rate sampled data", ESCAPE 16/PSE 9, Garmisch-Partenkirchen, Germany, 9-13 July
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- 291 Vipasha Soni, Jens Abildskov, Gunnar Jonsson, R. Gani, Nikos Karayannis and Vlasis Mavrantzas, 2006, "Model-based reverse design of structured polymers", FOMMS 2006, Semiahmoo Resort, Washington, USA, July 9-14 (Poster)
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- 302 Niels Jensen, 2006, “25 Years of Risk Assessment Teaching at DTU”, presented at European Forum on Teaching Safety to Chemical and Process Engineering (CHISA 2006), on CD, Praha, Czech Republic, 27-31 August
- 303 Peter Fogh Odgaard, Bao Lin, Sten Bay Jørgensen, 2006, “Observer-Based and Regression Model-Based Detection of Emerging Faults in Coal Mills”, 6<sup>th</sup> IFAC Symposium on Fault Detection, Supervision and Safety of Technical Processes, Beijing, China, 30 August – 1 September
- 304 Gunnar Jonsson, 2006, “Combining membrane separation and fermentation processes for improved performance”, Programme booklet “XIII EMS Summer School on Membranes: SMART MATERIALS”, Prague, Czech Republic, 3-6 September
- 305 Søren Prip Beier, Gunnar Jonsson, 2006, ” Dynamic microfiltration with a vibrating hollow fiber membrane module”, EUROMEMBRANE 2006, Giardini Naxos, Italy, 24-28 September
- 306 Rafiqul Gani, 2006, “Systematic Computer-Aided Techniques for Use in Formulated Chemical Product Design”, 4<sup>th</sup> World Congress on Emulsions, Lyon, France, 3-6 October
- 307 Florin Paul Davidescu, Henrik Madsen, Sten Bay Jorgensen, 2006, “Grey-Box Stochastic Modeling of a an Enzymatic Reactions Network for Biotransformation”, AIChE Annual Meeting 2006, San Francisco, USA, 12-17 November
- 308 Vipasha Soni, Jens Abildskov, Gunnar Jonnson, Rafiqul Gani, Nikos Ch. Karayiannis and Vlasis Mavrantzas, 2006, “Multiscale Property Modeling for Design of Polymer Based Products”, AIChE Annual Meeting 2006, San Francisco, USA, 12-17 November
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- 314 Nanna Petersen, Dennis Bonné and Sten Bay Jørgensen, 2006, "Modelling for reproducible/Optimizing Operation of Fed-Batch Processes", AIChE Annual Meeting 2006, San Francisco, USA, 12-17 November
- 315 Bao Lin, Bodil Recke, Torben M. Schmidt, Jørgen K.H. Knudsen, Sten Bay Jørgensen, 2006, "Data-driven soft sensor design with multiple-rate sampled data: a comparative study", AIChE Annual Meeting 2006, San Francisco, USA, 12-17 November (poster)
- 316 Bernt M. Åkesson, John Bagterp Jørgensen, Sten Bay Jørgensen, 2006, "Development of Systematic Tuning Procedures for Extended Kalman Filtering", AIChE Annual Meeting 2006, San Francisco, USA, 12-17 November (poster)
- 317 Rafiqul Gani, Loïc d'Anterrosches, Jamal el Ali Rashed, Luke E.K. Achenie, 2006, "A Simple New Concept for Chemical Process Flowsheet Design and Analysis", AIChE-meeting 2006, San Francisco, USA, 12-17 November
- 318 Gunnar Jonsson, 2006, "Separation of Macromolecules by Dynamic Ultrafiltration", AIChE-meeting 2006, San Francisco, USA, 12-17 November
- 319 Ana I.C.S.G. Carvalho, Rafiqul Gani, Henrique A.S. Matos, 2006, "Design of Sustainable Processes: Systematic Generation & Evaluation of Alternatives", AIChE-meeting 2006, San Francisco, USA, 12-17 November
- 320 Conception Jimenez-Gonzalez, Rafiqul Gani, David Constable, 2006, "Towards More Sustainable Pharmaceutical Syntheses: Finding Solvent Replacements", AIChE-meeting 2006, San Francisco, USA, 12-17 November
- 321 Ka M. Ng and Rafiqul Gani, 2006, "Product Development: from Conceptualization to Market", AIChE-meeting 2006, San Francisco, USA, 12-17 November (**Plenary Lecture**)
- 322 Pavle Andric, Kim Dam-Johansen, Rafiqul Gani, Peter A. Jensen, 2006, "Retrol Vision: Preliminary Techno-Economical Analysis", AIChE-meeting 2006, San Francisco, USA, 12-17 November
- 323 Bernt M. Åkesson, John Bagterp Jørgensen, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2006, "A Generalized Autocovariance Least-Squares Method for Kalman Filter Tuning", 6<sup>th</sup> CMBC Workshop, Nordborg, Denmark, 23-24 November
- 2007
- 324 Milica Folic, 2007, "A generic method for selection of solvents for reactions and product recovery", CAPE Forum 2007, Maribor, Slovenia, 1-2 February
- 325 Rafiqul Gani, 2007, "Computer aided modelling: Challenges and opportunities", CAPE Forum 2007, Maribor, Slovenia, 1-2 February (**Plenary Lecture**)
- 326 Gunnar Jonsson, 2007, "Membrane technology in fermentation", Workshop on Large Scale Biomanufacturing, DTU, Lyngby, Denmark, 20 April

