

LISTĂ DE LUCRĂRI
Asist. univ. dr. ing. Andrei Ionuț SIMION

LISTĂ LUCRĂRI RELEVANTE

1. **Simion, A.I.**, Dobrovici, P., Rusu, L., Favier-Teodorescu, L., (2012), Mathematical Modelling of the Process of Sugar Beet Pulp Valorisation by Acid Hydrolysis, *Revue Roumaine de Chimie* (ISSN: 0035-3930, IF₂₀₁₂ 0,331), **57** (11), p. 913-918;
2. **Simion, A.I.**, Dobrovici, P., Rusu, L., Gavrilă, L., Ciobanu, D., (2012), New Possibilities for the Valorization of Sugar Industry By-Products, *Revue Roumaine de Chimie* (ISSN: 0035-3930, IF₂₀₁₂ 0,331), **57** (6), p. 577-586;
3. **Simion, A.I.**, Grigoraș, C.G., Rusu, L., Gavrilă, L., (2012), Modelling of the Thermophysical Properties of Liquids Involved in Food Processing, la *Environmental Engineering and Management Journal* (ISSN: 1582-9596, IF₂₀₁₁ 1,004), **11** (11), p. 2035-2045;
4. Harja, M., Ciocîntă, R.C., Barbuta, M., Rusu, L., **Simion, A.I.**, Bistricianu, I.B., (2010), CaCO₃ controllable synthesis by double exchange method using CaCl₂ residual solutions, *Environmental Engineering and Management Journal* (ISSN: 1582-9596, IF₂₀₁₀ 1,418), **9**, (11), p. 1571-1577;
5. **Simion, A.I.**, Grigoraș C.G., Bardașu, L.E., Dabija, A., (2012), Modelling of the Thermophysical Lactic Acid Aqueous Solutions. Density and Viscosity, *Food and Environment Safety* (ISSN 2068-6609), **XI** (4), p. 49-58;
6. **Simion, A.I.**, Dobrovici, P., Rusu, L., Gavrilă, L., (2011), Modeling of the Thermo-Physical Properties of Grapes Juice III. Viscosity and Heat Capacity, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **XII** (4), p. 409-420;
7. **Simion, A.I.**, Grigoraș, C.G., Rusu, L., Dabija, A., (2011), Modeling of the Thermo-Physical Properties of Aqueous Sucrose Solutions II. Boiling Point, Specific Heat Capacity and Thermal Conductivity, *Food and Environment Safety* (ISSN 2068-6609), **X** (4), p. 49-56;
8. Grigoraș, C.G., **Simion, A.I.**, Rusu, L., Gavrilă, L., (2011), Mathematical Modeling of Moisture Loss during Apple Cubes Dehydration, *Annals. Food Science and Technology* (ISSN 2065-2828), **12** (2), p. 216-220;
9. **Simion, A.I.**, Dobrovici, P., Grigoraș, C.G., Rusu, L., (2011), Modeling of the Thermo-Physical Properties of Aqueous Sucrose Solutions I. Density and Dynamic and Kinematic Viscosity, *Annals. Food Science and Technology* (ISSN 2065-2828), **12** (2), p. 225-232;
10. **Simion, A.I.**, Rusu, L., Patriciu, O.I., Gavrilă, L., (2009), Mathematical modelling of vitamin C losses in lemons during thermal treatments, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **IX** (4), p. 375-384.

TEZĂ DOCTORAT

Titlu: *Cercetări privind metode și tehnologii de valorificare a subproduselor din industria zahărului – Impact tehnic și ecologic.*

Domeniul: Inginerie Chimică

BREVETE DE INVENȚIE

1. *Procedeu de policondensare a lignosulfonatului de sodiu cu fenol și rășină lignofenolică obținută*, Nedeff, V., Ciobanu, D., Macoveanu, M., Chiriac, A., Rusu, L., **Simion, A. I.**, Tudor, L. D. cerere brevet a 2012 00496 – acceptat spre publicare în Buletinul Oficial de Proprietate Industrială-Secțiunea Invenții;
2. *Procedeu de biodegradare anaerob pentru amestecul format din subprodusele organice industriale și produsele tip biofort organic ecologic realizate*, Nedeff, V., Ciobanu, D., Macoveanu, M., Chiriac, A., Rusu, L., **Simion, A. I.**, cerere brevet a 2012 00497 – acceptat spre publicare în Buletinul Oficial de Proprietate Industrială-Secțiunea Invenții.

