

CATINCA SECUIANU

University POLITEHNICA of Bucharest
Faculty of Applied Chemistry & Materials Science
Department of Inorganic Chemistry, Physical Chemistry
& Electrochemistry
1-7 Gh. Polizu Street, S1, 011061 Bucharest, Romania
Building E, 3rd Floor, Rooms 305-306
Email: catinca.secuianu@upb.ro

Imperial College London
Faculty of Engineering
Department of Chemical Engineering
South Kensington Campus
SW7 2AZ London, United Kingdom
c.secuianu@imperial.ac.uk

CONFERENCES PRESENTATIONS

(Speaker/presenter is underlined)

2001

1. Secuianu, C. and Geană, D., “Vapor–Liquid Equilibria Calculation in Binary Mixtures of Carbon Dioxide with n-Alkanes”, *12th Romanian International Conference on Chemistry and Chemical Engineering – RICCCE 12*, Bucharest, Romania, September 13-15, **2001**, pp. 91 – 96, ISBN: 973-652-382-9 (poster).

2003

2. Secuianu, C., Feroiu, V., and Geană, D., “High-Pressure Vapor-Liquid Equilibria in the System Carbon Dioxide and Methanol at Temperatures from 298.15 K to 323.15 K”, *11th Physical Chemistry Conference with International Participation*, Timișoara, România, September 2-5, **2003** (oral presentation).
3. Secuianu, C., Feroiu, V., Geană, D., “Measurements of Vapor-Liquid Equilibria for Carbon Dioxide + 1-Butanol System Using a Variable-Volume Visual Cell”, *13th Romanian International Conference on Chemistry and Chemical Engineering – RICCCE 13*, Bucharest, Romania, September **2003**, Volume 2, pp. 104 – 109, ISBN: 973-652-824-3 (oral presentation).

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4. Secuianu, 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”, “*BRAMAT 2005*” - *Proceedings of International Conference on Materials Science and Engineering*, Brașov – România, 24-26 February **2005**, P5A15, CD, pp 1 – 8, ISBN: 973-635-454-7, Book of Abstracts, pp. 281, ISBN: 937-635-454-7 (poster).
5. Secuianu, C., Feroiu, V., Geană, D., “High-Pressure Vapor-Liquid and Vapor-Liquid -Liquid- Equilibria in the Carbon Dioxide + 1-Nonanol System”, “*Thermodynamics 2005*” - *Thermodynamics and statistical mechanics with industrial applications*, Sesimbra, Portugal, 6-8 April **2005**, PS a 43a, p. 130 (poster).
6. Secuianu, C., Feroiu, V., Geană, D., “High-Pressure Vapor-Liquid-Liquid Equilibria in the Carbon Dioxide + 1-Nonanol System”, *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, ISBN: 978-973-718-785-7 (oral presentation).

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7. **Secuianu, C.**, Feroiu, V., Geană, D., “High-Pressure Vapor-Liquid and Vapor-Liquid-Liquid Equilibria in the Carbon Dioxide + 1-Heptanol System”, “*ESAT 2006*” – 22nd European Symposium on Applied Thermodynamics, Elsinore, Denmark, 28 June-1 July 2006, pp. 199 – 202, ISBN: 87-91435-39-0 (poster).
8. **Secuianu, C.**, Feroiu, V., Geană, D., “Phase equilibria calculations for carbon dioxide + alcohols binary mixtures with the Huron-Vidal infinite dilution (HVID) mixing rules”, “*Romphyschem-12*” – 12th International Conference on Physical Chemistry, Bucharest, Romania, 6-8 September 2006, p. 235 (oral presentation).