- 327 Jakob Kjøbsted Huusom, Sten Bay Jørgensen and Niels Kjølstad Poulsen 2007, "Advances in Process Analytics and Process Control Technology (APACT)", APACT-07 (Advances in Process Analytics and Control Technologies 2007), Edinburgh, UK, 2-4 May
- 328 S. Bay Jorgensen, 2007, "Systematic Modelling for Bioprocess Control", APACT-07 (Advances in Process Analytics and Control Technologies 2007), Edinburgh, UK, 2-4 May (**Keynote Lecture**)
- 329 Ravendra Singh, Krist V. Gernaey, Rafiqul Gani, 2007, "Model-based Computer Aided Framework for Design of Process Monitoring and Analysis Systems", APACT-07 (Advances in Process Analytics and Control Technologies 2007), Edinburgh, UK, 2-4 May
- 330 Gunnar Jonsson, 2007, "Combining Membrane Separation and Fermentation Processes for Improved Performance", International Workshop on Downstream Processing, Delft University of Technology, Holland, 10-11 May
- 331 Steen Christensen, Günther H. Peters, Flemming Yssing Hansen, Jens Abildskov, 2007, "Thermodynamic Models from Fluctuation Solution Theory Analysis of Molecular Simulations", PPEPPD 2007, Crete, Greece, 20-25 May  
(Poster)
- 332 V.Soni, J. Abildskov, G. Jonsson, R. Gani, N. Karayiannis and V. Mavrantzas, 2007, "Integrating multilevel modeling aspects to predict gas permeability in polymers for design of membranes", PPEPPD 2007, Crete, Greece, 20-25 May  
(Poster)
- 333 Kavitha Chelakara Satyanarayana, Jens Abildskov, Rafiqul Gani, 2007, "Polymer Property Modeling Using Grid Technology for Design of Structured Products", PPEPPD 2007, Crete, Greece, 20-25 May  
(Poster)
- 334 Niels Jensen, 2007, "Modifying the Dow Fire & Explosion Index for Use in Assessing Hazard and Risk of Experimental Setups in Research Laboratories", Loss Prevention 2007, 12<sup>th</sup> International Symposium on Loss Prevention and Safety Promotion in the Process Industries", Edinburgh, Scotland, 22-24 May
- 335 Bernt M. Åkesson, John Bagterp Jørgensen, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2007, "A Tool for Kalman Filter Tuning", ESCAPE-17, Bucharest, Romania, 27-30 May
- 336 Ricardo Morales-Rodríguez, Rafiqul Gani, 2007, "Computer-Aided Multiscale Modelling for Chemical Process Engineering", ESCAPE-17, Bucharest, Rumania, 27-30 May (**Best Poster Award**)
- 337 Piotr Tomasz Mitkowski, Gunnar Jonsson, Rafiqul Gani, 2007, "Model-based hybrid reaction-separation process design", ESCAPE-17, Bucharest, Rumania, 27-30 May  
(Poster)
- 338 Jakob Kjøbsted Huusom, Niels Kjølstad Poulsen & Sten Bay Jørgensen, 2007, "Iterative Controller Tuning for Processes with Fold Bifurcations", ESCAPE-17, Bucharest, Rumania, 27-30 May
- 339 V. Soni, J. Abildskov, G. Jonsson and R. Gani, 2007, "A hierarchal approach based on reverse design algorithm for simultaneous design and analysis of product and processes", ESCAPE-17, Bucharest, Romania, 27-30 May

- 340 Florin Paul Davidescu, Henrik Madsen, Sten Bay Jørgensen, 2007, "Systematic qualitative experimental design based upon identifiability analysis", ESCAPE-17, Bucharest, Romania, 27-30 May
- 341 Kavitha Chelakara Satyanarayana., Jens Abildskov, Rafiqul Gani, 2007, "Simultaneous polymer property modeling using Grid technology for structured products", ESCAPE-17, (Poster) Bucharest, Romania, 27-30 May
- 342 Rafiqul Gani, Ignacio Grossmann, 2007, "Process systems engineering and CAPE – what next?", ESCAPE-17, Bucharest, Romania, 27-30 May (**Plenary Lecture**)
- 343 Sten Bay Jørgensen, 2007, "Control in Bioprocesses - Control Design for Functionality", 16th International Conference on Process Control '07, Štrbské Pleso, High Tatras, Slovak Republik, 13 June
- 344 Niels Jensen, Sten Bay Jørgensen, Morten Lind, 2007, "Functional HAZOP", EAM'07 European Annual Conference on Human Decision-Making and Manual Control, Technical University of Denmark, Kgs. Lyngby, 21-22 June
- 345 Rafiqul Gani, 2007, "The Age of Computer Aided Modelling and Simulation for Chemical Products and Their Processes", The 2<sup>nd</sup> International Conference on Advances in Petrochemicals and Polymers (ICAPP 2007), Bangkok, Thailand, 25-28 June (**Invited Keynote Lecture**)
- 346 Vipasha Soni, Jens Abildskov, Gunnar Jonsson and Rafiqul Gani, 2007, "A General Model and Its Analysis for Membrane Based Separation Processes", The 2<sup>nd</sup> International Conference on Advances in Petrochemicals and Polymers (ICAPP 2007), Bangkok, Thailand, 25-28 June
- 347 Vipasha Soni, Jens Abildskov, Gunnar Jonsson and Rafiqul Gani, 2007, "Integrating Multilevel Modelling Aspects to Design the Membranes Using Reverse Design Algorithm", The 2<sup>nd</sup> International Conference on Advances in Petrochemicals and Polymers (ICAPP 2007), Bangkok, Thailand, 25-28 June
- 348 Oscar Andres Prado, Sten Bay Jørgensen, 2007, "Control Structure for Single Cell Protein Production in a U-Loop Reactor", NPCW14, Espoo, Helsinki, Finland, 25 August
- 349 Jakob Kjøbsted Huusom, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2007, "Data Driven Controller Tuning", NPCW14, Espoo, Helsinki, Finland, 25 August
- 350 Bernt M. Åkesson, John Bagterp Jørgensen, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2007, "Improving Model Predictive Control Performance Using Systematic Kalman Filter Tuning", NPCW14, Espoo, Helsinki, Finland, 25 August
- 351 Piotr Tomasz Mitkowski, Gunnar Jonsson, Rafiqul Gani, 2007, "Computer aided design and analysis of the hybrid processes", XIX Polish Conference of Chemical and Process Engineering, Rzeszów, Poland, 3-7 September
- 352 Jørgensen, S.B.; Jensen, N. and Lind, M., 2007, "The function of functional modelling in (bio-)chemical engineering", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September