CĂRȚI

1. **Simion, A.I.**, Grigoraș, C.G., *Tehnici de fabricare a produselor ecologice. Îndrumar de laborator*, Editura Alma Mater, Bacău, 2014;
2. Azzouz, A., Zvolinschi A., **Simion, A.I.**, Grig I., *Utilaj și Tehnologie în Industria Laptelui. Îndrumar de laborator*, Casa Editorială Demiurg, Iași, 2001, ISBN 974-8076-13-7.

LUCRĂRI PUBLICATE ÎN REVISTE DE SPECIALITATE

1. LUCRĂRI PUBLICATE ÎN REVISTE INDEXATE ISI

1. Dobrovici, P., **Simion, A.I.**, Grigoraș, C.G., Favier-Teodorescu, L., (2013), Optimization of Barley Husks Acid Hydrolysis Process Using the Response Surface Methodology, *Revue Roumaine de Chimie* (ISSN: 0035-3930, IF₂₀₁₂ 0,331), **58** (6), p. 517-525;
2. Dobrovici, P., **Simion, A.I.**, Grigoraș, C.G., Ciobanu, D., (2014), Fodder Yeast Development Optimisation Using as Main Carbon Source Barley Husks Hydrolysed, *Romanian Biotechnological Letters* (ISSN 1224 – 5984, IF₂₀₁₂ 0,363), **19** (1), p. 1802-1812;
3. **Simion, A.I.**, Dobrovici, P., Rusu, L., Favier-Teodorescu, L., (2012), Mathematical Modelling of the Process of Sugar Beet Pulp Valorisation by Acid Hydrolysis, *Revue Roumaine de Chimie* (ISSN: 0035-3930, IF₂₀₁₂ 0,331), **57** (11), p. 913-918;
4. **Simion, A.I.**, Dobrovici, P., Rusu, L., Gavrilă, L., Ciobanu, D., (2012), New Possibilities for the Valorization of Sugar Industry By-Products, *Revue Roumaine de Chimie* (ISSN: 0035-3930, IF₂₀₁₂ 0,331), **57** (6), p. 577-586;
5. **Simion, A.I.**, Grigoraș, C.G., Rusu, L., Gavrilă, L., (2012), Modelling of the Thermophysical Properties of Liquids Involved in Food Processing, *Environmental Engineering and Management Journal* (ISSN: 1582-9596, IF₂₀₁₂ 1,117), **11** (11), p. 2035-2045;
6. Harja, M., Ciocîntă, R.C., Barbuta, M., Rusu, L., **Simion, A.I.**, Bisticianu, I.B., (2010), CaCO₃ controllable synthesis by double exchange method using CaCl₂ residual solutions, *Environmental Engineering and Management Journal* (ISSN: 1582-9596, IF₂₀₁₀ 1,418), **9**, (11), p. 1571-1577.

2. LUCRĂRI PUBLICATE ÎN PROCEEDINGS INDEXATE ISI

1. Gavrilă, L., Fînaru, A.L., **Simion, A.I.**, Apetrii, I., (2003), Modelling of the Thermophysical Properties of Apple Juice. I Density and Viscosity, *Proceedings of the 14th DAAAM International Symposium „Intelligent Manufacture & Automation: Focus on Reconstruction*

and Development, 22 - 25 Oct. 2003, Sarajevo, Bosnia-Herzegovina (ISSN 1726-9679, ISBN 3-901509-34-8), p. 115-116;

2. Gavrilă, L., **Simion, A.I.**, Apetrei, I., (2002), Modelling of the Thermophysical Properties of Milk. I. Density and Viscosity”, *Proceedings of the 13th DAAAM International Symposium “Intelligent Manufacturing & Automation: Learning From Nature”*, 23-26 Oct. 2002, Viena, Austria (ISBN 3-901509-29-1), p. 015-016;
3. Apetrei, I., Ciocan, M.E., **Simion, A.I.**, Gavrilă, L., (2002), Modelling of the Thermophysical Properties of Milk. II. Thermal Capacity and Thermal Conductivity”, *Proceedings of the 13th DAAAM International Symposium “Intelligent Manufacturing & Automation: Learning From Nature”*, 23-26 Oct. 2002, Viena, Austria (ISBN 3-901509-29-1), p. 179-180.

