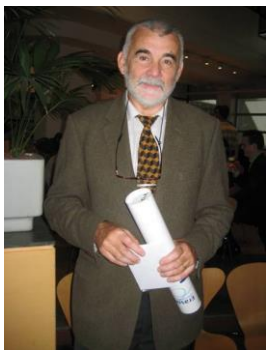
Žarko Olujić – Bibliography (1970-2023)



The chemical engineering career of Žarko Olujić, a Fellow of American Institute of Chemical Engineering (AIChE), who earned all his academic degrees from the University of Zagreb, Croatia (1969 - Dipl. Ing. Chemical and Petroleum Technology, at Sisak, 1975 - MSc in Chemical Engineering, and 1976 - DSc. in Process Engineering), knows four distinctive periods.

(i) During the first one, from the end of 1969 to mid 1987, being employee of the University of Zagreb including one year of military service and a two years (1974-1976) research period as DAAD fellow and Research associate at the University of Karlsruhe in Germany, he climbed up the academic ladder from research and teaching assistant to full professor at the Faculty of Chemical Technology of the University of Zagreb.

(ii) During the second one, from June 1987 to the early retirement at the end of 2005, he was employed as an Associate Professor at the Laboratory for process equipment (Mechanical Engineering Department) of the Delft University of Technology (TU Delft) in the Netherlands.

(iii) During the third, postretirement period, from 2006 to the end of 2016, he acted as an independent scientific consultant (ZO Consulting from 2006 to 2012) and an external teaching and research associate at Process and Energy Department of TU Delft. From 2012 to 2016 he had a guest researcher affiliation with TU Delft that came to an end upon reaching the age of 70 in 2016. Liberated from intensive administration and education related burdens he increased his research effort focusing on improvement of structured packing performance and related predictive models, including packed column internals, in support of main research interest oriented towards maximizing the energy efficiency of distillation, as a prerogative for reducing effectively the carbon dioxide footprint of distillation intensive process industries, with particular emphasis on internal heat integration in case of energy intensive single heat pump assisted columns (HIDiC) and three column sequences arranged within one shell (DWC).

(iv) 2017 was the opening year of a fourth career step, a free of affiliation period with continuation of scientific activities focused mainly on supporting R&D at J. Montz GmbH, which, however, came to an end halfway the 2019 when Montz became a part of Koch-Glitsch. He is still active academically and as a scientific consultant on occasions.

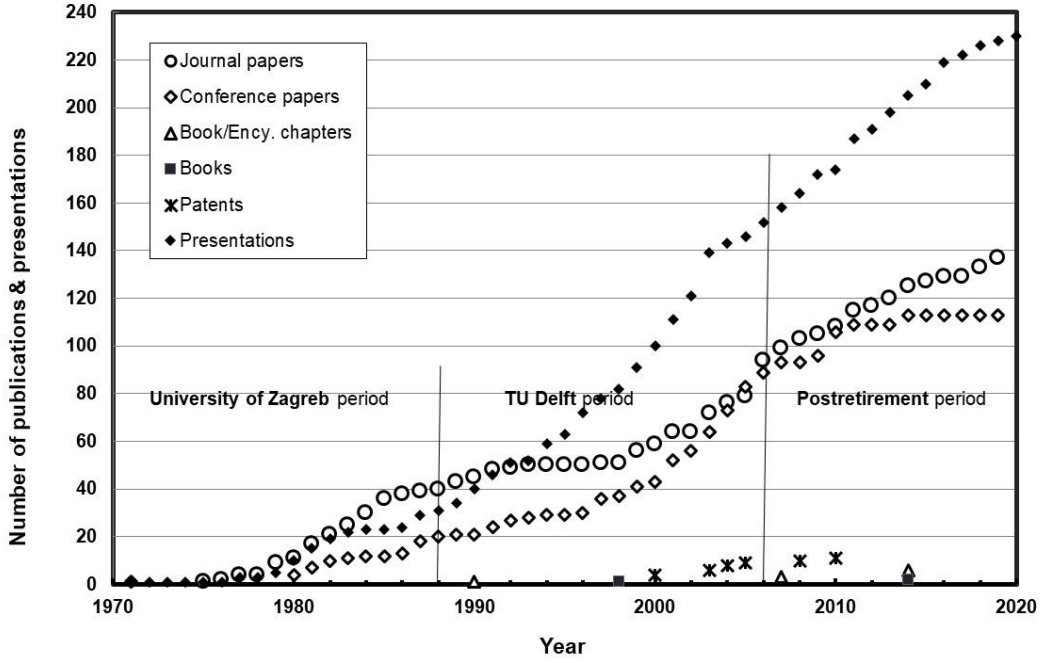
After staying for around 35 years in the Netherlands, Žarko spends his retirement days with his wife Ružica in Makarska, their coastal Adriatic Sea hometown in Croatia.

Although throughout his entire active academic career the most of his effort and time was devoted to teaching, Žarko managed to produce a considerable scientific output. He authored some 250 journal and conference papers, six chapters in books and encyclopedia, and co-authored two chemical engineering books, as well as eleven patents on two inventions.

It is interesting (see the graph on next page) that his publication productivity was most intensive during his postretirement period, including a three years effort spent in cooperation with Prof. Andrzej Gorak (University of Dortmund), Dr. Hartmut Schoemakers (retired, former BASF) and Prof. Eva Sorensen (UCL, London) on preparing PROSE 2015 Award winning books covering the state of the art in all fields of distillation technology.

During his active time Žarko has supervised research carried our within the scope of 10 PhD and well above 150 graduation and MSc theses, and has cooperated actively with very many people from academia, research institutions and industry worldwide.

Output over the years



Besides his long standing membership at AIChE (since 1982), which included a long period of being active as vice-chairman of Distillation group of Separations Division, Žarko took part in activities and has been active contributor since 1990 to both the EFCE WP Fluid Separations (at that time Distillation and Absorption), where he became an invited member in 2000, and German WP Fluid Separations (at that time Distillation, Absorption and Extraction), where he acted for 30 years as a guest with permanenent invitation. As active contributor he participated in all Distillation and Absorption conferences since 1992.

From his professional beginnings on, Žarko also participated in and supported various activities of nacional chemical engineering organizations in former Yugoslavia, Netherlands and in Croatia.

PATENTS:

G. Kaibel, U. Rheude, M. Stroezel, J. de Graauw, **Ž. Olujić**, G. Frey, H. Jansen
Packung für Stoffaustauschkolonne
AT193462T (15-06-2000)
DE59701788D (06-07-2000)

Packing for Mass Transfer Columns
EP0785019 (30-05-2000)
ES2146929 (16-08-2000).

J. de Grauuw, M.J. Steenbakker, A. de Rijke, **Ž. Olujić**, P.J. Jansens
Heat Integrated Distillation Column
NL1022444 (29-07-2003)
WO 03061802 A1 (31-07-2003)
EP1476235 (17-11-2004)
CA2474061 (22-07-2004)
US2005121303 (09-06-2005)
JP 4199125 (10-10-2008)
US 7,678,263 B2 (16-03-2010).

BOOKS:

F. Šef, **Ž. Olujić**
Projektiranje procesnih postrojenja ("*Process Plant Design*", in Croatian)
Kemija u Industriji, Zagreb, **1988**, 536 p.

A.Gorak, **Ž. Olujić**
*Distillation – Equipment and Processes**
Elsevier/Academic Press, **2014**, 351 p.

*Winner of PROSE Award of American Association of Publishers in category Chemistry and Physics for 2015.

CHAPTERS in books and encyclopedia:

M. Gjumbir, **Ž. Olujić**
Non-linear Equations, Solutions
Encyclopedia of Chemical Processing and Design (Editors: J.J. McKetta and W.A. Cuninnigham), Marcel Dekker, New York, **1990**, Vol. 31, pp. 318-331.

Ž. Olujić
DISTILLATION | *Packed Columns: High Capacity Internals*
Encyclopedia of Separation Sciences, Online Update 1 © **2007** (www.sciencedirect.com) ISBN: 978-0-12-226770-3, Editors: I. D. Wilson, C. F. Poole, M. Cooke

Ž. Olujić
DISTILLATION | *High and Low Pressure Distillation*
Encyclopedia of Separation Sciences, Online Update 1 © **2007** (www.sciencedirect.com) ISBN: 978-0-12-226770-3, Editors: I. D. Wilson, C. F. Poole, M. Cooke

Ž. Olujić
DISTILLATION | *Packed Columns: High Capacity Internals*
In: Reedijk, J. (Ed.) Elsevier Reference Module in Chemistry, Molecular Sciences and Chemical Engineering, **2014**. Waltham, Ma: Elsevier. Doi:10.1016/8978-012226770-3/10670-3.

Ž. Olujić
Chapter 1: *Types of Distillation Column Internals* (in: A. Gorak, Ž. Olujić, Editors, Distillation – Equipment and Processes*,* Academic Press/Elsevier, **2014**).

Ž. Olujić
Chapter 9: *Vacuum and High Pressure Distillation* (in: A. Gorak, Ž. Olujić, Editors, Distillation – Equipment and Processes*,* Academic Press/Elsevier, **2014**).

EDITORIALS

M.J. Lockett, **Ž. Olujić**
Editorial Festschrift in Honour of F.J. Zuiderweg
Chem. Eng. Res. Des. - Trans IChemE, Vol 77, Part A, September **1999**, 473.

Ž. Kurtanjek, **Ž. Olujić**
Editorial in Honour of Prof. Egon Bauman
Chem. Biochem. Eng. Q. 18 (**2004**).

OPEN ACCESS publications

Ž. Olujić
Public report: *Standardization of structured packing efficiency measurements* (version II, **2009**), http://www.tkk.fi/Units/ChemEng/efce/2008/presentations/Olujic-document.pdf
https://www.semanticscholar.org/paper/A-Report-on-STANDARDIZATION-OF-STRUCTURED-PACKING-A-Olujić

JOURNAL papers:

Ž. Olujić
Dvofazna strujanja u cijevima – I. Horizontalna dvofazna strujanja ("*Two-phase flow in pipes – I. Horizontal two-phase flows*")
Kemija u industriji (Zagreb) 24 (**1975**) 607-613.

Ž. Olujić
Pad tlaka pri valovitom dvofaznom strujanju u cijevima ("*Pressure drop of wavy two-phase flow in pipes*")
Kemija u industriji (Zagreb) 25 (**1976**) 327-332.

Ž. Olujić
Dvofazna strujanja u cijevima – II. Vertikalna dvofazna strujanja ("*Two-phase flow in pipes – II. Vertical two-phase flows*")
Kemija u industriji (Zagreb) 26 (**1977**) 285-291.

Ž. Olujić, E. Bauman
Mogućnosti primjene programirajućih džepnih računala u kemijskom inženjerstvu ("*Application possibilities for programmable pocket calculators in chemical engineering*")
Kemija u industriji (Zagreb) 26 (**1977**) 631-638.

V. Janeš, **Ž. Olujić**
Izračunavanje sastava izlaznih struja pri apsorpciji lakih ugljikovodika u kolonama sa tavanima ("*Computation of product stream compositions by the absorption of light hydrocarbons in tray columns*")
Nafta (Zagreb) 30 (**1979**) 63-71.

Ž. Olujić, J.M. Chawla
Pad tlaka trenjem izotermnog dvofaznog strujanja plinsko-kapljevinskih smjesa većih omjera viskoznosti. I ("*Frictional pressure drop in isothermal horizontal two-phase gas-liquid flow of mixtures with large viscosity ratios. I*")
Kemija u industriji (Zagreb) 28 (**1979**) 305-312.

Ž. Olujić, J.M. Chawla
Pad tlaka trenjem izotermnog dvofaznog strujanja plinsko-kapljevinskih smjesa većih omjera viskoznosti. II ("*Frictional pressure drop in isothermal horizontal two-phase gas-liquid flow of mixtures with large viscosity ratios. II*")
Kemija u industriji (Zagreb) 28 (**1979**) 355-363.

Ž. Olujić, E. Bauman
Utjecaj hrapavosti stijenki na pad tlaka trenjem kod horizontalnog dvofaznog strujanja plin-kapljevina ("Effect of pipe roughness on pressure drop of horizontal two-phase flow of gas-liquid mixtures")
Kemija u industriji (Zagreb) 28 (**1979**) 581-587.

Ž. Olujić, V. Janeš
No-estimate short-cut calculation method for absorbers
Computers & Chemical Engineers 3 (**1979**) 543-546.

Ž. Olujić, V. Dejdar, V. Simončič
Predvidjanje pojavnih oblika pri horizontalnom dvofaznom strujanju plinsko kapljevinskih smjesa u cijevima ("Prediction of flow patterns in horizontal two-phase gas-liquid pipe flow")
Kemija u industriji (Zagreb) 29 (**1980**) 543-549.

Ž. Olujić, V. Janeš
Egzaktno izračunavanje apsorpcije i stripiranja višekomponentnih smjesa ugljikovodika ("*Exact calculation of the absorption and stripping of the multicomponent hydrocarbon mixtures*")
Nafta (Zagreb) 31 (**1980**) 611-622.

Ž. Olujić
Izračunavanje koeficijenata polinoma drugog reda uz pomoć programirajućeg džepnog računala ("*Calculation of the of coefficients of second degree polynomial using the programmable pocket calculator*")
Nafta (Zagreb) 32 (**1981**) 255-260.

M. Gjumbir, **Ž. Olujić**
Algoritam za efikasnije rješavanje jedne nelinearne jednadžbe primjenjen kod izračunavanja Underwoodovog parametra θ ("Algorithm for efficient solving one nonlinear equation applied to computation of Underwood's parameter θ")
Kemija u industriji (Zagreb) 30 (**1981**) 411-415.

Ž. Olujić
Brzopotezno izračunavanje kolona za rektifikaciju višekomponentnih smjesa ugljikovodika ("*Short-cut calculation of rectification columns for separation of multicomponent hydrocarbon mixtures*")
Nafta (Zagreb) 32 (**1981**) 401-409.

Ž. Olujić
Compute friction factors fast for flow in pipes
Chemical Engineering 88 (**1981**) 25, 91-93.

Ž. Olujić
Optimum reflux ratio
Chemical Engineering 88 (**1981**) 25, 184.

Ž. Olujić, M. Gjumbir
Program i algoritam za rješavanje nelinearne jednadžbe primjenom modificirane Newtonove metode ("Program and algorithm for solving a nonlinear equation by a modified Newton method)
Kemija u industriji (Zagreb) 30 (**1981**) 727-729.

Ž. Olujić, M. Gjumbir
Izračunavanje vrelišta i rosišta višekomponentnih smjesa pojednostavljenom Newtonovom metodom ("Bubble and dew point calculations by use of a simplified Newton method)
Nafta (Zagreb) 33 (**1982**) 89-93.

Ž. Olujić
Pad tlaka i zadržaj faza horizontalnog mjehurastog strujanja ("*Pressure drop and void fraction in horizontal bubble flow*")
Kemija u industriji (Zagreb) 31 (**1982**) 245-252.

M. Gjumbir, **Ž. Olujić**
Izračunavanje molarnog volumena plinova jednadžbom stanja Redlicha i Kwonga ("The calculation of molar volume of gases with the Redlich-Kwong equation of state")
Kemija u industriji (Zagreb) 31 (**1982**) 313-319.

Ž. Olujić, M. Gjumbir
Malo poznati algoritmi za rješavanje nelinearnih jednadžbi i njihova primjena u kemijsko-inženjerskoj praksi ("Less known algorithms for solving single nonlinear equations and their application to chemical engineering practice")
Hemija u industriji (Beograd) 36 (**1982**) 256-259.

Ž. Olujić, M. Gjumbir
Odredjivanje koeficijenata polinoma trećeg stupnja ("The determination of the coefficients of a third degree polynomial")
Kemija u industriji (Zagreb) 33 (**1983**) 133-136.

Ž. Olujić, F. Šef
Uradi sam – projektiranje procesnih postrojenja ("Do it yourself – design of chemical plants")
Nafta (Zagreb) 34 (**1983**) 301-312.

M. Gjumbir, **Ž. Olujić**
Program za rješavanje obične diferencijalne jednadžbe prvog reda postupkom Runge-Kutta ("Calculator program for solving first-order differential equation by the Runge-Kutta method")
Kemija u industriji (Zagreb) 32 (**1983**) 411-414.

M. Gjumbir, **Ž. Olujić**
Ekonomizacija empirijskih formula Čebiševljevim polinomima ("The Chebyshev economization of empirical equations")
Hemija u industriji (Beograd) 37 (**1983**) 237-240.

M. Gjumbir, **Ž. Olujić**
Calculator eases empirical equations
Oil & Gas Journal 82 (**1984**) February 27, 97-104.

Ž. Olujić, M. Gjumbir
Proračun izotermnog ravnotežnog isparavanja ("Isothermal equilibrium flash calculations")
Kemija u industriji (Zagreb) 33 (**1984**) 37-40.

E. Bubić, L. Tadić, **Ž. Olujić**
Analitički oblik Gillilandovog dijagrama ("Analytical form of Gilliland plot")
Nafta (Zagreb) 35 (**1984**) 333-336.

M. Gjumbir, **Ž. Olujić**
Effective ways to solve single nonlinear equations
Chemical Engineering 91 (**1984**) July 23, 51-56.

H. Krivošić, **Ž. Olujić**
Predviđanje pojavnih oblika uzlaznog vertikalnog dvofaznog strujanja plinsko-kapljevinskih smjesa ("Prediction of flow patterns in upward vertical two-phase gas-liquid flow")
Kemija u industriji (Zagreb) 33 (**1984**) 377-384.

M. Gjumbir, **Ž. Olujić**
Strukturna dekompozicija kemijsko-tehnoloških procesa primjenom rijetkih matrica ("Structural decomposition of chemical-technological processes by application of sparse matrices")
Kemija u industriji (Zagreb) 34 (**1985**) 139-142.

