

LISTA PUBLICAȚIILOR

ARTICOLE IN REVISTE

- 141. Phase Equilibria of the Carbon Dioxide + 1-Decanol System at High Pressures**, Ioniță S., Feroiu, V., Geană, D., *J. Chem. Eng. Data*, 58 (11), 3069-3077, 2013.
- 140. Thermophysical Properties of Ethane from Cubic Equations of State**, Nour M., Dună D., Ioniță M., Feroiu, V., Geană, D., *Rev. Chim. (Bucharest)*, 64, (10), 1055-1061, 2013.
- 139. Thermodynamic Properties of Refrigerant R116 from Cubic Equations of State**, Dună D., Ioniță M., Feroiu, V., Geană, D., *Rev. Chim. (Bucharest)*, 64, (11), 1295-1300, 2013.
- 138. Thermophysical Properties of Methanol from Cubic Equations of State**, Feroiu, V., Sima S., Nour M., Geană, D., *Rev. Chim. (Bucharest)*, 63, (11), 1187-1192, 2012.
- 137. Vapour-Liquid Equilibrium and Thermodynamic Properties of Refrigerants R143a and R152a from Cubic Equations of State**, Feroiu, V., Geană, D., *Rev. Chim. (Bucharest)*, 63, (1), 1-6, 2012.
- 136. New high pressure vapor–liquid equilibrium data and density predictions for carbon dioxide + ethyl acetate system**, Sima S., Feroiu, V., Geană, D., *Fluid Phase Equilibria*, 325, 45–52, 2012.
- 135. Fluid-Phase Equilibria in the Binary System Trifluoromethane +1-Phenyltetradecane**, Bogatu, C., Geana, D., Duta, A., Poot, W., de Loos, Th. W., *Ind. Eng. Chem. Res.*, 50, 213–220, 2011.
- 134. Measurements and Modelling of High Pressure Phase Behavior of Carbon Dioxide + 1-Pentanol Binary System**, Secuianu, C., Feroiu, V., Geană, D., *J. Chem. Eng. Data*, 56 (12), 5000-5007, 2011, Festschrift K. Marsh.
- 133. New High Pressure Vapor-Liquid Equilibrium and Density Predictions for the Carbon Dioxide + Ethanol System**, Sima S., Feroiu, V., Geană, D., *J. Chem. Eng. Data*, 56, 5052–5059, 2011.
- 132. Properties of Pure Refrigerants And Refrigerant Mixtures From Cubic Equations Of State**, Feroiu, V., Geană, D., *Rev. Roum. Chim.*, 56(5), 517-525, 2011.
- 131. Fluid phase equilibria in the binary system trifluoromethane+1-phenyloctane**, Bogatu, C., Geana, D., Vilcu, R., Duta, A., Poot, W., de Loos, Th. W., *Fluid. Phase Equilibr.* (2010), 295, 186-193.
- 130. Phase Behavior for the Carbon Dioxide + N-Pentadecane Binary System**, Secuianu, C., Feroiu, V., Geană, D., *J. Chem. Eng. Data*, 55, 4255–4259, 2010.
- 129. High-pressure phase equilibria in the (carbon dioxide + 1-hexanol) system**, Secuianu, C., Feroiu, V., Geană, D., *J. Chem. Thermodynamics*, 42, 1286–1291, 2010.
- 128. Phase equilibria of carbon dioxide + 1-nonalol system at high pressures**, Secuianu, C., Feroiu, V., Geană, D., *J. of Supercritical Fluids*, 55, 653–661, 2010.

- 127. Modelling the Solubility of Solid Aromatic Compounds in Supercritical Fluids,** Feroiu, V., Partenie O., Geană, D., *Rev. Chim. (Bucharest)*, 61 Nr. 7 2010.
- 126. Solid-gas equilibrium in systems containing aromatic compounds and supercritical carbon dioxide,** Feroiu, V., Partenie O., Geană, D., *Rev. Roum. Chim.*, 55(7), 395-401, 2010.
- 125. Thermodynamic properties of some chloro-fluoro-hydrocarbons from cubic equations of state,** Feroiu, V., Geană D, Secuiianu C., , *U.P.B. Sci. Bull., Series B*, 72, 1, 37-47, 2010.
- 124. Phase Transitions and Thermal Behavior of Fuel-Diluent Mixtures,** Anitescu G., Tavlarides L. L., Geana D., *Energy & Fuels*, 23, 3068–3077, 2009.
- 123. Phase behavior for carbon dioxide + 2-butanol system: experimental measurements and modeling with cubic equations of state,** Secuiianu, C., Feroiu, V., Geană, D. *J. Chem. Eng. Data* 54 (5), 1493-1499, 2009 (FI 2008: 2.063).
- 122. Phase equilibria experiments and calculations for carbon dioxide + methanol binary system,** Secuiianu, C., Feroiu, V., Geană, D., *Central European J. Chemistry*, 7 (1), 1-7, 2009 (FI 2008: 0.741).
- 121. Phase equilibria calculations for carbon dioxide + methanol binary mixture with the Huron-Vidal infinite dilution (HVID) mixing rules,** Secuiianu, C., Feroiu, V., Geană, D., *Rev. Chim. (Bucharest)* 60 (5), 472-475, 2009 (FI 2008: 0.389).
- 120. Global phase behavior for carbon dioxide + ethanol system: experimental measurements and modeling with a cubic equation of state,** Secuiianu, C., Feroiu, V., Geană, D., *J. Supercritical Fluids*, (2008), 47 (2), 109-116.
- 119. High-Pressure Vapor-Liquid and Vapor-Liquid-Liquid Equilibria in the Carbon Dioxide + 1-Heptanol System,** Secuiianu, C., Feroiu, V., Geană, D., *Fluid. Phase Equilib.* (2008), 270, 109-115.
- 118. High-Pressure Phase Equilibria for the Carbon Dioxide + 1-Propanol System,** Secuiianu, C., Feroiu, V., Geană, D., *J. Chem. Eng. Data*, (2008), 53 (10), 2444-2448.
- 117. Solid-Gas Equilibrium in Systems containing Aromatic Compounds and Supercritical Carbon Dioxide,** Feroiu V., Geană D., Partenie O., *Rev. Chim. (Bucharest)*, (2008), 59 (12), 1335-1339. Journal written in English.
- 116. Properties of refrigerants from Cubic Equations of State,** V. Feroiu, D. Geană, C. Secuiianu, *Rev. Chim. (Bucharest)*, (2008), 59 (5), 554-557. Journal written in English.
- 115. High-Pressure Vapor-Liquid Equilibria of Carbon Dioxide + 1-Pentanol System: Experimental Measurements and Modeling,** Secuiianu, C., Feroiu, V., Geană, D., *Rev. Chim. (Bucharest)*, (2007), 58 (12), 1176-1181. Journal written in English.
- 114. Investigation of phase equilibria in the ternary system carbon dioxide + 1-heptanol + pentadecane,** Secuiianu, C., Feroiu, V., Geană, D., *Fluid. Phase Equilib.* (2007), 261 (1-2), 337-342 .
- 113. Prediction of phase equilibria in ternary system carbon dioxide + 1-heptanol + n-pentadecane,** Secuiianu, C., Feroiu, V., Geană, D. Eleventh International Conference on Properties and Phase Equilibria for Product and Process Design (PPEPPD-2007), Hersonissos, Crete, Greece, 20-25 mai 2007, Book of abstract p.147, Proceedings of conference (CD-ROM), p. 1-10.

