



Curriculum vitae Europass



Personal information

First name / Surname(s) **Simona Alina Ana POPA**

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URL http://www.chim.upt.ro/Facultatea-de-Chimie-Industrială-si-Ingineria-Mediului-Cadru-Didactic_Popa-Simona_sRn_ed.html

Nationality

Date of birth

Gender

Employment / Occupational field

**Associate Professor Doctor Engineer
Politehnica University Timișoara, Romania**

Work experience

Dates	1998 to present
Occupation or position held	Senior Lecturer , PhD
Main activities and responsibilities	<i>Courses:</i> Colorants and Pesticides; Equipment for organic industry, Equipment for food industry; Food Policy; Food legislation and customer protection <i>Scientific promoter:</i> MS, and BS students <i>Research:</i> Bubble column reactor used in chemical technology for obtaining eco-friendly products; Color analysis of organic and food materials, Adsorption of dye traces and other toxic products from wastewaters <i>Management:</i> Manager CNCIS grants; Manager POS CCE grants
Name and address of employer	"Politehnica" University of Timisoara, Department of Applied Chemistry and Organic-Natural Compounds Engineering, 300001-Timisoara, Carol Telbisz 6, Romania Phone: +40-256-404212 Fax: +40-256-403060 E-mail: simona.popa@upt.ro Web: http://www.chim.upt.ro/Facultatea-de-Chimie-Industrială-si-Ingineria-Mediului.html
Type of business or sector	Higher education (Academic)

Dates (older)	1991-1998 (Teaching Assistant)-"Politehnica" University of Timisoara, Romania; 1988-1991 (engineer and computer programmer)-ILSA Factory, Timișoara; 1985-1988 (engineer) - "Nasturi" Factory, Jimbolia, Timiș
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Education and training

Dates	2021
Title of qualification awarded	Habilitation Thesis - Chemical Engineering (nr.5678 / 02.12.2021)
Principal subjects/occupational skills covered	Habilitation Thesis: Colour and colour analysis using CIEL*a*b* parameters from UV-Vis spectroscopy (defended: 6 September 2021)
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Romania
Level in national or international classification	ISCED8
Dates	1999
Title of qualification awarded	Ph.D. Diploma (in Technical Engineering) – Series R No.0002513
Principal subjects/occupational skills covered	Ph.D. Thesis: Technologies and Equipment in Food Industry
Name and type of organisation providing education and training	„Lucian Blaga” University of Sibiu, Romania
Level in national or international classification	ISCED8
Dates	1980-1985
Title of qualification awarded	Master of Science (M.Sc.)
Principal subjects/occupational skills covered	<i>Speciality:</i> Technology of Organic Compounds
Name and type of organisation providing education and training	Polytechnic Institute "Traian Vuia" Timișoara, Faculty of Industrial Chemistry, 300006-Timisoara, Victoriei Sq. no.2, Romania
Level in national or international classification	ISCED7

Expertise field

Project Manager:

1. Copolymerisation of acrylic compounds in bubble column type reactors (35/2000)-CNCSIS – 20500 RON (4100 Euro)
2. Copolymerisation of acrylic compounds in bubble column type reactors (70/2001)-CNCSIS – 35000 RON (7000 Euro)

Results:**1. ISI Papers:**

1. **Popa, S.**, Mosoarcă, G., Macarie, L., Pleșu, N., Ilia, G., Tara-Lunga-Mihali, M., Copolymerization of butyl acrylate with methyl methacrylate in a bubble column reactor and the use of copolymer in corrosion protection, *Polymer Bulletin*, **2021**, WOS:000411546400025; <https://doi.org/10.1007/s00289-020-03502-y>; (F.I. 2.87/2021 – Q2)
2. **Popa S.**, Boran S., Mosoarca G., Vancea C., Heat transfer influence on fractionation in flooded packed columns, *Studia UBB Chemia*, **2019**, 64(3), 143-152, WOS:000489744800013; DOI: 10.24193/subbchem.2019.3.12; (F.I. 0.494/2019 – Q4)
3. **Popa, S.**, Sorina Boran, Glass Packing Materials Used for Intensification of Heat Transfer at Boiling on Tubular Surfaces, *Thermal Science*, **2017**, 21(5), 2031-2037, WOS:000414237000014; <https://doi.org/10.2298/TSCI150728203P>, (F.I. 1.625/2021 – Q3)
4. **Popa, S.**; Csunderlik, C.; Jascanu, V.; Jurcau, D., Plesu, N., Influence of temperature on the polymerization solution of acrylates in a bubble column reactor, *Materiale plastice*, **2004**, 41, 2, 62-65, WOS:000222690600002; (ISI 0.593/2021 – Q4)
5. **Popa, S.**; Csunderlik, C.; Jascanu, V.; Jurcau, D., Plesu, N., Bubble gas column reactors used for polymerization, *Materiale plastice*, **2003**, 40, 4, 177-181, WOS:000187202100004; (ISI 0.593/2021 – Q4)
6. **Popa, S.**; Jascanu, V.; Jurcau, D.; Plesu, N., The influence of some parameters on the column copolymerization with bubbling, *Revista de chimie*, **2003**, 54, 7, 595-598, WOS:000185562900010; (F.I. 0.693/2003 – Q3)
7. **Popa, S.**; Csunderlik, C.; Florea, S.; Jascanu, V.; Plesu, N., The solution copolymerization of acrylates with styrene, *Revista de Chimie*, **2002**, 53, 4, 259-263, WOS:000175915800001; (F.I. 0.693/2002 – Q3)