3. LUCRĂRI PUBLICATE ÎN REVISTE INDEXATE BDI

1. **Simion, A.I.**, Grigoraş C.G., Bardaşu, L.E., Dabija, A., (2012), Modelling of the Thermophysical Lactic Acid Aqueous Solutions. Density and Viscosity, *Food and Environment Safety* (ISSN 2068-6609), **XI** (4), p. 49-58;
2. **Simion, A.I.**, Dobrovici, P., Rusu, L., Gavrilă, L., (2011), Modeling of the Thermo-Physical Properties of Grapes Juice III. Viscosity and Heat Capacity, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **XII** (4), p. 409-420;
3. **Simion, A.I.**, Grigoraş, C.G., Rusu, L., Dabija, A., (2011), Modeling of the Thermo-Physical Properties of Aqueous Sucrose Solutions II. Boiling Point, Specific Heat Capacity and Thermal Conductivity, *Food and Environment Safety* (ISSN 2068-6609), **X** (4), p. 49-56;
4. Grigoraş, C.G., **Simion, A.I.**, Rusu, L., Gavrilă, L., (2011), Mathematical Modeling of Moisture Loss during Apple Cubes Dehydration, *Annals. Food Science and Technology* (ISSN 2065-2828), **12** (2), p. 216-220;
5. **Simion, A.I.**, Dobrovici, P., Grigoraş, C.G., Rusu, L., (2011), Modeling of the Thermo-Physical Properties of Aqueous Sucrose Solutions I. Density and Dynamic and Kinematic Viscosity, *Annals. Food Science and Technology* (ISSN 2065-2828), **12** (2), p. 225-232;
6. **Simion, A.I.**, Rusu, L., Patriciu, O.I., Gavrilă, L., (2009), Mathematical modelling of vitamin C losses in lemons during thermal treatments, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **IX** (4), p. 375-384;
7. **Simion, A.I.**, Grigoraş, C., Rusu, L., Gavrilă, L., (2009), Modeling of the thermo-physical properties of grapes juice II. Boiling point and density, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **X** (4), p. 365-374;
8. **Simion, A.I.**, Dobrovici, P., Rusu, L., Gavrilă, L., (2009), Modeling of the thermo-physical properties of grapes juice I. Thermal conductivity and thermal diffusivity, *Annals. Food Science and Technology* (ISSN 2065-2828), **10** (2), p. 363-368;
9. **Simion, A.I.**, Rusu, L., Ştefănescu, I., Gavrilă, L., (2008), Influence of various thermal treatments over vitamin C concentration in lemons, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **IX** (4), p. 519-530;
10. Gavrilă, L., Fînaru, A., Istrati, L., **Simion, A.I.**, Ciocan, M.E., (2005), Influence of temperature, fat and water content on the thermal conductivity of some dairy products,

Scientific Researches. Agroalimentary Processes and Technologies (ISSN 1453-1399), **XI** (1), p. 205-210;

11. Gavrilă, L., Gavrilă, D., **Simion, A.I.**, Granero Rodrigues, A.J., (2004), Possibilities of emissions reduction in nitrogen-based fertilizer plants, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **V** (1-2), p. 159-166;
12. Gavrilă, L., Gavrilă, D., **Simion, A.I.**, (2003), Microbiologically Induced Corrosion and it's Mitigation in Cooling Cycles” *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **IV** (1-2), p. 127-134;
13. Gavrilă, L., Gavrilă, D., **Simion, A.I.**, Casares Martín, C., (2002), Galvanic Corrosion in Cooling Water Environments, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **III** (1-2), p. 93-108;
14. Gavrilă, L., Gavrilă, D., Casares Martín, C., **Simion, A.I.**, (2002), Possibilities of fresh water consumption reduction in large chemical plants, *Modelling and Optimization in the Machines Building Field – MOCM – 8*, p. 268-273;
15. Gavrilă, L., Constantin, M.M., **Simion, A.I.**, (2001), Improving Solid-Liquid Gravitational Separation by Using Lamellae Settling, *Modelling and Optimization in the Machines Building Field – MOCM – 7, 1*, p. 85-90;
16. Gavrilă, L., Gavrilă, D., Constantin, M.M., **Simion, A.I.**, (2001), Corrosion Resistance of Copper and Copper Alloys in Cooling Water Environments, *Modelling and Optimization in the Machines Building Field – MOCM – 7, 1*, p. 176-181;
17. Gavrilă, L., Istrati, L., Constantin, M.M., **Simion, A.I.**, Ivăscan, Ș. (2001), Purifying Nickel Sulfate Solutions by Ion Exchange, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **II** (1-2), p. 31-36;
18. Gavrilă, L., Istrati, L., Constantin, M.M., **Simion, A.I.**, Ivăscan, Ș., (2001), Separation of Nickel, Aluminum and Magnesium from Spent Steam Reforming Catalysts Using Ion Exchange Resins, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, **II** (1-2), (ISSN 1582-540X), p. 25-30;
19. **Simion, A.I.**, Dron, P.I, (2001), Algorithm and Computer Program for the Technological Dimensioning of Plate Heat Exchanger, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **II** (1-2), p. 43;
20. **Simion, A.I.**, Dron, P.I, (2001), Algorithm and Computer Program for the Technological Dimensioning of Agitated Film Evaporators, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **II** (1-2), p. 27.