- 112. High-Pressure Vapor-Liquid and Vapor-Liquid-Liquid Equilibria in the Carbon Dioxide + 1-Heptanol System.** C. Secuiaru, V. Feroiu, D. Geană, ESAT 2006- 22nd European Symposium on Applied Thermodynamics, 28 iunie-01 iulie 2006, Elsinore, Danemarca, pp. 199-202.
- 111. Book Review:M.L.Michelsen, J.M.Mollerup, Thermodynamic Models:Fundamentals & Computational Aspects,** Geană D., Fluid Phase Equilibria, (2006), 240, 227-228.
- 110. The tangent plane intercept: A new method in phase equilibrium calculations.** Crișciu A.; Geană, D. Proc. Rom. Acad., Ser. B: Chem., Life Sci. Geosci. (2005), 7(2-3), 85-91. CODEN: PRACFP ISSN: 1454-8267. Journal written in English.
- 109. Solubility of high molecular weight n-paraffins in supercritical carbon dioxide.** Feroiu V.; Geană, D. Proc. Rom. Acad., Ser. B: Chem., Life Sci. Geosci. (2005), 7(2-3), 79-83. CODEN: PRACFP ISSN: 1454-8267. Journal written in English.
- 108. A non-cubic hard-sphere perturbed equation of state for representing phase equilibria behavior of fluid mixtures.** Geană, D. Proc. Rom. Acad., Ser. B: Chem., Life Sci. Geosci. (2005), 7(1), 9-14. CODEN: PRACFP ISSN: 1454-8267. Journal written in English.
- 107. Vapor–liquid equilibrium prediction at high pressures using activity coefficients at infinite dilution from COSMO-type methods.** Constantinescu D; Klamt A; Geană D. Fluid Phase Equilibria (2005), 231, 231-238. CODEN: FPEQDT ISSN: 0378-3812. Journal written in English.
- 106. High-Pressure Vapor-Liquid Equilibria in the System Carbon Dioxide + 1-Butanol at Temperatures from (293.15 to 324.15) K.** Secuiaru C.; Feroiu V.; Geană D. J. Chem. Eng. Data (2004), 49, 1635-1638. ISSN: 0021-9568. Journal written in English.
- 105. A non-cubic hard-sphere perturbed equation of state for representing PVT and phase equilibria behavior of fluids.** Geană, D. Proc. Rom. Acad., Ser. B: Chem., Life Sci. Geosci. (2003), 5(1-2), 3-10. CODEN: PRACFP ISSN: 1454-8267. Journal written in English.
- 104. High-Pressure Vapor-Liquid Equilibria in the System Carbon Dioxide and 2-Propanol at Temperatures from 293.25 to 323.15 K.** Secuiaru C.; Feroiu V.; Geană D. J. Chem. Eng. Data (2003), 48, 1384-1386. ISSN: 0021-9568. Journal written in English.
- 103. Volumetric and thermodynamic properties for pure refrigerants and refrigerant mixtures from cubic equations of state.** Feroiu V.; Geană D. Fluid Phase Equilibria (2003), 207, 283-300. CODEN: FPEQDT ISSN: 0378-3812. Journal written in English.
- 102. Fluid Phase Equilibria of Binary n-Alkane+Squalane Systems.** Nanu D. E.; Poot W.; Geană D.; de Loos T. W. J. Chem. Eng. Data (2003), 48, 571-575. ISSN: 0021-9568. Journal written in English.
- 101. On the min-max formulation of multiphase chemical equilibrium problem and stability analysis.** Geană, D. Proc. Rom. Acad., Ser. B: Chem., Life Sci. Geosci. (2002), 4(2), 63-68. CODEN: PRACFP ISSN: 1454-8267. Journal written in English.
- 100. The parameters of some cubic equations of state in the n-alkanes series.** Duță A.; Geană D. Revue Roumaine de Chimie (2002), 47(3-4), 167-172. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 99. Vapor Liquid Equilibrium in Asymmetric Mixtures of n-Alkanes with Ethane.** Duță A.; Geană D. Turkish Journal of Chemistry (2002), 26, 481-489. ISSN: 1300-0527. Journal written in English.
- 98. High pressure vapor-liquid equilibria in the ternary system orange peel oil (limonene) - ethanol – carbon dioxide.** Drescher, M.; Seidel, O.; Geană, D. J. Supercrit. Fluids (2002), 23(2), 103-111.

CODEN: JSFLEH ISSN: 0896-8446. Journal written in English.

97. Thermodynamic properties of chlorine, nitrogen, oxygen and propylene using the GEOS3C equation of state. Geană D.; Feroiu V. Revue Roumaine de Chimie (2001), 46(9), 983-990. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

96. Prediction of VLE and VLLE in ternary systems water+alcohol+CO₂. Geană, D.; Steiner, R. Proc. Rom. Acad., Ser. B: Chem., Life Sci. Geosci. (2001), 3(4), 23-27. CODEN: PRACFP ISSN: 1454-8267. Journal written in English.

95. Vapor-liquid equilibrium in polar systems with acetone with a GE-EOS model based on UNIFAC activity coefficients at infinite dilution. Geana, D.; Feroiu, V. Departement of Applied Physical Chemistry and Electrochemistry, University "Politehnica" of Bucharest, Rom. Scientific Bulletin - University "Politehnica" of Bucharest, Series B: Chemistry and Materials Science (2000), 62(4), 21-29. CODEN: SBUPBD ISSN: 1454-2331. Journal written in English.

94. Infinite dilution activity coefficients in alcohol - n-alkane mixtures from unifac group contribution method. Feroiu, V.; Geana, D. Department of Applied Physical Chemistry and Electrochemistry, University "Politehnica" of Bucharest, Rom. Scientific Bulletin - University "Politehnica" of Bucharest, Series B: Chemistry and Materials Science (2000), 62(3), 3-13. CODEN: SBUPBD ISSN: 1454-2331. Journal written in English.