2007

9. **Secuianu, C.**, Feroiu, V., Geană, D., “Phase equilibria calculations for carbon dioxide + methanol binary mixture with the Huron-Vidal infinite dilution (HVID) mixing rules”, 15th Romanian International Conference on Chemistry and Chemical Engineering – RICCCE 15, Sinaia, Romania, 19-22 September 2007, RICCCE XV Book of abstracts, pp. 1 – 2, ISBN: 978-973-718-758-7 (oral presentation).
10. Crişciu, A., **Secuianu, C.**, “New methods from old: using modern techniques to improve graphical data processing routine”, 15th Romanian International Conference on Chemistry and Chemical Engineering – RICCCE 15, Sinaia, Romania, 19-22 September 2007, RICCCE XV Book of abstracts, pp. 3 – 4, ISBN: 978-973-718-758-7 (poster).
11. **Secuianu, C.**, Feroiu, V., Geană, D., “Prediction of phase equilibria in the ternary system carbon dioxide + 1-heptanol + pentadecane”, *Eleventh International Conference on Properties and Phase Equilibria for Product and Process Design – PPEPPD 2007*, May 20-25, 2007, Hersonissos, Creta, Grecia, Book of abstract p.147, Proceedings of conference (ISI Web of Science, CD-ROM), pp. 1 – 10 (poster).

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12. **Secuianu, C.**, Feroiu, V., Geană, D., “High-Pressure Vapor-Liquid and Vapor-Liquid-Liquid Equilibria in the Carbon Dioxide + 1-Hexanol System”, *ESAT 2008 – Proceedings of 23rd European Symposium on Applied Thermodynamics*, May 29th-June 1st, 2008, Cannes, France, p. 31, Ed. Jaubert, J.-N., CD: pp. 79 – 86, ISBN: 2-905267-59-3 (oral presentation).

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13. **Secuianu, C.**, Crişciu, A., “Physical properties for binary and ternary mixtures of hexadecyl-trimethyl-ammonium bromide with water, and different alcohols”, *BraMat 2009 – International Conference on Materials Science and Engineering*, February 26-28, 2009, Braşov, România, P6.20, ISBN: 973-635-454-7 (poster).
14. **Secuianu, C.**, Feroiu, V., Geană, D., “High-Pressure Phase Equilibria in the Carbon Dioxide + 1-Pentadecane System”, 24th *ESAT – European Symposium on Applied Thermodynamics*, June 27 – July 1, 2009, Santiago de Compostela, Spain, Eds. Arce, A., Soto, A., ISBN: 978-84-692-2664-3 (poster).
15. **Secuianu, C.**, Feroiu, V., “Physical properties for 1-pentanol + pentadecane and 1-hexanol + pentadecane binary systems”, 16th Romanian International Conference on Chemistry and Chemical Engineering – RICCCE 16, 9-12 September, 2009, Sinaia, Romania, pp. 123 – 138, ISBN: 978-606-521-349-4 (poster).

16. **Secuianu, C.**, “Densities, refractive indices, and derived excess properties of the 2-hexanol + 2-octanol + n-octane ternary system at 298.15 K”, *16th Romanian International Conference on Chemistry and Chemical Engineering – RICCCCE 16*, 9-12 September, **2009**, Sinaia, Romania, pp. 138 – 147, ISBN: 978-606-521-349-4 (poster).
17. **Secuianu, C.**, Feroiu, V., Geană, D., “Phase equilibria in the ternary system carbon dioxide + 1-hexanol + pentadecane”, *16th Romanian International Conference on Chemistry and Chemical Engineering – RICCCCE 16*, 9-12 September, **2009**, Sinaia, Romania, pp. 101 – 111, ISBN: 978-606-521-349-4 (poster).

2010

18. **Secuianu, C.**, Feroiu, V., Geană, D., “High-Pressure Phase Equilibria for Carbon Dioxide (1) + 1-Pentanol (2) Binary System“, *Molecular Modelling & Simulation for Process and Product Design*, March 22 - 23, **2010**, Würzburg, Germany, pp. 1 – 2, EFCE-Event No. 687 (poster).