Ž. Olujić
Predicting two-phase-flow friction loss in horizontal pipes
Chemical Engineering 92 (**1985**) 13, 45-50.

Ž. Olujić, Lj. Matijašević, M. Gjumbir
Izračunavanje ravnoteže faza kod nižih i umjerenih tlakova ("Calculation of liquid-vapor equilibria at low to moderate pressures")
Kemija u industriji 34 (**1985**) 395-403.

Ž. Olujić
Projektiranje i procjena koštanja procesnih postrojenja ("Process plant design and cost estimation")
Kemija u industriji 34 (**1985**) 747-758.

Ž. Olujić, D. Lukec, I. Pavošević, A. Perčić
Sinteza procesne sheme za dobivanje dimetiletera iz otpadnih plinova destilacije sirovog metanola ("The synthesis of the process flowsheet for the recovery of dimethylether from methanol plant effluent gases")
Nafta (Zagreb) 36 (**1985**) 637-641.

Ž. Olujić, D. Lukec, I. Pavošević, A. Perčić
Oponašanje i analiza procesne sheme za dobivanje dimetiletera iz otpadnih plinova destilacije sirovog metanola ("The simulation and analysis of the process flowsheet for the recovery of dimethylether from methanol plant effluent gases")
Nafta (Zagreb) 36 (**1985**) 643-648.

Ž. Olujić, Lj. Matijašević
Procjena koštanja procesne opreme – I. Višecijevni izmjenjivači topline ("Cost estimation of process equipment – I. Shell and tube heat exchangers")
Kemija u industriji 35 (**1986**) 165-173.

M. Gjumbir, **Ž. Olujić**, V. Simončič
Prednosti matematičkog modeliranja ekoloških problema u prometu primjenom ortogonalnih polinoma ("Advantages of mathematical modelling of traffic related ecological problems by use of orthogonal polynomials")
Suvremeni promet (Zagreb) 8 (**1986**) 367-370.

Ž. Olujić, Lj. Matijašević
Procjena koštanja procesne opreme – II. Spremnici ("Cost estimation of process equipment – II. Storage vessels")
Kemija u industriji 36 (**1987**) 207-210.

Lj. Matijašević, **Ž. Olujić**
Procjena koštanja procesne opreme – III. kolone ("Cost estimation of process equipment – III. Columns")
Kemija u industriji 37 (**1988**) 2, 59-66.

Ž. Olujić, J. de Graauw
Appearance of maldistribution in distillation columns equipped with high performance packings
Chem. Biochem. Eng. Q. 3 (**1989**) 181-196.

R. Stikkelman, J. de Graauw, **Ž. Olujić**, H. Teeuw, H. Wesselingh
A study of gas and liquid distributions in structured packings
Chem. Eng. Techn. 12 (**1989**) 445-449.

Ž. Olujić
Explicit solution is developed for vapor pressure equation
Oil & Gas Journal 87 (**1989**) 11, 46-47.

M. Bilić, **Ž. Olujić**
Performance evaluation of conventional nautamixer as a direct dryer
Drying Technology 8 (**1990**) 1, 159-174.

Ž. Olujić, J. de Graauw
Experimental studies on the interaction between the initial liquid distribution and the performance of structured packings
Separation Science and Technology 25 (**1990**) 1723-1735.

M. Bilić, **Ž. Olujić**
Performance evaluation of conventional nautamixer as a direct dryer - empirical model
Drying Technology 9 (**1991**) 221-232.

Ž. Olujić
Two-phase flow research in Yugoslavia
Chem. Biochem. Eng. Q. 5 (**1991**) 67-75.

Ž. Olujić, F. Stoter, J. de Graauw
Gas distribution in large-diameter packed columns
Gas Separation & Purification 5 (**1991**) 59-66.

J. de Graauw, **Ž. Olujić,** F. Stoter
Kolompakking is meer dan een stapel golfplaten (Column packing is more than just a bunch of corrugated plates)
PT-PolyTechnisch tijdschrift 47 (**1992**) 2, 36-40.

F. Stoter, **Ž. Olujić**, J. de Graauw
Modelling and measurement of gas flow distribution in corrugatedsheet structured packings
Chem. Eng. Journal 53 (**1993**) 55-66.

Ž. Olujić
Development of a Complete Simulation Model for Predicting the Hydraulic and Separation Performance of Distillation Columns Equipped with Structured Packings
Chem. Biochem. Eng. Q. 11 (**1997**) 31-46.

Ž. Olujić, A. B. Kamerbeek, J. de Graauw
A corrugation geometry based model for efficiency of structured distillation packing
Chem. Eng. Process. 38 (**1999**) 683-695.

Ž. Olujić
Effect of Column Diameter on Pressure Drop of Corrugated Sheet Structured Packing
Chem. Eng. Res. Des. 77 (**1999**) 505-510.

H-J. Verschoof, **Ž. Olujić,** J. F. Fair
A General Correlation for Predicting the Loading Point of Corrugated Sheet Structured Packings
Ind. Eng. Chem. Res. 38 (**1999**) 3663-3669.

D. Stanbridge, **Ž. Olujić**
Solving Problems with Separator Inlet Cyclones
The Journal of Offshore Technology 7 (**1999**) 5, 20-22.

Ž. Olujić, A.F. Seibert, and J.R. Fair
Influence of Corrugation Geometry on Hydraulics and Mass Transfer Performance of Structured Packings: An Experimental Study
Chem. Eng. Process. 39 (**2000**) 335-342.

J. R. Fair, A. F. Seibert, M. Behrens, P. Saraber and **Ž. Olujić**
Structured Packing Performance - Experimental Evaluation of Two Predictive Models
Ind. Eng. Chem. Res. 39 (**2000**) 1788-1796.

P. Marchot, D. Toye, M. Crine, G. L´Home, A-M. Pelser, **Ž. Olujić**
Imaging of Liquid Distribution within Corrugated Sheet Structured Packing Beds by X-Ray Computed Tomography
Chem. Ing. Tech. 72 (**2000**) 1010.

B. Voslamber, Fakhri, **Ž. Olujić**, J. de Graauw
Permeate Dilution - Key to a More Efficient Hybrid, Vapour-Permeation/Distillation Process
npt-procestechnologie 8 (**2001**) 1, 18-22.

M. Behrens, P. P. Saraber, H. Jansen, **Ž. Olujić**
Performance Characteristics of a Monolith-like Structured Packing
Chem. Biochem. Eng. Q. 15 (**2001**) 49-57.

P. Marchot, D. Toye, A-M. Pelser, M. Crine, G. L´Home, **Ž. Olujić**
Liquid Distribution Images on Structured Packing by X-Ray Computed Tomography
AIChE Journal 47 (**2001**) 1471-1476.

Ž. Olujić, H. Jansen, B. Kaibel, T. Rietfort, E. Zich
Stretching the Capacity of Structured Packings
Ind. Eng. Chem. Res. 40 (**2001**) 6172-6180.

G. F. Woerlee, J. Berends, **Ž. Olujić**, J. de Graauw
A Comprehensive Model for the Pressure Drop in Vertical Pipes and Packed Columns
Chem. Eng. Journal 84 (**2001**) 355-366.

A. Mohamed Ali, P. J. Jansens, **Ž. Olujić**
Experimental Characterisation and CFD Simulation of Gas Distribution Performance of Liquid (Re)Distributors and Collectors in Packed Columns
Chem. Eng. Res. Des. 81 (**2003)** 108 - 115.

Ž. Olujić, A. F. Seibert, B. Kaibel, H. Jansen, T. Rietfort, E. Zich
Performance Characteristics of a New High Capacity Structured Packing
Chem. Eng. Process. 42 (**2003)** 55-60.

Ž. Olujić, F. Fakhri, A de Rijke, J. de Graauw, P. J. Jansens
Internal Heat Integration – the Key to an Energy Conserving Distillation Column
J. Chem. Technol. Biotechnol. 78 (**2003**) 241 – 248.

Ž. Olujić, B. Kaibel, H. Jansen, T. Rietfort, E. Zich, G. Frey
Distillation Column Internals Related Process Intensification Developments
Chem. Eng. Trans. 3 (**2003**) Vol. 1, 367-372.

A. B. de Haan, **Ž. Olujić**
Impressions and Highlights on the Distillation & Absorption 2002 Conference, Part 1.
PT-Procestechnologie 10 (**2003**) 3, 27-31.

A. B. de Haan, **Ž. Olujić**
Impressions and Highlights on the Distillation & Absorption 2002 Conference, Part 2.
PT-Procestechnologie 10 (**2003**) 4, 25-27.

F.T. de Bruijn, L. Sun, **Ž. Olujić**, P.J. Jansens, F. Kapteijn
Influence of the support layer on the flux limitation in pervaporation
Journal of Membrane Science 223 (**2003**) 141 – 156.

Ž. Olujić, B. Kaibel, H. Jansen, T. Rietfort, E. Zich, G. Frey
Distillation Column Internals/Configurations for Process Intensification
Chem. Biochem. Eng. Q. 17 (**2003**) 4, 293 - 301.

Ž. Olujić, M. Behrens, L. Colli, A. Paglianti
Predicting the Efficiency of Corrugated Sheet Structured Packings with Large Specific Surface Area
Chem. Biochem. Eng. Q. 18 (**2004**) 89 - 96.

Ž. Olujić, A. Mohamed Ali, P.J. Jansens
Effect of the Initial Gas Maldistribution on the Pressure Drop of Structured Packings
Chem. Eng. Res. Des. 43 (**2004**) 465-476.

R. Delfos, S. Murphy, D. Stanbridge, **Ž. Olujić**, P.J. Jansens
A Design Tool for Optimizing Axial Liquid-Liquid Hydrocyclones
Minerals Engineering 17 (**2004**) 721–731.

M. A. Gadalla, **Ž. Olujić**, P.J. Jansens, M. Jobson, R. Smith
Reducing CO_2 Emissions and Energy Consumption of Heat-Integrated Distillation Systems
Environ. Sci. Technol. 39 (**2005**) 6860-6870.

M. Gadalla, **Ž. Olujić**, L. Sun, A de Rijke, P. J. Jansens
Pinch Analysis-Based Approach to Conceptual Design of Internally Heat Integrated Distillation Columns
Chem. Eng. Res. Des. 83 (**2005**) 987-993.

Ž. Olujić
Toward Sophisticated Structured Packing Column Design
Bunri Gijutsu (Journal of Separation Process Engineering, Japan) 35 (**2005**) 4, 223-234.

H. Mori, R. Ibuki, K. Taguchi, K. Futamara, **Ž. Olujić**
Three-Component Distillation Using Structured Packings: Performance Evaluation and Model Validation
Chem. Eng. Sci. 61 (**2006**) 1760-1766.

M. A. Gadalla, **Ž. Olujić**, M. Robson, R. Smith
Estimation and Reduction of CO_2 Emissions from Crude Oil Distillation Units
Energy 31 (**2006**) 2062-2072.

M. Gadalla, **Ž. Olujić**, A. de Rijke, P. J. Jansens
Reducing CO_2 Emissions of Internally Heat-Integrated Distillation Columns for Separation of Close Boiling Mixtures
Energy 31 (**2006**) 2073-2081.

Ž. Olujić, L. Sun, A. de Rijke, P. J. Jansens
Conceptual Design of an Internally Heat Integrated Propylene-Propane Splitter
Energy 31 (**2006**) 3083-3096.

Ž. Olujić, M. Behrens
Hold-up and Pressure Drop of Packed Beds Containing a Modular Catalytic Structured Packing
Chem. Eng. Technol. 29 (**2006**) 979-985.

J.P. Schmal, H. van der Kooi, A. de Rijke, **Ž. Olujić**, P. J. Jansens
Internal vs External Heat Integration – Operational and Economic Analysis
Chem. Eng. Res. Des. 84 (**2006**) A5:374-380.

M. Behrens, **Ž. Olujić**, P. J. Jansens
Combining Reaction with Distillation: Hydrodynamic and Mass Transfer Performance of Modular Catalytic Structured Packings
Chem. Eng. Res. Des., 84 (**2006**) A5, 381-389.

P. Perez, **Ž. Olujić**, J. de Graauw, P. J. Jansens
Modeling and simulation of inorganic shell and tube membranes for vapor permeation
Chem. Eng. Process. 45 (**2006**) 973-979.

Ž. Olujić, J. P. Haaring, R. van Baak
Effect of a Severe Form of Initial Gas Maldistribution on Pressure Drop of a Structured Packing Bed
Chem. Eng. Process. 45 (**2006**) 1095-1064.

A. Shilkin, E. Y. Kenig, **Ž. Olujić**
Hydrodynamic-Analogy-Based Model for Efficiency of Structured Packing Columns
AIChE Journal 52 (**2006**) 3055-3066.

Ž. Olujić, R. van Baak , J. P. Haaring, B. Kaibel, H. Jansen
Liquid Distribution Properties of Conventional and High Capacity Structured Packings
Chem. Eng. Res. Des. 84 (**2006**) A10, 867-874.

Ž. Olujić, P. Perez, F.T. de Bruijn, J. de Graauw, P. J. Jansens
Augmenting Distillation by Membranes: Developments and Prospects
Chem. Biochem. Eng. Q. 20 (**2006**) 301-318.

L. Del Carlo, **Ž. Olujić**, A. Paglianti
Comprehensive Mass Transfer Model for Distillation Columns Equipped with Structured Packings
Ind. Eng. Chem. Res. 45 (**2006**) 7967-7976.

L. Sun, **Ž. Olujić**
Study on configurations for a heat integrated distillation column (in Chinese)
Chemical Engineering (CHINA) 34 (**2006**) 11, 4-7.

S. Aferka, J. Abdullah, M. Crine, **Ž. Olujić**, A.K. Saroha, D. Toye, P. Marchot
Liquid distribution study in a Katapak-SP12 column using X-ray tomography
Journal of Nuclear and Related Technologies 3 (**2006**) 1&2, 25-34.

S. Murphy, R. Delfos, M.J.B.M. Pourquie, **Ž. Olujić**, P.J. Jansens, F.T.M. Nieuwstadt
Prediction of strongly swirling flow within an axial hydrocyclone using two commercial CFD codes
Chem. Eng. Sci. 62 (**2007**) 1619-1635.

F. de Bruijn, **Ž. Olujić**, F. Kapteijn, P.J. Jansens
Robust modelling of membrane separations
Npt-procestechnologie 14 (**2007**) 3, 16-18.

M. Gadalla, L. Jimenez, **Ž. Olujić**, P. J. Jansens
A thermo-hydraulic approach to conceptual design of an internally heat-integrated distillation column (i-HIDiC)
Comp. Chem. Eng. 31 (**2007**) 1346-1354.

Ž. Olujić, M. Behrens, L. Spiegel
Experimental Characterization and Modelling of the Performance of a Large-Specific-Area High-Capacity Structured Packing
Ind. Eng. Chem. Res. 46 (**2007**) 883-893.

M. Behrens, **Ž. Olujić**, P. J. Jansens
Liquid Flow Behavior in Catalyst-Containing Pockets of Modular Catalytic Structured Packing Katapak SP
Ind. Eng. Chem. Res. 46 (**2007**) 3884-3890.

F. de Bruijn, J. Gross, **Ž. Olujić**, P.J. Jansens
On the Driving Force of Methanol Pervaporation through a Microporous Methylated Silica Membrane
Ind. Eng. Chem. Res. 46 (**2007**) 4091-4099.

A. Rix, **Ž. Olujić**
Pressure drop of internals for packed columns
Chem. Eng. Process. 47 (**2008**) 1520-1529.

M. Jödecke, **Ž. Olujić**
Neue Trends in der Destillation
Chem. Ing. Tech. Plus (**2008**) 10, 32-34.

M. Behrens, **Ž. Olujić**, P. J. Jansens
Liquid Hold-up in Catalyst-Containing Pockets of a Modular Catalytic Structured Packing
Chem. Eng. Technol. 31 (**2008**) 1630-1637.

Ž. Olujić, L. Sun, M. Gadalla, A. de Rijke, P. J. Jansens
Enhancing Thermodynamic Efficiency of Energy Intensive Distillation Columns via Internal Heat Integration
Chem. Biochem. Eng. Q. 22 (**2008**) 383-392.

Ž. Olujić, M. Jödecke, A. Shilkin, G. Schuch, B. Kaibel
Equipment improvement trends in distillation
Chem. Eng. Process. 48 (**2009**) 1089-1104.

Ž. Olujić
Experimental characterization of liquid distribution quality of a multiple-nozzle spray distributor
Chem. Biochem. Eng. Q. 23 (**2009**) 507-512.

Ž. Olujić, M. Behrens, L. Sun, Fakhri, J. de Graauw
Augmenting distillation by using membrane based vapor-liquid contactors: An engineering view from Delft
J. Membrane Sci. 350 (**2010**) 19-31.

I. Dejanović, Lj. Matijašević, **Ž. Olujić**
Dividing Wall Column – A breakthrough towards sustainable distilling
Chem. Eng. Process. 49 (**2010**) 559-580.

Ž. Olujić
Chemical engineering – future challenges (in Croatian)
BILTEN HAZU (Croatian Academy of Sciences and Arts) 9 (**2010**) 2, 1-76.

I. Dejanović, Lj. Matijašević, I.J. Halvorsen, S. Skogestad, H. Jansen, B. Kaibel, **Ž. Olujić**
Designing four-product dividing wall columns for separation of multicomponent aromatics mixture
Chem. Eng. Res. Des. 89 (**2011**) 1155-1167.

I. Dejanović, Lj. Matijašević, H. Jansen, **Ž. Olujić**
Designing a packed dividing wall column for an aromatics processing plant
Ind. Eng. Chem. Res. 50 (**2011**) 5680-5692.