2. Papers presented or published in BDI journals:

1. **Popa S.**, Boran S., Jurcau D., Some Aspects on Polymerization in a Bubble Gas Column Reactor, ISITES2013 - 1st International Symposium on Innovative Technologies in Engineering and Science, Sakarya University Congress & Culture Center, 7-9 June 2013, ISSN 2148-7464, 687-695, <https://isites.info/PastConferences/ISITES2013/> (Chairman)
2. Manovicu, I., Jurcău, D., Boboiciov, E., **Popa, S.**, Resins C9. Influence of synthesis parameters, *Annals of West University of Timișoara, Series Chemistry*, **2001**, 10 (2), 587-596
3. **Popa, S.**, Jurcau D., Boboiciov, E., Bubble gas column reactors used for polymerization, XXV FATIPEC Congress EUROCOAT 2000, (Oral presentation communication), Session: Advanced Technologies, 19-22 Sept. 2000, Torino Italia
4. **Popa, S.**, Jascanu, V., Jurcau, D., Florea, S., Influenta variatiei raportului dintre monomeri asupra polimerizarii in solutie, Conferinta Internationala ALTEXIM-II, 17-18 Noe Sibiu, 2000, Sectiunea 5 – Fizica-Chimie aplicata (Oral presentation), lucrare publicata in Buletin Stintific al Facultatii de Tehnologie Textilelor si Produselor Alimentare, Universitatea Lucian Blaga Sibiu, Lucrarile Conferintei Internationale, pp.56-61

Project Partner Responsible:

3. New energetic efficient technologies for some polyesteric copolymer synthesis– SMIS 50328 – 22.05.2014 (2014) POSCCE Nr.12 PO102418/5124/22.05.2014 – 16000 Euro
4. New energetic efficient technologies for some polyesteric copolymer synthesis– SMIS 50328 – 22.05.2014 (2015) POSCCE Nr.12 PO102418/5124/22.05.2014 – 84000 Euro

Results:

1. ISI and BDI Papers

1. Popa, S.; Tamas, A.; Simulescu, V.; Jurcau, D.; Boran, S.; Mosoarca, G. A Novel Approach of Bioesters Synthesis through Different Technologies by Highlighting the Lowest Energetic Consumption One. *Polymers*, **2021**, 13, 4190, <https://doi.org/10.3390/polym13234190> (ISI 4.329/2021 - Q1)
2. **Popa, S.**; Boran, S., Energetic efficiency calculation for a new experimental reactor, *Materiale plastice*, **2016**, 53, 410-413, **WOS:000384870300015**; (**F.I. 1.517/2019 – Q4**)
3. **Popa S.**, Boran S., Paul C., Borza P., Bandur G., Esterification of Benzoic Acid with Propylene Glycol in an Experimental Bubble Column Reactor – Part II, *Chem Bull "Politeh" Univ Timis Rom*, **2016**, 61,75,1, 7-11, [http://chemicalbulletin.upt.ro/admin/articole/26272art_2\(7-11\).pdf](http://chemicalbulletin.upt.ro/admin/articole/26272art_2(7-11).pdf)
4. **Popa S.**, Boran S., Paul C., Borza P., Esterification of Benzoic Acid with Propylene Glycol in an Experimental Bubble Column Reactor – Part I, *Chem Bull "Politeh" Univ Timis Rom*, **2015**, 60, 74, 2, 55-59; [http://chemicalbulletin.upt.ro/admin/articole/72523art_5\(55-59\).pdf](http://chemicalbulletin.upt.ro/admin/articole/72523art_5(55-59).pdf)