2011

19. **Secuianu, C.**, Feroiu, V., Geană, D., “Phase Equilibria of Carbon Dioxide + 1-Pentanol System at High Pressures”, *25th European Symposium on Applied Thermodynamics – ESAT 2011*, June 24-27, **2011**, Saint Petersburg, Russia, pp. 395 – 398, Eds. Gotlib, I., Victorov, A., Smirnova, N., ISBN: 5-85263-061-6 (poster).
20. **Secuianu, C.**, Maitland, G.C., Trusler, J.P.M., “Diffusion coefficients of aqueous KCl at high pressures measured by the Taylor dispersion method”, *25th European Symposium on Applied Thermodynamics – ESAT 2011*, June 24-27, **2011**, Saint Petersburg, Russia, pp. 115 – 118, Eds. Gotlib, I., Victorov, A., Smirnova, N., ISBN: 5-85263-061-6 (oral presentation).
21. **Secuianu, C.**, Feroiu, V., Geană, D., “High pressure phase equilibria of CO₂ + 1-dodecanol”, *17th Romanian International Conference on Chemistry and Chemical Engineering – RICCCCE 17*, 7-10 September, **2011**, Sinaia, Romania (poster).

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22. **Secuianu, C.**, Feroiu, V., Geană, D., “High pressure phase equilibria in the carbon dioxide+ 1-dodecanol binary system”, *InMoTher 2012 – Industrial use of Molecular Thermodynamics*, 19-20, March 2012, Lyon, France, Ref P-118, p. 108 (poster).
23. **Cadogan, S.P.**, Maitland, G.C., Trusler, J.P.M., **Secuianu, C.**, “Measurement of the Diffusion Coefficients of CO₂ in Brines at High Pressures and Temperatures”, *18th Symposium on Thermophysical Properties Boulder, CO, USA*, June 24-29, **2012**, Paper 1458.
24. **Secuianu, C.**, Feroiu, V., Geană, D., “High pressure phase equilibria for carbon dioxide (1) + 1-dodecanol (2) binary system”, *26th European Symposium on Applied Thermodynamics – ESAT 2012*, 7-10 October **2012**, Kongresshotel Potsdam, Germany (oral presentation).

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25. **Sima, S.**, **Secuianu, C.**, Feroiu, V., Geană, D., “Phase behaviour in carbon dioxide + butanol isomers”, *18th Romanian International Conference on Chemistry and Chemical Engineering – RICCCCE 18*, 4-7 September, **2013**, Sinaia, Romania (oral presentation).
26. **Dincă, C.**, **Secuianu, C.**, “Phase equilibria of CO₂ + systems of interest for CO₂ capture”, *18th Romanian International Conference on Chemistry and Chemical Engineering – RICCCCE 18*, 4-7 September, **2013**, Sinaia, Romania (oral presentation).

27. Sima, S., Crişciu, A., Feroiu, V., **Secuianu, C.**, “Physical properties for binary and ternary mixtures of SDS with water and different alcohols”, *18th Romanian International Conference on Chemistry and Chemical Engineering – RICCCE 18*, 4-7 September, **2013**, Sinaia, Romania (oral presentation).
28. Ioniţă, S., **Secuianu, C.**, Feroiu, V., Geană, D., “High-pressures phase equilibria in the carbon dioxide + 1-undecanol system”, *18th Romanian International Conference on Chemistry and Chemical Engineering – RICCCE 18*, 4-7 September, **2013**, Sinaia, Romania (oral presentation).
29. Sima, S. Cruz Doblas, J., Cismondi, M., **Secuianu, C.**, “High pressure phase equilibria in carbon dioxide + branched alkanes mixtures”, *18th Romanian International Conference on Chemistry and Chemical Engineering – RICCCE 18*, 4-7 September, **2013**, Sinaia, Romania (oral presentation).
30. **Moga, S.A.**, Goga, N., **Secuianu, C.**, Hadăr, A., “Effects of new thermostats on polymers: a case study”, *ICSAAM 2013 - 5th International Conference on Structural Analysis of Advanced Materials*, 23-26 September **2013**, Island of Kos, Greece, pp. 1 – 10 (poster).
31. Niţulescu, G.M., Velescu, B.S., **Secuianu, C.**, Nedelcu, G., “Design and computational studies on potential antiproliferative pyrazole compounds”, *2nd Zagreb International Conference on Pharmaceutical Sciences, Sharing a Vision Towards Better and Safe Medicine*, Zagreb, Croatia, 25-26 October, **2013**, PP-01, p. 65, ISBN 978-953-7897-01-7 (poster).
32. **Dincă, C.**, Badea, A., **Secuianu, C.**, “The desulphurization process influence on MEA absorption capacity”, *CIEM 2013 – 6th International Conference on Energy and Environment*, November 7-8, **2013**, Politehnica University Conference Center, Bucharest, Romania (oral presentation).
33. **Secuianu, C.**, Dincă, C., Cismondi, M., “Phase behaviour & thermophysical properties of systems containing carbon dioxide and their role in carbon capture and storage”, *CIEM 2013 - 6th International Conference on Energy and Environment*, November 7-8, **2013**, Politehnica University Conference Center, Bucharest, Romania (oral presentation).