M. Ottenbacher, **Ž. Olujić**, T. Adrian, M. Jödecke, C. Groβmann
Structured packing efficiency – Vital information for the chemical industry
Chem. Eng. Res. Des. 89 (**2011**) 1427-1433.

I. Dejanović, Lj. Matijašević, **Ž. Olujić**
An effective method for establishing the stage and reflux requirement of three-product dividing wall columns
Chem. Biochem. Eng. Q. 25 (**2011**) 2, 147-157.

Ž. Olujić
Comparison of gas distribution properties of conventional and high capacity structured packings
Chinese Journal of Chemical Engineering 19 (**2011**) 5, 726-732.

I.J. Halvorsen, S. Skogestad I. Dejanović, Lj. Matijašević, **Ž. Olujić**
Multi-Product Dividing Wall Columns: A Simple and Effective Assessment and Conceptual Design Procedure
Chem. Eng. Trans., 25 (**2011**) 611-616.

O.S.L. Bruinsma, T. Krikken, J. Cot, M. Sarić, S.A. Tromp, **Ž. Olujić**, A.I. Stankiewicz
The structured heat integrated distillation column
Chem. Eng. Res. Des. 90 (**2011**) 458-470.

Ž. Olujić, T. Rietfort, H. Jansen, B. Kaibel, E. Zich, G. Frey, G. Ruffert, T. Zielke
Experimental characterization and modeling of high performance packings
Ind. Eng. Che. Res. 51 (**2012**) 4414-4423.

Ž. Olujić, I. Dejanović, B. Kaibel, H. Jansen,
Dimensioning multi-partition dividing wall columns
Chem. Eng. Technol. 35 (**2012**) 1392-1404.

Ž. Olujić,, B. Kaibel, H. Jansen, T. Rietfort, E. Zich
Fractionation Research Inc. Test Data and Modeling of a High Performance Structured Packing
Ind. Eng. Chem. Res. 52 (**2013)** 4888-4894.

I.J. Halvorsen, I. Dejanović, S. Skogestad, **Ž. Olujić**
Internal configurations for a multi-product dividing wall column
Chem. Eng. Res. Des. 91 (**2013**) 1954-1965.

I. Dejanović, I.J. Halvorsen, S. Skogestad, H. Jansen, **Ž. Olujić**
Cost-effective design of energy efficient four-product dividing wall columns
Chem. Eng. Trans. 35 (**2013**) 283-288. DOI: 10.3303/CET1335047.

Ž. Olujić
Energy Saving Distillation Technologies – A view from Europe on advances and challenges
Chemical Engineering of Japan 78 (**2014**) 85-88.

I. Dejanović, I. J. Halvorsen, S. Skogestad, H. Jansen, **Ž. Olujić**
Hydraulic design, technical challenges and comparison of alternative configurations of a four-product dividing wall column
Chem. Eng. Process. 84 (**2014**) 71-81.

Ž. Olujić, A. F. Seibert
Predicting the liquid phase mass transfer resistance of structured packings
Chem. Biochem. Eng. Q. 28 (**2014**) 409-424.

A. A. Kiss, **Ž. Olujić**
A review on process intensification in internally heat-integrated distillation columns
Chem. Eng. Process. 86 (**2014**) 125-144.

H. Jansen, I. Dejanović, B. Kaibel, **Ž. Olujić**
New horizons for dividing wall columns
Chemical Engineering 121 (**2014**) 8, 40-48.

Ž. Olujić, H. Jansen
Large-diameter experimental evidence on liquid (mal)distribution properties of structured packings, Chem. Eng. Res. Des. 99 (**2015**) 2-13.

Ž. Olujić, T. Rietfort, H. Jansen, E. Zich
Performance characteristics of an intermediate area high performance structured packing
Chem. Eng. Res. Des. 99 (**2015**) 14-19

H. Jansen, I. Dejanović, T. Rietfort, **Ž. Olujić**
Dividing wall column as energy saving retrofit technology
Chem. Ing. Tech. 88 (**2016**) 200-207.

I.J. Halvorsen, I. Dejanović, K. A. Marak, **Ž. Olujić**, S. Skogestad
Dividing wall column for fractionation of natural gas liquids in floating liquefied natural gas plants
Chem. Eng. Technol. 39 (**2016**) 2348-2354.

G. Lukač, I. Dejanović, I.J. Halvorsen, **Ž. Olujić**
On controllability of four-product dividing wall columns
Chem. Eng. Trans. 69 (**2018**) 259-264.

R. Schulz, T. Rietfort, H. Jansen, **Ž. Olujić**
Experimental evidence on performance of an advanced gauze structured packing under deep vacuum distillation conditions
Chem. Eng. Trans. 69 (**2018**) 763-768.

I.J. Halvorsen, I. Dejanović, **Ž. Olujić**, S. Skogestad
Dividing Wall Columns for Natural Gas Liquefaction Plants
Chem. Eng. Trans. 69 (**2018**) 829-834.

I. Dejanović, I.J. Halvorsen, H. Jansen, **Ž. Olujić**
Hydraulic design of thermally coupled columns and a DWC for NGL fractionation plants
Chem. Biochem. Eng. Q. **32** (**2018**) 521-530.

R. Schulz, T. Rietfort, H. Jansen, **Ž. Olujić**
Hydraulics and mass transfer performance of an advanced gauze structured packing under deep vacuum distillation conditions
Chem. Eng. Res. Des. 145 (**2019**) 334-342.

I.J. Halvorsen, I. Dejanović, **Ž. Olujić**, S. Skogestad
Thermal coupling opportunities for floating natural gas liquefaction plants
Chem. Eng. Res. Des. 147 (**2019**) 346-353.

G. Lukač, I. Dejanović, I.J. Halvorsen, **Ž. Olujić**
On controllability of a fully thermally coupled four-product dividing wall column
Chem. Eng. Res. Des. 147 (**2019**) 367-377.

Ž. Olujić
Predicting the Pressure Drop of Corrugated Sheet Structured Packings in Deep Vacuum Applications
Chem. Biochem. Eng. Q. 33 (**2019**) 303-323.

Ž. Olujić, J. Sacher, J.-U. Repke
Advancing performance of a predictive model for pressure drop of wire gauze corrugated sheet structured packings in deep vacuum applications
Chem. Eng. Res. Des., accepted for publication 2024.

Conference proceedings papers (Presenting author is indicated by *)

Ž. Olujić*, E. Bauman, I. Ivaniš
Brzine odjeljivanja disperzija pri ekstrakciji tekuće-tekuće ("Trennungsgeschwindigkeiten von Dispersionen bei der Extraction Flüssigkeit-Flüssigkeit")
I Yugoslav Congress of Chemical Engineering, 30 March – 2 April **1971**, Belgrade, Serbia (Yugoslavia), pp. 187-189.

Ž. Olujić
Djelovanje valovite međufazne površine na pad tlaka pri dvofaznom strujanju u cijevima ("The effect of wavy interface on pressure drop of two-phase flow in papes")
II Yugoslav Congress of Chemical Engineering, Jan. 16-18, **1980**, Belgrade, Serbia (Yugoslavia), pp. 83-91.

Ž. Olujić*, V. Janeš
Dobivanje polaznih profila temperature i protoka plina pri egzaktnom proračunavanju kolona za apsorpciju ugljikovodika ("Obtaining of initial temperature and gas rate profiles for rigorous calculation of hydrocarbon absorbers")
II Yugoslav Congress of Chemical Engineering, Jan. 16-18, **1980**, Belgrade, Serbia (Yugoslavia), pp. 133-139.

Ž. Olujić*, V. Simončič, I. Zorko
Mogućnosti primjene transportnog cjevovoda kao reaktora za oksidaciju željeza iz otpadnih voda od dekapiranja čelika ("Application possibilities of a pipeline as a reactor for the oxidation of iron from steel pickling waters")
II Yugoslav Congress of Chemical Engineering, Jan. 16-18, **1980**, Belgrade, Serbia (Yugoslavia), pp. 209-219.

Ž. Olujić*, V. Simončič, I. Zorko
Dependence of chemical reaction rate on hydrodynamic properties of slug flow
2nd Austrian-Italian-Yugoslav Chemical Engineering Conference, Sept. 15-18, **1980**, Bled, Slovenia (Yugoslavia), pp. 416-422.

Ž. Olujić*, V. Simončič
Prediction of chemical reaction rate in horizontal concurrent gas-liquid slug flow
7th International Congress of Chemical Engineering, Chemical Equipment Design and Automation (CHISA'81), Aug. 31 - Sept. 4, **1981**, Prague, Czech Republic (Czechoslovakia), 8 pages.

Ž. Olujić*, M. Gjumbir
Malo poznati algoritmi za rješavanje nelinearnih jednadžbi i njihova primjena u kemijsko-inženjerskoj praksi ("Less known algorithms for solving single nonlinear equations and their application to chemical engineering practice")
III International symposium "Computer on the University", May 25 – 28, **1981**, Cavtat, Croatia (Yugoslavia), pp. 347.1-347.8.

Ž. Olujić*, V. Simončič
Effect of flow pattern on reaction rate in horizontal concurrent gas-liquid pipeline flow
2nd World Congress of Chemical Engineering, Oct. 4 – 9, **1981**, Montreal, Canada, Vol. III, pp. 316-320.

Ž. Olujić*, M. Gjumbir
Possibilities for convergence acceleration in equilibrium flash calculation
3rd Austrian-Italian-Yugoslav Chemical Engineering Conference, Sept. 14-16, **1982**, Graz, Austria, pp. 372-379.

Ž. Olujić
Proračun rektifikacijskih kolona pomoću programirajućeg džepnog računala ("Calculation of rectification columns by use of a programmable pocket calculator")
I Symposium on Computer Applications in Chemical and Pharmaceutical Industry, Oct. 7-9, **1982**, Kranjska Gora, Slovenia (Yugoslavia), pp. 270-275.

E. Bubić*, **Ž. Olujić**
Postupak i program za proračun rektifikacijskih kolona ("Algorithm and program for calculating the rectification columns")
I Symposium on Computer Applications in Chemical and Pharmaceutical Industry, Oct. 7-9, **1982**, Kranjska Gora, Slovenia (Yugoslavia), pp. 276-285.

Ž. Olujić*, M. Gjumbir
Djelotvorno rješavanje problema adijabatskog ravnotežnog isparavanja smjesa užeg raspona vreliša ("Effective solving the close boiling adiabatic equilibrium flash problems")
5th International symposium "Computer on the University", May 23 – 25, **1983**, Cavtat, Croatia (Yugoslavia), pp. 733-740.

M. Gjumbir, **Ž. Olujić***
Paket programa za primjenu Čebiševljevih polinoma ("Computer programs for the application of Chebyshev polynomials")
6th International symposium "Computer on the University", May 23 – 25, **1984**, Cavtat, Croatia (Yugoslavia), pp. 508.1-508.7.

Ž. Olujić*, V. Simončič
Prediction of transitions between bubble, plug, and slug flow
5th Yugoslavian-Austrian-Italian Chemical Engineering Conference, Sept. 16-18, **1986**, Portorož, Slovenia (Yugoslavia), pp. 147-154.

V. Karanović, O. Pajalić, D. Primer, D. Lukec, N. Pavlović, **Ž. Olujić***
Ocjena algoritama za proračun adijabatskog ravnotežnog isparavanja ("*Evaluation of algorithms for the adiabatic flash calculations*")
III Yugoslav Congress of Chemical Engineering, June **1987**, Dubrovnik, Croatia (Yugoslavia), 21 pages.

M. Bilić*, **Ž. Olujić**
Razvoj procesa za dobivanje ureanitrata ("*Process development for the production of urea nitrate*")
III Yugoslav Congress of Chemical Engineering, June **1987**, Dubrovnik, Croatia (Yugoslavia), 11 pages.

M. Vampola, D. Gosak, **Ž. Olujić***
Statistički pristup izračunavanju ravnoteže faza pri oponašanju rektifikacijskih smjesa s vrlo velikim brojem komponenata ("*A statistical approach to the phase equilibria calculation during the simulation of rectification columns for separation of mixtures with a very large number of components*")
III Yugoslav Congress of Chemical Engineering, June **1987**, Dubrovnik, Croatia (Yugoslavia), 13 pages.

K. Ivaniš, **Ž. Olujić***
Postupak i program za oponašanje procesnih postrojenja pomoću malih računala ("*A procedure and program for simulation of process plants on small computers*")
III Yugoslav Congress of Chemical Engineering, June **1987**, Dubrovnik, Croatia (Yugoslavia), 11 pages.

M. Bilić*, **Ž. Olujić**
Application and analysis of a conventional nautamixer as a reactor-dryer for small batch production of urea nitrate
9th International Congress of Chemical Engineering, Chemical Equipment Design and Automation (CHISA'87), Aug. 31 - Sept. 4, **1987**, Prague, Czech Republic (Czechoslovakia), pp. 213-221.

M. Bilić*, **Ž. Olujić**
Convective drying of a slurry in an agitated conical dryer
Proceedings of Sixth International Drying Symposium (IDS'88), Sept. **1988**, Versailles, France, Vol. I, pp. OP421-OP425.

R. Stikkelman*, H. Teeuw, J.A. Wesselingh, **Ž. Olujić**, J. de Graauw
Measurement and studies of gas and liquid distributions in structured packings
Proceedings of GVC - Jahrestreffen 1988 der Verfahrensingenieure, Sept. **1988**, Hannover, Germany, pp. 248-251.

C.C.J. Verlaan*, **Ž. Olujić**, J. de Graauw
Performance evaluation of impingement gas-liquid separators
4th International Conference on Multiphase Flow, BHRA, The Fluid Engineering Centre, Cranfield, Bedford MK43 0AJ, UK, **1989**, pp.103-116.

C.C.J. Verlaan*, **Ž. Olujić**, J. de Graauw
Effect of geometry and liquid properties on the re-entrainment in streamlined vane-type demisters with drainage system
Multy-Phase Production (Ed. A.P. Burns), Elsevier Applied Science, London/New York, **1991**, pp. 168-183.

J. de Graauw*, F. Stoter, **Ž. Olujić**
Liquid and gas distribution in columns with structured packings
Proc. of Symposium on Distillation Perspectives, the Institution of Chemical Engineers (European Branch), Amsterdam, Sept. **1991**, pp. 51-74.

F. Stoter*, **Ž. Olujić**, J. de Graauw
Liquid distribution performance modelling and evaluation
AIChE 1991 Annual Meeting, Los Angeles, November 17-22, **1991**, (16 pages).

F. Stoter*, **Ž. Olujić**, J. de Graauw
Modelling of hydraulic and separation performance of large diameter columns containing structured packings
5th Distillation & Absorption Conference Proceedings (7-9 September 1992, Birmingham, UK, Chairman: K.E. Porter), ICHEME Symp. Series No. 128**,** Hemisphere Publ. Corp., London, **1992**, pp. A201-A210.

Ž. Olujić*, F. Stoter, J. de Graauw
Measurement of large scale gas and liquid maldistribution
5th Distillation & Absorption Conference Proceedings (7-9 September 1992, Birmingham, UK, Chairman: K.E. Porter), ICHEME Symp. Series No. 128, Hemisphere Publ. Corp., London, **1992**, pp. B151-B157.

Ž. Olujić*, F. Stoter, J. de Graauw
Performance evaluation of structured packings: Large- versus small scale
First Separations Division Topical Conference on Separation Technologies: New Developments and Opportunities (Preprint Volume Coordinator: R.J. Lahiere), American Institute of Chemical Engineers, New York, **1992**, pp. 201-207.

Ž. Olujić*, F. Stoter, J. de Graauw
Liquid distribution performance of structured packings with different surface characteristics
AIChE 1993 Spring National Meeting, March 28-April 1, **1993**, Houston, Texas, USA, (19 pages).

Ž. Olujić*, J. de Graauw
Effects of geometrical features on the pressure drop of corrugated sheet structured packings.
AIChE 1994 Annual Meeting, San Francisco, November 13-18, **1994**, paper No. 132f (26 pages).

Ž. Olujić*, A. Roelofse, F. Stoter, J. de Graauw
A prototype expert system for evaluation of the effect of liquid distribution on the separation performance of distillation columns equipped with structured packings
Proceedings of the 5th World Congress of Chemical Engineering, San Diego, July 14-18, **1996**, Vol. 1, pp. 353-358.

F.J. Zuiderweg, **Ž. Olujić***, J.G. Kunesh
Liquid backmixing in structured packing in high pressure distillation
6th Distillation and Absorption Conference Proceedings (Maastricht, The Netherlands, 8-10 September **1997**, editor R. Darton), Institution of Chemical Engineers, IChemE Symp. Series No. 142, Volume 2, pp. 865-872.

Ž. Olujić*, A. Roelofse, F. Storter, and J. de Graauw
LDESP: a Simulation and Optimisation Environment for Structured Packings
6th Distillation and Absorption Conference Proceedings (Maastricht, The Netherlands, 8-10 September **1997**, editor R. Darton), Institution of Chemical Engineers, IChemE Symp. Series No. 142, Volume 2, pp. 949-960.

Ž. Olujić
Advances in Distillation Technology: A Never Ending Story
Proceedings of the 26th Biannual Meeting of Royal Chemical Society of Spain, 23-26 September, **1997**, Cadiz, Spain, Volume 1, pp. 435-438.

V. Kochergin, M. Kearney, M. Kroon, and **Ž. Olujić***
Performance Evaluation of a Liquid Distributor Based on Fractal Geometry
Topical Conference on Separation Science and Technology, AIChE Annual Meeting, November 16-21, **1997**, Los Angeles, CA, USA, Volume I, pp. 69-74

H.J. Verschoff, **Ž. Olujić***, and J. R. Fair
A General Correlation for Predicting the Loading Point of Corrugated Sheet Structured Packings
Topical Conference on Separation Science and Technology, AIChE Annual Meeting, November 16-21, **1997**, Los Angeles, CA, USA, Volume I, pp. 75-80.

