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Education

21 September **2010** Università degli Studi di Cagliari, Expert in the field "Chemical Engineering Unit Operations"
28 February **2008** Università degli Studi di Cagliari, Doctor Europaeus in Industrial Engineering (thesis's title: "Optimal Retrofit and Process Design of Distillation Plants for Energy Saving and Process Intensification")
14 December **2004** Università degli Studi di Cagliari, Master degree magna cum laude in Chemical Engineering

Teaching Experience

September 2019-up to now professor of the course Chemical Process Design, Southern Denmark University
February 2018-up to now professor of the course Risk Management in Chemical and Biochemical Engineering, Southern Denmark University
August 2017-up to now professor of the course Introduction to Chemical Process Control, Southern Denmark University
July 2015-up to now professor of the course Ideal Reactor Design, Bachelor in Chemical Engineering, Southern Denmark University
July 2015-up to now professor of the course Thermodynamics, Bachelor in Chemical Engineering, Southern Denmark University
2012-2015 professor of the course Plant Design, Bachelor in Chemical Engineering, Università degli Studi di Cagliari
2011-2012 assistant of the course Thermodynamics, Bachelor in Chemical Engineering, Southern Denmark University
2011-2012 lector of the courses Industrial Separation Technologies and Chemical Process Design, Southern Denmark University
2010-2011 professor of the course Chemical Plant Design and Prevention Techniques in the Environment and Work Places, Università degli Studi di Cagliari (Faculty of Medicine)
2009-2011 professor of the course Aspen Plus for Plant Design, Bachelor in Chemical Engineering, Università degli Studi di Cagliari
2009-2010 professor of the course Unit Operations in Food Engineering, Università degli Studi di Sassari
2004-2011 assistant of the course General Chemistry, Bachelor in Engineering, Università degli Studi di Cagliari
2005-2010 assistant of the courses Environmental Conscious Chemical Plant Design, Chemical Process Design and Unit Operations in Food Engineering, Bachelor in Chemical Engineering, Università degli Studi di Cagliari

Visiting Researcher

January 2018 Federal University of Paraná, Department of Chemical Engineering
January 2015 Universidad de Guanajuato, Departamento de Ingeniería Química
March-September 2014 Southern Denmark University, KBM
January-March 2008 Lappeenranta University of Technology, Faculty of Technology
November 2006-March 2007 Lappeenranta University of Technology, Faculty of Technology

Industrial Experience

June-July 2004 Refinery Saras S.p.A. Sarroch (CA), Italy
September-October 2001 Refinery Saras S.p.A. Sarroch (CA), Italy

Educational Courses

Project Management, Odense 13-24 August **2018**
Straight to the point: Perfect Punctuation, Odense 9 March **2018**
Aspen Plus: Physical Properties for Process Engineers, Frankfurt 25-26 August **2016**
Building Custom Simulation Models using Aspen Custom Modeler, Frankfurt 14-16 March **2016**
Advanced Separation Technologies in Chemical Engineering, Berlin 20-31 August **2007**
Wastewater Treatment Plants, Cagliari 23-29 May **2006**
Life Cycle Analysis, Cagliari 18 January 2006
Process Control of Chemical Processes, Chia 19-26 June **2005**
Numerical Methods of Chemical Engineering (Metodi Matematici per l'Ingegneria Chimica), Bologna 4-8 April **2005**

Attendance at Chemical Engineering Conferences

European Symposium on Computer Aided Process Engineering, ESCAPE-27, **2017**, Barcelona
13th International Conference on Chemical & Process Engineering, ICheaP-13, **2017**, Milan
European Symposium on Computer Aided Process Engineering, ESCAPE-26, **2016**, Portoroz
European Symposium on Computer Aided Process Engineering, ESCAPE-25, **2015**, Copenhagen
European Symposium on Computer Aided Process Engineering, ESCAPE-24, **2014**, Budapest
11th International Conference on Chemical & Process Engineering, ICheaP-11, **2013**, Milan
European Symposium on Computer Aided Process Engineering, ESCAPE-22, **2012**, London
11th International Chemical and Biological Engineering Conference, CHEMPOR **2011**, Lisbon
Chemical Engineering: new trends (Ingegneria Chimica: Le Nuove Frontiere), Congress GR.I.CU., **2008**, Le Castella (Crotona), Italy
European Congress of Chemical Engineering 6, **2007**, Copenhagen
Electrochemistry for the environmental saving (Elettrochimica per il Recupero dell'Ambiente), **2007**, Cagliari, Italy
34th International Conference of Slovak Society of Chemical Engineering, **2007**, Tatranské Matliare, Slovak Republic
Distillation and Absorption 8, **2006**, London
17th International Congress of Chemical and Process Engineering, **2006**, Prague
X Congreso Mediterráneo de Ingeniería Química, **2005**, Barcelona