- 353 P.T. Mitkowski, G. Jonsson, R. Gani, 2007, "Systematic analysis and design of the hybrid processes", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 354 J. Abildskov, R. Gani, 2007, "Computer-Aided Product Design – An Msc Course", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 355 K. Ch. Satyanarayana, J. Abildskov, R. Gani, 2007, "Polymer property modelling using grid technology for design of structured products", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September  
(Poster)
- 356 V. Soni, J. Abildskov, G. Jonsson, R. Gani, 2007, "Simultaneous product and processes design using reverse design algorithm", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 357 J. Abildskov, S. Christensen, G.H. Peters, F.Y. Hansen, J.P. O'Connell, 2007, "Thermodynamic Models from Fluctuation Solution Theory Analysis of Molecular Simulations", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 358 Hugo E. González, Jens Abildskov, Rafiqul Gani, 2007, "Development of Group Contribution Plus Property Models for Organic Systems", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September  
(Poster)
- 359 Milica Folić, Rafiqul Gani, Concepción Jiménez-González, David J.C. Constable, 2007, "A methodology for the design and selection of green solvents for organic reactions", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 360 Ricardo Morales-Rodríguez, Rafiqul Gani, 2007, "Computer-Aided Multiscale Product-Centric Process Modelling", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September  
(Poster)
- 361 Ravendra Singh, Krist V. Gernaey, Rafiqul Gani, 2007, "Design of Process Monitoring and Analysis Systems, using a Model-based Computer Aided Framework", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 362 Ricardo Morales-Rodríguez, Rafiqul Gani, Stéphane Déchelotte, Alain Vacher, Olivier Baudouin, 2007, "Use of CAPE-OPEN standards in the interoperability between modelling tools (MoT) and process simulators (ProSim)", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 363 Ana Martinho, Henrique A. Matos, Rafiqul Gani, 2007, "Group-contribution based method for surface tension estimation", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September  
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- 364 S. Kossack, K. Kraemer, R. Gani, W. Marquardt, 2007, "A Systematic Synthesis Framework for Extractive Distillation Processes", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 365 Ana Martinho, Henrique A. Matos, Rafiqul Gani, Bent Sarup, William Youngreen, 2007, "Modeling and simulation of vegetable oils process", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September

- 366 A.D. Enevoldsen, E. Hansen, G. Jonsson, 2007, "Electrically enhanced ultrafiltration of enzyme solutions", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 367 Søren Prip Beier, Gunnar Jonsson, 2007, "A vibrating membrane bioreactor operated at supra- and sub-critical flux: Influence of EPS from yeast cells", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September  
(Poster)
- 368 Rype, J.U., Garde, A., Vrang, A., Madsen, S., Jonsson, G., 2007, "Combining Membrane Separation and Fermentation Processes for improved performance", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 369 Bernt M. Åkesson, John Bagterp Jørgensen, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2007, "Estimation of noise covariances and identification of disturbance structure using the autocovariance least-squares method", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September
- 370 Jakob Kjøbsted Huusom, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2007, "Data Driven Tuning of Lower Level Controllers for Disturbance Rejections", European Congress of Chemical Engineering – 6 (ECCE-6), Copenhagen, Denmark, 16-20 September (poster)
- 371 Jakob Kjøbsted Huusom, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2007, "Data Driven Controller Tuning", CFG conference on optimization, Heidelberg, Germany 17-21 September (poster)
- 372 Jakob Kjøbsted Huusom, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2007, "Data Driven Controller Tuning", KTH, Stockholm, Sweden, 27 September
- 373 Rafiqul Gani, 2007, "Innovation in Integrated Chemical Product-Process Design – A Systems Approach", The First International Symposium on Sustainable Chemical Product and Process Engineering (SCPPE2007), Guangzhou, China, 25-28 September  
**(Plenary Lecture)**
- 374 Milica Folic, Rafiqul Gani, Concepción Jiménez-González and David J.C. Constable, 2007, "Systematic Selection and Design of Green Solvents for Organic Reacting Systems", The First International Symposium on Sustainable Chemical Product and Process Engineering (SCPPE2007), Guangzhou, China, 25-28 September
- 375 Dimitrios I. Georgiorgis, Rafiqul Gani and Efstratios N. Pistikopoulos, 2007, "Multiscale Modeling Aspects of Sustainable Product Engineering", The First International Symposium on Sustainable Chemical Product and Process Engineering (SCPPE2007), Guangzhou, China, 25-28 September
- 376 Niels Jensen, 2007, "Beredskabsplanlægning omkring kryogene tankvogne", meeting on "Brand i kryogen ethylentankvogn i Kolding", Brandteknisk Selskab, IDA, Denmark, 23 October
- 377 Rafiqul Gani, Henrik Wenzel, Adisa Azapagic, Michael Narodslawsky, and Concepcion Jimenez-Gonzalez, 2007, "Sustainability Principles in Practice: a Systematic Approach", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November  
**(Plenary Lecture)**
- 378 Ana I. C. S. G. Carvalho, Henrique A. S. Matos, and Rafiqul Gani, 2007, "Design of Sustainable Processes: Systematic Generation & Evaluation of Alternatives", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November