4. LUCRĂRI PUBLICATE ÎN PROCEEDINGS INDEXATE BDI

1. Rusu, L., **Simion, A.**, Harja, M., (2009), Obtaining insulated foam for ammonia which could be used in case of ammonia tank accidents, *Proceedings 13-th International Research/Expert Conference “Trends in the Development of Machinery and Associated Technology” TMT 2009, Hammamet, Tunisia, 16-21 Oct. 2009* (ISBN 9958-617-30-7), p. 136-139;
2. Gavrilă, L., Fînaru, A., **Simion, A.I.**, Ciocan, M.E., Istrati, L., (2005), Dependence of some properties of liquid food products, by-products and raw materials with temperature and composition, *State-of-the-art and problems of agricultural science and education*, Plovdiv, Bulgaria, 19-20 Oct. 2005, p. 295-300;
3. Gavrilă, L., Istrati, L., **Simion, A.I.**, (2002), Valorisation des Catalyseurs Usés de Type Nio/A-Al₂O₃. 3. Cinétique de la Solubilisation de l’oxyde de Nickel, *Actes du 2^{ème} Colloque*

Franco-Roumain de Chimie Appliquee COFrRoCA 2002, Bacău, România, 10-12 oct. 2002 (ISBN 973-8392-04-7), p. 281-284.

5. LUCRĂRI PUBLICATE LA CONFERINȚE INTERNAȚIONALE

1. Gavrilă, L., Istrati, L., Fînaru, A., Ștefănescu, I., Ciocan, M.E., **Simion, A.I.**, (2005), Manufacture of mineral fertilizers from an environmental point of view, *Proceedings of the 9th International Research/Expert Conference „Trends in the Development of Machinery and Associated Technology” TMT 2005*, Antalya, Turkey, 26-30 Sept. 2005, p. 979-982;
2. Gavrilă, L., Gavrilă, D., Istrati, L., Fînaru, A., Ciocan, M.E., **Simion, A.I.** (2005), Improving of heat transfer efficiency in shell and tube heat exchangers by cooling water conditioning, *4th DAAAM Conference on Advanced Technologies for Developing Countries, ATDC'05*, Slavonski Brod, Croatia, 21-24 Sept. 2005, p. 513-518;
3. Gavrilă, L., Gavrilă, D., Ciocan, M.E. **Simion, A.I.**, (2005), Corrosion control in water cooled shell and tube heat exchangers, *5th International Conference “Research and Development in Mechanical Industry” RaDMI 2005* (ISBN-10 86-83803-22-8, ISBN 978-86-83803-22-4), Vrnjačka Banja, Serbia and Montenegro, 04-07 Sept. 2005;
4. Gavrilă, L., Istrati, L., Fînaru, A., **Simion, A.I.**, Ciocan, M.E., (2005), Fresh water consumption reduction in mineral fertilizers manufacturing, *Water Supply and Sewerage Services – Past, Present and Future*, Opatija, Croatia, 12-16 Oct. 2005, p. 211-220;
5. Gavrilă, L., Fînaru, A., **Simion, A.I.**, Ciocan, M.E., (2005), Mathematical Models for the Calculus of Thermal and Physical Properties of Food: Milk and Cream Density and Viscosity, *Proceedings of the International Conference “Agriculture and Food Sciences, Processes and Technologies”*, 12-13 May, Sibiu, (ISBN 973-739-093-8, ISBN 973-739-095-4), p. 217-222;
6. Gavrilă, L., Gavrilă, D., Fînaru, A., Istrati, L. **Simion, A.I.**, (2005), Possibilities of biofilms control in the industrial water cooling systems, *Lucrările celui de-al VIII-lea simpozion de chimia colorizilor și suprafețelor*, Galați, 2-4 June 2005, Galați, România (ISBN 973-8316-84-7), p. 120-126.
7. Gavrilă, L., Gavrilă, D., **Simion, A.I.**, (2004), Water Consumption Reduction in Chemical and Petrochemical Plants, *4th International Conference of the Chemical Societies of the South-East European Countries on Chemical Sciences in Changing Times: Visions, Challenges and Solutions – ICOSECS 4, II*, 18-21 July 2004, Belgrade, Serbia (ISBN 86-7132-018-9), p. 170;
8. Gavrilă, L., Fînaru, A.L., Apetrii, I. **Simion, A.I.**., (2004), Simulation des propriétés thermophysiques du jus des fruits, *Actes du séminaire d’animation régionale (Region Europe Centrale et Occidentale) SAR 2004*, 12-14 May 2004, Chișinău, Republica Moldova (ISBN 9975-63-233-5), p. 72-77;
9. Gavrilă, L., Gavrilă, D., **Simion, A.I.**, Granero Rodríguez A.J. Casares Martín, C., (2002), Possibilities of Water Consumption Reduction and Corrosion Mitigation in Fertilizers Plants, *Proceedings of the Conference on Water Science and Technology, 43rd Annual Science Week*, 18 - 21 Oct. 2002, Damasc, Siria, 12 p..