93. Vapor-liquid equilibrium in hydrocarbon mixtures with a GE-EOS mixing rule using UNIFAC activity coefficients at infinite dilution. Geana, Dan; Feroiu, Viorel. Dept. of Applied Physical Chemistry, University "Politehnica" Bucharest, Bucharest, Rom. Science and Technology of Environmental Protection (2000), 7(1), 29-37. CODEN: STEPFT ISSN: 1221-6909. Journal written in English.

92. Vapor-liquid equilibrium and thermodynamic properties of refrigerants R21 and R152A from cubic equations of state. Feroiu, Viorel; Geana, Dan. Department of Applied Physical Chemistry and Electrochemistry, "Politehnica" University Bucharest, Bucharest, Rom. Science and Technology of Environmental Protection (2000), 7(2), 11-20. CODEN: STEPFT ISSN: 1221-6909. Journal written in English.

91. Thermodynamic properties of pure fluids using the GEOS3C equation of state. Geana, Dan; Feroiu, Viorel. Department of Applied Physical Chemistry and Electrochemistry, University "Politehnica" Bucharest, Bucharest, Rom. Fluid Phase Equilibria (2000), 174(1-2), 51-68. CODEN: FPEQDT ISSN: 0378-3812. Journal written in English.

90. Prediction of vapor-liquid equilibria in symmetric polar systems with GE-EOS mixing rules based on UNIFAC. Geana, Dan; Feroiu, Viorel. Dept. of Applied Physical Chemistry, "Politehnica" University, Bucharest, Rom. Revue Roumaine de Chimie (2000), Volume Date 1999, 44(10), 941-948. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

89. Thermodynamic properties for pure fluids from cubic equations of state. Geana, Dan; Feroiu, Viorel; Bjola, Bogdan. Department of Applied Physical Chemistry and Electrochemistry, "Politehnica" University Bucharest, Bucharest, Rom. Proc. Rom. Acad., Ser. B: Chem., Life Sci. Geosci. (1999), 1(1), 23-27. CODEN: PRACFP ISSN: 1454-8267. Journal written in English.

88. A thermodynamic analysis of hydrogen production by steam reforming of ethanol via response reactions. Fishtik, I.; Alexander, A.; Datta, R.; Geana, D. Department of Chemical and Biochemical Engineering, The University of Iowa, Iowa City, IA, USA. Int. J. Hydrogen Energy (1999), Volume Date 2000, 25(1), 31-45. CODEN: IJHEDX ISSN: 0360-3199. Journal written in English

87. Vapor-liquid equilibria modelation in mixtures of n-alkanes with CO₂. Dută, A.; Nanu, D.; Geana, D. Chemistry Dept., Transilvania University of Brasov, Rom. Bull. Transilvania Univ. Brasov,

Ser. B (1997), 4 73-78. CODEN: BTBSF6 ISSN: 1223-964X. Journal written in English.

86. Solid-liquid-gas equilibrium by cubic equations of state and association. Geana, D.; Wenzel, H. Institut fur Technische Chemie II, University Erlangen-Nurnberg, Erlangen, Germany. J. Supercrit. Fluids (1999), 15(2), 97-108. CODEN: JSFLEH ISSN: 0896-8446. Journal written in English.

85. Transport properties calculation for pure fluids and mixtures based on densities from cubic equations of state. Feroiu, Viorel; Bjola, Bogdan; Geana, Dan. Department of Applied Physical Chemistry, "Politehnica" University Bucharest, Bucharest, Rom. Rev. Roum. Chim. (1998), 43(5), 461-467. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

84. Vapor-liquid equilibria in binary systems of n-alkanes with dimensional asymmetry. Duta, Anca; Georgescu, Diana; Geana, Dan. Fac. Stiinta Ingineria Materialelor, Univ. Transilvania, Rom. Rev. Chim. (Bucharest) (1998), 49(6), 418-422. CODEN: RCBUAU ISSN: 0034-7752. Journal written in Romanian.

83. Static vapor-liquid equilibrium measurements for the ternary system water + N,N-dimethylformamide + 1,4-dioxane at temperatures from 292 K to 358 K. Hamplea, L.; Iulian, O.; Geana, D. Department of Applied Physical Chemistry, University "Politehnica" Bucharest, Bucharest, Rom. ELDATA: Int. Electron. J. Phys.-Chem. Data (1997), 3(3), 159-166. CODEN: EIEDEX ISSN: 1265-1532. Journal written in English.

82. Prediction of vapor-liquid equilibria at high pressures using mixing rules based on excess Gibbs energy models. Feroiu, Viorel; Geana, Dan. Dep. Applied Physical Chemistry, "Politehnica" Univ. Bucharest, Bucharest, Rom. Rev. Roum. Chim. (1997), 42(9), 863-871. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

81. Prediction of Vapor-Liquid Equilibria at Low and High Pressures from UNIFAC Activity Coefficients at Infinite Dilution. Geana, Dan; Feroiu, Viorel. Department of Applied Physical Chemistry, University Politehnica Bucharest, Bucharest, Rom. Ind. Eng. Chem. Res. (1998), 37(3), 1173-1180. CODEN: IECRED ISSN: 0888-5885. Journal written in English.

80. First derivatives in the thermodynamics of multiple equilibrium systems in terms of response reactions. Fishtik, I.; Gutman, I.; Nagypal, I.; Geana, D. Institute Chemistry, Academy Sciences Moldova, Chisinau, Moldova. Z. Phys. Chem. (Munich) (1998), 204(1/2), 213-234. CODEN: ZPCFAX ISSN: 0044-3336. Journal written in English.

79. Joule-Thomson coefficient in systems with multiple chemical equilibria. Fishtik, Ilie; Geana, Dan; Gutman, Ivan; Nagypal, Istvan. Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Moldova. J. Math. Chem. (1997), Volume Date 1996, 20(3,4), 365-384. CODEN: JMCHEG ISSN: 0259-9791. Journal written in English.

78. Sensitivity analysis of complex chemical equilibria in heterogeneous systems. Fishtik, Ilie; Geana, Dan. Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Moldova. Ber. Bunsen-Ges. (1997), 101(2), 200-208. CODEN: BBPCAX ISSN: 0940-483X. Journal written in English.

77. Prediction of vapor-liquid equilibria at high pressures using activity coefficients at infinite dilution. Feroiu, Viorel; Geana, Dan. Dep. Applied Phys. Chem., Univ. Polytech. Bucharest, Bucharest, Rom. Fluid Phase Equilib. (1996), 120(1-2), 1-10. CODEN: FPEQDT ISSN: 0378-3812. Journal written in English.

76. Cubic equations of state applied in the study of binary systems containing n-alkanes. Duta, Anca; Geana, Dan. Univ. "Transilvania", Facultatea Chimie, Brasov, Rom. Rev. Chim. (Bucharest) (1996), 47(4), 332-342. CODEN: RCBUAU ISSN: 0034-7752. Journal written in Romanian.