2. ISI and international Conferences

1. **Popa, S.**, Boran, S., Jurcău, D., Rheological study on fatty acid polyester copolymers produced using nanotechnologies, Poster presentation (P2.65), *1st International Conference on Bioresource Technology, for and on behalf of Elsevier*, 23-26 October, **2016**, Sitges, Spain, <https://elsevier.conference-services.net/viewsecurePDF.asp?conferenceID=4034&abstractID=940624>
2. Marc, A.M., Negru, R., Jurcău, D., Dogaru, V., Hritcu M., Craciunescu C., **Popa, S.**, Ardelean, E., Energetic efficiency of polyesterification process, *New obtaining method for polyesters with possible biodegradable characteristics*, New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, ISSN 2065-0760, 2015-06-04, 88, la "New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection", 8th Edition, June 04-05, **2015**, Abstract pp. 90
3. Ormenișan L., Crăciunescu, C., Serbănescu M., **Popa, S.**, Jurcău, D., Macarie, L., Pleșu, N., Carbon nanotubes – Polymer composites, *New obtaining method for polyesters with possible biodegradable characteristics*, New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, ISSN 2065-0760, 2015-06-04, 88, la "New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection", 8th Edition, June 04-05, **2015**, Abstract pp. 91
4. Boran, S., **Popa, S.**, Ardelean, D., *New obtaining method for polyesters with possible biodegradable characteristics*, New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, ISSN 2065-0760, 2015-06-04, 88, la "New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection", 8th Edition, June 04-05, **2015**, Abstract pp. 88
5. **Popa, S.**, Boran, S., Marcu, C., Borza, P., Paul, C., *Enzymatic ester synthesis in a bubble column reactor*, New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, Timisoara, ISSN 2065-0760, 2015-06-04, 82, "New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection", 8th Edition, June 04-05, **2015**, Abstract pp. 82

Member in the research team:

1. Intensification, automatization and optimization of transfer processes in the chemical industry – Ministry of Education and Science - 1082/B – 1993
2. Intensification, automatization and optimization of transfer processes in the chemical industry – Ministry of Education and Science – 3004/6 – 1994
3. Intensification, automatization and optimization of transfer processes in the chemical industry – Ministry of Education and Science - 4004/738 – 1995
4. New materials, micro and nano technologies MANANTECH-CEEx (82/2006-2008)
5. Energetic supply of a local community using air currents (2007-2011) -POSDRU-Parteneriate 4 - 21-036
6. Target group at "CNCIS Matrix for describing qualifications in higher education" in POSDRU grant 156/1.2/G/133630 "Development of university study programs and expansion of learning opportunities for the student and the labor market" (2007-2013) Simona POPA

Professional memberships:

Member of national scientific societies/professional affiliation:

1. The Romanian Chemical Society, 1993 to present
2. The Romanian Chemical Engineering Society, 1993 to present
3. Brainmap Comunity - UEFISCDI

Journal Reviewer

Journal of Energy and Power Engineering

<http://www.davidpublisher.org/Home/Journal/JEPE>

Referent la *International Conference on Biological Information and Biomedical Engineering – BIBE2018* ; <http://www.icbibe.org/>

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level ()*

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Experimented user	C1	Experimented user	C1	Experimented user	B2	Experimented user	C1	Experimented user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Dynamic communicator with good teaching, mentoring, relationship-building, and problem-solving abilities

Organisational skills and competences

Organizing, coordination, and management skills:
 - scientific coordination of licence and master theses
 - research and didactic labs in the academic chemical engineering field

Technical skills and competences

- experience in advanced physico-chemical analyses and maintenance (Thin layer chromatography, UV-VIS spectrophotometry, CIELAB analysis, rheology, kinetics of drying, etc.)