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34. Ioniţă, S., Dincă, C., **Secuianu, C.**, Feroiu, V., Geană, D., “High-pressures phase equilibrium of carbon dioxide + 1-undecanol binary mixtures”, *27th European Symposium on Applied Thermodynamics – ESAT 2014: “Experiments meet Theory and Simulation”*, 6-9 July **2014**, Eindhoven - The Netherlands (poster).
35. Milanesio, J.M., Sima, S., Cruz-Doblas, J., Cismondi, M., **Secuianu, C.**, “Effect of cyclic and branched isomers on the VLE of CO₂ + alkane mixtures”, *27th European Symposium on Applied Thermodynamics – ESAT 2014: “Experiments meet Theory and Simulation”*, 6-9 July **2014**, Eindhoven - The Netherlands (oral presentation).
36. **Moga, S.A.**, Goga, N., **Secuianu, C.**, Hadăr, A., “A proposal for Young’ modulus calculation using molecular dynamics simulation in GROMACS”, *Conference Proceedings of the Academy of Romanian Scientists Productica Scientific Sessions*, 9th May **2014**, Vol. 6 (1), pp. 51 - 58, ISSN 2067-2160 (oral presentation).

2015

37. Sima, S., **Secuianu, C.**, Feroiu, V., Geană, D., “Phase equilibria of CO₂ + cycloalkanes + alcohols mixtures at high-pressures”, *28th European Symposium on Applied Thermodynamics – ESAT 2015: “Everything flows”*, June 11-14, 2015, Athens, Greece (poster).

38. Sima, S., **Secuianu, C.**, Feroiu, V., Geană, D., “Phase equilibria of carbon dioxide + n-heptane binary system”, *28th European Symposium on Applied Thermodynamics – ESAT 2015: “Everything flows”*, June 11-14, 2015, Athens, Greece (poster).
39. Ioniță, S., **Secuianu, C.**, Feroiu, V., Geană, D., “Phase equilibria of carbon dioxide + 1-octanol binary system”, *28th European Symposium on Applied Thermodynamics (ESAT 2015): “Everything flows”*, June 11-14, 2015, Athens, Greece (poster).
40. Sima, S., Homescu, B., Radu, M.A., Crișciu, A., **Secuianu, C.**, Viorel Feroiu, V., “Physico-Chemical Properties of Essential and Food Oils”, *19th Romanian International Conference on Chemistry & Chemical Engineering – RICCCCE 19*, Sibiu, Romania, September 2-5, 2015 (poster).
41. Sima, S., Toma, R., Crișciu, A., **Secuianu, C.**, “The Relationship Between Some Physicochemical Parameters and Quality of Fish”, *19th Romanian International Conference on Chemistry & Chemical Engineering – RICCCCE 19*, Sibiu, Romania, September 2-5, 2015 (poster).
42. Sima, S., **Secuianu, C.**, Feroiu, V., Geană, D., “Critical Behaviour of CO₂ + Cyclopentane Binary Mixture”, *19th Romanian International Conference on Chemistry & Chemical Engineering – RICCCCE 19*, Sibiu, Romania, September 2-5, 2015 (poster).