- 75. The reduction of sulfur dioxide to elemental sulfur. Part I. Equilibrium composition of CO-SO₂ system.** Pincovschi, Eugen; Salcianu, Eugen; Geana, Dan. Faculty of Industrial Chemistry, Polytechnic University Bucharest, Bucharest, Rom. Sci. Technol. Environ. Prot. (1994), Volume Date 1994, 1(1), 18-25. CODEN: STEPFT ISSN: 1221-6909. Journal written in English.
- 74. Cubic equations of state in estimation of transport properties for pure fluids. Comparative study.** Feroiu, Viorel; Bjola, Bogdan; Geana, Dan. Fac. Chimie Industriala, Univ. Politehnica Bucuresti, Bucharest, Rom. Rev. Chim. (Bucharest) (1995), 46(9), 822-9. CODEN: RCBUAU ISSN: 0034-7752. Journal written in Romanian.
- 73. Calculation of phase equilibrium in supercritical extraction of C54 triglyceride (rapeseed oil).** Geana, Dan; Steiner, Rudolf. Department Applied Physical Chemistry, University Polytechnica Bucharest, Bucharest, Rom. J. Supercrit. Fluids (1995), 8(2), 107-18. CODEN: JSFLEH ISSN: 0896-8446. Journal written in English
- 72. Calculation of liquid-liquid phase diagrams of polymer-solvent-nonsolvent systems.** Bjola, Bogdan; Geana, Dan. Fac. Chim. Ind., Univ. Politehnica Bucuresti, Bucharest, Rom. Rev. Chim. (Bucharest) (1995), 46(5), 430-5. CODEN: RCBUAU ISSN: 0034-7752. Journal written in Romanian.
- 71. Calculation of VLE for semicontinuous mixtures by a general cubic equation of state.** Geana, Dan; Feroiu, Viorel. Dept. Applied Physical Chem., Polyhechnica Univ., Bucharest, Rom. Rev. Roum. Chim. (1994), 39(11), 1375-87. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 70. Method of equations of state applied to the study of high-pressure binary systems.** Feroiu, Viorel; Geana, Dan. Facultatea Chimie Industriala, Universitatea Politehnica Bucuresti, Rom. Rev. Chim. (Bucharest) (1994), 45(8), 735-41. CODEN: RCBUAU Journal written in Romanian.
- 69. The study of the vapor-liquid equilibria in the system dimethyl sulfoxide-water. II. Correlation data.** Julian, Olga; Landauer, Ortansa; Geana, Dan; Mateescu, Cornelia. Dep. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1992), 37(8), 869-74. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 68. The study of the vapor-liquid equilibria in the dioxane-dimethyl sulfoxide system. I. Experimental data.** Julian, Olga; Landauer, Ortansa; Geana, Dan. Dep. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1992), 37(5), 525-30. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 67. Vapor-liquid equilibrium in dioxane-dimethyl sulfoxide mixture. II. Data correlation.** Julian, Olga; Landauer, Ortansa; Mateescu, Cornelia; Geana, Dan. Dep. Appl. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1992), 37(9), 967-71. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 66. Calculation of Joule-Thomson inversion curves from a general cubic equation of state.** Geana, Dan; Feroiu, Viorel. Dep. Appl. Phys. Chem., Polytech. Inst., Bucharest, Rom. Fluid Phase Equilib. (1992), 77 121-32. CODEN: FPEQDT ISSN: 0378-3812. Journal written in English.
- 65. Method and calculation program of the transport properties of pure fluids and fluid mixtures.** Geana, Dan; Feroiu, Viorel. Fac. Chim. Ind., Inst. Politeh. Bucuresti, Bucharest, Rom. Rev. Chim. (Bucharest) (1990), 41(11-12), 872-6. CODEN: RCBUAU Journal written in Romanian.
- 64. Chemical equilibrium of metal melts and solutions.** Popescu, T.; Bejan, F.; Geana, D. ICEM, Rom. Cercet. Metal. (1989), 30 345-8. CODEN: CERMB4 ISSN: 0524-8140. Journal written in Romanian.
- 63. Computation of the Joule-Thomson inversion curve with a cubic equation of state.** Feroiu,

Viorel; Geana, Dan. Inst. Politeh. Bucuresti, Fac. Technol. Chim., Bucharest, Rom. Rev. Chim. (Bucharest) (1989), 40(11), 865-9. CODEN: RCBUAU Journal written in Romanian.

62. Computation of vapor-liquid equilibrium in nitrogen + carbon dioxide + methane system by a general cubic equation of state. Feroiu, Viorel; Geana, Dan. Dep. Phys. Chem., TSCO, Polytech. Inst., Bucharest, Rom. Fluid Phase Equilib. (1990), 55(3), 263-70. CODEN: FPEQDT ISSN: 0378-3812. Journal written in English.

61. The study of the vapor-liquid equilibria in the system dimethyl sulfoxide-water. I. Experimental data. Landauer, Ortansa; Iulian, Olga; Mateescu, Cornelia; Geana, Dan. Dep. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1989), 34(7), 1529-34. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

60. Calculation of thermodynamic properties of fluids by using a general cubic equation of state. Geana, Dan; Tanasescu, Radu. Fac. Tehnol. Chim., Inst. Politeh., Bucharest, Rom. Rev. Chim. (Bucharest) (1989), 40(8), 682-8. CODEN: RCBUAU Journal written in Romanian.

59. Prediction of vapor-liquid equilibria at low pressure by a general equation of state. Feroiu, Viorel; Geana, Dan. Dep. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1989), 34(6), 1329-39. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

58. The study of the vapor-liquid equilibrium in the dioxane-water system. Iulian, Olga; Landauer, Ortansa; Geana, Dan; Mateescu, Cornelia. Dep. Phys. Chem., TSCO, Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1989), 34(5), 1209-16. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

57. Calculation of liquid-vapor equilibrium in the ethanol-hexane system by using the general cubic equation of state. Feroiu, Viorel; Geana, Dan; Landauer, Ortansa. Fac. Tehnol. Chim., Inst. Politeh., Bucuresti, Rom. Rev. Chim. (Bucharest) (1989), 40(1), 26-31. CODEN: RCBUAU Journal written in Romanian.

56. Model for the viscosity of liquid mixtures. Geana, Dan. Inst. Politeh., Bucuresti, Rom. Rev. Chim. (Bucharest) (1988), 39(1), 78. CODEN: RCBUAU Journal written in Romanian.