Computer skills and competences

- Microsoft Office (Word, Excel, Power Point, Paint)
 - Advanced chemistry programs (ISIS Base&Draw)
 - Statistical programs (Origin)

Artistic skills and competences

Other skills and competences

Literature, music, sports

Driving licence

Category B

Additional information

- Computer Programmer (1988) - "Stefan Gheorghiu" Academy (now Polytechnical University of Bucharest)
- Certificate of Attendance at the 1st International Conference on Bioresource Technology, for and on behalf of Elsevier, 23-26 October, 2016, Sitges, Spain
- Diploma of participating at HELLA Driving Educational Day, 9 Apr. 2016, Timișoara
- Participation at ISITES2013 1st International Symposium on Innovative Technologies in Engineering and Science, Sakarya University University Congress and Culture Center, 7-9 June 2013 - **Chairman**
- Participation at ISITES2015 – 3rd International Symposium on Innovative Technologies in Engineering and Science, 3-5 June 2015, Universidad Politecnica de Valencia, Valencia – Spain
- Diploma for participating at AcCEs XXI Course - Programme for preparing in european projects management - Intercultural Institute Timișoara, CCIA Timișoara and European Community - PHARE Programme - 2001
- Participation at Romanian-Canadian Seminar "Gestion des Energie Thermique" - Ministry of External Affairs of Canada - Programme EDU-Plus - 1994
- Participation at Romanian-Canadian Seminar "Gestion et Traitement des dechets" - Ministry of External Affairs of Canada - Programme EDU-Plus - 1995

Patents:

1. **Simona Popa**, Rodica Deatcu, Patent no.100221/1989, *Method of obtaining plates with nacre effect based o acrylic polymers*- Patent used at Buttons Factory Jimbolia
2. **Simona Popa**, Dorin Jurcău, Patent no. 118877B/2004, *Composition based on acrylic polymers and its obtaining method* - Patent used in the Project "Innovative products integrated in new technologies for nearly zero energy buildings", ID nr. 1391, Cod SMIS – CSNR: 41362. Firma: CONSIM TDV SRL

Awards

Albulescu, D.A., Miclău, M., Dabici, A., Ursu, D., Birdeanu, M., Nitu, S., Rusnac, L.M., **Popa, S.**, Reinvestigation of Blueberry anthocyanins for the dye-sensitized solar cells, 3rd International Conference on Emerging Technologies in Materials Engineering, EMERGEMAT, 29-30 October **2020**, Bucharest, Romania, poster (**Second prize**)

Scientific papers (selection)

1. **Popa, S.**; Tamas, A.; Simulescu, V.; Jurcau, D.; Boran, S.; Mosoarca, G. A Novel Approach of Bioesters Synthesis through Different Technologies by Highlighting the Lowest Energetic Consumption One. *Polymers*, **2021**, 13, 4190, <https://doi.org/10.3390/polym13234190> (ISI 4.329/2021 - Q1)
2. **Popa, S.**, Rădulescu-Grad, M.E., Perdivară, A., Moșoarcă, G., Aspects regarding colour fastness and adsorption studies of a new azo-stilbene dye for acrylic resins, *Scientific Reports*, **2021**, 11:5889, <https://doi.org/10.1038/s41598-021-85452-7>, (F.I. 3.998/2019 – Q1)
3. Albulescu, D., Ursu, D., Dabici, A., Birdeanu, M., Duteanu, N., **Popa, S.**, Miclău, M., Nitu, S., Impact of the selectivity of titanium dioxide on photovoltaic performance of anthocyanin-sensitized solar cells, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, **2021**, <https://doi.org/10.1080/15567036.2021.1918802>, (F.I. 1.184/2019 – Q3)
4. **Popa S.**, Milea M.S., Boran S., Nitu S.V., Mosoarcă G., Vancea C., Lazău R.I., Rapid adulteration detection of cold pressed oils with their refined versions by UV-VIS spectroscopy, *Scientific Reports*, **2020**, 10:16100 <https://doi.org/10.1038/s41598-020-72558-7>, (F.I. 3.998/2019 – Q1)
5. Radulescu M.E., Visa A., Milea M.S., Lazau R.I., **Popa S.**, Funar-Timofei S., Synthesis, spectral characterization, and theoretical investigations of a new azo-stilbene dye for acrylic resins, *J. of Molecular Structure*, **2020**, 1217, Art.no. 128380, <https://doi.org/10.1016/j.molstruc.2020.128380>; (F.I. 2.463/2019 – Q3)
6. **Popa, S.**; Boran, S., CIELAB and thermal properties of sesame food oil under antocyanin and UV influence, *Revista de Chimie*, **2017**, 68, 1499-1503, WOS:000408702900052; <https://doi.org/10.37358/RC.17.6.5682> (F.I. 1.412/2017 – Q3)
7. **Popa, S.**; Boran, S., Davidescu, C., Walnut food oil under UV radiation - Influence upon CIELAB and thermal properties of antocyanin addition, *Revista de Chimie*, **2016**, 67(5), 858-861, WOS:000378158100008, <https://doi.org/10.37358/Rev.Chim.1949> (F.I. 1.232/2016– Q3)
8. **Popa, S.**; Boran, S., Davidescu, C., Influence of storage conditions upon CIELAB and thermal properties of sesame food oil, *Revista de Chimie*, **2016**, 67(7), 1290-1293, WOS:000385513000011, <https://doi.org/10.37358/Rev.Chim.1949> (F.I. 1.232/2016 – Q3)
9. Pop, M.; Lupea, A.X.; **Popa, S.**; Gruescu, C., Colour of Bilberry (*Vaccinium Myrtillus* Fruits) Extracts, *International Journal of Food Properties*, **2010**, 13, 4, 771-777, WOS:000280635700011; <https://doi.org/10.1080/10942910902894898>; (F.I. 1.808/2019 – Q3)