- 379 Milica Folic and Rafiqul Gani, 2007, "A Methodology for Systematic Design and Selection of Green Solvents for Increased Yield in Organic Reactions", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 377 Rafiqul Gani, 2007, "Examples of Multiscale Modelling in Chemical Product Design", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 378 Kavitha C Satyanarayana, Jens Abildskov, and Rafiqul Gani, 2007, "Polymer Property Modelling for the Design of the Structured Products", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 379 Sven Kossack, Korbinian Kraemer, Rafiqul Gani, and Wolfgang Marquardt, 2007, "Generating and Evaluating Entrainers for Extractive Distillation Processes in a Systematic Synthesis Framework", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 380 Ricardo Morales-Rodríguez, Rafiqul Gani, Alain Vacher, Pierre Castelain, and Stéphane Dechelotte, 2007, "Application of Cape-Open Standards for the Interoperability between Computer-Aided Modelling Tools and Process Simulators Prosim<sup>plus</sup>", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 381 Piotr Tomasz Mitkowski, Carsten Buchaly, Peter Kreis, Gunnar Jonsson, Rafiqul Gani, and Andrzej Górak, 2007, "Computer Aided Design, Analysis And Experimental Investigation Of Membrane Assisted Batch Reaction", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 382 Pertti S. Koukkari, Rafiqul Gani, and Risto Pajarre, 2007, "Calculation of Thermochemical Properties and Processes with the Constrained Free Energy Method", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 383 Vipasha Soni, Ricardo M. Rodriguez, Elisa Conte, and Rafiqul Gani, 2007, "A Model-Based Systems Approach for Innovation in Integrated Chemical Product-Process Design", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 384 Kavitha C Satyanarayana, Jens Abildskov, and Rafiqul Gani, 2007, "Development of Polymer Property Prediction Models in Parallel Using Grid Technology", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 385 Ravendra Singh, Krist V. Gernaey, and Rafiqul Gani, 2007, "Design of Process Monitoring and Analysis Systems", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 386 Ravendra Singh, Krist V. Gernaey, and Rafiqul Gani, 2007, "Supporting Tools for Design and Validation of Process Analytical Technology System", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November (Poster)
- 387 Jakob Kjøbsted Huusom, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2007, "A Novel Algorithm for Enhanced Convergence of the Iterative Feedback Tuning Method", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 388 Sten Bay Jørgensen, 2007, "Evolving Approaches to Modelling Bioprocesses for Control", AIChE Annual Meeting 2007, In Honour of Ed Leonards 75 anniversary, Salt Lake City, USA, 5-9 November

- 389 Florin Paul Davidescu, Sten Bay Jørgensen, 2007, "Identifiability analysis and qualitative experimental design: An enzymatic reaction network", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 390 Bernt Åkesson, John Bagterp Jørgensen, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2007, "Improving Model Predictive Control Performance Using Disturbance Estimation And Systematic Kalman Filter Tuning", AIChE Annual Meeting 2007, Salt Lake City, USA, 5-9 November
- 391 Rafiqul Gani, 2007, "Models, modeling and process systems engineering – what next?", 14<sup>th</sup> Roger Sargent Lecture 2007, Imperial College London, UK, 6 December (**Invited Lecture**)
- 392 Jakob Kjøbsted Huusom, Paloma Santacoloma Andrade, Niels Kjølstad Poulsen og Sten Bay Jørgensen, 2007, "Data Driven Tuning of Inventory Controllers", 46th IEEE Conference on Decision and Control, New Orleans, USA, 12-14 December
- 2008
- 393 Mohammad Shafique Bashir and Rafiqul Gani, 2008, "A Systematic Methodology for the Selection of Green and Non-Reactive Solvents for Multistage Organic Reactions", CAPE-Forum, Thessaloniki, Greece, 6-9 February
- 394 Naweed Al-Haque and Rafiqul Gani, 2008, "Biorefinery: Analysis of Process Design Alternatives", CAPE-Forum, Thessaloniki, Greece, 6-9 February
- 395 Rafiqul Gani, 2008, "From property prediction to process and product design", MASI (Data, Information and Knowledge in Chemical Technology), Helsinki, Finland, 6 March (**Invited Lecture**)
- 396 R. Gani, Ravendra Singh, Krist V. Gernaey, 2008, "A model-based framework for design and analysis of PAT systems", 1<sup>st</sup> European Conference on Process Analytics and Control Technology, EuroPact 2008, Frankfurt am Main, Germany, 22-25 April (**Plenary Lecture**)
- 397 I. Genné, A. Buekenhoudt, K. Wyns, G. Jonsson, H.J. Zwijnenberg, M. Nyström, A. Deratani, C. Causserand, 2008, "Towards standardisation of cut-off measurements of UF and NF membranes", Proceedings of Engineering with membranes, 25-28 May, Algarve, Portugal, pp. 60-61
- 398 J. Benavente, A. Hernández, P. Prádanos, L. Palacios, G. Jonsson, 2008, "Electrical and structural characterization of the active layer of nanofiltration membranes from salt rejection measurements and DSPM model", Proceedings of Engineering with membranes, 25-28 May, Algarve, Portugal, pp. 242-243
- 399 J. Benavente, G. Jonsson, 2008, "Stationary and non-steady state streaming potential measurements across composite RO membrane", Proceedings of Engineering with membranes, 25-28 May, Algarve, Portugal, pp. 252-253
- 400 Rafiqul Gani, 2007, "Use of Property Models in Chemical Process – Product Development – Which, When and How?", ESAT 2008, Cannes, France, 29 May – 1 June
- 401 Hugo E. Gonzáles, Jens Abildskov, Rafiqul Gani, 2008, "Computer-aided Phase Equilibria Prediction for Organic Systems: UNIFAC-CI. Analysis, Revision and Extension", ESAT 2008, Cannes, France, 29 May - 1 June