Review activity for International Journals and Conferences

Applied Energy, Chemical Engineering and Processing: Process Intensification, Chemical Engineering Research and Design, Chemical Engineering Science, Computers and Chemical Engineering, Desalination, Energy, Energy Technology, Industrial & Engineering Chemistry Research, International Conference on Heat Exchangers Fouling and Cleaning-2009, Journal of Chemical Technology and Biotechnology, Journal of Food Engineering, Journal of Taiwan Institute of Chemical Engineers, Korean Journal of Chemical Engineering, Separation and Purification Technology, 11th International Conference on Chemical & Process Engineering, ICheaP-11, 12th International Conference on Chemical & Process Engineering, ICheaP-12.

Prises

Innovation Day **2011**- Energy Efficiency and Renewable Energy Case Study from Fjernvarme Fyn, 6 May 2011

Publikationer

Ultrafiltration of separated digestate by tubular membranes: Influence of feed pretreatment on hydraulic performance and heavy metals removal

Camilleri Rumbau, M. S., Popovic, O., Briceno, K., Errico, M., Fjerbæk Søtoft, L., Christensen, K. V. & Norddahl, B., 15. nov. 2019, I : Journal of Environmental Management. 250, 10 s., 109404.

Investigation of the Use of Ceramic Membranes in Recovering Liquid Enzymes for Castor Oil Transesterification

Andrade, T. A., Errico, M. & Christensen, K. V., 31. maj 2019, I : Chemical engineering transactions. 74, s. 769-774

Chemical characterization and economic evaluation of the coal fly ash pre-washing and carbonation process

Mazzella, A., Errico, M. & Spiga, D., maj 2019, I : Journal of Chemical Technology and Metallurgy. 54, 4, s. 855-866

Economic value and environmental impact analysis of lignocellulosic ethanol production: assessment of different pretreatment processes

Rodrigues Gurgel da Silva, A., Giuliano, A., Errico, M., Rong, B. G. & Barletta, D., apr. 2019, I : Clean Technologies and Environmental Policy. 21, 3, s. 637-654

CO2 Capture by Reactive Absorption-Stripping: Modeling, Analysis and Design

Madeddu, C., Errico, M. & Baratti, R., 19. jan. 2019, Springer. (SpringerBriefs in Energy).

Biodiesel Production Catalyzed by Liquid and Immobilized Enzymes: Optimization and Economic Analysis

Andrade, T. A., Martin, M., Errico, M. & Christensen, K. V., jan. 2019, I : Chemical Engineering Research & Design. 141, s. 1-14

Inherently Safer Design and Optimization of Intensified Separation Processes for Furfural Production

Contreras-Zarazúa, G., Sánchez-Ramírez, E., Vázquez-Castillo, J. A., Ponce-Ortega, J. M., Errico, M., Kiss, A. A. & Segovia-Hernández, J. G., 2019, I : Industrial and Engineering Chemistry Research. 58, 15, s. 6105-6120

Reactive absorption of carbon dioxide: Modeling insights

Errico, M., Madeddu, C. & Baratti, R., 2019, *Process Intensification: Design Methodologies*. Gómez-Castro, F. I. & Segovia-Hernández, J. G. (red.). De Gruyter, s. 79-124

Solvent Recovery System for a CO₂-MEA Reactive Absorption-Stripping Plant

Madeddu, C., Errico, M., Porcu, D. & Baratti, R., 2019, I : *Chemical engineering transactions*. 74, s. 805-810

Teaching portfolio

Errico, M., 2019

Systematic procedure and framework for synthesis and evaluation of bioethanol production processes from lignocellulosic biomass

Rodrigues Gurgel da Silva, A., Errico, M. & Rong, B-G., dec. 2018, I : *Bioresource Technology Reports*. 4, s. 29-39

IProPBio - Integrated Process and Product Design for Sustainable Biorefineries

Errico, M., Coelho, J., Robalo, P., Felipe, R., Martin, M., Angeli, P., Stateva, RP., Papadaki, M., Pastore, C., Santzouk, S., Matos, HA., Bonilla-Petriciolet, A., El-Halwagi, M. & Corazza, ML., 4. okt. 2018, *The 13th International Chemical and Biological Engineering Conference (CHEMPOR 2018)*.