55. Experimental determination of liquid-vapor equilibrium curves and correlation by different activity models for the cyclohexane-chlorocyclohexane and cyclohexane-water systems. Landauer, Ortansa; Mateescu, Cornelia; Iulian, Olga; Geana, Dan. Inst. Polytech., Bucuresti, Rom. Rev. Roum. Chim. (1988), 33(3), 237-51. CODEN: RRCHAX ISSN: 0035-3930. Journal written in French.

54. Calculation of liquid-vapor equilibriums in multicomponent systems by a general cubical equation of state. Feroiu, Viorel; Geana, Dan; Landauer, Ortansa. Inst. Politeh., Fac. Tehnol. Chim., Bucharest, Rom. Rev. Chim. (Bucharest) (1988), 39(4), 315-21. CODEN: RCBUAU Journal written in Romanian.

53. Models for the viscosity of liquid mixtures. Application to the binary system water-dioxane. Landauer, Ortansa; Mateescu, Cornelia; Iulian, Olga; Geana, D. Dep. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1987), 32(11-12), 1129-39. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

52. Effect of the association and solvation parameters on the calculation of the second virial coefficient. Landauer, Ortansa; Danciu, Tiberiu; Geana, Dan. Inst. Politeh., Fac. Tehnol. Chim., Bucharest, Rom. Rev. Chim. (Bucharest) (1988), 39(3), 213-18. CODEN: RCBUAU Journal written in Romanian.

51. Calculation of saturation pressure and of orthobaric densities by a general cubic equation of state. Geana, Dan; Feroiu, Viorel; Landauer, Ortansa. Fac. Tehnol. Chim., Inst. Politeh., Bucharest,

Rom. Rev. Chim. (Bucharest) (1987), 38(10), 887-92. CODEN: RCBUAU Journal written in Romanian.

50. New state equation for fluids. III. Generalization of the cubic equations of state of the van der Waals type. Geana, Dan. Fac. Tehnol. Chim., Inst. Politeh. Bucuresti, Bucharest, Rom. Rev. Chim. (Bucharest) (1987), 38(11), 975-9. CODEN: RCBUAU Journal written in Romanian.

49Computation of saturation pressure and orthobaric densities by a general cubic equation of state. Geana, Dan; Feroiu, Viorel; Landauer, Ortansa. Dep. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1987), 32(9-10), 863-75. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

48. Transformations by geometrical programming of the problem of chemical and/or phase equilibrium. I. Theory. Geana, Dan. Inst. Politech., Fac. Tehnol. Chim., Bucharest, Rom. Rev. Chim. (Bucharest) (1987), 38(12), 1080-7. CODEN: RCBUAU Journal written in Romanian.

47. The explosive combustion of propylene. IV. The maximum explosion pressure in adiabatic and nonadiabatic constant volume combustion. Popescu, D.; Albu, B.; Oancea, D.; Ionescu, N. I.; Gosa, V.; Geana, D. Cent. Phys. Chem., Bucharest, Rom. Rev. Roum. Chim. (1987), 32(4), 359-67. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

46. Chemical equilibrium in the chemical processes of sulfur dioxide reduction. II. Reduction of sulfur dioxide with carbon monoxide. Pincovschi, Eugen; Salcianu, Eugen; Geana, Dan. Inst. Politech., Fac. Tehnol. Chim., Bucuresti, Rom. Rev. Chim. (Bucharest) (1987), 38(2), 113-19. CODEN: RCBUAU Journal written in Romanian.

45. New fluid state equation. II. Application to the phase equilibrium calculation. Geana, Dan. Fac. Technol. Chim., Inst. Politeh., Bucharest, Rom. Rev. Chim. (Bucharest) (1986), 37(11), 951-9. CODEN: RCBUAU Journal written in Romanian.

44. New equation of state for fluids. I. Application to PVT calculations for pure fluids. Geana, Dan. Fac. Tehnol. Chim., Inst. Politeh. Bucuresti, Bucharest, Rom. Rev. Chim. (Bucharest) (1986), 37(5), 303-9. CODEN: RCBUAU Journal written in Romanian.

43. Computation of the adiabatic combustion pressure and temperature of hydrogen cyanide in air at a constant volume. Popescu, Domnina; Oancea, Dumitru; Geana, Dan; Albu, Bujor. Cent. Chim. Fiz., ICECHIM-Bucuresti, Bucharest, Rom. Rev. Chim. (Bucharest) (1986), 37(4), 304-7. CODEN: RCBUAU Journal written in Romanian.

42. Effect of free standard enthalpies errors of forming on the chemical equilibrium composition. Landauer, Ortansa; Geana, Dan; Iulian, Olga. Inst. Politech., Fac. Tehnol. Chim., Bucharest, Rom. Rev. Chim. (Bucharest) (1985), 36(12), 1154-5. CODEN: RCBUAU Journal written in Romanian.

41. Calculation of temperature and equilibrium composition in adiabatic combustion. Geana, Dan; Popescu, Domnina; Mihai, Mihaela; Adomnica, Liviu. Inst. Politech. Bucuresti, Fac. Utilaje Ing. Proceselor Chim., Bucharest, Rom. Rev. Chim. (Bucharest) (1985), 36(8), 708-14. CODEN: RCBUAU Journal written in Romanian.

40. Calculation of phase diagrams of molten salt mixtures from electromotive force measurements. Sternberg, S.; Geana, D. Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1984), 29(11-12), 843-55. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

39. Chemical stoichiometry in the formalism of the projection operator. Geana, Dan. Fac. Util. Ing. Proc. Chim., Inst. Politeh. Bucuresti, Bucharest, Rom. Rev. Chim. (Bucharest) (1984), 35(10), 915-21. CODEN: RCBUAU Journal written in Romanian.