- 402 Rafiqul Gani, 2008, "Use of property models in chemical process-product development – which, when & how?", ESAT-2008, Cannes, France, 29 May - 1 June (**Plenary Lecture**)
- 403 Martin E. Christensen, John P. O’Connell, Jens Abildskov, 2008, "New method for correlating and predicting solubilities in mixed solvents", ESAT 2008, Cannes, France, 29 May – 1 June  
(Poster)
- 404 R. Wedberg, G.H. Peters, J. Abildskov, 2008, "Isothermal Compressibility from Fluctuation Solution Theory", ESAT 2008, Cannes, France, 29 May – 1 June  
(Poster)
- 405 Hugo E. González, Jens Abildskov, Rafiqul Gani, Tariq Arfat Khan and Sabyasachi Sen, 2008, "Computer-Aided Phase Equilibria Prediction for Organic Systems: Automatic Generation of Group Interaction Parameters for Original UNIFAC and UNIFAC Dortmund", ESAT 2008, Cannes, France, 29 May – 1 June  
(Poster)
- 406 Pimporn Lek-utaiwan, Rafiqul Gani, Bunyaphat Suphanit, Nakarin Mongkolsiri, 2008, "Integrated design of solvent-based extractive separation processes", ESCAPE-18, Lyon, France, 1-4 June
- 407 Merlin Alvarado-Morales, Naweed Al-Haque, Krist V. Gernaey, John M. Woodley, Rafiqul Gani, 2008, "CAPE Methods and Tools for Systematic Analysis of New Chemical Product Design and Development", ESCAPE-18, Lyon, France, 1-4 June  
(Merlin)
- 408 Ravendra Singh, Krist V. Gernaey, Rafiqul Gani, 2008, "Off-line design of PAT systems for on-line applications", ESCAPE-18, Lyon, France, 1-4 June
- 409 Ana Carvalho, Rafiqul Gani, Henrique A. Matos, 2008, "Systematic methodology for process analysis and generation of sustainable alternatives", ESCAPE-18, Lyon, France, 1-4 June
- 410 Kavitha Chelakara Satyanarayana, Jens Abildskov, Rafiqul Gani, 2008, "Computer Aided Polymer Design using Group Contribution plus Property Models", ESCAPE-18, Lyon, France, 1-4 June  
(Poster)
- 411 Rafiqul Gani, 2008, "A Model-Based Systems Approach for Integrated Chemical Product-Process Design", Process Development Symposium 2008, Jiminy Peak Resort, The Berkshires, Hancock, MA, USA, 22-25 June (**Plenary Lecture**)
- 412 Oscar Barrero Mendoza and Sten Bay Jørgensen, 2007, "Multirate Process Data Assimilation using the Extended Kalman Filtering", IFAC World Congress, Seoul, 6-11 July
- 413 Gunnar Jonsson, 2008, "Modelling aroma stripping under various forms of membrane distillation processes", International Conference on membranes and membrane processes: ICOM2008, Hawaii, USA, 12-18 July (**Keynote lecture**)
- 414 Gunnar Jonsson, 2008, "Tuning of the cut-off curves by dynamic microfiltration", International Conference on membranes and membrane processes: ICOM2008, Hawaii, USA, 12-18 July
- 415 Søren Prip Beier, Gunnar Jonsson, 2008, "Dynamic microfiltration: Investigation of critical flux measurement methods and improved macromolecular transmission", International Conference on membranes and membrane processes: ICOM2008, Hawaii, USA, 12-18 July (**Keynote lecture**)