Aronia Berries: Extraction and characterization of valuable compounds

Zikou, E., Santzouk, S., Santzouk, G., Errico, M. & Pastore, C., 30. sep. 2018, *Fifth International Symposium on Green Chemistry, Sustainable Development and Circular Economy*.

Biomass feed stocks for sustainable and smart biorefineries

Errico, M., Yankov, D., Papadaki, M., Cholakov, G., Stateva, RP. & Coelho, J., 30. sep. 2018, *Fifth International Symposium on Green Chemistry, Sustainable Development and Circular Economy*.

Valorisation of residual biomass from the cultivation of olive trees in mountainous areas

Papadaki, M., Georgopoulos, S., Vlastos, D., Mantzavinos, D., Tsiamis, G., Errico, M., Stateva, RP., Yankov, D., Cholakov, G., Coelho, J., Felipe, R., Robalo, P., Martin, M., Matos, HA., Pastore, C., di Bitonto, L., Santzouk, S., Angeli, P., Tsaoulidis, D., Lye, GJ. & 8 flere, Bonilla Petriciolet, A., Mendoza Castillo, DI., Mannan, MS., El-Halwagi, M., Segupta, D., Mashuga, C., Corazza, ML. & Ramos, LP., 30. sep. 2018, *Fifth International Symposium on Green Chemistry, Sustainable Development and Circular Economy*.

Treatment costs of ammonia recovery from biogas digestate by air stripping analyzed by process simulation

Errico, M., Fjerbaek Sotof, L., Kjærhuus Nielsen, A. & Norddahl, B., sep. 2018, I : *Clean Technologies and Environmental Policy*. 20, 7, s. 1479–1489

Evaluation of the Optimal Reaction Conditions for the Methanolysis and Ethanolysis of Castor Oil Catalyzed by Immobilized Enzymes

Andrade, T. A., Al-Kabalawi, I. F., Errico, M. & Christensen, K. V., 7. jun. 2018, *European Biomass Conference and Exhibition Proceedings 2018*. ETA-Florence Renewable Energies, s. 1044-1050 (European Biomass Conference and Exhibition, Bind 26).

Evaluation of the Optimal Reaction Conditions for the Methanolysis and Ethanolysis of Castor Oil Catalyzed by Immobilized Enzymes

Andrade, T. A., Al-Kabalawi, I. F., Errico, M. & Christensen, K. V., 14. maj 2018. 1 s.

Evaluation of the Optimal Reaction Conditions for the Methanolysis and Ethanolysis of Castor Oil Catalyzed by Immobilized Enzymes

Andrade, T. A., Al-Kabalawi, I., Errico, M. & Christensen, K. V., 12. apr. 2018, s. 64. 1 s.

Process analysis for the carbon dioxide chemical absorption–regeneration system

Madeddu, C., Errico, M. & Baratti, R., 1. apr. 2018, I : *Applied Energy*. 215, s. 532-542 11 s.

Biobutanol purification by liquid-liquid extraction assisted divided wall columns

Sánchez-Ramírez, E., Quiroz-Ramírez, J. J., Segovia-Hernandez, J. G. & Errico, M., 2018, *Chemical Engineering Transactions*. AIDIC, s. 217-222 (Chemical engineering transactions, Bind 69).

Evaluation of organosolv pretreatment for bioethanol production from lignocellulosic biomass: solvent recycle and process integration

da Silva, A. R. G., Errico, M. & Rong, B. G., 2018, I : *Biomass Conversion and Biorefinery*. 8, 2, s. 397-411

Techno-economic analysis of organosolv pretreatment process from lignocellulosic biomass

Rodrigues Gurgel da Silva, A., Errico, M. & Rong, B-G., 2018, I : *Clean Technologies and Environmental Policy*. s. 1-12

Transesterification of Castor Oil Catalyzed by Liquid Enzymes: Optimization of Reaction Conditions

Andrade, T. A., Errico, M. & Christensen, K. V., 2. okt. 2017. 1 s.