Ž. Olujić
Structured packings: an overview
Topical Conference on Separation Science and Technology, AIChE Annual Meeting, November 16-21, **1997**, Los Angeles, CA, USA, Volume I, pp. 165-172.

Ž. Olujić
Structured packings – Can we get more out of it
Preprints of Distillation Technology Conference, April 2-4, **1998,** Orlando, Florida, USA, (8 pages).

V. Kochergin, M. Kearney, **Ž. Olujić***
A Metal Liquid Distributor Based on Fractal Geometry
Distillation Symposium: Horizons for the new millennium, Topical Conference Preprints, AIChE Spring Meeting, Houston, Texas, USA, March 14-18, **1999**, pp. 63-69.

A.F. Seibert, J.R. Fair, **Ž. Olujić***
Influence of Corrugation Geometry on Hydraulics and Mass Transfer Performance of Structured Packings: An Experimental Study
Distillation Symposium: Horizons for the new millennium, Topical Conference Preprints, AIChE Spring Meeting, Houston, Texas, USA, March 14-18, **1999**, pp. 269-282.

D. Stanbridge*, R. Swanborn, **Ž. Olujić**
A novel recycle axial flow cyclone with strongly improved characteristics for high-pressure and high-throughput operation
Proceedings of 9th International Conference Multiphase'99 (Edited by A. P. Burns), Cannes, France, 16-18 June 1999, BHR Group Conference Series Publication No. 53. Professional Engineering Publishing Limited, London **1999**, pp. 555-563.

J. R. Fair*, A. F. Seibert, M. Behrens, P. Saraber, **Ž. Olujić**
Structured Packing Performance: Experimental Evaluation of SRP and Delft Models
AIChE Annual Meeting, Dallas, Texas, USA, October 31 – November 5, **1999**, Paper 4c (8 pages).

Ž. Olujić
Performance Modeling of Distillation Internals: Comprehensive Approaches for Rigorous Design of Structured Packing Columns
Proceedings of Vision 2020: Distillation Priorities Topical Symposium, AIChE Spring National Meeting, March 5-9, **2000**, Atlanta, Georgia, pp. 166-179.

D. Stanbridge*, C. Heijckers, R. Swanborn, and **Ž. Olujić**
Validation of a CFD model of a novel recycle flow cyclone for droplets removal from gas streams
Proceedings of 10th European Symposium on Computer Aided Process Engineering (ESCAPE-10), 7-10 May **2000**, Florence, Italy, editor Sauro Pierucci, Elsevir 2000, pp. 391-396.

P.J. Jansens*, Fakhri, J. de Graauw, **Ž. Olujić**
Energy Saving Potential of a Heat Integrated Distillation Column
Proceedings of Topical Conference Distillation 2001: Frontiers in a New Millennium, AIChE Spring National Meeting, April 22-26, **2001**, Houston, Texas, USA, pp. 19-25.

B. Voslamber*, Fakhri, J. de Graauw, **Ž. Olujić**
Effect of Permeate Dilution on the Performance of a Hybrid, Vapor-Permeation/Distillation Solvent Dehydration Process
Proceedings of Topical Conference Distillation 2001: Frontiers in a New Millennium, AIChE Spring National Meeting, April 22-26, **2001**, Houston, Texas, USA, pp. 19-25.

Ž. Olujić*, A. F. Seibert, B. Kaibel, H. Jansen, T. Rietfort, and E. Zich
Performance of New Generation of Montz High Capacity Structured Packings
Proceedings of Topical Conference Distillation 2001: Frontiers in a New Millennium, AIChE Spring National Meeting, April 22-26, **2001,** Houston, Texas, USA, pp. 553-564.

Ž. Olujić, M. Crine*, D. Toye, and P. Marchot
X-Ray Computed Tomography: Key to Revealing the Secrets of Small Scale Liquid Maldistribution in Packed Beds
Proceedings of Topical Conference Distillation 2001: Frontiers in a New Millennium, AIChE Spring National Meeting, April 22-26, **2001**, Houston, Texas, USA, 2001, pp. 631-641.

Fakhri, B. Voslamber, J. de Graauw, and **Ž. Olujić***
Effect of the Sweep Stream on Performance of a Hybrid, Vapour Permeation/Distillation Solvent Dehydration Process
Proceedings of the Engineering with Membranes Conference (editors: S. Luque and J. R. Alvarez), June 3-6, **2001**, Granada, Spain, Volume I, pp. 260-266.

D. Toye*, P. Marchot, M. Crine, G. L'Homme, and **Ž. Olujić**
Liquid Holdup Distribution in a Corrugated Sheet Structured Packing Measured by X-Ray Tomography
CD-Rom Proceedings of the 3rd European Congress of Chemical Engineering, 26-28 June **2001**, Nuremberg, Germany.

D. Stanbridge, C. Heijckers, Swanborn, P. J. Jansens, and **Ž. Olujić***
CFD Aided Optimisation of the Performance of a New Generation of Recycle Axial Flow Cyclonic Demisters
CD-Rom Proceedings of the 6th World Congress of Chemical Engineering, 24-27 September, **2001**, Melbourne, Australia.

A. Mohamed Ali*, P. J. Jansens, **Ž. Olujić**
The Use of Computational Fluid Dynamics to Model Gas Flow Distribution in Packed Columns
CD-Rom Proceedings of the 6th World Congress of Chemical Engineering, 24-27 September, **2001**, Melbourne, Australia (8 pages).

D. Toye*, M. Crine, G.L. Homme, **Ž. Olujić**, P. Marchot
Mesure de la distribution de la retention liquide dans un empilage structure par tomographie a rayons X, Recent Progres en Genie des Procedes-Information, Modelisation, Simulation and Optimisation (Eds.: Latifi, A., Boudrant, J., and Tonde, D.), Lavosier Technique et Documentacion, Paris, 15 (**2001**) 82, 489-496.

Ž. Olujić
Delft Model – A Comprehensive Design Tool for Corrugated Sheet Structured Packings
Proceedings of the Topical Conference "Distillation Tools for the Practicing Engineer", AIChE Spring Meeting, March 10 – 14, **2002**, New Orleans, LA, USA, pp. 142-152.

A. Mohamed Ali, P. J. Jansens, **Ž. Olujić***
CFD simulation software – A Design Tool for Packed Column Internals
Proceedings of the Topical Conference "Distillation Tools for the Practicing Engineer", AIChE Spring Meeting, March 10 – 14, **2002**, New Orleans, LA, USA, pp. 174-180.

Ž. Olujić*, A. Mohamed Ali, P. J. Jansens
Effect of the Initial Gas Maldistribution on the Pressure Drop of Structured Packings
CD-Rom Proceedings of the 7th Distillation & Absorption Conference, 30 September - 2 October **2002**, Baden-Baden, Germany.

A. Mohamed Ali*, P. J. Jansens, **Ž. Olujić**
Experimental Characterisation and CFD Simulation of Gas Distribution Performance of Liquid (Re)Distributors and Collectors in Packed Columns
CD-Rom Proceedings of the 7th Distillation & Absorption Conference, 30 September - 2 October **2002**, Baden-Baden, Germany.

F. T. de Bruijn*, F. W. Oskamp, L. Sun, **Ž. Olujić**, P. J. Jansens, F. Kapteijn
Support layer resistance of a composite silica membrane for separation of methanol – MTBE mixture
Preprints, 9th Aachen Membrane Colloquium, Aachen, Germany, 18-20 March **2003**, P4.4; 1-6.

P. C. Perez*, R. Van Grinsven, **Ž. Olujić**, P. J. Jansens, M. Nienord, R. Creusen
A ceramic membrane based distillation/pervaporation process for ethanol dehydration
Preprints, 9th Aachen Membrane Colloquium, Aachen, Germany, 18-20 March **2003**, P4.7; 1-6.

M. Behrens, P. J. Jansens, **Ž. Olujić***
Experimental characterization and Modeling of the Hydraulic Performance of a High Capacity Catalytic Packing
Proceedings of the Topical Conference on Distillation Tools for the Practicing Engineer, AIChE Spring National Meeting, New Orleans, LA, USA, March 31 – April 3, **2003**, Editors: H.Z. Kister and M.D. Pritchard, 191 – 202.

Ž. Olujić, A. F. Seibert*, J. R. Fair, B. Kaibel, H. Jansen, T. Rietfort, E. Zich
Effect of perforations on the performance of large surface area structured packings
Proceedings of the Topical Conference on Distillation Tools for the Practicing Engineer, AIChE Spring National Meeting, New Orleans, LA, USA, March 31 – April 3, **2003**.
Editors: H.Z. Kister and M.D. Pritchard, 523 – 534.

Ž. Olujić*, A. M. Ali, R. van Baak, J. P. Haring, P. J. Jansens
Effect of the chordal blockage type of initial gas maldistribution on the hydraulics' of a structured packing
Proceedings of the Topical Conference on Distillation Tools for the Practicing Engineer, AIChE Spring National Meeting, New Orleans, LA, USA, March 31 – April 3, **2003**.
Editors: H.Z. Kister and M.D. Pritchard, 567 – 576.

S. Murphy*, M. J. B. M. Pourquie, R. Delfos, **Ž. Olujić**, P. J. Jansens
Comparison of the flowfield prediction within an axial hydrocyclone for oil/water separation using two commercial CFD codes
Proceedings of 11th International Conference on Multiphase 03, San Remo, Italy, 11-13 June 2003, 607-616, BHR Group **2003**, Edited by P. Fairhurst, 607 - 616.

L. Sun, **Ž. Olujić**, A. de Rijke*, P. J. Jansens
Industrially viable configurations for a heat-integrated distillation column
Better Processes for Bigger Profits, Proceedings of the 5th International Conference on Process Intensification for Chemical Industry, Maastricht, The Netherlands, 13-15 October 2003, BHR Group **2003**, Edited by M. Gough, 151 - 166.

Ž. Olujić
Equipment/System Design Related Research and Advances in Distillation Technology
Proceedings of the 10th International Summer School of Chemical Engineering, Varna, Bulgaria, May 24 – 31, **2004**, Institute of Chemical Engineering, Bulgarian Academy of Sciences, Editors: Ts. Sapundzhiev and R. Popov, pp. 138 - 164.

M. Gadalla*****, **Ž. Olujić**, A de Rijke, P. J. Jansens
A Thermo-Hydraulic Approach to the Design of an Internally Heat-Integrated Distillation Column (i-HIDiC)
ESCAPE 14 – European Symposium on Computer-Aided Process Engineering - 14, Lisbon, Portugal, 16-19 May 2004, Elsevier **2004**, Volume A, Edited by A. Barbosa-Pavoa and H. Matos, pp. 181-186.

Ž. Olujić, L. Sun, A. de Rijke*, P.J. Jansens
*Conceptual Design of Energy Efficient Propylene Splitte*r
Proceedings of ECOS 2004, 17th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems,
Guanajuato, Mexico, July 7-9, **2004**, Published by Instituto Mexicano del Petroleo, Volume 1, Edited by R. Rivero, L. Monroy, R. Pulido, G. Tsatsaronis, pp.61-78.

F. T. de Bruijn*, **Ž. Olujić**, F. Kapteijn, P. J. Jansens
Mass Transport in Methylated Silica Membranes for the Separation of Organic Mixtures
Proceedings of 8th International Conference on Inorganic Membranes
Cincinnati, Ohio, USA, July 18-21, **2004**, Editors: F. T. Atkin and Y. S. Lin, pp. 234-237.

P. Perez*, **Ž. Olujić**, P. J. Jansens
A Design Tool for Shell and Tube Vapor Permeation Modules
Proceedings of 8th International Conference on Inorganic Membranes
Cincinnati, Ohio, USA, July 18-21, **2004**, Editors: F. T. Atkin and Y. S. Lin, pp. 314-317.

P. Perez*, **Ž. Olujić**, P. Jansens, R. Creusen, M. Nienoord
T*echnical and Economic Evaluation of Vapor Permeation Ethanol Dehydration Process with Ceramic membranes*
Proceedings of 8th International Conference on Inorganic Membranes
Cincinnati, Ohio, USA, July 18-21, **2004**, Editors: F. T. Atkin and Y. S. Lin, pp. 591 – 594.

M. Gadalla, **Ž. Olujić**, L. Sun, A de Rijke*, P. J. Jansens
Pinch Analysis-Based Approach to Conceptual Design of Internally Heat Integrated Distillation Columns
CD-Rom Proceedings of CHISA 2004 (including 6th PRES Conference), 16th International Congress of Chemical and Process Engineering, 22 – 26 August **2004**, Prague, Czech Republic.

M. A. Gadalla, **Ž. Olujić***, P.J. Jansens, M. Robson, R. Smith
Reducing CO_2 Emissions and Energy Consumption of Heat-Integrated Distillation Systems
CD-Rom Proceedings of CHISA 2004 (including 6th PRES Conference), 16th International Congress of Chemical and Process Engineering, 22 – 26 August **2004**, Prague, Czech Republic.

Ž. Olujić*, H. Jansen, B. Kaibel
Dividing Wall Column: An expanding/profitable distillation technology – What next?
In Distillation, Absorption and Extraction – Refinery separations, CO2 removal and sequestration (Editors: J. Coca and J.M. Benito), EFCE WP Distillation, Absorption and Extraction Meeting, September 16-17, **2004**, Huelva, Spain, pp. 45-59.

R. van Baak, J. Haaring, **Ž. Olujić***
Comparison of Liquid Distribution Performances of Conventional and High Capacity Structured Packings
Proceedings of Distillation Topical Conference, AIChE Spring National Meeting, Atlanta, Georgia, US, April 10-14, **2005**, pp. 415-427.

M. Gadalla, **Ž. Olujić***, A de Rijke, P. J. Jansens
New Approach to the Design of Internally Heat-Integrated Tray Distillation Columns
ESCAPE 15 – European Symposium on Computer-Aided Process Engineering - 15, Barcelona, Spain, 29 May – 1 June 2005, Elsevier **2005**, Volume A, Edited by L. Puigjaner and A. Espuna, pp. 805-810.

J.P. Schmall*, H.J. van der Kooi, **Ž. Olujić**, P. J. Jansens
Distillation Optimization Using Irreversible Thermodynamics
Proceedings of ECOS 2005, the 18th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, Trondheim, Norway, June 20-22, **2005**, Edited by S. Kjelstrup, J. E. Hustad, T. Gundersen, A. Rosjorde. G. Tsatsaronis, pp. 1287-1294.

A. de Rijke*, L. Sun, M. Gadalla, P. J. Jansens, **Ž. Olujić**
Finding an Optimal HIDiC Configuration for Various Industrial Distillation Applications
CD-Rom Proceedings of the 7th World and 5th European Congress of Chemical Engineering, 10 – 14 July **2005**, Glasgow, Scotland, UK.

Ž. Olujić*, H. Jansen, B. Kaibel
Dividing Wall Column: A Distillation Process Intensification Success Story – What Next?
CD-Rom Proceedings of JICEC05, Jordan International Chemical Engineering Conference, 12-14 September **2005**, Amman, Jordan, paper Che-3-35.

M. A. Gadalla*, **Ž. Olujić**, M. Jobson, R. Smith
Modelling of Crude Oil Distillation Units for Retrofitting Purposes
CD-Rom Proceedings of JICEC05, Jordan International Chemical Engineering Conference, 12-14 September **2005**, Amman, Jordan, paper: PDP-2-27.

M. A. Gadalla*, **Ž. Olujić**, A. de Rijke, P.J. Jansens
An Effective Tool for Internally Heat Integrated Distillation Columns
CD-Rom Proceedings of JICEC05, Jordan International Chemical Engineering Conference, 12-14 September **2005**, Amman, Jordan, paper: EN-4-37.

M. Behrens*, **Ž. Olujić**, P. Jansens
Combining Reaction with Distillation: Hydrodynamic and Mass Transfer Performance of Modular Catalytic Structured Packing
Proceedings of the Sustainable (Bio)Chemical Process Technology- 6th International Conference on Process Intensification, Delft, The Netherlands, 27-29 September **2005**, Published by

BHRGroup Limited, Cranfield, Bedfordshire MK43 0AJ, UK, Editors: P. Jansen, A. Stankiewicz and A. Green, pp. 79-87.

J.P. Schmall*, H.J. van der Kooi, **Ž. Olujić**, P. J. Jansens
Internal vs. External Heat Integration – Operational and Economic Analysis
Proceedings of the Sustainable (Bio)Chemical Process Technology- 6th International Conference on Process Intensification, Delft, The Netherlands, 27-29 September **2005**, Published by BHRGroup Limited, Cranfield, Bedfordshire MK43 0AJ, UK, Editors: P. Jansen, A. Stankiewicz and A. Green, pp. 363-374.

P. Perez*, F.T. de Bruijn, **Ž. Olujić**, F. Kapteijn, P.J. Jansens
Experimental comparison of vapour-permeation and pervaporation with (methylated) silica membranes and validation of a design tool for scale up
CD Rom Proceedings of the International Conference Porous Ceramic Membranes, October 20-21, **2005**, Brugge, Belgium, Editors: J. Luyten and F. Snijkers.

A de Rijke*, W. Tesselaar, M. A. Gadalla, **Ž. Olujić**, P. J. Jansens
Heat and Mass Transfer Characteristics of an Annular Sieve Tray
Proceedings of 8th Distillation & Absorption Conference (Editor: E. Sorensen), 4-6 September **2006**, London, UK, IChemE Symp. Series No. 152, 181-189.

Ž. Olujić*, R. van Baak, J. P. Haaring
Liquid Distribution Behaviour of Conventional and High Capacity Structured Packings
Proceedings of 8th Distillation & Absorption Conference (Editor: E. Sorensen), 4-6 September **2006**, London, UK, IChemE Symp. Series No. 152, 252-266.