- 416 Mohd. Kamaruddin Abd. Hamid, Rafiqul Gani, 2008, “A model-based methodology for simultaneous process design and control for chemical processes”, FOCAPO 2008 (Foundations of Computer-Aided Process Operations), Cambridge, Boston, Massachusetts, USA, June 29 - July 2, 2008
- 417 Ana Carvalho, Henrique Aníbal Matos, Rafiqul Gani, 2008, “Systematic Methodology for Continuous/ batch processes: analysis and generation of sustainable alternatives”, FOCAPO 2008 (Foundations of Computer-Aided Process Operations), Cambridge, Boston, Massachusetts, USA, 29 June – 2 July 2008
- 418 Rafiqul Gani, 2008, “The Need and Use of Thermophysical Databases in Property Modeling and for Applications in Process-Product Design”, CALCON 2008, The 63<sup>rd</sup> Colorimetry Conference, Hyatt Regency Jersey City on the Hudson, Jersey City, New Jersey, USA, 2-6 July (**Plenary Lecture**)
- 419 Oscar Andres Prado Rubio, Sten Bay Jørgensen and Gunnar Jonsson, 2008, “Integrated Bioreactor and Membrane Separation Processes”, ISGSB-08, Helsingør, Denmark, 17-20 August (Poster)
- 420 Gunnar Jonsson, 2008, “Dynamics of the ultrafiltration process”, 11<sup>th</sup> Nordic Filtration Symposium, IDA, Copenhagen, Denmark, 25-26 August, (**Keynote lecture**)
- 421 R. Fuhlendorff, J.-U. Rype, A. Garde, A. Vrang, S. Madsen, G. Jonsson, 2008, “Combining Membrane Separation and Fermentation Processes for improved performance”, 11<sup>th</sup> Nordic Filtration Symposium, IDA, Copenhagen, Denmark, 25-26 August
- 422 Søren Prip Beier, Gunnar Jonsson, 2008, “A vibrating membrane bioreactor (VMBR): Macromolecular transmission – influence of extracellular polymeric substances”, 11<sup>th</sup> Nordic Filtration Symposium, IDA, Copenhagen, Denmark, 25-26 August
- 423 R. Gani, 2008, “A process systems engineering approach for managing the complexity”, ChemPor 2008, 10<sup>th</sup> International Chemical and Biological Engineering Conference, Braga, Portugal, 4-6 September (**Plenary Lecture**)
- 424 Hugo E. González, Jens Abildskov, Rafiqul Gani, 2008, “Computer-aided Phase Equilibria Prediction for Organic Systems: UNIFAC-CI. Analysis, Revision and Extension”, ChemPor 2008, 10<sup>th</sup> International Chemical and Biological Engineering Conference, Braga, Portugal, 4-6 September
- 425 Ricardo Morales-Rodríguez, Rafiqul Gani, 2008, “Systematic Modelling Framework in Chemical Product-Process Design and development”, ChemPor 2008, 10<sup>th</sup> International Chemical and Biological Engineering Conference, Braga, Portugal, 4-6 September
- 426 Netta Liin Rossing, Morten Lind, Niels Jensen and Sten Bay Jørgensen, 2008, “A Goal Based Methodology for HAZOP Analysis”, CSEPC conference, Harbin, China, 8-10 September
- 427 Tolga Us, Niels Jensen, Morten Lind, Sten B. Jørgensen, 2008, “Fundamental Principles of Alarm Design”, CSEPC conference, Harbin, China, 8-10 September
- 428 Oscar Andres Prado Rubio, Sten Bay Jørgensen, Gunnar Jonsson, 2008, “Modelling of Electrically Driven Membrane Separation Processes”, BEC08, Supetar, Croatia, 17 September

- 429 Gernaey K.V., Sin G., Albo E., Woodley J.M., Singh R., Gani R., 2008, "Application of mechanistic models within a PAT framework", ISPE conference, Malmö, Sweden, 1 October
- 430 R. Gani, J.M. Woodley, 2008, "Development of sustainable chemical processes", RES & QUIMICA-08, III Int. Symp. of Chemical Industry and Waste, Barcelona, Spain, 22-23 October (**Invited Lecture**)
- 431 Rafiqul Gani, Concepcion Jimenez-Gonzalez, David Constable, Muhammad Shafique Bashir, 2008, "Solvents In Organic Synthesis: Replacement and Multi-Step Reaction Systems", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 432 Kavitha Chelakara Satyanarayana, Jens Abildskov, Rafiqul Gani, Georgia Tsolou, Vlasios Mavrantzas, 2008, "Atomistic Simulation of the Diffusion of Small Gas Molecules in Polyisobutylene", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 433 Hugo E. González, Jens Abildskov, Rafiqul Gani, Tariq A. Khan, Sabyasachi Sen, David Bluck, 2008, "Increased Application Range of Property Models without New Experimental Data", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 434 Rafiqul Gani, 2008, "Property Model Analysis for Use In Process-Product Development", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 435 Oscar A. Prado, Sten B. Jørgensen, Gunnar Jonsson, 2008, "Modelling of Ion Transport across Anion Exchange Membranes Under Current Reversal Conditions", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 436 Ricardo Morales-Rodríguez, Rafiqul Gani, 2008, "A Systematic Multiscale Modelling Framework for Product-Process Design and Development", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 437 Sten Bay Jørgensen, 2008, "Reactor Modelling for Monitoring and/or Multivariable Control - a Process Analytical Tool", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 438 Iskandar Halim, Ana Carvalho, Rajagopalan Srinivasan, Rafiqul Gani, Henrique A. S. Matos, 2008, "Sustainability Analysis of Chemical Process Plants Using a Hybrid Heuristic and Indicator Model", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 439 Mengzhe Wu, John Bagterp Jørgensen, Sten Bay Jørgensen, 2008, "A Dynamic Model for a Cupola Furnace", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 440 Elisa Conte, Ricardo Morales-Rodríguez, Rafiqul Gani, 2008, "The Virtual Product-Process Design Laboratory", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 441 Kavitha Chelakara Satyanarayana, Jens Abildskov, Rafiqul Gani, Georgia Tsolou, Vlasios Mavrantzas, 2008, "Computer Aided Polymer Design Using Multiscale Modeling", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November