Biobutanol purification by hybrid extraction-divided wall column configurations

Errico, M., Sanchez-Ramirez, E., Quiroz-Ramírez, J. J., Rong, B-G. & Segovia Hernandez, J. G., 2017, *27th European Symposium on Computer Aided Process Engineering*. Espuña, A., Graells, M. & Puigjaner, L. (red.). Elsevier, s. 1027-1032 (Computer Aided Chemical Engineering, Bind 40).

Castor Oil Transesterification Catalysed by Liquid Enzymes: Feasibility of Reuse under Various Reaction Conditions

Andrade, T., Errico, M. & Christensen, K. V., 2017, I : *Chemical engineering transactions*. 57, s. 913-918

Control properties of hybrid distillation processes for the separation of biobutanol

Sánchez-Ramírez, E., Alcocer-García, H., Quiroz-Ramírez, J. J., Ramírez-Márquez, C., Segovia-Hernández, J. G., Hernández, S., Errico, M. & Castro-Montoya, A. J., 2017, I : *Journal of Chemical Technology and Biotechnology*. 92, 5, s. 959–970

Evaluation of reaction mechanisms and the kinetic parameters for the transesterification of castor oil by liquid enzymes

Andrade, T. A., Errico, M. & Christensen, K. V., 2017, I : *Industrial & Engineering Chemistry Research*. 56, 34, s. 9478-9488

Influence of the reaction conditions on the enzyme catalyzed transesterification of castor oil: a possible step in biodiesel production

Andrade, T. A., Errico, M. & Christensen, K. V., 2017, I : *Bioresource Technology*. 243, s. 366–374

Integrated Synthesis and Differential Evolution Methodology for Design and Optimization of Distillation Processes

Errico, M., Torres-Ortega, C. E. & Rong, B-G., 2017, *Differential Evolution in Chemical Engineering: Developments and Applications*. Rangaiah, G. P. & Sharma, S. (red.). World Scientific, s. 230-259 (Advances in Process Systems Engineering, Bind 6).

Multiobjective Optimal Acetone–Butanol–Ethanol Separation Systems Using Liquid–Liquid Extraction-Assisted Divided Wall Columns

Errico, M., Sánchez-Ramírez, E., Quiroz-Ramírez, J. J., Rong, B-G. & Segovia-Hernandez, J. G., 2017, I : *Industrial & Engineering Chemistry Research*. 56, 40, s. 11575-11583

Process alternatives for bioethanol production from organosolv pretreatment using lignocellulosic biomass

Rodrigues Gurgel da Silva, A., Errico, M. & Rong, B-G., 2017, *Proceedings of the 13th International Conference on Chemical and Process Engineering*. Pierucci, S., Klemeš, J. J., Piazza, L. & Bakalis, S. (red.). AIDIC, s. 1-6 (Chemical engineering transactions, Bind 57).

Process design and economic evaluation of green extraction methods for recovery of astaxanthin from shrimp waste

Razi Parjkolaei, B., Errico, M., El-Houri, R. B., Serrano, C. M., Fretté, X. & Christensen, K. V., 2017, I : *Chemical Engineering Research & Design*. 117, s. 73-82

Process synthesis and intensification of hybrid separations

Errico, M., 2017, *Process Synthesis and Process Intensification: Methodological Approaches*. Rong, B-G. (red.). De Gruyter, s. 182-212 (De Gruyter Textbook).

Proper Estimation of the Energy Consumption in A Carbon Dioxide-MEA Stripper

Madeddu, C., Errico, M. & Baratti, R., 2017.

Rigorous Modeling of a CO₂-MEA Stripping System

Madeddu, C., Errico, M. & Baratti, R., 2017, *Proceedings of the 13th International Conference on Chemical and Process Engineering*. Pierucci, S., Klemeš, J. J., Piazza, L. & Bakalis, S. (red.). The Italian Association of Chemical Engineering, Online at www.aidic.it/cet : AIDIC, Bind 57. s. 451-456 (Chemical engineering transactions, Bind 57).

Solvent Recycle and Impurity Purge Evaluation for Organosolv Pretreatment Method for Bioethanol Production from Lignocellulosic Biomass

Rodrigues Gurgel da Silva, A., Errico, M. & Rong, B-G., 2017, *27th European Symposium on Computer Aided Process Engineering*. Espuña, A., Graells, M. & Puigjaner, L. (red.). Elsevier, s. 1141-1146 6 s. (Computer Aided Chemical Engineering, Bind 40).