M. Behrens*, **Ž. Olujić**, P.J. Jansens
Vapour-Liquid Mass Transfer Behaviour of Modular Catalytic Structured Packings
Proceedings of 8th Distillation & Absorption Conference (Editor: E. Sorensen), 4-6 September **2006**, London, UK, IChemE Symp. Series No. 152, 991-1001.

B. Kaibel*, H. Jansen, E. Zich, **Ž. Olujić**
Unfixed Dividing Wall Technology for Packed and Tray Distillation Columns
Proceedings of 8th Distillation & Absorption Conference (Editor: E. Sorensen), 4-6 September **2006**, London, UK, IChemE Symp. Series No. 152, 252-266.

F.T. de Bruijn*, J. Gross, **Ž. Olujić**, F. Kapteijn, P.J. Jansens
Separation of methanol from MTBE by pervaporation using a methylated silica membrane
Proceedings of International Workshop Membranes in Solvent Filtration, Leuven, Belgium, March 23, **2006**, Editor: D. Fransaer, pp 31-35.

F.T. de Bruijn*, J. Gross, **Ž. Olujić**, F. Kapteijn, P.J. Jansens
Mass-transport in a methylated silica membrane pervaporation and vapor permeation – Experimental and modeling approach
Proceedings of 9th International Conference on Inorganic Membranes (ICIM-9), Lillehamer, Norway, June 25-29, **2006**, Editors: R. Bredesen and H. Raeder, pp. 325-328.

B. Kaibel*, H. Jansen, T. Rietfort, E. Zich, **Ž. Olujić**
Unfixed Wall: the Key to a Breakthrough in Dividing Wall Column Technology
Distillation Topical Conference, AIChE Spring National Meeting, 22-27 April, **2007**, Houston, Texas, USA, pp. 29-41.

Ž. Olujić*, T. Rietfort, H. Jansen, B. Kaibel, E. Zich, G. Ruffert, T. Zielke
Experimental Characterization of High Performance Montz Structured Packings
Distillation Topical Conference, AIChE Spring National Meeting, 22-27 April, **2007**, Houston, Texas, USA, pp. 435-444.

M. Behrens, **Ž. Olujić***, P. J. Jansens
Mass Transfer Performance of Modular Catalytic Structured Packing
CD-Rom proceedings of 6th European Congress of Chemical Engineering (ECCE-6), 16-20 September, **2007**, Copenhagen, Denmark

M. Gadalla*, **Ž. Olujić**, L. Jimenez, G.Guillen-Gosalbez
A design method for internal heat integrated distillation columns (iHIDiCs)
Proceedings of 17th European Symposium on Computer Aided Process Engineering – ESCAPE17, Editors: V. Plesu and P.S. Agachi, Elsevier BV/Ltd, **2007**-12-07

M. Gadalla, A. de Rijke, **Ž. Olujić***, L. Jimenez
Theoretical design of an internally heat integrated vacuum distillation column
CD-Rom Proceedings of the 8th World Congress of Chemical Engineering (WCCE-8), 23-27 August **2009**, Montreal, Canada.

S. Harms, **Ž. Olujić***
HIDiC as a retrofit option
CD-Rom Proceedings of the WCCE-8, 23-27 August **2009**, Montreal, Canada.

M. Gadalla, L. Jimenez, A. de Rijke, **Ž. Olujić***
Optimizing the design of a heat integrated vacuum distillation column
Proceedings of Distillation Topical Conference, AIChE Spring National Meeting, April, 26-30, **2009**, Tampa, Florida, USA, pp. 417-425.

Ž. Olujić*, S. Harms, S. Tromp
HIDiC as a retrofit option
Proceedings of Distillation Topical Conference, AIChE Spring National Meeting, March, 23-25, **2010**, San Antonio,Texas, USA, 8 pages.

I. Dejanović*, Lj. Matijašević, **Ž. Olujić**
Dividing wall column application for platformate splitter – A case study
Proceedings of ESCAPE-20 (20th European Symposium on Computer Aided Process Engineering, edited by S. Pierucci and B. Buzzi Ferraris), 6-9 June **2010**, Ischia, Naples, Italy, Computer-Aided Chemical Engineering, 28, Elsevier B.V., 2010, pp. 655-660.

L. Valenz*, F.J. Rejl, V. Linek, **Ž. Olujić**
Experimental evaluation of the mass transfer features of models for predicting the efficiency of structured packings
CD-Rom Proceedings of CHISA 19 – ECCE 7, 28 August – 1 September **2010**, Prague, Czech Republic.

D. Bruinsma*, S.A. Tromp, M. Strijker, M. Sarić, J. Cot Gores, **Ž. Olujić**
Heat integrated distillation using a plate-fin heat exchanger
CD-Rom Proceedings of CHISA 19 – ECCE 7, 28 August – 1 September **2010**, Prague, Czech Republic.

Ž. Olujić*, T. Rietfort, H. Jansen, B. Kaibel, E. Zich, G. Ruffert, T. Zielke
Maximizing the performance of corrugated sheet structured packings
9th Distillation and Absorption Conference Proceedings (Editors: A.B. de Haan, H. Kooijman, A. Gorak), 12-15 September **2010**, Eindhoven, the Netherlands, pp. 605-610.

M. Ottenbacher*, **Ž. Olujić**, M. Jödecke, C. Grosmann
Structured packings efficiency measurement – Vital information for the chemical industry
9th Distillation and Absorption Conference Proceedings (Editors: A.B. de Haan, H. Kooijman, A. Gorak), 12-15 September **2010**, Eindhoven, the Netherlands, pp. 575-580.

I. Halvorsen*, I. Dejanović, Lj. Matijašević, **Ž. Olujić**, S. Skogestad, *Establishing internal configuration of dividing wall column for separation of a multicomponent aromatics mixture*
9th Distillation and Absorption Conference Proceedings (Editors: A.B. de Haan, H. Kooijman, A. Gorak), 12-15 September **2010**, Eindhoven, the Netherlands, pp. 91-96.

I. Dejanović*, Lj. Matijašević, **Ž. Olujić**, I. Halvorsen, S. Skogestad, H. Jansen, B. Kaibel
Conceptual design and comparison of four-products dividing wall columns for separation of a multicomponent aromatics mixture
9th Distillation and Absorption Conference Proceedings (Editors: A.B. de Haan, H. Kooijman, A. Gorak), 12-15 September **2010**, Eindhoven, the Netherlands, pp. 85-90.

Ž. Olujić*, L. Valenz, F.J. Rejl, V. Linek
Mass Transfer Correlations for Structured Packings: Disorder in Order
CD-Rom Proceedings of AIChE Annual Meeting, November 7-12, **2010**, Salt Lake City, Utah, USA.

I. Dejanović, Lj. Matijašević, H. Jansen, **Ž. Olujić***
Designing a packed dividing wall column for an aromatics processing plant
CD-Rom Proceedings of AIChE Annual Meeting, November 7-12, **2010**, Salt Lake City, Utah, USA

Ž. Olujić*, A.F. Seibert
Predicting the liquid-side mass-transfer resistance of structured packings: State of the art
Proceedings of The James R. Fair Heritage Distillation Conference (Editors: H.Z. Kister, M. D. Pritchett), AIChE Spring Meeting, March 13-17, **2011**, Chicago, IL, USA, pp. 263-282.

I. Dejanović, Lj. Matijašević, I. Halvorsen, S. Skogestad, H. Jansen, B. Kaibel, **Ž. Olujić***
Designing packed multi-partition wall dividing wall columns
Proceedings of The James R. Fair Heritage Distillation Conference (Editors: H.Z. Kister, M. D. Pritchett), AIChE Spring Meeting, March 13-17, **2011**, Chicago, IL, USA, pp. 399-410.

I. Halvorsen*, S. Skogestad, I. Dejanović, Lj. Matijašević, **Ž. Olujić**
Multi-product dividing wall columns: A simple and effective assessment and conceptual design procedure
PRES'11 – 14th International Conference on Process Integration, Moddeling and Optimization for Energy Saving and Pollution Reduction, 8-11 May, 2011, Florence, Italy, Chem. Eng. Trans. 25 (**2011**) 611-616.

Ž. Olujić*, T. Rietfort, H. Jansen, E. Zich
Performance characteristics of an intermediate area high performance structured packing
10th Distillation and Absorption Conference Proceedings, 14-17 September **2014**, Friedrichshafen, Germany, pp. 125-130.

Ž. Olujić*, H. Jansen
Large diameter experimental evidence on liquid (mal)distribution properties of structured packings
10th Distillation and Absorption Conference Proceedings, 14-17 September **2014**, Friedrichshafen, Germany, pp. 224-229.

I. Dejanović*, H. Jansen, **Ž. Olujić**
Dividing wall column as energy saving retrofit technology
10th Distillation and Absorption Conference Proceedings, 14-17 September **2014**, Friedrichshafen, Germany, pp. 625-630.

I. J. Halvorsen*, I. Dejanović, K. A. Maråk, **Ž. Olujić**, S. Skogestad
Dividing wall columns for NGL fractionation
10th Distillation and Absorption Conference Proceedings, 14-17 September **2014**, Friedrichshafen, Germany, pp. 749-754.

G. Lukač, I. J. Halvorsen, **Ž. Olujić***, I. Dejanović
Controllability Study of a Dual Condenser Four Product DWC
CD Rom Proceedings of 12th International Conference Distillation & Absorption, 18-21 September 2022, Toulouse, France

Ž. Olujić, J. Sacher*, J.-U. Repke
Predicting Pressure Drop of Advanced Wire Gauze Corrugated Sheet Structured Packings for Deep Vacuum Applications
CD Rom Proceedings of 12th International Conference Distillation & Absorption, 18-21 September 2022, Toulouse, France

ORAL PRESENTATIONS (in addition to those listed under "conference papers")

Ž. Olujić (speaker), J.M. Chawla
Frictional pressure drop in isothermal horizontal two-phase gas-liquid flow of mixtures with large viscosity ratios
VI Meeting of Croatian Chemists, 14-16 February **1977**, Zagreb, Croatia (Yugoslavia)

Ž. Olujić (speaker), E. Bauman
Effect of pipe roughness on pressure drop of horizontal two-phase flow of gas-liquid mixtures VI Meeting of Croatian Chemists, 14-16 February **1977**, Zagreb, Croatia (Yugoslavia)

Ž. Olujić (speaker), V. Janeš
No etimates short-cut method for absorpbers
12th European Symposium Computer Applications in Chemical Engieering (CACE'79), April 8-11, **1979**, Montreux, Switzerland.

Ž. Olujić
The effect of wavy interface on pressure drop of two-phase flow in papes
II Yugoslav Congress of Chemical Engineering, Jan. 16-18, **1980**, Belgrade, Serbia (Yugoslavia).

Ž. Olujić (speaker), V. Janeš
Obtaining of initial temperature and gas rate profiles for rigorous calculation of hydrocarbon absorbers
II Yugoslav Congress of Chemical Engineering, Jan. 16-18, **1980**, Belgrade, Serbia (Yugoslavia).

Ž. Olujić (speaker), V. Simončič, I. Zorko
Application possibilities of a pipeline as a reactor for the oxidation of iron from steel pickling waste waters
II Yugoslav Congress of Chemical Engineering, Jan. 16-18, **1980**, Belgrade, Serbia (Yugoslavia).

Ž. Olujić (speaker), V. Simončič, I. Zorko
Dependence of chemical reaction rate on hydrodynamic properties of slug flow
2nd Austrian-Italian-Yugoslav Chemical Engineering Conference, Sept. 15-18, **1980**, Bled, Slovenia (Yugoslavia).

Ž. Olujić (speaker), V. Dejdar, V. Simončič
Prediction of flow patterns in horizontal two-phase gas-liquid pipe flow
2nd Austrian-Italian-Yugoslav Chemical Engineering Conference, Sept. 15-18, **1980**, Bled, Slovenia (Yugoslavia).

Ž. Olujić (speaker), M. Gjumbir
Algorithm for Efficient Solving a Nonlinear Equation Applied to Computation of Underwood's Parameter Θ
VII Meeting of Croatian Chemists, 17- 20 February **1981**, Zagreb, Croatia (Yugoslavia)

Ž. Olujić
Short-cut calculation of distillation columns for rectification of multicomponent mixtures
VII Meeting of Croatian Chemists, 17- 20 February **1981**, Zagreb, Croatia (Yugoslavia)

Ž. Olujić (speaker), V. Simončič
Prediction of chemical reaction rate in horizontal concurrent gas-liquid slug flow
7th International Congress of Chemical Engineering, Chemical Equipment Design and Automation (CHISA'81), Aug. 31 - Sept. 4, **1981**, Prague, Czech Republic (Czechoslovakia).

Ž. Olujić (speaker), M. Gjumbir
Less known algorithms for solving single nonlinear equations and their application to chemical engineering practice
III International symposium "Computer on the University", May 25 – 28, **1981**, Cavtat, Croatia (Yugoslavia).

Ž. Olujić (speaker), V. Simončič
Effect of flow pattern on reaction rate in horizontal concurrent gas-liquid pipeline flow
2nd World Congress of Chemical Engineering, Oct. 4 – 9, **1981**, Montreal, Canada.

Ž. Olujić, F. Šef
Do it yourself – design of chemical process plants
Savjetovanje o preduvjetima za veci udio domace tehnologije u preradi nafte I petrokemiji, June 9-10, **1982**, Zagreb, Croatia (Yugoslavia)

Ž. Olujić (speaker), M. Gjumbir
Possibilities for convergence acceleration in equilibrium flash calculation
3rd Austrian-Italian-Yugoslav Chemical Engineering Conference, Sept. 14-16, **1982**, Graz, Austria.

Ž. Olujić
Calculation of rectification columns by use of a programmable pocket calculator
I Symposium on Computer Applications in Chemical and Pharmaceutical Industry, Oct. 7-9, **1982**, Kranjska Gora, Slovenia (Yugoslavia).

E. Bubić (speaker), **Ž. Olujić**
Algorithm and program for calculating the rectification columns
I Symposium on Computer Applications in Chemical and Pharmaceutical Industry, Oct. 7-9, **1982**, Kranjska Gora, Slovenia (Yugoslavia).

E. Bubić (speaker), Lidija Tadić, **Ž. Olujić**
Analytical form of the Gilliland plot
8th Meeting of Croatian Chemists, 11- 14 February **1983**, Zagreb, Croatia (Yugoslavia)

Ž. Olujić (speaker), M. Gjumbir
Effective solving the close boiling adiabatic equilibrium flash problems
5th International symposium "Computer on the University", May 23 – 25, **1983**, Cavtat, Croatia (Yugoslavia).

Ž. Olujić
Predicting two-phase-flow friction loss in horizontal pipes
AICHE Annual Meeting, Oct. 30 – Nov. 4, **1983**, Washington D.C., USA

M. Gjumbir, **Ž. Olujić** (speaker)
Computer programs for the application of Chebyshev polynomials
6th International symposium "Computer on the University", May 23 – 25, **1984**, Cavtat, Croatia (Yugoslavia).

Ž. Olujić (speaker), V. Simončič
Prediction of transitions between bubble, plug, and slug flow
5th Yugoslavian-Austrian-Italian Chemical Engineering Conference, Sept. 16-18, **1986**, Portorož, Slovenia (Yugoslavia).

M. Bilić (speaker), **Ž. Olujić**
Application and analysis of a conventional nautamixer as a reactor-dryer for small batch production of urea nitrate
4th Mediterranean Congress on Chemical Engineering, 11-13 November **1987**, Barcelona, Spain.

M. Bilić (speaker), **Ž. Olujić**
Convective drying of a slurry in an agitated conical dryer
6th International Drying Symposium (IDS'88), 5-8 September **1988**, Versailles, France

R. Stikkelman (speaker), H. Teeuw, J.A. Wesselingh, **Ž. Olujić**, J. de Graauw
Measurement and studies of gas and liquid distributions in structured packings
GVC - Jahrestreffen 1988 der Verfahrensingenieure, Sept. **1988**, Hannover, Germany

M. Vampola (speaker), D. Gosak, **Ž. Olujić**
Computer aided modeling of vapor-liquid equilibria and design of the column for rectification of the mixtures with very many components
Proc. of the 10th Int. Symposium on Computer Aided Design and Manufacture, Oct. **1989**, Zagreb, Croatia

C.C.J. Verlaan (speaker), **Ž. Olujić**, J. de Graauw
Performance evaluation of impingement gas-liquid separators
4th International Conference on Multiphase Flow, 19-21 June, **1989**, Nice, France.

Ž. Olujić (speaker), J. de Graauw
Experimental studies on the interaction between the initial liquid distribution and the performance of structured packings
Sixth Symposium on Separation Science and Technology, Oct. 22-26, **1989**, Knoxville, Tennessee, USA.

Ž. Olujić (speaker), F. Stoter, J. de Graauw
Liquid and gas distribution in large diameter packed columns: preliminary experimental results
Interne Arbeitssitzung des Fachausschusses "Thermische Zerlegung von Gas- und Flussigkeitsgemischen" der GVC/VDI- Gesellschaft Verfahrenstechnik und Chemieingenieurwesen, 4.-5. Mai **1990**, Berchtesgaden, Germany.

F. Stoter (speaker), J.J. v.d. Meer, **Ž. Olujić**, J. Wesselingh
Lateral spreading of liquid between two sheets of corrugated structured packings
Interne Arbeitssitzung des Fachausschusses "Thermische Zerlegung von Gas- und Flussigkeitsgemischen" der GVC/VDI- Gesellschaft Verfahrenstechnik und Chemieingenieurwesen, 4.-5. Mai **1990**, Berchtesgaden, Germany.

F. Stoter (speaker), J.J. v.d. Meer, **Ž. Olujić**, J. Wesselingh
Lateral spreading of liquid between two sheets of corrugated structured packings
Meeting of the EFCE Working Party on Distillation, Absorption and Extraction, May 17-18, **1990**, Oviedo, Spain.