- 38. A min-max formulation of the problem of phase equilibrium in chemical reacting systems.** Geana, D. Dep. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1984), 29(5), 395-405. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 37. Chemical equilibrium in sulfur dioxide reduction. I. Reduction of sulfur dioxide with hydrogen.** Salcianu, Eugen; Geana, Dan; Pincovschi, Eugen. Fac. Tehnol. Chim., Inst. Politeh. Bucuresti, Bucharest, Rom. Rev. Chim. (Bucharest) (1984), 35(3), 226-32. CODEN: RCBUAU Journal written in Romanian.
- 36. Computer calculated F-P diagram for the barium titanate(IV)-lead titanate ($PbTiO_3$) system.** Barbulescu, Eva; Barb, D.; Barbulescu, A.; Geana, D. Cent. Phys. Chem., ICECHIM, Bucharest, Rom. Phys. Status Solidi A (1983), 80(2), 431-7. CODEN: PSSABA ISSN: 0031-8965. Journal written in English.
- 35. Application of Kuhn-Tucker conditions to the problem of chemical and phase equilibrium.** Geana, D.; Danes, E. Dep. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1982), 27(9-10), 1009-23. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 34. Matrix calculus method for the standard thermodynamic functions in multicomponent systems.** Geana, Dan; Salcianu, Eugen; Pincovschi, Eugen. Fac. Tehnol. Chim., Inst. Politeh., Bucharest, Rom. Rev. Chim. (Bucharest) (1982), 33(7), 619-24. CODEN: RCBUAU Journal written in Romanian.
- 33. An analysis of the effect of input data changes on the chemical equilibrium composition.** Geana, D.; Danes, F. Dep. Phys. Chem., Polytechnic, Bucharest, Rom. Rev. Roum. Chim. (1981), 26(11-12), 1365-76. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 32. Kinetics of electrochemical consecutive reactions involving Langmuir adsorption of two intermediates.** El Miligy, A. A.; Geana, D.; Lorenz, W. J. Natl. Cent. Radiat. Res. Technol., At. Energy Establ., Cairo, Egypt. Egypt. J. Chem. (1981), Volume Date 1980, 23(6), 405-16. CODEN: EGJCA3 ISSN: 0367-0422. Journal written in English.
- 31. The effect of changes in chemical potentials on the equilibrium of a gaseous reaction system. I. Equilibrium composition shift from changes in the free enthalpies of formation.** Danes, Florin Emilian; Geana, Dan. Rom. Bul. Inst. Politeh. "Gheorghe Gheorghiu-Dej" Bucuresti, Ser. Chim.-Metal. (1981), 43(2), 59-68. CODEN: BPGCDL ISSN: 0378-9616. Journal written in English.
- 30. Computation of chemical equilibrium of methanol synthesis using state equations of gases at high pressure.** Danes, Florin-Emilian; Geana, Dan. INC, Inst. Polytech. Bucarest, Bucharest, Rom. Rev. Roum. Chim. (1981), 26(7), 947-54. CODEN: RRCHAX ISSN: 0035-3930. Journal written in French.
- 29. Application of geometric programming to the calculation of chemical and phase equilibrium.** Geana, Dan. Inst. Politeh. Bucuresti, Fac. Utilaj Ing. Proceselor Chim., Bucharest, Rom. Rev. Chim. (Bucharest) (1981), 32(3), 293-4. CODEN: RCBUAU Journal written in Romanian.
- 28. Correlation of binary liquid-vapor equilibria. I. Wilson model.** Geana, Dan. Fac. Util. Ing. Proceselor Chim., Inst. Politeh., Bucharest, Rom. Rev. Chim. (Bucharest) (1981), 32(4), 337-43. CODEN: RCBUAU Journal written in Romanian.
- 27. On the problem of phase equilibrium in chemical reaction systems.** Geana, D. Dep. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1981), 26(3), 363-76. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 26. Chemical equilibrium in multicomponent reaction systems.** Geana, D. Dep. Phys. Chem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1981), 26(1), 43-53. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.

- 25. Study of phase equilibrium in multicomponent systems based on geometric programming.** Geana, Dan. Inst. Politeh., Bucharest, Rom. Rev. Chim. (Bucharest) (1980), 31(5), 491-2. CODEN: RCBUAU Journal written in Romanian.
- 24. General equation of gas state amenable to computer calculation process.** Danes, F.; Geana, D. Inst. Politeh. "Gheorghe Gheorghiu-Dej", Bucharest, Rom. Bul. Inst. Politeh. "Gheorghe Gheorghiu-Dej" Bucuresti, Ser. Chim.-Metal. (1979), 41(4), 67-76. CODEN: BPGCDL ISSN: 0378-9616. Journal written in French.
- 23. On the theory of consecutive charge-transfer mechanism involving adsorption of an intermediate.** Geana, D. Dep. Phys. Chem. Electrochem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1979), 24(4), 543-54. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 22. The calculation of phase diagrams of molten salt mixtures from electromotive force measurements.** Sternberg, S.; Geana, D. Dep. Phys. Chem. Electrochem., Polytech. Inst., Bucharest, Rom. Ext. Abstr., Meet. - Int. Soc. Electrochem. (1979), 30th 233-5. CODEN: EAMEDJ Journal written in English.
- 21. Application of Redlich-Kister and Wilson equations to molten silver iodide-alkali iodide mixtures.** Sternberg, S.; Geana, D. Dep. Phys. Chem. Electrochem., Natl. Inst. Chem., Bucharest, Rom. Rev. Roum. Chim. (1979), 24(7), 1083-7. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 20. Corrosion resistance of copper in sea water.** Landauer, Ortansa; Mateescu, Cornelia; Geana, D.; Iulian, Olga. Inst. Politeh. "Gheorghe Gheorghiu-Dej", Bucharest, Rom. Bul. Inst. Politeh. "Gheorghe Gheorghiu-Dej" Bucuresti, Ser. Chim.-Metal. (1978), 40(4), 41-53. CODEN: BPGCDL ISSN: 0378-9616. Journal written in Romanian.
- 19. Potentiostatic study of halogen-active carbon electrode in fused salts.** Sternberg, S.; Galasiu, I.; Geana, D. Dep. Phys. Chem. Electrochem., Polytech. Inst., Bucharest, Rom. Electrochim. Acta (1979), 24(2), 115-19. CODEN: ELCAAV ISSN: 0013-4686. Journal written in English.
- 18. The computation of multicomponent chemical equilibria in gases.** Geana, D.; Danes, F. Inst. Politeh. "Gheorghe Gheorghiu-Dej", Bucharest, Rom. Bul. Inst. Politeh. "Gheorghe Gheorghiu-Dej" Bucuresti, Ser. Chim.-Metal. (1978), 40(3), 31-40. CODEN: BPGCDL ISSN: 0378-9616. Journal written in English.
- 17. Calculation of equilibrium composition in gaseous systems with simultaneous chemical reactions at high pressures.** Danes, Florin E.; Geana, Dan. Rom. Rev. Chim. (Bucharest) (1979), 30(3), 244-8. CODEN: RCBUAU Journal written in Romanian.
- 16. Application of Redlich-Kister equation to molten silver chloride-alkali chloride solutions.** Sternberg, S.; Geana, D. Dep. Phys. Chem. Electrochem., Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1979), 24(2), 279-84. CODEN: RRCHAX ISSN: 0035-3930. Journal written in English.
- 15. Calculation of multicomponent chemical equilibria in heterogeneous systems with pure condensed phases.** Geana, Dan. Rom. Rev. Chim. (Bucharest) (1978), 29(12), 1171-7. CODEN: RCBUAU Journal written in Romanian.
- 14. Calculation of kinetic parameters in the electrochemical system copper/(copper sulfate + sulfuric acid).** Geana, D.; Iulian, Olga; Mateescu, Cornelia; Landauer, Ortansa. Rom. Bul. Inst. Politeh. "Gheorghe Gheorghiu-Dej" Bucuresti, Ser. Chim.-Metal. (1978), 40(1), 29-36. CODEN: BPGCDL Journal written in Romanian.
- 13. Calculation of multicomponent chemical equilibria by an optimizing method.** Geana, Dan; Popescu, Dumitru. Rom. Rev. Chim. (Bucharest) (1978), 29(5), 433-6. CODEN: RCBUAU Journal written in Romanian.