Transesterification of Castor Oil Catalyzed by Liquid Enzymes: Optimization of Reaction Conditions

Andrade, T., Errico, M. & Christensen, K. V., 2017, *27th European Symposium on Computer Aided Process Engineering: Part A*. Espuña, A., Graells, M. & Puigjaner, L. (red.). Elsevier, s. 2863-2868 (Computer Aided Chemical Engineering, Bind 40).

Green Approaches to Extract Astaxanthin from Shrimp Waste: Process Design and Economic Evaluation

Razi Parjokolaei, B., Errico, M., El-Houri, R. B., Christensen, K. V. & Fretté, X., 12. jun. 2016, *Computer - Aided Chemical Engineering*. Kravanja, Z. & Bogataj, M. (red.). Amsterdam: Elsevier, s. 649-654 (Computer Aided Chemical Engineering, Bind 38).

Green Approaches to Extract Astaxanthin from Shrimp Waste: Process Design and Economic Evaluation

Razi Parjokolaei, B., Errico, M., El-Houri, R., Christensen, K. V. & Fretté, X., 12. jun. 2016.

Adsorption of zinc ions on bone char using helical coil-packed bed columns and its mass transfer modeling

Moreno-Pérez, J., Bonilla-Petriciolet, A., Rojas-Mayorga, C. K., Mendoza-Castillo, D. I., Mascia, M. & Errico, M., 2016, I : *Desalination and Water Treatment*. 57, 51, s. 24200-24209

CO₂ uptake capacity of coal fly ash: Influence of pressure and temperature on direct gas-solid carbonation

Mazzella, A., Errico, M. & Spiga, D., 2016, I : *Journal of Environmental Chemical Engineering*. 4, 4, Part A, s. 4120-4128

Dynamic behavior of the intensified alternative configurations for quaternary distillation

Ramirez-Marquez, C., Cabrera-Ruiz, J., Juan Gabriel Segovia-Hernandez, J. G., Hernández, S., Errico, M. & Rong, B-G., 2016, I : *Chemical Engineering and Processing*. 108, s. 151-163

Energy consumption maps for quaternary distillation sequences

Gomez-Castro, F. I., Ramírez-Vallejo, N. E., Segovia-Hernandez, J. G., Gutiérrez-Antonio, C., Errico, M., Briones-Ramírez, A. & Sánchez-Aguilar, J., 2016, *26th European Symposium on Computer Aided Process Engineering*. Kravanja, Z. & Bogataj, M. (red.). 1. udg. Elsevier Masson, s. 121-126 (Computer Aided Chemical Engineering, Bind 38).

Model calibration for the carbon dioxide-amine absorption system

Errico, M., Madeddu, C., Pinna, D. & Baratti, R., 2016, I : *Applied Energy*. 183, s. 958-968

Synthesis and Design of New Hybrid Configurations for Biobutanol Purification

Errico, M., Sanchez-Ramirez, E., Quiroz-Ramirez, J. J., Segovia-Hernández, J. G. & Rong, B-G., 2016, I : *Computers & Chemical Engineering*. 84, s. 482-492

Systematic Synthesis of Intensified Distillation Systems

Errico, M. & Rong, B-G., 2016, *Process Intensification in Chemical Engineering: Design Optimization and Control*. Segovia-Hernández, J. G. & Bonilla-Petriciolet, A. (red.). Springer, s. 35-64

Alternative Hybrid Liquid-Liquid and Distillation Sequences for the Biobutanol Separation

Errico, M., Sanchez-Ramirez, E., Quiroz-Ramirez, J. J., Segovia-Hernández, J. G. & Rong, B-G., 2015, I : *Computer Aided Chemical Engineering*. 37, s. 1127-1132

Alternative Petlyuk Distillation Configurations for the Separation of Four-Component Mixtures

Errico, M., Pirellas, P., Rong, B-G. & Segovia-Hernandez, J. G., 2015, I : *Industrial & Engineering Chemistry Research*. 54, 17, s. 4788-4794

Design and control of an alternative distillation sequence for bioethanol purification

Errico, M., Ramírez-Márquez, C., Torres Ortega, C. E., Rong, B. G. & Segovia-Hernandez, J. G., 2015, I : *Journal of Chemical Technology and Biotechnology*. 90, 12, s. 2180-2185 6 s.