M. Vampola (speaker), D. Gosak, **Ž. Olujić**
Mathematical modelling and simulation of continuous rectification of mixtures with very many components
Poster, 5th Mediterranean Congress on Chemical Engineering, 5-7 November **1990**, Barcelona, Spain.

C.C.J. Verlaan (speaker), **Ž. Olujić**, J. de Graauw
Effect of geometry and liquid properties on the reentrainment in vane-type demisters
Meeting of the EFCE Working Party on Multiphase Fluid Flow, 7th Nov. **1990**, Barcelona, Spain

F. Stoter (speaker), **Ž. Olujić**, J. de Graauw
Measurement and modelling of liquid distribution in structured packings
AIChE 1990 Annual Meeting, Nov. 11-16, **1990**, Chicago, IL, USA

Ž. Olujić (speaker), F. Stoter, J. de Graauw
Gas distribution in large-diameter packed columns
First Gas Separation International Conference, April 22-24, **1991**, Austin, Texas, USA.

Ž. Olujić (Guest lecture)
Progress in research on hydraulic and separating performance of structured packings
GLITSCH, Inc., 26 April **1991**, Dallas, Texas, USA.

C.C.J. Verlaan (speaker), **Ž. Olujić**, J. de Graauw
Effect of geometry and liquid properties on the re-entrainment in streamlined vane-type demisters with drainage system
5th International Conference on Multi-Phase Production, June **1991**, Cannes, France.

Ž. Olujić (speaker), F. Stoter, J. de Graauw
Gas and liquid distribution in large diameter columns containing structured packings
4th World Congress of Chemical Engineering, June **1991**, Karlsruhe, Germany.

Ž. Olujić (Invited lecture)
Structured packings - research and technology progress
4th Engineering Foundation International Conference on Separation Technology, Oct. **1991**, Kailua-Kona, Hawaii, USA.

F. Stoter (speaker), **Ž. Olujić**, J. de Graauw
Liquid distribution performance modeling and evaluation
AIChE 1991 Annual Meeting, Nov. **1991**, Los Angeles, CA, USA

F. Stoter (speaker), **Ž. Olujić**, J. de Graauw
Measurement and modeling of gas distribution in structured packings
Symposium on Advances in Separation Technologies, AIChE 1992 Spring National Meeting, March 29-April 2, **1992** New Orleans, LA, USA.

F. Stoter (speaker), **Ž. Olujić**, J. de Graauw
Modelling of hydraulic and separation performance of large diameter columns containing structured packings
Distillation and Absorption 1992, 7-9 September **1992**, Birmingham, UK.

Ž. Olujić (speaker), F. Stoter, J. de Graauw
Measurement of large scale gas and liquid maldistribution
Poster, Distillation and Absorption **1992**, 7-9 September 1992, Birmingham, UK.

Ž. Olujić (speaker), F. Stoter, J. de Graauw
Performance evaluation of structured packings: Large- versus small scale
AIChE Annual Meeting, 1-6 November **1992**, Miami Beach, Florida, USA,.

Ž. Olujić (speaker), C. Verlaan, H. Jansen, E. Zich
Droplet removal efficiency of structured packings
Symposium on Gas/Liquid Separators, Nov. **1992**, Nottingham, UK

Ž. Olujić (speaker),, F. Stoter, J. de Graauw
Liquid distribution performance of structured packings with different surface characteristics
AIChE Spring National Meeting, March 28-April 1, **1993**, Houston, TX, USA.

Ž. Olujić (speaker), F. Stoter, J. de Graauw
Hydraulic performance of large beds of strucutred packings, Arbeitssitzung 1994 des GVC-Fachausschusses "Thermische Zerlegung von Gas- und Flüssigkeitsgemischen", 4. und 5. Mai **1994**, Würzburg.

Ž. Olujić, Z. (Invited lecture)
Mechanism of vapor-liquid contacting on structured packings
GORDON RESEARCH CONFERENCE on Separation and Purification, July 31-August 5, **1994**, New London, New Hampshire, USA.

Graauw J. de, **Ž. Olujić** (speaker)
Nieuwe geometrieën van traagheidsdruppelafscheiders
Studiedag Tweefasenstroming, November 15, **1994**, Rotterdam, The Netherlands.

Ž. Olujić (speaker), J. de Graauw
Effects of geometrical features on the pressure drop of corrugated sheet strucutred packings.
AIChE 1994 Annual Meeting, San Francisco, November 13-18, **1994**.

Woerlee, G.F. (speaker), **Ž. Olujić**, J. de Graauw
An analytical approach to the modeling of packed column hydraulics
AIChE 1994 Annual Meeting, San Francisco, November 13-18, **1994**.

Woerlee, G.F. (speaker), **Ž. Olujić**, J. de Graauw
A novel method for separation of mixtures using supercritical fluids
AIChE 1994 Annual Meeting, San Francisco, November 13-18, **1994**.

Ž. Olujić (Invited lecture)
Hydraulic and separation performance of structured packings,
Seminar held on November 21, **1994**, Chemical Engineering Department, Oregon State University, Corvallis, Oregon, USA.

Ž. Olujić (speaker), M. van Beek, J. de Graauw
A Mechanistic model for pressure drop of corrugated sheet structured packings
AIChE Spring National Meeting, March 19-23, **1995**, Houston, TX, USA.

Ž. Olujić (speaker), A. Garcia, F. Seibert, J. Fair
Results of Montz packing tests
Separations Research Program (SRP) 1995 Fall Conference, October 10, **1995**, The University of Texas at Austin, Austin, TX, USA.

Ž. Olujić, J. de Graauw
Liquid distribution in packed columns
NPT/NIRIA Studiedag "Trends in Destillatie", October 26, **1995**, Utrecht, The Netherlands.

Ž. Olujić (Invited lecture)
Factors affecting liquid distribution in packed beds consisting of corrugated sheet structured packings
BAYER Kolloquium, November 28, **1995**, Leverkusen, Germany.

Ž. Olujić
Invloed van gas- en vloeistofverdeling op de scheidende werking van gestructureerde pakkingen in kolommen, 6e bijeenkomst van de gebruikersgroep scheidingstechnologie (NL GUTS), Koninklijke Gist-Brocades N.V., February 15, **1996**, Delft, The Netherlands.

Ž. Olujić (speaker), A. Garcia, F. Seibert, J. Fair
Structured packing studies: Effect of surface and corrugation angle
Separations Research Program (SRP) 1996 Spring Conference, The University of Texas at Austin, April 9, **1996**, Austin, Texas, USA.

Ž. Olujić (Guest lecture)
Delft approach to the modeling of hydraulics of structured packings
Fractionation Research, Inc. (FRI), April 12, **1996**, Stillwater, Oklahoma, USA.

Ž. Olujić (speaker), J. de Graauw
Ein mechanistisches Berechnungsmodell für den Drukverlust der geordneten Packungen
Symposium des GVC-Fachauschusses "Thermische Zerlegung von Gas- und Flüssigkeitsgemischen", April 29-30, **1996**, Luzern, Switzerland.

Ž. Olujić (speaker), A. Roelofse, F. Stoter, J. de Graauw
A prototype expert system for evaluation of the effect of liquid distribution on the separation performance of distillation columns equipped with structured packings
5th World Congress of Chemical Engineering, July 14-18, **1996**, San Diego, California, USA.

Fakhri (speaker), **Ž. Olujić**, J. de Graauw
Development of a hybrid distillation/vapour permeation process for solvent dehydration
CHISA'96, 12th International Congress of Chemical and Process Engineering, 25-30 August **1996**, Prague, Czech Republic.

Ž. Olujić (speaker), L. Voogd, H. Poelwijk, J. de Graauw
A mechanistic study of hydraulics of corrugated sheet structured packings
Poster, 7th Mediterranean Congress of Chemical Engineering, October 22-24, **1996**, Barcelona, Spain.

Ž. Olujić (speaker), H. Matthijsse, J. de Graauw
Effect of column diameter on pressure drop of corrugated sheet structured packings
Poster, 7th Mediterranean Congress of Chemical Engineering, October 22-24, **1996**, Barcelona, Spain.

Ž. Olujić (speaker), A. Kamerbeek, J. de Graauw
A mechanistic model for hydraulic and separation performance of corrugated sheet structured packings
AIChE Annual Meeting, November 10-15, **1996**, Chicago, Illinois, USA.

V. Kochergin, M. Kearney, M. Kroon, and **Ž. Olujić** (speaker)
Performance Evaluation of a Liquid Distributor Based on Fractal Geometry
AIChE Annual Meeting, November 16-21, **1997**, Los Angeles, CA, USA.

H.J. Verschoff, **Ž. Olujić** (speaker), and J. R. Fair
A General Correlation for Predicting the Loading Point of Corrugated Sheet Structured Packings
Topical Conference on Separation Science and Technology, AIChE Annual Meeting, November 16-21, **1997**, Los Angeles, CA, USA.

Ž. Olujić
Structured packings: an overview
Topical Conference on Separation Science and Technology, AIChE Annual Meeting, November 16-21, **1997**, Los Angeles, CA, USA

Ž. Olujić
Structured packings – Can we get more out of it?
Distillation Technology Conference, April 2-4, **1998**, Orlando, Florida, USA.

Ž. Olujić
Packed Column Technology – An ongoing development story!
Lecture/Seminar at Grimley Smith Associates Ltd., June 11, 1998, Brigg, North Lincolnshire, UK

A. Mohamed Ali, P.A.A. Le Haen and **Ž. Olujić** (speaker)
Fluid Dynamics and the Performance of Corrugated Sheet Structured Packing,
EFCE Working Party on Distillation, Absorption and Extraction, 5-7 October **1998**, The Forte Hotel Village, Sardinia.

Ž. Olujić (speaker), T. Bavelaar and J. de Graauw
Effect of column diameter on pressure drop of corrugated sheet structured packing
AIChE Annual Meeting, November 15-20, **1998**, Miami Beach, Florida, USA.

Ž. Olujić (invited lecture)
Recent Developments and Potential for Improvement of Structured Packing Performance
Invited lecture: Sulzer Chemtech, 17 December **1998**, Winterthur, Switzerland.

Ž. Olujić
High-Performance Packings and Trays – The key to an energy-efficient distillation process
Invited lecture, NL-GUTS-working group distillation/membranes, TNO-MEP, 21 Jan. **1999,** Appeldorn, The Netherlands.

Ž. Olujić
Emergence of the Monolith as a Contacting Device
Plenary lecture, XVI Croatian Meeting of Chemists and Chemical Engineers, Split, Croatia, 23-26 February **1999**.

V. Kochergin, M. Kearney and **Ž. Olujić** (speaker)
A Metal Liquid Distributor Based on Fractal Geometry
AIChE Spring Meeting, March 14-18, **1999**, Houston, TX, USA.

A.F. Seibert, J.R. Fair and **Ž. Olujić** (speaker)
Influence of Corrugation Geometry on Hydraulics and Mass Transfer Performance of Structured Packings: An Experimental Study
AIChE Spring Meeting, March 14-18, **1999**, Houston, TX, USA.

D. Stanbridge (speaker), R. Swanborn and **Ž. Olujić**
A novel recycle axial flow cyclone with strongly improved characteristics for high-pressure and high-throughput operation
9th International Conference Multiphase'99, Cannes 16-18 June **1999**.

J. R. Fair, A. F. Seibert, M. Behrens, P. Saraber and **Ž. Olujić** (speaker)
Structured Packing Performance: Effect of Packing Dimensions on Performance
AIChE Annual Meeting, Oct. 31 – Nov. 5, **1999**, Dallas, Texas, USA.

Ž. Olujić
Low pressure drop internals, key to an energy-efficient distillation process
National Institute of Materials and Chemical Research, Jan. 29, **2000,** Tsukuba, Japan.

Ž. Olujić
Development of a generalised model for performance analysis and scale up of distillation columns containing structured packings
Faculty Seminar, Nagoya Institute of Technology, Department of Applied Chemistry, Feb. 3, **2000**, Nagoya, Japan.

Ž. Olujić
Development of new generation of monolith-like contacting devices for distillation and other countercurrent gas/liquid flow applications
Faculty Seminar, Kyoto University, Chemical Engineering Department, Feb. 4, **2000**, Kyoto, Japan.

Ž. Olujić
Performance Modelling of Distillation Internals: Comprehensive Approaches for Rigorous Design of Structured Packing Columns
Vision 2020: Distillation Priorities Topical Symposium, AIChE Spring National Meeting, March 5-9, **2000**, Atlanta, Georgia, USA.

Ž. Olujić (speaker), A.F. Seibert, C. Lewis, J. Lopez-Toledo, J. R. Fair
Structured Packing Performance Evaluation and Improvement
The Spring Meeting of the Separations Research Program, The University of Texas at Austin, April 18-19, **2000** Austin, Texas, USA.

M Crine (speaker), D. Toye, P. Marchot, **Ž. Olujić**
Liquid distribution of Mellapak 250 Y structured packing by X-ray computed tomography
EFCE WP "Distillation, Absorption, Extraction" Meeting/Symposium, 3 – 4 May **2000**, Winterthur, Switzerland.

D. Stanbridge, C. Heijckers (speaker), Swanborn, and **Ž. Olujić**
Validation of a CFD model of a novel recycle flow cyclone for droplets removal from gas streams
10th European Symposium on Computer Aided Process Engineering (ESCAPE-10), 7-10 May **2000**, Florence, Italy.

Ž. Olujić (speaker), A.F. Seibert, C. Lewis, J. Lopez-Toledo, J. R. Fair
Structured Packing Performance Evaluation and Improvement
The European Meeting of the Separations Research Program, 5-6 June **2000**, Arnhem, The Netherlands.

P. Marchot, D. Toye, M. Crine, G. L' Homme, A.-M. Pelsser, **Ž. Olujić** (speaker)
Imaging of Liquid Distribution within Corrugated Sheet Structured packing Beds by X-Ray Computed Tomography
GVC-Jahrestagung 2000, 20 – 22 September **2000**, Karlsruhe, Germany.

Ž. Olujić
Stretching the Capacity of Structured Packings
Invited paper, Distillation Honors Session lecture, honoree J. R. Fair, AIChE Annual Meeting, November 12-17, **2000**, Los Angeles, California, USA

D. Stanbridge (speaker), C. Heijckers, R. Swanborn, P. Jansens, **Ž. Olujić**
Development of a New Generation of Cyclonic Demisters
AIChE Annual Meeting, USA, November 12-17, **2000**, Los Angeles, California.

Ž. Olujić
Comprehensive Approaches for Performance Modeling of Packed Columns
Seminar, University of Liege, December 5, **2000**, Liege, Belgium.

P.J. Jansens (speaker), Fakhri, J. de Graauw, **Ž. Olujić**
Energy Saving Potential of a Heat Integrated Distillation Column
Proceedings of Topical Conference Distillation 2001: Frontiers in a New Millennium, AIChE Spring National Meeting, April 22-26, **2001**, Houston, Texas, USA.

B. Voslamber (speaker), Fakhri, J. de Graauw, **Ž. Olujić**
Effect of Permeate Dilution on the Performance of a Hybrid, Vapor-Permeation/Distillation Solvent Dehydration Process
Proceedings of Topical Conference Distillation 2001: Frontiers in a New Millennium, AIChE Spring National Meeting, April 22-26, **2001**, Houston, Texas, USA.

Ž. Olujić (speaker), A. F. Seibert, B. Kaibel, H. Jansen, T. Rietfort, and E . Zich
Performance of New Generation of Montz High Capacity Structured Packings
Proceedings of Topical Conference Distillation 2001: Frontiers in a New Millennium, AIChE Spring National Meeting, April 22-26, **2001,** Houston, Texas, USA.

Ž. Olujić, M. Crine (speaker), D. Toye, and P. Marchot
X-Ray Computed Tomography: Key to Revealing the Secrets of Small Scale Liquid Maldistribution in Packed Beds
Proceedings of Topical Conference Distillation 2001: Frontiers in a New Millennium, AIChE Spring National Meeting, April 22-26, **2001**, Houston, Texas, USA, 2001.

Fakhri, B. Voslamber, J. de Graauw, and **Ž. Olujić** (speaker)
Effect of the Sweep Stream on Performance of a Hybrid, Vapour Permeation/Distillation Solvent Dehydration Process

Proceedings of the Engineering with Membranes Conference (editors: S. Luque and J. R. Alvarez), June 3-6, **2001**, Granada, Spain.

D. Toye (speaker), P. Marchot, M. Crine, G. L'Homme, and **Ž. Olujić**
Liquid Holdup Distribution in a Corrugated Sheet Structured Packing Measured by X-Ray Tomography
3rd European Congress of Chemical Engineering, 26-28 June **2001**, Nuremberg, Germany.

D. Stanbridge, C. Heijckers, Swanborn, P. J. Jansens, and **Ž. Olujić** (speaker)
CFD Aided Optimisation of the Performance of a New Generation of Recycle Axial Flow Cyclonic Demisters
6th World Congress of Chemical Engineering, 24-27 September, **2001**, Melbourne, Australia.

B. Mohamed Ali (speaker), P. J. Jansens, **Ž. Olujić**
The Use of Computational Fluid Dynamics to Model Gas Flow Distribution in Packed Columns
6th World Congress of Chemical Engineering, 24-27 September, **2001**, Melbourne, Australia.

D. Toye (speaker), M. Crine, G.L. Homme, **Ž. Olujić**, P. Marchot
Mesure de la distribution de la retention liquide dans un empilage structure par tomographie a rayons X
Recent Progres en Genie des Procedes-Information, Modelisation, Simulation and Optimisation, **2001**, Paris.

Ž. Olujić
Liquid Distribution Performance of Multiple-Nozzle Spray Distributors
Distillation Honors Session (Honoree J. G. Kunesh), AIChE Annual Meeting, November 4-9, **2001**, Reno, Nevada, USA.