12. Corrosion resistance in sea water for W2A and W4A steels. Landauer, Ortansa; Mateescu, Cornelia; Geana, D.; Iulian, Olga. Catedra Chim. Fiz. Tehnol. Electrochim., Inst. Politeh., "Gheorghe Gheorghiu-Dej", Bucharest, Rom. Bul. Inst. Politeh. "Gheorghe Gheorghiu-Dej" Bucuresti, Ser. Chim.-Metal. (1977), 39(3), 39-46. CODEN: BPGCDL Journal written in Romanian.

11. A matrix method for the computation of standard free formation enthalpies in multicomponent reaction systems. Geana, Dan. Rom. Rev. Chim. (Bucharest) (1977), 28(11), 1058-61. CODEN: RCBUAU Journal written in Romanian.

10. Voltammetric and chronopotentiometric study of silver ion in molten potassium nitrate. Visan, T.; Geana, D. P.; Sternberg, S. Dep. Phys. Chem. Electrochem. Technol., Politech. Inst. Bucharest, Bucharest, Rom. Rev. Roum. Chim. (1976), 21(8), 1153-60. CODEN: RRCHAX Journal written in English.

9. Theoretical treatment of the kinetics of iron dissolution and passivation. El Miligy, A. A.; Geana, D.; Lorenz, W. J. Inst. Phys. Chem. Electrochem., Univ. Karlsruhe, Karlsruhe, Ger. Electrochim. Acta (1975), 20(4), 273-81. CODEN: ELCAAV Journal written in English. CAN 83:67586 AN 1975:467586 CAPLUS (Copyright 2002 ACS)

8. Electrochemical behavior of iron in alkaline sulfate solutions. Geana, D.; El Miligy, A. A.; Lorenz, W. J. Inst. Phys. Chem. Electrochem., Univ. Karlsruhe, Karlsruhe, Ger. J. Appl. Electrochem. (1974), 4(4), 337-45. CODEN: JAELBJ Journal written in English.

7. Galvanostatic and potentiostatic measurements on iron dissolution in the range between active and passive state. Geana, D.; El Miligy, A. A.; Lorenz, W. J. Inst. Phys. Chem. Electrochem., Univ. Karlsruhe, Karlsruhe, Ger. Corros. Sci. (1974), 14(11-12), 657-63.

6. Voltammetry with linear voltage variation, applied to the study of electrochemical reactions. Raducanu, I. C.; Geana, D. Inst. Politeh. Bucuresti, Bucharest, Rom. Stud. Cercet. Chim. (1974), 22(5), 573-600. CODEN: SCECA2 Journal; General Review written in Romanian.

5. Anodic solution of pure iron in the range between active and passive behavior. Geana, D.; El Miligy, A. A.; Lorenz, W. J. Inst. Phys. Chem. Elektrochem., Univ. Karlsruhe, Karlsruhe, Ger. Corros. Sci. (1973), 13(7), 505-20. CODEN: CRRSAA Journal written in German.

4. Electrochemical oxidation of oxalic acid. Atanasiu, I. A.; Geana, D. Rom. Rev. Chim. (Bucharest) (1971), 22(9), 513-17. CODEN: RCBUAU Journal written in Romanian.

3. Kinetics of consecutive electrochemical reactions involving the adsorption of an intermediate. Geana, D.; Raducanu, I. C. Polytech. Inst., Bucharest, Rom. Rev. Roum. Chim. (1971), 16(11), 1689-701. CODEN: RRCHAX Journal written in English.

2. Formation of metallic deposits on plastic supports. Blum-Lazar, L.; Geana, D. Rom. Rev. Chim. (Bucharest) (1971), 22(10), 606-9. CODEN: RCBUAU Journal; General Review written in Romanian.

1. Galvanostatic and potentiostatic methods used in the study of electrochemical reactions. Atanasiu, I. A.; Raducanu, I. C.; Geana, D. Inst. Politeh. Bucuresti, Bucharest, Rom. Stud. Cercet. Chim. (1971), 19(6), 715-27. CODEN: SCECA2 Journal; General Review written in Romanian.

CĂRȚI

11. Geană, D., Termodinamica Chimică. Teoria Echilibrului chimic și de faze. Editura Politehnica Press, Bucuresti, 2008 (ediția a 2-a).

- 10.** Geană, D., **Termodinamica Chimică. Teoria Echilibrului chimic și de faze.** Editura Politehnica Press, Bucuresti, 2003.
- 9.** Geană, D., Feroiu, V. **Proprietăți fizico-chimice ale amestecurilor de fluide. Exemple de calcul.** Litografia Univ. Politehnica, Bucuresti, 2001.
- 8.** Feroiu, V., Geană, D., **Proprietăți fizico-chimice ale fluidelor pure. Exemple de calcul.** Litografia Univ. Politehnica, Bucuresti, 2001.
- 7.** Geană, D., Feroiu, **Ecuații de stare. Aplicații la echilibre de faze.** Ed. Tehnică, București, 2000.
- 6.** Geană, D., Feroiu, V. **Proprietăți fizico-chimice ale fluidelor.** Litografia Univ. Politehnica, Bucuresti, 1996.
- 5.** Geană, D., Chimie Fizică. **Termodinamică Chimică cu aplicații la echilibre între faze și chimice.** Litografia Univ. Politehnica, Bucuresti, 1988.
- 4.** Landauer, O., Geană, D., Iulian, O., **Probleme de chimie fizică**, ed. II, Ed. Didactică, București, 1982.
- 3.** Sternberg, S., Landauer, O., Mateescu, C., Geană, D., Vișan, T., **Chimie Fizică**, Ed. Didactică, București, 1981.
- 2.** Landauer, O., Geană, D., Iulian, O., **Probleme de chimie fizică**, ed. I, Ed. Didactică, București, 1978.
- 1.** Landauer, O., Geană, D., Iulian, O., **Probleme de chimie fizică**, Litografia Univ. Politehnica, Bucuresti, 1975.