Design and Optimization of Intensified Non-Sharp Distillation Configurations

Torres Ortega, C. E., Strieker, K., Errico, M. & Rong, B-G., 2015, I : *Computer Aided Chemical Engineering*. 37, s. 1055-1060

Design and Optimization of Intensified Quaternary Petlyuk Configuration

Errico, M., Pirellas, P., Rong, B. G. & Segovia-Hernandez, J. G., 2015, *12th International Symposium on Process Systems Engineering*. Gernaey, K. V., Huusom, J. K. & Gani, R. (red.). Elsevier, s. 1367-1372 (Computer Aided Chemical Engineering; Nr. Part B, Bind 37).

Design and Optimization of Modified non-Sharp Column Configurations for Quaternary Distillations

Torres Ortega, C. E., Errico, M. & Rong, B-G., 2015, I : *Computers & Chemical Engineering*. 74, s. 15-27

A combined method for the design and optimization of intensified distillation systems

Errico, M., Pirellas, P., Torres Ortega, C. E., Rong, B-G. & Juan Gabriel Segovia-Hernandez, J. G., 2014, I : *Chemical Engineering and Processing*. 85, s. 69-76

New intensified distillation systems for quaternary Petlyuk configuration

Rong, B-G., Errico, M. & Segovia-Hernandez, J. G., 2014, *Computer Aided Chemical Engineering*. Elsevier, s. 97-102 (Computer Aided Chemical Engineering, Bind 33).

Optimization of alternative distillation sequences for natural gas sweetening

Torres Ortega, C. E., Segovia-Hernandez, J. G., Gomez-Castro, F. I., Hernández, S., Bonilla-Petriciolet, A., Rong, B-G. & Errico, M., 2014, I : *Computer Aided Chemical Engineering*. 33, s. 1201-1206

Process control analysis for intensified bioethanol separation systems

Segovia-Hernandez, J. G., Vazquez-Ojeda, M., Ramirez-Marquez, C., Errico, M., Tronci, S. & Rong, B-G., 2014, I : *Chemical Engineering and Processing*. 75, s. 119-125

The importance of the sequential synthesis methodology in the optimal distillation sequence design

Errico, M., Rong, B-G., Torres Ortega, C. E. & Segovia-Hernandez, J. G., 2014, I : *Computers & Chemical Engineering*. 62, s. 1-9

The integration of the synthesis methodology in the design of a five component distillation sequence

Errico, M., Pirellas, P., Rong, B-G., Torres Ortega, C. E. & Segovia-Hernandez, J. G., 2014, I : *Computer Aided Chemical Engineering*. 33, s. 1363-1368

Design and Optimization of a Process Based on Extractive Distillation for the Sweetening Natural Gas

Torres Ortega, C. E., Segovia Hernandez, J. G., Gomez Castro, F. I., Hernandez, S., Rong, B-G. & Errico, M., 2013, *Chemical Engineering Transactions*. Pierucci, S. & Klemes, J. J. (red.). AIDIC, Bind 32. s. 1357-1362 (Chemical engineering transactions, Bind 32).

Design and Synthesis of Alternative Petlyuk Configurations for Quaternary Distillations

Rong, B-G., Errico, M., Torres Ortega, C. E. & Segovia-Hernandez, J. G., 2013.

Design, Optimization and Controllability of an Alternative Process Based on Extractive Distillation for an Ethane-Carbon Dioxide Mixture

Torres Ortega, C. E., Segovia-Hernandez, J. G., Gomez-Castro, F. I., Hernandez, S., Bonilla-Petriciolet, A., Rong, B-G. & Errico, M., 2013, I : *Chemical Engineering and Processing*. 74, s. 55-68

Dynamic Behavior of Alternative Separation Processes for Ethanol Dehydration by Extractive Distillation

Ramirez-Marquez, C., Segovia-Hernandez, J. G., Hernandez, S., Errico, M. & Rong, B-G., 2013, I : *Industrial & Engineering Chemistry Research*. 52, s. 17554-17561

Il Tutor di Chimica: Esercizi di Chimica Generale Svolti e Ragionati

Da Pozzo, A. & Errico, M., 2013, SGEEditoriali-Padova.

Optimal synthesis and design of extractive distillation systems for bioethanol separation: From simple to complex columns

Errico, M., Rong, B. G. & Tola, G., 2013, *Computer Aided Chemical Engineering*. Elsevier, s. 373-378 (Computer Aided Chemical Engineering, Bind 32).