6. LUCRĂRI PUBLICATE LA CONFERINȚE NAȚIONALE

1. Ciobanu, D., Rusu L., **Simion, A.I.**, Geangalau, S., (2009), Functional food and quality of life. The effect of some dietetic bakery products on the human health, *Proceedings of*

Congress of the Academy of Romanian Scientist "Quality of Life", Timișoara, România (ISBN: 978-973-638-410-3), p. 121-128.

7. POSTERE PREZENTATE LA SESIUNI ȘTIINȚIFICE, CONFERINȚE NAȚIONALE ȘI INTERNAȚIONALE

1. **Simion, A.I.**, Grigoraș, C.G., (2013), New possibilities of fodder yeast production, *Ecology and protection of ecosystems – EPE 2013*, 7-8 Nov. 2013, Bacău, România;
2. Favier, L., **Simion, A.I.**, Rusu, L., Matei, E., Păcală, M.L., Grigoraș, C.G., Wolbert, D., Bouzaza, A., (2013), Advanced oxidation process for organic compound elimination based on heterogenous photocatalysis: A kinetic study, *International Conference on Environmental Research and Technology – ECO IMPULS 2013*, 7-8 Nov. 2013, Timișoara, România;
3. Favier, L., Mocanu, I., **Simion, A.I.**, Rusu, L., Grigoraș, C.G., Kadmi, Y., Bouzaza, A., (2013), Photocatalytic, Oxidation of Pharmaceuticals in Aqueous Solution: A Case Study with Carbamazepine, *Euro-aliment 2013*, 3-5 Oct. 2013, Galați, România;
4. Favier, L., Bouzaza, A., Rusu, L., **Simion, A.I.**, Grigoraș, C.G., Vial, C., Wolbert, D., (2013), Kinetic Study of the Photocatalytic Degradation of Carbamazepine over Aqueous TiO₂ Suspensions, *3rd European Symposium on Photocatalysis 2013*, 25-27 Sep. 2013, Portorož, Slovenia;
5. **Simion, A.I.**, Grigoraș, C.-G., Gavrilă, L., (2013), Mathematical modelling of ten vegetable oils thermophysical properties. Study of density and viscosity. *New Trends in Oil, Gas and Petrochemical Industry. Workshop*. 24-25 May 2013, Constanța, România;
6. Grigoraș, C.-G., Manea, L., **Simion, A.I.**, Ciobanu, D. (2013), Improving the nutritional quality of fodder yeasts by adding minerals. *International Conference of Applied Sciences. Chemistry and Chemical Engineering – CISA*, 15-18 May 2013, Bacău, România;
7. **Simion, A.I.**, Dobrovici, P.E., Grigoraș, C.-G., Ciobanu, D., (2013), Fodder yeast development optimisation using as main carbon source barley husks hydrolysed. *International Conference of Applied Sciences. Chemistry and Chemical Engineering – CISA*, 15-18 May 2013, Bacău, România;
8. **Simion, A.I.**, Grigoraș, C.G., Rusu, L., Gavrilă, L., (2012), Modeling of the thermo-physical properties of liquids involved in food processing, *Centenary of Education in Chemical Engineering*, 28-30 Nov. 2012, Iași, România;
9. **Simion, A.I.**, Rusu, L., Micu, A.E., Caidas, V.E., (2012), Mathematical Modeling of the Thermo-Physical Properties of Citric Acid Aqueous Solutions. Density and Dynamic Viscosity, *International Conference of Applied Sciences, Chemistry and Chemical Engineering CISA – 2012*, 24 - 27 Apr. 2012, Barați – Bacău, România;
10. **Simion, A.I.**, Grigoraș, C.G., Rusu, L., Bardașu, L.E., (2012), Modelisation mathematique des proprietes thermophysiques des solutions aqueuses d'acide lactique. Densite et viscosite dynamique, *Le 7^{eme} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2012)*, 27 - 29 Juin. 2012, Bacău, România;
11. Favier, L., Bouzaza, A., Rusu, L., **Simion, A.I.**, Vial, C., Wolbert, D., (2012), Dégradation de la carbamazépine en milieu aqueux par photocatalyse hétérogène, *Le 7^{eme} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2012)*, 27 - 29 Juin 2012, Bacău, România;
12. Semrany, S., Favier, L., **Simion, A.I.**, Djelal, H., Taha, S., Amrane, A., (2012), Biodégradation de la carbamazépine par le champignon filamenteux *Trametes versicolor* :