LUCRĂRI PREZENTATE LA CONFERINȚE DE SPECIALITATE (selecție)

- Secuijanu, C. and Geană, D. “**Vapor-Liquid Equilibria Calculation in Binary Mixtures of Carbon Dioxide with n-Alkanes**” in 12th Romanian International Conference on Chemistry and Chemical Engineering RICCCE 12, Bucharest, Romania, September 13-15, 2001, pp. 91-96 (poster), ISBN 973-652-382-9.
- Secuijanu, C., Feroiu, V., Geană, D. “**Measurements of Vapor-Liquid Equilibria for Carbon Dioxide + 1-Butanol System Using a Variable-Volume Visual Cell**” in 13th Romanian International Conference on Chemistry and Chemical Engineering RICCCE 13, Volume 2, Bucharest, Romania, September 2003, pp. 104-109 (Oral communication), ISBN 973-652-824-3.
- Secuijanu, C., Feroiu, V., Geană, D. “**High-Pressure Vapor-Liquid Equilibria in the System Carbon Dioxide + 2-Butanol at Temperatures from 298.15 K to 318.15 K**” in “**BRAMAT 2005**” Proceedings International Conference on Materials Science and Engineering, Brașov – România, 24-26 February 2005, P5A15, CD (8 pag.), ISBN 973-635-454-7 (Book of Abstracts, pp. 281, ISBN 937-635-454-7).
- Secuijanu, C., Feroiu, V., Geană, D. “**High-Pressure Vapor-Liquid and Vapor-Liquid -Liquid-Equilibria in the Carbon Dioxide + 1-Nonanol System**” in “**Thermodynamics 2005**” Thermodynamics and statistical mechanics with industrial applications, Sesimbra, Portugal, 6-8 April 2005, PS a 43a, pp 130.
- Secuijanu, C., Feroiu, V., Geană, D. “**High-Pressure Vapor-Liquid-Liquid Equilibria in the Carbon Dioxide + 1-Nonanol System**” in 14th Romanian International Conference on Chemistry and Chemical Engineering RICCCE 14, Bucharest, Romania, 22-24 September 2005, RICCCE XIV Proceedings Volume 2, pp 9-15.

6. Secuijanu, C., Feroiu, V., Geană, D. “**Phase equilibria calculations for carbon dioxide + alcohols binary mixtures with the Huron-Vidal infinite dilution (HVID) mixing rules**” in “Romphyschem-12” International Conference on Physical Chemistry, Bucharest, Romania, 6-8 September 2006, pp. 235.
7. Secuijanu, C., Feroiu, V., Geană, D. “**High-Pressure Vapor-Liquid and Vapor-Liquid-Liquid Equilibria in the Carbon Dioxide + 1-Heptanol System**” in “ESAT 2006” 22nd European Symposium on Applied Thermodynamics, Elsinore, Denmark, 28 June-1 July 2006, pp 199-202, ISBN 87-91435-39-0.
8. Secuijanu, C., Feroiu, V., Geană, D. “**Prediction of phase equilibria in the ternary system carbon dioxide + 1-heptanol + pentadecane**” in Eleventh International Conference on Properties and Phase equilibria for Preduct and Process Design PPEPPD 2007, May 20-25, 2007, Hersonissos, Crete, Greece, Book of abstract p.147, Proceedings of conference (CD-ROM), p. 1-10.
9. Secuijanu, C., Feroiu, V., Geană, D. “**High-Pressure Vapor-Liquid and Vapor-Liquid-Liquid Equilibria in the Carbon Dioxide + 1-Hexanol System**” in ESAT 2008 Proceedings of 23rd European Symposium on Applied Thermodynamics, May 29th-June 1st, 2008, Cannes, France, pp. 31, CD: pp. 79-86, ISBN 2-905267-59-3 (oral communication).
10. Secuijanu, C., Feroiu, V., Geană, D. “**High-Pressure Phase Equilibria in the Carbon Dioxide + 1-Pentadecane System**” in ESAT 2009, 24th European Symposium on Applied Thermodynamics, Book of Abstracts, Eds. A. Arce, A. Soto, pp. 217, CD-ROM pp 477 – 483, ISBN: 978-84-692-2664-3, 27 June-1 July, Santiago de Compostela, Spain (poster PI-30).
11. Bogatu C., Geana D., Poot W. and de Loos Th. “**High Pressure Phase Behaviour of Trifluoromethane + Phenylalkanes**”, Presentation at the annual AIChE meeting, Salt Lake City, Utah, USA, november 7-12, 2010 (oral communication).
12. Secuijanu C., Feroiu, V., Geană, D., “**Phase Equilibria of Carbon Dioxide + 1-Pentanol System at High Pressures**”, in 25-th European Symposium on Applied Thermodynamics ESAT 2011, June 24-27, 2011, Saint Petersburg, Russia, pp 395-398 (poster), ISBN: 5-85263-061-6, Eds. Gotlib, I., Victorov, A., Smirnova, N.
13. Bogatu C., Geana D., Poot W., De Loos T.W. “**Fluid phase behavior of trifluoromethane + phenylalkanes**”, in 25-th European Symposium on Applied Thermodynamics ESAT 2011, June 24-27, 2011, Saint Petersburg, Russia, pp 115 (oral communication), ISBN: 5-85263-061-6, Eds. Gotlib, I., Victorov, A., Smirnova, N.
14. Secuijanu, C., Feroiu, V., Geană, D. “High-pressure phase equilibria for carbon dioxide (1) + 1-dodecanol (2) binary system”. 26th European Symposium on Applied Thermodynamics, 7-10 October, 2012, Kongresshotel Potsdam, Germany

GRANTURI DE CERCETARE

1. “Ecuații de stare și echilibre între faze în termodinamica fluidelor”. - Grant cercetare finanțat de Banca Mondială, cod CNCSIS 15, 2001. (director)
2. “Modelarea prin ecuații de stare a sistemelor cu asociere moleculară”. CNCSIS/MEC, 1047, 1999-2001. (director)
3. “Proprietăți de transport pentru fluide. Baze de date, metode de corelare și programme de aplicații”. CNCSIS/MEC, 98, 2001. (membru în echipă)

4. "Ecuații de stare termodinamic-statistice pentru reprezentarea proprietăților termodinamice și echilibrelor de faze ale fluidelor". CNCSIS/MEC, 462, 2002-2004. (director)
5. "Echilibre de faze la presiuni înalte cu aplicații la extacția supercritică în sisteme biotehnologice". CNCSIS/MEC, 1473, 2004-2006. (membru în echipă)
6. "Dezvoltarea unui pachet software inteligent pentru echilibre de faze (PHEQ) în sisteme aplicate în chimie, biochimie, inginerie chimică și biochimică". CNCSIS/MEC, 279, 2005-2007. (director)
7. "Efecte de cosolvență, ferestre de miscibilitate și discontinuități ale suprafeței critice în echilibre de faze la presiuni înalte". CNCSIS Idei, 1088, 2007-2010 (director).

17 septembrie 2013

Prof.dr.ing. Dan Petre Geană