Simona POPA

10. **Popa, S.**; Pop, M.; Lupea A.X.; Turcus, V., Colour Study in CIELAB Space on Natural Colorants from Vaccinium Vitis - Idaea Fruits, *Revista de Chimie*, **2008**, 59(10) 1160-1163, WOS:000261428800020; <https://doi.org/10.37358/RC.08.10.1989>; (ISI 0.693/2008 – Q3)
11. Grad, M.E.; Raditoiu, V.; **Popa, S.**; Jurcau, D., Lupea, A.X., Colour and Tintorial Behaviour of Some Chromogens Derivatives of 4,4'-diaminostilbene-2,2'-disulphonic Acid, *Revista de Chimie*, **2008**, 59, 12, 1355-1360, WOS:000261704800016, DOI: [10.37358/RC.08.12.2061](https://doi.org/10.37358/RC.08.12.2061); (ISI 0.693/2008 – Q3)
12. Mosoarca, G.; Vancea, C.; Popa, S.; Boran, S., Bathurst Burr (*Xanthium spinosum*) Powder—A New Natural Effective Adsorbent for Crystal Violet Dye Removal from Synthetic Wastewaters. *Materials* **2021**, 14, 5861. <https://doi.org/10.3390/ma14195861> (ISI 3.26/2021 – Q1)
13. Mosoarca, G.; Popa, S.; Vancea, C.; Boran, S. Optimization, Equilibrium and Kinetic Modeling of Methylene Blue Removal from Aqueous Solutions Using Dry Bean Pods Husks Powder. *Materials* **2021**, 14, 5673. <https://doi.org/10.3390/ma14195673> (ISI 3.26/2021 – Q1)
14. Kohn, D.; **Popa, S.**, Heat transfer at boiling of aqueous solutions of substances with limited solubility, *Experimental Heat Transfer*, **1999**, 12, 3, 193-202, WOS:000081746900001; <https://doi.org/10.1080/089161599269672>; (F.I. 4.058/2021 – Q1)

International ISI Conferences

1. Popa, S., Boran, S., Jurcău, D., *Rheological study on fatty acid polyester copolymers produced using nanotechnologies*, Poster presentation (P2.65), 1st International Conference on **Bioresource Technology**, for and on behalf of **Elsevier**, 23-26 October, 2016, Sitges, Spain, <https://elsevier.conference-services.net/viewsecurePDF.asp?conferenceID=4034&abstractID=940624>
2. Davidescu, C., **Popa, S.**, Boran S., Antocyanin and UV influence upon CIELAB properties of sesame food oil, *GREDIT2016 – GREEN DEVELOPMENT INFRASTRUCTURE TECHNOLOGY*, Oral Section 4: Agriculture, Agroecology, Food Quality Safety, Legal Framework, Public Health Environmental Medicine, 04-11, 31.03-1.04.2016, Skopje, University of St. Cyril and Methodius, Book of Abstracts pp.107. [http://benainfo.net/gredit/2016/doc/GREDIT-2016-Book_of_abstracts\[cd\].pdf](http://benainfo.net/gredit/2016/doc/GREDIT-2016-Book_of_abstracts[cd].pdf)

Annexex (Upon request)

The list of books published in CNCSIS-recognized publishers (**13**), of scientific papers published in ISI-listed journals (**36**, of which **9** in **Q1**-listed journals, **3** in **Q2**-listed journals and **24** in **Q3** and **Q4**-listed journals), in BDI journals and volumes of BDI scientific manifestări (**13**), at international conferences abroad (**10**), at international conferences in Romania (**20**), of citations in literature (**185**) and of other scientific material can be obtained upon request.