- 442 Ravendra Singh, Krist V. Gernaey, Rafiqul Gani, 2008, "A Model-Based Framework for Systematic Product Quality Monitoring and Control", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 443 Merlín Alvarado-Morales, João Terra, Krist V. Gernaey, John Woodley, Rafiqul Gani, 2008, "Bioprocess Synthesis, Design and Analysis through a Group-Contribution Approach", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 444 Ana Carvalho, Henrique A. S. Matos, Rafiqul Gani, 2008, "Design of Sustainable Chemical Process: Systematic Retrofit Analysis Generation and Evaluation of Alternatives", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 445 Martin E. Christensen, Jens Abildskov, John P. O'Connell, 2008, "Recent Developments in Excess Solubility Estimations - Solute-Free Nonideality", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 446 Pertti S. Koukkari, Risto Pajarre, Rafiqul Gani, 2008, "Use of the Constrained FREE Energy Method for Multiphase Chemical REACTOR Simulation", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 447 Ravendra Singh, Krist V. Gernaey, Rafiqul Gani, 2008, "A Software Tool for Design of Process Monitoring and Analysis Systems", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 448 Maria Antonieta Alvarez Villanueva, Stuart M. Stock, Sten Bay Jørgensen, 2008, "Reactor Modelling for Monitoring and/or Multivariable Control – A Process Analytical Tool", AIChE Annual Meeting 2008, Philadelphia, PA, USA, 16-21 November
- 449 Jakob Kjøbsted Huusom, Håkan Hjalmarsson, Niels Kjølstad Poulsen and Sten Bay Jørgensen, 2008, "Improving Convergence of Iterative Feedback Tuning using Optimal External Perturbations", 47th IEEE Conference on Decision and Control, Cancun, Mexico, 9-11 December
- 450 Rafiqul Gani, 2008, "Models, modelling and Chemical Engineering – What Next?", ICChE (International Congress of Chemical Engineering) 2008, Dhaka, Bangladesh, 31 December 2008 – 1 January 2009
- 2009
- 451 Jamal Rashed and Rafiqul Gani, 2009, "Model-based retrofit design and analysis of petrochemical processes", in Proceedings of 1st Annual Gas Processing Symposium, Doha, Qatar, 10-12 January
- 452 Sten Bay Jørgensen, 2009, "Modelling for Process and Control Design", Nordic Process Control Workshop '09, NPCW09, Porsgrunn, Norway, 29-30 January
- 453 Oscar Andres Prado Rubio, Sten Bay Jørgensen, Gunnar Jonsson, 2009, "Modeling Reverse Electro-Enhanced Dialysis for Integration with Lactic Acid Fermentation", Nordic Process Control Workshop '09, NPCW09, Porsgrunn, Norway, 29-30 January
- 454 Jakob Kjøbsted Huusom, Håkan Hjalmarsson, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2009, "Perturbed Iterative Feedback Tuning", Nordic Process Control Workshop '09, NPCW09, Porsgrunn, Norway, 29-30 January

- 455 Sten Bay Jørgensen, 2009, “Modelling Paradigms for Process Design, Identification and Control”, MIC’09: Modelling, Identification and Control, IASTED conference, Innsbruck, Austria, 16-18 February (**Invited Keynote Lecture**)
- 456 R. Singh, K. V. Gernaey, R. Gani, 2009, “ICAS-PAT: A new software tool for systematic design/validation of process monitoring and analysis systems (PAT systems)”, APACT-09, Glasgow, UK, 5-7 May  
**AMIDIQ, Mazatlan, Mexico, 19-22 May – 4 presentations**
- 457 Rafiqul Gani, 2009, "Managing the complexity in product-process design", AMIDIQ XXX (Academia Mexicana de Investigación y Docencia en Ingeniería Química 2009), Mazatlan, Mexico, 19-22 May (**Plenary Lecture**)
- 458 Carlos A. Diaz-Tovar, Roberta Ceriani, Rafiqul Gani and Bent Sarup, 2009, "Simulation and Optimization of a Solvent Recovery Process in the Vegetable Oil Industry", AMIDIQ XXX (Academia Mexicana de Investigación y Docencia en Ingeniería Química 2009), Mazatlan, Mexico, 19-22 May
- 459 Alicia Román Martínez, Rafiqul Gani, John M. Woodley, 2009, “Design methodology for intensified bioprocesses”, AMIDIQ XXX (Academia Mexicana de Investigación y Docencia en Ingeniería Química 2009), Mazatlan, Mexico, 19-22 May
- 460 Ricardo Morales-Rodríguez, Rafiqul Gani, 2009, “Product-Process Design Multiscale Modelling Framework”, AMIDIQ XXX (Academia Mexicana de Investigación y Docencia en Ingeniería Química 2009), Mazatlan, Mexico, 19-22 May  
**FOCAPD-2009, Colorado, USA, 7-12 June – 3 presentations**
- 461 Mohd Kamaruddin Abd Hamid, Gurkan Sin, Rafiqul Gani, 2009, "Determination of optimal design and control decisions for reactor-separator systems with recycle", Foundations of Computer-Aided Process Design (FOCAPD) 2009, Breckenridge, Colorado, June 7 – 12
- 462 Gürkan Sin, Anne S Meyer, Krist V. Gernaey, 2009, “Are mechanistic cellulose-hydrolysis models reliable for use in biofuel process design? –identifiability and sensitivity analysis”, Foundations of Computer-Aided Process Design (FOCAPD) 2009, Breckenridge, Colorado, June 7 – 12
- 463 Ana Carvalho, Henrique A. Matos, Rafiqul Gani, 2009, “Analysis and generation of sustainable alternatives: Continous and batch processes using SustainPro”, Foundations of Computer-Aided Process Design (FOCAPD) 2009, Breckenridge, Colorado, June 7 – 12  
**ESCAPE-19, 2009, Cracow, Poland, 14-17 June – 10 presentations**
- 464 Ricardo Morales-Rodríguez, Rafiqul Gani, 2009, “Multiscale Modelling Framework for Chemical Product-Process Design”, 19<sup>th</sup> European Symposium on Computer Aided Process Engineering – ESCAPE19, Krakow, Poland, 13-17 June
- 465 Jakob Kjøbsted Huusom, Niels Kjølstad Poulsen, Sten Bay Jørgensen, 2009, "Data Driven Tuning of State Space Control loops with unknown state information and model uncertainty", 19<sup>th</sup> European Symposium on Computer Aided Process Engineering – ESCAPE19, Krakow, Poland, 13-17 June