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43. Sima, S., Crișciu, A., **Secuianu, C.**, Feroiu, V., Geană, D., “Phase Equilibria of Butanol Isomers in Supercritical Carbon Dioxide”, *14th International Conference on Properties and Phase Equilibria for Product and Process Design – PPEPPD 2016*, May 22-26, Porto, Portugal (poster).
44. **Secuianu, C.**, “High pressures phase equilibrium in systems containing supercritical carbon dioxide”, *International Conference on Supercritical Fluid Technologies And Applications “Supercritical fluids –the current state and outlook”*, 20-21 October 2016, Pulawy, Poland, **invited speaker** (oral presentation).

2017

45. Sima, S., Rizea, G., **Secuianu, C.**, Feroiu, V., “Phase equilibria of CO₂ + 1,2-dimethoxyethane at high-pressures”, in *29th European Symposium on Applied Thermodynamics – ESAT 2017*, 18-21 May, 2017, Bucharest, Romania, Book of abstracts p. 32, ISBN: 978-606-515-768-2 (oral presentation).
46. Popescu-Săruleșteanu, V., Sima, S., Rizea, G., **Secuianu, C.**, “Phase behaviour for binary systems of CO₂ + naphthenes at high pressures”, *20th Romanian International Conference on Chemistry and Chemical Engineering – RICCCCE 20*, September 6-9, 2017, Poiana Brasov, Romania (poster).
47. Sima, S., Crișciu, A., Ciocîrlan, O., Dincă, C., **Secuianu, C.**, Feroiu, V., “phase behaviour for binary systems containing CO₂ at high pressures of interest for carbon capture and storage”, *20th Romanian International Conference on Chemistry and Chemical Engineering – RICCCCE 20*, September 6-9, 2017, Poiana Brasov, Romania, poster.

2018

48. Sima, S., Racoviță, R.C., **Secuianu, C.**, Feroiu, V., “High-pressure phase equilibrium in the carbon dioxide + 1,4-dioxane system”, *30th ESAT 2018 – European Symposium on Applied Thermodynamics*, Prague, Czech Republic, June 10-13, 2018 (poster).

2019

49. **Racoviță, R.C.**, Crișciu, A.V., Ciucă, M.D., Popa, I.A., Vărzaru, A.C., Sima, S., **Secuianu, C.**, “Experimental studies of several type 1 liquid-liquid ternary systems”, *21st Romanian International Conference on Chemistry & Chemical Engineering – RICCCCE 21*, 4-7 September, 2019, Mamaia-Constanța, Romania (oral presentation).
50. Sima, S., **Ioniță, M.**, Racoviță, R.C., Feroiu, V., **Secuianu, C.**, “Phase equilibria and densities of carbon dioxide + 1-hexanol”, *21st Romanian International Conference on Chemistry & Chemical Engineering – RICCCCE 21*, 4-7 September, 2019, Mamaia-Constanța, Romania (oral presentation).
51. **Sima, S.**, Vărzaru, A.C., Racoviță, R.C., Feroiu, V., **Secuianu, C.**, “Phase equilibria in systems of CO₂ and esters”, *21st Romanian International Conference on Chemistry & Chemical Engineering – RICCCCE 21*, 4-7 September, 2019, Mamaia-Constanța, Romania (oral presentation).
52. Sima, S., Racoviță, R.C., Dincă, C., Feroiu, V., **Secuianu, C.**, “Alternative Green Solvents for CO₂ Capture: Experiments and Modeling”, *21st Romanian International Conference on Chemistry & Chemical Engineering – RICCCCE 21*, 4-7 September, 2019, Mamaia-Constanța, Romania (keynote).
53. **Secuianu, C.**, “Alternative green solvents for CO₂ capture: experimental study and modelling with advanced equations of state”, *PE colloquium (invited talk)*, TU Delft, Delft, The Netherlands, May 17, 2019 (<https://www.tudelft.nl/en/events/2019/43682/april/pe-colloquium-by-catinca-secuianu-may-17/>).

2020

54. **Ioniță, M.**, Sima, S., **Secuianu, C.**, “Phase equilibria of CO₂ + organic compounds and their potential role in CCS”, 5th International Conference on Chemical Engineering. *Innovative Materials and Processes for a Sustainable Development – ICCE 2020*, “Gheorghe Asachi” Technical University of Iasi, Iasi, Romania, October 28-30, 2020 (oral presentation/virtual conference).