Optimal synthesis of distillation systems for bioethanol separation. Part 1: Extractive distillation with simple columns

Errico, M., Rong, B-G., Tola, G. & Spano, M., 2013, I : *Industrial & Engineering Chemistry Research*. 52, 4, s. 1612-1619

Optimal synthesis of distillation systems for bioethanol separation. Part 2: Extractive distillation with complex columns

Errico, M., Rong, B-G., Tola, G. & Spano, M., 2013, I : *Industrial & Engineering Chemistry Research*. 52, 4, s. 1620-1626

A systematic procedure for synthesis of intensified simple column configurations for multicomponent distillations

Rong, B-G. & Errico, M., 2012, I : *Computer Aided Chemical Engineering*. 31, s. 1572-1576

Modified simple column configurations for quaternary distillations

Errico, M. & Rong, B-G., 2012, I : *Computers & Chemical Engineering*. 36, s. 160-173

New distillation sequences for bioethanol production by extractive distillation

Errico, M. & Rong, B-G., 2012, I : *Computer Aided Chemical Engineering*. 30, s. 737-741

Synthesis of intensified simple column configurations for multicomponent distillations

Rong, B-G. & Errico, M., 2012, I : *Chemical Engineering and Processing*. 62, s. 1-17

Synthesis of new separation processes for bioethanol production by extractive distillation

Errico, M. & Rong, B-G., 2012, I : *Separation and Purification Technology*. 96, s. 58-67

A Systematic Procedure for Synthesis of Intensified Simple Column Configurations for Multicomponent Distillations

Rong, B-G. & Errico, M., 2011.

Intensified distillation sequences with a vapor interconnection stream

Errico, M. & Rong, B-G., 2011. 2 s.

New distillation sequences for bioethanol production by extractive distillation

Errico, M. & Rong, B-G., 2011.

A method for systematic synthesis of multicomponent distillation systems with less than n-1 columns

Errico, M., Rong, B-G., Tola, G. & Turunen, I., 2009, I : Chemical Engineering and Processing. 48, 4, s. 907-920 14 s.

Energy saving and capital cost evaluation in distillation column sequences with a divided wall column

Errico, M., Tola, G., Rong, B-G., Demurtas, D. & Turunen, I., 2009, I : Chemical Engineering Research & Design. 87, 12, s. 1649-1657 9 s.

Energy saving in a crude distillation unit by preflash implementation

Errico, M., Tola, G. & Mascia, M., 2009, I : Applied Thermal Engineering. 29, s. 1642 1647 s.

Energy saving in multicomponent distillation by divided wall

Errico, M., Mascia, M., Mulas, M. & Tola, G., 2009.

Process intensification for the retrofit of a multicomponent distillation plant - an industrial case study

Errico, M., Rong, B-G., Tola, G. & Turunen, I., 2008, I : Industrial & Engineering Chemistry Research. 47, 6, s. 1975-1980

The dividing wall distillation column for the separation of multicomponent mixtures

Errico, M., Tola, G., Rong, B-G., Demurtas, D. & Turunen, I., 2008.

A deterministic algorithm for synthesis of maximum energy recovery

Errico, M., Maccioni, S., Tola, G. & Zuddas, P., 2007, I : Computers & Chemical Engineering. 31, s. 773 781 s.

Design of heat integrated distillation system for a light ends separation plant

Mascia, M., Ferrara, F., Vacca, A., Tola, G. & Errico, M., 2007, I : Applied Thermal Engineering. 27, s. 1205 1211 s.

Divided wall column in a multicomponent distillation sequence

Errico, M., Tola, G. & Mascia, M., 2007.

Energetic analysis of a crude distillation plant: a case study

Mascia, M., Errico, M. & Tola, G., 2007.

Process Intensification for optimal retrofit of multicomponent distillation plant - a real industrial case study

Errico, M., Rong, B-G., Tola, G. & Turunen, I., 2007.

Effect of microwave radiation on the grow rate of bacillus clausii at 37 C

Errico, M., Desogus, F. & Carta, R., 2006.

Heat integration between crude distillation unit and fluid catalytic cracking

Errico, M., Mascia, M. & Tola, G., 2006.

Influence of the soil solution composition on the retention of cadmium in clay minerals

Polcaro, A. M., Vacca, A., Mascia, M., Palmas, S. & Errico, M., 2006.

Optimal distillation sequences for four component mixtures

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