- Effet de l'addition de quelques co-substrats organiques, *Le 7^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2012)*, 27 - 29 Juin 2012, Bacău, România;
13. Rusu, L., Harja, M., Favier, L., Grigoraş, C.G., **Simion A.I.**, Şuteu, D., (2012), Utilisation de la tourbe rouge et brune pour l'enlèvement des polluants des eaux usées municipales et industrielles, *Le 7^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2012)*, 27 - 29 Juin 2012, Bacău, România.
 14. Rusu, L., Harja, M., **Simion, A.I.**, Grigoraş, C.G. (2012), Fly ash-derived zeolites as adsorbents for Ni removal from waste water, *International Conference of Applied Sciences. Chemistry and Chemical Engineering – CISA*, 24-27 Apr. 2012, Baraţi – Bacău, România.
 15. **Simion, A.I.**, Dobrovici, P, Rusu, L., Gavrilă, L., Ciobanu D., (2011), New Possibilities For The Valorization Of Sugar Industry By-Products, *The 10th International Conference on Colloids and Surfaces Chemistry, Galaţi*, România;
 16. **Simion, A.I.**, Dobrovici, P, Rusu, L., Gavrilă, L., (2011), Mathematical Modelling of the Thermo-physical Properties of Grapes Juice III. Viscosity, *International Conference of Applied Sciences, Chemistry and Chemical Engineering CISA – 2011*, 28 - 30 Apr. 2011, Baraţi – Bacău, România;
 17. **Simion, A.I.**, Dobrovici, P., Rusu, L., Grigoraş, C., Gavrilă, L., Ciobanu, D., (2010), Nouvelles Modalites de Valorisation de la Pulpe de Betterave, *Le 6^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2010)*, 7 - 10 Juin 2010, Orléans. France;
 18. **Simion, A.I.**, Rusu, L., Ciobanu, D., Gavrilă, L., (2010), New Biomass Sources in Sugar Beet Industry, *International Conference of Applied Sciences, Chemistry and Chemical Engineering CISA – 2010*, 8 - 11 Apr. 2010, Slănic Moldova – Bacău, România.
 19. Harja, M., Rusu, L., Ciocinta, R.C., **Simion, A.I.**, (2009), CaCO₃ Controllable Synthesis by Double Exchange Method Using CaCl₂ Residual Solutions, *International Conference of Applied Sciences, Chemistry and Chemical Engineering CISA – 2009*, 2 - 5 Apr. 2009, Slănic Moldova – Bacău, România.