Ž. Olujić
On the Road to an Energy Efficient Distillation Column
International Energy Agency Meeting on Implementing Agreement on Energy Efficiency in Separation Technologies, 3-4 December **2001**, Petten, The Netherlands.

Ž. Olujić
Delft Model – A Comprehensive Design Tool for Corrugated Sheet Structured Packings
Topical Conference "Distillation Tools for the Practicing Engineer", AIChE Spring Meeting, March 10 – 14, **2002**, New Orleans, LA, USA.

A. Mohamed Ali, P. J. Jansens, **Ž. Olujić** (speaker)
CFD simulation software – A Design Tool for Packed Column Internals
Topical Conference "Distillation Tools for the Practicing Engineer", AIChE Spring Meeting, March 10 – 14, **2002**, New Orleans, LA, USA.

Ž. Olujić
Improving Energy Intensive Separations
Keynote Lecture, 1st International Congress on Process Industries, ACHEMAMERICA, March 18 – 20, **2002**, Mexico City, Mexico.

E. Saarloos, P. J. Jansens, **Ž. Olujić** (speaker)
Predicting the Performance of High Capacity Structured Packings
15th International Congress of Chemical and Process Engineering, CHISA 2002, 25-29 August **2002**, Prague, Czech Republic.

Ž. Olujić (speaker), A. de Rijke, J. de Graauw, P. J. Jansens
Development of an Energy Efficient Distillation Column

Process Innovation and Process Intensification (PI)^2 Conference, 9-13 September **2002**, Edinburgh, Scotland.

Ž. Olujić (speaker), A. Mohamed Ali, P. J. Jansens
Effect of the Initial Gas Maldistribution on the Pressure Drop of Structured Packings
7th Distillation & Absorption Conference, 30 September - 2 October **2002**, Baden-Baden, Germany.

A. Mohamed Ali (speaker), P. J. Jansens, **Ž. Olujić**
Experimental Characterisation and CFD Simulation of Gas Distribution Performance of Liquid (Re)Distributors and Collectors in Packed Columns
7th Distillation & Absorption Conference, 30 September - 2 October **2002**, Baden-Baden, Germany.

Ž. Olujić
Distillation Combined with Membrane Permeation
GEA Wiegand Seminar "Thermal Separation Technology", 30 October **2002**, Delft, The Netherlands.

Ž. Olujić
Characterization of Large Scale Gas Maldistribution in Packed Columns
Invited paper presented in Distillation Honors Session (honoree M. J. Lockett)
AIChE Annual Meeting, November 3-8, **2002**, Indianapolis, Indiana, USA.
P. J. Jansen (speaker), A. De Rijke, J. De Graauw,

Ž. Olujić
Development of an Effective Heat and Mass Transfer Device: The Key to Implementation of a Heat Integrated Distillation Column
AIChE Annual Meeting, November 3-8, **2002**, Indianapolis, Indiana, USA.

J.R. Fair (speaker), **Ž. Olujić**, A.F. Seibert
Effectiveness of Surface Perforations on the Performance of Structured Packings
Separations Research Program Spring Meeting, 3 April, **2003**, Austin, TX, USA.

F. T. de Bruijn (speaker), F. W. Oskamp, L. Sun, **Ž. Olujić**, P. J. Jansens, F. Kapteijn
Support layer resistance of a composite silica membrane for separation of methanol – MTBE mixture
9th Aachen Membrane Colloquium, Aachen, Germany, 18-20 March **2003**.

P. C. Perez (speaker), R. Van Grinsven, **Ž. Olujić**, P. J. Jansens, M. Nienord, R. Creusen
A ceramic membrane based distillation/pervaporation process for ethanol dehydration
Preprints, 9th Aachen Membrane Colloquium, Aachen, Germany, 18-20 March **2003**.

M. Behrens, P. J. Jansens, **Ž. Olujić** (speaker)
Experimental characterization and Modeling of the Hydraulic Performance of a High Capacity Catalytic Packing
Topical Conference on Distillation Tools for the Practicing Engineer, AIChE Spring National Meeting, New Orleans, LA, USA, March 31 – April 3, **2003**.

Ž. Olujić, A. F. Seibert (speaker), J. R. Fair, B. Kaibel, H. Jansen, T. Rietfort, E. Zich
Effect of perforations on the performance of large surface area structured packings
Proceedings of the Topical Conference on Distillation Tools for the Practicing Engineer, AIChE Spring National Meeting, New Orleans, LA, USA, March 31 – April 3, **2003**.

Ž. Olujić (speaker), A. M. Ali, R. van Baak, J. P. Haring, P. J. Jansens
Effect of the chordal blockage type of initial gas maldistribution on the hydraulics' of a structured packing
Topical Conference on Distillation Tools for the Practicing Engineer, AIChE Spring National Meeting, New Orleans, LA, USA, March 31 – April 3, **2003**.

Ž. Olujić (speaker), B. Kaibel (speaker), H. Jansen, T. Rietfort, E. Zich, G. Frey
Distillation Column Internals - Configurations for Process Intensification
Tandem-presentation, ACHEMA 2003 Congress, 18-24 May **2003**, Frankfurt a.M., Germany.

Ž. Olujić (speaker), B. Kaibel, H. Jansen, T. Rietfort, E. Zich, G. Frey
Distillation Column Internals Related Process Intensification Developments
IcheaP-6, The sixth Italian Conference on Chemical and Process Engineering, 8-11 June **2003**, Pisa, Italy.

S. Murphy (speaker), M. J. B. M. Pourquie, R. Delfos, **Ž. Olujić**, P. J. Jansens
Comparison of the flowfield prediction within an axial hydrocyclone for oil/water separation using two commercial CFD codes
Poster, Multiphase '03 Conference, 11-13 June **2003**, San Remo, Italy.

Ž. Olujić
TU Delft HIDiC Project: Activities/Results
Guest presentation given at respectively:
AIST and Nippon Sanso (at Nippon Sanso Laboratories), 5 September **2003**, Tsukuba, Japan.
Kimura Chem. Co., 8 September **2003,** Amagasaki, Japan.
Kansai Chem. Eng. Co., 8 September **2003,** Amagasaki, Japan.
Kobelco (Kobe Steel), 9 September **2003**, Kobe, Japan.

Ž. Olujić
Development of an Energy Efficient Distillation Column
Introductory lecture to HIDiC Panel Discussion Session at SCEJ Annual Meeting, 12 – 14 September **2003**, Sendai, Japan.

R. Delfos, S. Murphy (speaker), D. Stanbridge, **Ž. Olujić**, P.J. Jansens
A design tool for optimising axial liquid-liquid hydrocyclones
Hydrocyclones '03, 24-26 September **2003**, Capetown, Republic of. South Africa.

L. Sun, **Ž. Olujić**, A. de Rijke (speaker), P. J. Jansens
Industrially viable configurations for a heat-integrated distillation column
Better Processes for Bigger Profits, Proceedings of the 5th International Conference on Process Intensification for Chemical Industry, 13-15 October **2003**, Maastricht, The Netherlands.

Ž. Olujić (speaker), P.J. Jansens, L. Sun, A. de Rijke
Analysis and Optimization of Heat Integrated Distillation Columns
AIChE Annual Meeting, November 16-21, **2003**, San Francisco, USA

M. Behrens (speaker), **Ž. Olujić**, P. Jansens, P. Moritz
Hydraulic Performance of Modular Catalytic Structured Packing
AIChE Annual Meeting, November 16-21, **2003**, San Francisco, USA

B. Kaibel (speaker), H. Jansen, T. Rietfort, E. Zich, G. Frey, **Ž. Olujić**
Dividing Wall Column – A breakthrough in distillation technology
ACHEMASIA 2004 Congress, 11-15 May **2004**, Beijing, PR China.

P. Perez (speaker), **Ž. Olujić**, P. J. Jansens
A Design Tool for Shell and Tube Ceramic Vapour-Permeation Membranes Modules
EUROMEMBRANE 2004, 28 September – 1 October **2004**, Hamburg/Harburg, Germany.

H. Mori (speaker), R. Ibuki, K. Taguchi, K. Futamara, **Ž. Olujić**
Three-Component Distillation Using Structured Packings: Performance Evaluation and Modelling
10th APCChE Congress (Asian Pacific Confederation of Chemical Engineering), October 17 – 21, **2004**, Kitakyushu, Japan.

Ž. Olujić
Large Scale Experimental Evidence on Liquid Distribution Behavior of Conventional Structured Packings
AIChE Annual meeting and Fall Showcase, November 7 – 12, **2004**, Austin, Texas, USA.

M. Behrens, L. Spiegel, **Ž. Olujić** (speaker)
Experimental Characterisation and Modelling of the Performance of a Large Specific Area, High Capacity Structured Packing
VDI-GVC Working Party "Fluidverfahrenstechniek" Meeting, 2-4 March **2005**, Lübeck, Germany.

Ž. Olujić
Augmenting/Replacing Distillation by Membranes – Developments and Prospects
Keynote lecture, 19th Meeting of Croatian Chemists and Chemical Engineers, 25-27 April **2005**, Opatija, Croatia.

F. de Bruijn (speaker), P. Perez, **Ž. Olujić**, F. Kapteijn, P. J. Jansens
Experimental Comparison of Vapour Permeation and Pervaporation with (Methylated-) Silica Membranes and Validation of a Design Tool for Scale-up
PCM 2005 – International Conference on Porous Ceramic Materials, October 20-21, **2005**, Brugge, Belgium.

A. Rix (speaker), **Ž. Olujić**
Pressure Drop of Packed Column Internals
AIChE Spring National Meeting, April 23-27, **2006**, Orlando, FL, USA.

Ž. Olujić (speaker), T. Rietfort, B. Kaibel, H. Jansen, E. Zich
Optimizing the Performance of High Capacity Corrugated Sheet Structured Packings
AIChE Spring National Meeting, April 23-27, **2006**, Orlando, FL, USA.

B. Kaibel (speaker), H. Jansen, E. Zich, **Ž. Olujić**
Unfixed Dividing Wall Technology for Packed and Tray Columns
ACHEMA Congress, 15-19 May **2006**, Frankfurt aM, Germany.

Ž. Olujić (speaker), T. Rietfort, B. Kaibel, H. Jansen, E. Zich
Optimizing the Performance of High Performance Large Specific Area Structured Packing
ACHEMA Congress, 15-19 May **2006**, Frankfurt aM, Germany.

A. Rix (speaker), **Ž. Olujić**
Pressure Drop of Packed Column Internals
ACHEMA Congress, 15-19 May **2006**, Frankfurt aM, Germany.

F.T. de Bruijn (speaker), J. Gross, **Ž. Olujić**, F. Kapteijn, P.J. Jansens
Separation of methanol from MTBE by pervaporation using a methylated silica membrane
International Workshop Membranes in Solvent Filtration, March 23, **2006**, Leuven, Belgium.

Ž. Olujić (speaker), T. Rietfort, H. Jansen, B. Kaibel, E. Zich, G. Ruffert, T. Zielke
Large scale total reflux experiments with high performance Montz structured packings
Gemeinsame Sitzung der ProcessNet Fachausschüsse „Process- und Anlagetechnik“
und „Fluidverfahrenstechniek“, 11 – 13 February **2007**, Karlsruhe, Germany.

B. Kaibel (speaker), T. Rietfort, H. Jansen, E. Zich, G. Frey, **Ž. Olujić**
High performance Montz structured packings and internals for conventional and dividing wall packed columns
ACHEMASIA, 14-18 May 2007, Beijing, PR China

M. Behrens, **Ž. Olujić** (speaker), P. J. Jansens
Mass Transfer Performance of Modular Catalytic Structured Packing
6th European Congress of Chemical Engineering (ECCE-6), 16-20 September **2007**, Copenhagen, Denmark

A de Rijke, **Ž. Olujić** (speaker), L. Sun, M. A. Gadalla, P. J. Jansens
Design of a Minimum Energy/CO2 Emissions Distillation Column for Separation of Close Boiling Mixtures
6th European Congress of Chemical Engineering (ECCE-6), 16-20 September **2007**, Copenhagen, Denmark.

Ž. Olujić (speaker), M. Behrens, P. J. Jansens
Mass Transfer Performance of Packed Beds Containing Catalytic Structured Packing: Model vs. Experiment (paper 272b)
AIChE Annual Meeting, 4 – 9 November **2007**, Salt Lake City, Utah, USA.

Ž. Olujić
Modeling the Performance of Conventional and High Capacity Structured Packings (paper 350f)
AIChE Annual Meeting, 4 – 9 November **2007**, Salt Lake City, Utah, USA

Ž. Olujić
Making distillation more energy-efficient
Invited lecture, 10th Anniversary Meeting of the Dutch Process Intensification Network (PIN-NL), 20 November, **2007**, SRTC, Amsterdam, The Netherlands.

Ž. Olujić (speaker), M. Jödecke, G. Schuh
Standardization of Structured Packing Efficiency Measurements – A work in progress
Gemeinsame Sitzung der ProcessNet Fachausschüsse „Adsorption“
und „Fluidverfahrenstechniek“, 13 – 14 März **2008**, Bingen, Germany

Ž. Olujić (speaker), M. Jödecke, G. Schuh
Standardization of Structured Packing Efficiency Measurements – A work in progress
AIChE Spring National Meeting, April 6-10, **2008**, New Orleans, Louisiana, USA

Ž. Olujić
Standardization of Structured Packing Efficiency Measurements– A work in progress
EFCE WP “Fluid Separations” Annual Meeting, 22-23 May **2008**, Prague, Czech Republic

Ž. Olujić
Chemical Engineering – Future Challenges
Invited lecture, Croatian Academy of Arts and Sciences, 30 May **2008**, Zagreb, Croatia.

M. Jödecke (speaker), **Ž. Olujić** (speaker)
Neue Trends in der Destillation
Invited tandem-presentation, ProcessNet-Jahrestagung, 7-9 October, **2008**, Karlsruhe, Germany

Ž. Olujić (speaker), M. Behrens
Mass Transfer Performance of Packed Beds Containing a Modular Catalytic Structured Packing
AIChE Annual Meeting, November 16-21, **2008**, Philadelphia, Pennsylvania, USA

M. Jödecke (speaker), **Ž. Olujić**
Workshop "Standardisierung von Trennleistungsmessungen für Kolonneneinbauten unter totalem Rücklauf"
Gemeinsame Sitzung der ProcessNet Fachausschüsse „Kristallisation" und „Fluidverfahrenstechniek", 12 – 13 März, **2009**, Dortmund, Germany

Ž. Olujić (invited lecture/seminar)
Catalytic structured packings: Scale-up considerations and concerns
Universitat Rovira i Virgili, 3 April, **2009**, Tarragona, Spain

M. Gadalla, L. Jimenez, A. de Rijke, **Ž. Olujić** (speaker)
Optimizing the design of a heat integrated vacuum distillation column
Distillation Topical Conference, AIChE Spring National Meeting, April, 26-30, **2009**, Tampa, Florida, USA

Ž. Olujić (seminar/guest lecture)
Distillation Equipment Improvement Trends
RHODIA, 2 October **2009**, Lyon, France

Ž. Olujić (seminar/guest lecture)
High Performance Structured Packings: Making CO2 capture and reactive distillation viable
Universite de Liege, 5 October **2009**, Liege, Belgium

Ž. Olujić
Comparison of Gas Distribution Characteristics of Conventional and High-Capacity Structured Packings
AIChE Annual Meeting, November 8-13, **2009**, Nashville, Tennessee, USA

Ž. Olujić (invited keynote lecture)
Distillare Necese Est – Towards Sustainable Distilling
AIChE Annual Meeting, November 8-13, **2009**, Nashville, Tennessee, USA

Ž. Olujić (guest lecture)
Separation Technology: Towards sustainable gas & oil processing, refining, and petrochemicals industries
Petroleum Institute, 17 December **2009**, Abu Dhabi, UAE

I. Dejanović, Lj. Matijašević, **Ž. Olujić** (speaker), I. Halvorsen, S. Skogestad, H. Jansen, B. Kaibel
Design of a 4-Product Dividing Wall Column: One Vs Multiple Partition Wall Configurations
AIChE Spring National Meeting, March 21-25, **2010**, San Antonio, TX, USA

Ž. Olujić (speaker), S. Tromp
HIDiC as a Retrofit Technology
AIChE Spring National Meeting, March 21-25, **2010**, San Antonio, TX, USA

Ž. Olujić (invited keynote lecture)
Distillation for Energy Savings and Sustainability
XXII Croatian Meeting of Chemists and Chemical Engineers, 13-16 February **2011**, Zagreb, Croatia

G. Ruffert, M.-P. Grün, (speaker), R. Zečirović, B. Brocades, T. Bril, F. Pronk, F. Herbstritt, **Ž. Olujić**
A Modular and Flexible Approach to Micro-Structured Devices for Desorption: The High Efficiency Contactor
Jahrestreffen der ProcessNet-Fachausschüsse "Extraktion", "Fluidverfahrenstechnik", "Mehrphasenströmungen" und "Phytoextrakte", 3.- 4. März **2011**, Fulda, Germany

G. Ruffert , M.-P. Grün, R. Zečirović, B. Brocades, T. Bril, F. Pronk, F. Herbstritt, **Ž. Olujić** (speaker)
A Modular and Flexible Approach to Micro-Structured Devices for Desorption: The High Efficiency Contactor
PSTC (SRP) Spring Meeting, 12-13 April **2011**, Austin, TX, USA

G. Ruffert, M.-P. Grün, R. Zečirović, B. Brocades, T. Bril, F. Pronk, F. Herbstritt, **Ž. Olujić** (speaker)
A Modular and Flexible Approach to Micro-Structured Devices for Desorption: The High Efficiency Contactor
EFCE Working Party "Fluid Separations" Annual Meeting, 25-26 May **2011**, Oxford, UK