- 466 Elisa Conte, Ricardo Morales-Rodriguez, Rafiqul Gani, 2009, "The Virtual Product-Process Design Laboratory as a Tool for Product Development", 19<sup>th</sup> European Symposium on Computer Aided Process Engineering – ESCAPE19, Krakow, Poland, 13-17 June
- 467 Ravendra Singh, Krist V. Gernaey, Rafiqul Gani, 2009, "A software tool for design of process monitoring and analysis systems", 19<sup>th</sup> European Symposium on Computer Aided Process Engineering – ESCAPE19, Krakow, Poland, 13-17 June
- 468 Oscar Andres Prado-Rubio, Sten Bay Jørgensen, Gunnar Jonsson, 2009, "Lactic Acid Recovery in Electro-Enhanced Dialysis: Modelling and Validation", 19<sup>th</sup> European Symposium on Computer Aided Process Engineering – ESCAPE19, Krakow, Poland, 13-17 June
- 469 Mohd. Kamaruddin Abd Hamid, Gurkan Sin, Rafiqul Gani, 2009, "A new model-based methodology for simultaneous design and control of reaction-separation systems with recycle", 19<sup>th</sup> European Symposium on Computer Aided Process Engineering – ESCAPE19, Krakow, Poland, 13-17 June
- 470 Gürkan Sin, Krist V. Gernaey, 2009, "Improving the Morris method for sensitivity analysis by scaling the elementary effects", 19<sup>th</sup> European Symposium on Computer Aided Process Engineering – ESCAPE19, Krakow, Poland, 13-17 June
- 471 Netta Liin Rossing, Morten Lind, Niels Jensen and Sten Bay Jørgensen, 2009, "A Goal Based HAZOP Assistant", 19<sup>th</sup> European Symposium on Computer Aided Process Engineering – ESCAPE19, Krakow, Poland, 13-17 June
- 472 Jamal Rashed, Rafiqul Gani, 2009, "Model-based retrofit design and analysis of petrochemical processes", 19<sup>th</sup> European Symposium on Computer Aided Process Engineering – ESCAPE19, Krakow, Poland, 13-17 June
- 473 Pimporn Lek-utaiwan, Rafiqul Gani, Bunyaphat Puphnit, Nakarin Mongkolsiri, 2009, "Integrated design of solvent based extractive separation processes including experimental validation", 19<sup>th</sup> European Symposium on Computer Aided Process Engineering – ESCAPE19, Krakow, Poland, 13-17 June
- 17<sup>th</sup> Symposium on Thermophysical Properties, Boulder, CO, USA, 21-26 June – 1 presentation**
- 474 Martin Ellegaard, Jens Abildskov, John O’Connell, 2009, "Solubility of solids in mixed solvents – modeling and data reduction", Seventeenth Symposium on Thermophysical Properties, Boulder, CO, USA, 21-26 June
- 475 Romain Privat, Rafiqul Gani and Jean-Noël Jaubert, 2009, "Prediction of thermodynamic properties of pure components and mixtures: cubic equations of state versus molecular theory-derived equations of state: a short comparison", JETC10, Copenhagen, 22-24 June
- ESAT-2009, 27 June- 1 July – 3 presentations**
- 476 Martin Ellegaard, John O’Connell, Jens Abildskov, 2009, "Corresponding states correlation for liquids densities and gas solubilities in ionic liquids", 24<sup>th</sup> European Symposium on Applied Thermodynamics, ESAT-2009, Santiato de Compostela, Spain, 27 June – 1 July

- 477 Romain Privat, Rafiqul Gani and Jean-Noël Jaubert, 2009, “Application of the GC-plus approach to PC-SAFT EOS and prediction of phase Equilibria”, 24<sup>th</sup> European Symposium on Applied Thermodynamics, ESAT-2009, Santiago de Compostela, Spain, 27 June – 1 July
- 478 Roberta Ceriani, Elisa Conte, Martin Dela Ellegaard, Carlos A. Diaz-Tovar, Cintia B. Gonçalves, Antonio J.A. Meirelles, Rafiqul Gani, 2009, “GC, GC<sup>+</sup> (Group Contribution Plus) and Atom Connectivity Index-Based Models for Physical Properties of Lipid Systems”, 24<sup>th</sup> European Symposium on Applied Thermodynamics, ESAT 2009, Santiago de Compostela, Spain, 27 June-1 July

***Accepted/planned conference presentations between July –December 2009***

Biotrans 2009, Bern, Switzerland, 5-9 July – 2 presentations (accepted)

FOMMS, Seattle, USA, 12-16 July – 2 presentations (accepted)

1<sup>st</sup> International Congress on Sustainability Science & Engineering (ICOSSE-2009), Cincinnati, USA, 10-12 August (**invited keynote lecture**)

PSE-2009, Salvador Bahia, Brazil, 16-20 August – 7 presentations (accepted) plus **one plenary lecture**

Thermodynamics 2009, London, UK, 23-25 September – 1 presentation (accepted)

AIChE Annual Meeting, Tennessee, USA, 8-13 November 2009 – 12 presentations (submitted)