B. Brocades (speaker), T. Bril, F. Pronk, R. Zečirović, G. Ruffert, **Ž. Olujić**
A microsieve high-efficiency gas-liquid contactor
The 3rd European Process Intensification Conference, 20-23 June **2011**, Manchester, UK

I. Dejanović, Lj. Matijašević, B. Kaibel, H. Jansen, **Ž. Olujić** (speaker- keynote lecture)
Dimensioning packed dividing wall columns with multiple partitions
8th European Congress of Chemical Engineering, 25-29 September **2011**, Berlin, Germany

Ž. Olujić (speaker), S. I. Tromp, J. Lavén, C. Dusseljee, A.I. Stankiewicz
Experimental Characterization and Performance Evaluation of a Concentric, Internally Heat Integrated Distillation Column
8th European Congress of Chemical Engineering, 25-29 September **2011**, Berlin, Germany

O.S.L. Bruinsma (speaker), J. Cot, M. Sarić, T. Krikken, S.A. Tromp, **Ž. Olujić**
The structured heat integrated distillation column
8th European Congress of Chemical Engineering, 25-29 September **2011**, Berlin, Germany

I.J. Halvorsen (speaker), S. Skogestad, I. Dejanović, **Ž. Olujić**
Optimal design of energy integrated distillation processes for multicomponent ideal and non-ideal mixtures by use of Vmin-diagram
AIChE Annual Meeting, 16- 21 October **2011**, Minneapolis, MN, USA

Ž. Olujić (invited lecture)
Geordnete Packungen - Eine Erfolgsgeschichte
100th anniversary of Julius Montz GmbH, 21 October **2011**, Hilden, Germany

Ž. Olujić (opening plenary lecture)
Paving the road to sustainable distillation
4th National Conference on Mass Transfer and Separation Engineering (NCMS2011), 18-21 November **2011**, Tianjin, PR China

Ž. Olujić (guest lecture)
Paving the road to sustainable distillation
Beijing University of Chemical Technology, 22 November **2011**, Beijing, PR China

Ž. Olujić (guest lecture)
Paving the road to sustainable distillation
China University of Petroleum, 24 November **2011**, Qingdao, PR China

Ž. Olujić (speaker), S. I. Tromp, J. Lavén, C. Dusseljee, A.I. Stankiewicz
Experimental evaluation of a concentric tray HIDiC performance
Distillation Topical Conference, AIChE Spring Meeting, April 1-5, **2012**, Houston, TX, USA

I.J. Halvorsen (speaker), S. Skogestad, I. Dejanović, **Ž. Olujić**
Assesment of minimum and operation flexibility of complex dividing wall columns by use of the Vmin-diagram
Distillation Topical Conference, AIChE Spring Meeting, April 1-5, **2012**, Houston, TX, USA

Ž. Olujić (speaker), B. Kaibel, H. Jansen, T. Rietfort, E. Zich
FRI test data and performance modelling of Montz-pak B1-250MN
Distillation Topical Conference, AIChE Spring Meeting, April 1-5, **2012**, Houston, TX, USA.

Ž. Olujić (guest lecture)
Paving the road to sustainable distillation
University of Salamanca, 15 October **2012**, Salamanca, Spain

I. Dejanović, I.J. Halvorsen, S. Skogestad, H. Jansen, **Ž. Olujić** (speaker)
Cost-Effective Design of Energy Efficient Four-Product Dividing Wall Columns
Gemeinsame Sitzung der ProcessNet Fachausschüsse „Fluidverfahrenstechniek“ und „Wärme und Stoffübertragung“, 20-21 March **2013**, Baden-Baden, Germany

Ž. Olujić (speaker), B. Kaibel, T. Rietfort, H. Jansen, E. Zich
FRI test data and modelling of Montz high performance corrugated sheet structured packings
Gemeinsame Sitzung der ProcessNet Fachausschüsse „Fluidverfahrenstechniek“ und „Wärme und Stoffübertragung“, 20-21 March **2013**, Baden-Baden, Germany

I.J. Halvorsen (speaker), I. Dejanović, **Ž. Olujić**, S. Skogestad
A simple and effective assessment and conceptual design procedure from multi-partition dividing wall columns
9th European Congress of Chemical Engineering, 21-25 April, **2013**, The Hague, The Netherlands

Ž. Olujić (plenary lecture)
Dividing Wall Column Technology – Advances and Challenges
ACHEMASIA 2013, 2nd International Chemical Separation Technology Symposium
15-16 May **2013**, Beijing, PR China

Ž. Olujić (guest lecture)
Dividing Wall Column Technology – Advances and Challenges
SINOPEC, 17 May **2013**, Beijing, PR China

Ž. Olujić (guest lecture)
Dividing Wall Column Technology – Advances and Challenges
Eastman Chem. Co., October 31, **2013**, Kingsport, TN, USA

Ž. Olujić (invited lecture)
Performance of sieve trays in a heat integrated concentric column
Distillation Honors Session (Dan Summers Honoree), AIChE Annual Meeting, November 3-8, **2013**, San Francisco, CA, USA

Ž. Olujić (speaker), T. Rietfort, H. Jansen, E. Zich
Performance characteristics of an intermediate area high performance structured packing
AIChE Spring National Meeting, March 30-April 3, **2014**, New Orleans, LA, USA

I. Dejanović (speaker), H. Jansen, **Ž. Olujić**
Dividing Wall Column as Energy Saving Retrofit Technology
AIChE Spring National Meeting, March 30-April 3, **2014**, New Orleans, LA, USA

Ž. Olujić (speaker), T. Rietfort, H. Jansen, E. Zich
Performance characteristics of an intermediate area high performance structured packing
10th Distillation and Absorption Conference Proceedings, 14-17 September **2014**, Friedrichshafen, Germany.

Ž. Olujić (speaker), H. Jansen
Large diameter experimental evidence on liquid (mal)distribution properties of structured packings
10th Distillation and Absorption Conference Proceedings, 14-17 September **2014**, Friedrichshafen, Germany.

I. Dejanović (speaker), H. Jansen, **Ž. Olujić**
Dividing wall column as energy saving retrofit technology
10th Distillation and Absorption Conference Proceedings, 14-17 September **2014**, Friedrichshafen, Germany.

I. J. Halvorsen (speaker), I. Dejanović, K. A. Maråk, **Ž. Olujić**, S. Skogestad
Dividing wall columns for NGL fractionation
10th Distillation and Absorption Conference Proceedings, 14-17 September **2014**, Friedrichshafen, Germany.

Ž. Olujić (guest lecture),
Dividing Wall Column Technology – Advances and Challenges
ARKEMA, September 19, **2014**, Carling/St. Avold, France

I. Dejanović (speaker), **Ž. Olujić**, H. Jansen
Hydraulic Design of Packed Dividing Wall Columns
24th Croatian Meeting of Chemists and Chemical Engineers, 21-24 April **2015**, Zagreb, Croatia

Ž. Olujić
A Pressure Drop Model for Structured Packings in Deep Vacuum Applications - Back to basics
EFCE WP "Fluid Separations" Annual Meeting, 28-29 May **2015**, Budapest, Hungary.

H. Jansen, T. Rietfort, I. Dejanović (speaker), **Ž. Olujić**
Hydraulic Design of Packed Dividing Wall Columns
ACHEMA Praxis Forum, 15-18 June, **2015**, Frankfurt a.M., Germany.

Ž. Olujić (invited lecture)
Predicting the Pressure Drop of Structured Packings at Lowest Operating Pressures
International Forum on Mass Transfer and Separation Engineering (IFMS2015) November 16-18, **2015**, Tianjin, PR China

Ž. Olujić (guest lecture)
Dividing Wall Column Technology – Advances and Challenges
Chemical Engineering Department, Xian University, November 20, **2015**, Xian, PR China

Ž. Olujić (speaker), T. Rietfort, H. Jansen
Peculiarities of Structured Packings Performance at Lowest Operating Pressures
ProcessNet Working Party Fluidverfahrenstechnik Meeting, 16-17 March **2016**, Garmisch Partenkirchen, Germany

Ž. Olujić (Opening plenary lecture)
Dividing Wall Technology - Recent Developments & Challenges
Dividing Wall Column Technology Workshop, 24-26 March **2016**, Changsha, PR China

H. Jansen, T. Rietfort, T. Hugen, I. Dejanović (speaker), **Ž. Olujić**
Bridging the Know-How Gap – Hydraulic Design of a Packed Dividing Wall Column
AIChE Spring National Meeting, April 10-14, **2016**, Houston, TX, USA

Ž. Olujić (speaker), T. Rietfort, H. Jansen
Predicting the Pressure Drop of Structured Packings at Lowest Operating Pressures
AIChE Spring National Meeting, April 10-14, **2016**, Houston, TX, USA

Ž. Olujić (guest lecture)
Dividing Wall Column Technology – Advances and Challenges
Separations Research Program, The University of Texas at Austin, April 17, **2016**, Austin, TX, USA

Ž. Olujić (speaker), T. Hugen, T. Rietfort, H. Jansen, A. Garcia
Dividing Wall Column Technology Advances
eChemExpo, April 28 , **2016**, Kingsport, TN, USA

Ž. Olujić (speaker), Thomas Rietfort, Helmut Jansen, Igor Dejanović
Dividing Wall Column Technology - Recent Developments and Challenges
EFCE WP "FLUID SEPARATIONS" Annual Meeting, 12-13 May **2016**, Copenhagen, Denmark

Ž. Olujić (guest lecture)
Predicting Hydraulic and Mass Transfer Performance of Structured Packings
TU Braunschweig, 20 May **2016**, Braunschweig, Germany

Ž. Olujić (guest lecture)
Liquid Maldistribution Characteristics of Structured Packings
TU München, 23 May **2016**, Garching, Germany

R. Schulz, M. Fuhrmeister, T. Rietfort , H. Jansen, **Ž. Olujić** (speaker)
A method for design and rating of edible oil stripping columns
Jahrestreffen der ProcessNet-Fachausschüss "Fluidverfahrenstechnik", 9-10 März **2017**, Köln, Germany

I. Dejanović (speaker-poster), G. Lukač, H. Jansen, **Ž. Olujić**
Hydraulic Design of Four-Product Dividing Wall Columns – Technical challenges and solutions
25th Croatian Meeting of Chemists and Chemical Engineers, 19-22 April **2017**, Poreč, Croatia

Ž. Olujić (speaker), R. Schulz, M. Fuhrmeister, H. Jansen, T. Rietfort
Designing Edible Oil Stripping Columns

Invited lecture, Distillation Honors Session (Dr. T. Cai, Honoree), AIChE Annual Meeting, October 29-November 3, **2017**, Minneapolis, MN, USA

R. Schulz (speaker), T. Rietfort, M. Fuhrmeister, H. Jansen, **Ž. Olujić**
Experimental evidence on performance of an advanced gauze structured packing under deep vacuum distillation conditions
Jahrestreffen der ProcessNet-Fachausschüss "Fluidverfahrenstechnik", 26-28 February **2018**, München-Unterhaching, Germany

G. Lukač (speaker), I. Dejanović, I.J. Halvorsen, **Ž. Olujić**
On Controllability of Four-Product Dividing Wall Columns
Distillation & Absorption 2018, 11th International Conference on Distillation & Absorption, 16-19 September, **2018**, Florence, Italy

R. Schulz, T. Rietfort, H. Jansen, **Ž. Olujić** (speaker, poster)
Experimental Evidence on Performance of an Advanced Gauze Structured Packing under Deep Vacuum Distillation Conditions
Distillation & Absorption 2018, 11th International Conference on Distillation & Absorption, 16-19 September, **2018**, Florence, Italy

I.J. Halvorsen (speaker), I. Dejanović, **Ž. Olujić**, S. Skogestad
Dividing Wall Columns for Natural Gas Liquefaction Plants
Distillation & Absorption 2018, 11th International Conference on Distillation & Absorption, 16-19 September, **2018**, Florence, Italy

Ž. Olujić (invited lecture)
Corrugated Sheet Structured Packing: A distillation success story and a continuous object of study for academicians and practitioners
Workshop: Current Topics on Packed Columns, 2 April, **2019**, Liege, Belgium

G. Lukač, I.J. Halvorsen (speaker), **Ž. Olujić**, I. Dejanović
Practical control of a Four-Product Dividing Wall Column
22nd Nordic Process Control Workshop, 21-23 August, **2019**, Lyngby, Denmark.

Ž. Olujić
Plenary lecture
Reducing Process Industry Energy Demand & Carbon Dioxide Emissions through Distillation Technology Advances
XIII Meeting of Young Chemical Engineers
20-21 February, **2020**, Zagreb, Croatia

Ž. Olujić
Plenary lecture
Corrugated Sheet Structured Packings: A distillation success story
Jahrestreffen der ProcessNet-Fachguppen Fluidverfahrenstechnik, Adsorption und Extraktion, 26-28 February **2020**, Berchtesgaden, Germany

G. Lukač (speaker), **Ž. Olujić**, I. Dejanović
Dual condenser configuration of a four product dividing wall column
28th Croatian Meeting of Chemists and Chemical Engineers, March 2023, Rovinj, Croatia

Ž. Olujić
Reducing energy demand and carbon footprint of distillation columns
28th Croatian Meeting of Chemists and Chemical Engineers, March 2023, Rovinj, Croatia

Co-operations

Most of Žarko's academic output in form of presentations, publications and patents was generated throughout all these years in cooperative efforts with more than 150 colleagues/researchers from numerous academic institutions (23), research institutes (6) and process industry companies (17) listed below in alphabetic order.

University of Zagreb period (1971-1987)

Academic institutions
Faculty of Metallurgy, Sisak, Croatia
Faculty of Traffic Sciences, Zagreb, Croatia
University of Karlsruhe, Karlsruhe, Germany
University of Tuzla, Tuzla, Bosnia and Herzegovina

Process industry companies
INA-NAFTA, Lendava, Slovenia
INA-R&D, Zagreb, Croatia
PETROKEM, Zagreb, Croatia
PLIVA, Zagreb, Croatia
SAPONIA, Osijek, Croatia

Delft University of Technology (TUD) and postretirement period (1988 – 2023)

TU Delft
Thermodynamics
Catalysis Engineering Group
Laboratory of Aero and Hydrodynamics
Separation Processes Chair

Academic institutions
China University of Petroleum, Shandong Province, Qingdao, PR China (9 papers)
Hochschule Manheim, Manheim, Germany
Indian Institute of Technology, Delhi, India
Nagoya Institute of Technology, Nagoya, Japan
Norwegian University of Science and Technology (NTNU), Trondheim, Norway (12 papers)
Prague Institute of Chemical Technology (VSCHT), Prague, Czech Republic
Technical University of Berlin, Germany
University of Dortmund, Dortmund, Germany (1 book, 1 paper)
University of Liege, Liege, Belgium (6 papers)
UMIST, University of Manchester, Manchester, UK (4 papers)
University of Pisa, Pisa, Italy (2 papers)
University Rovira I Virgili, Tarragona, Spain (14 papers)
University of Texas at Austin, Separations Research Program, Austin, USA (10 papers)
University of Twente, Enschede, the Netherlands (3 papers)
University of Zagreb, Zagreb, Croatia (26 papers)

Research and Development institutions
Amalgamated Research Inc., Twin Falls, ID, USA
ECN, Petten, the Netherlands
Fluxion, Eindhoven, the Netherlands
Fractionation Research Inc., Stillwater, OK, USA
TNO-MEP, Apeldoorn, the Netherlands
SINTEF, Trondheim, Norway (14 papers)

Process industry companies and process equipment manufacturers
Air Products, Walton on Thames, UK
Akzo-Nobel R&D&I, Deventer, the Netherlands
BASF, Ludwigshafen, Germany (1 patent and 5 papers)
BAYER Technology Services, Leverkusen, Germany
Biotane Asia Pacific, Indonesia
CDS Engineering, Arnhem, the Netherlands (5 papers)
Degussa (presently Evonik), Marl, Germany
Julius Montz, Hilden, Germany*
Praxair, Tonawanda, NY, USA
Sastech R&D, Sasolburg, Republic of South Africa
Statoil R&D&I, Trondheim, Norway
Sulzer, Winterthur, Switzerland

***A** crucial career moment, i.e. origin of Žarko's strong devotion to distillation equipment related R&D of industrial relevance was in 1988 when J. Montz GmbH, a small but very well established and widely recognized process equipment manufacturer from Hilden in Germany, joined his first TU Delft large scale experimental project addressing liquid maldistribution in industrial scale columns. From this moment on JM unconditionally delivered equipment for numerous projects carried out thoughout a period of 20 years, including donation of main equipment for building a 0.45 m ID total reflux distillation column in Delft.

Many Žarko's TUD students have also had opportunity within the frame of their graduation projects to conduct elaborate packings and trays hydraulics related research studies arranged at JM laboratory in Hilden for R&D purposes or on request of industrial customers, including a revealing but unpublished tracer study proving that dividing wall columns (DWCs) can be build with an unwelded partition wall, which enabled BASF, the pioneer of DWC technology, to widen largely the field of utilisation of this most sustainable among distillation technology as alternative for conventuional two and/or three column sequences.

Most of the Žarko's research done in cooperation with JM is documented in joint publications and presentations: 1 patent, 18 papers in research journals, 14 papers in conference proceedings as well as more then 30 oral and poster presentations.

An important and for personal adopting of a high standard professional attitude crucial moment was a visit in 1970 to ACHEMA in Frankfurt, organised by Prof. Egon Bauman for members of engineering staff of Chemical and Petroleum Technology Department at Sisak. Since then Žarko regularly attended ACHEMA which is organized every three years (missed just two) and on a number of occasions gave well attended and accepted lectures discussing science behind new equipment developed at Julius Montz GmbH introduced on that occassion.