

Lista de lucrări

Lista celor mai relevante 10 lucrări științifice publicate în domeniul tezei de abilitare

1. **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. 4.379/2021 – Q1)
2. Albulescu, D., Ursu, D., Dabici, A., Birdeanu, M., Duteanu, N., **Popa, S.**, Miclau, 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. 3.447/2021 – Q3)
3. **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. 4.379/2021 – Q1)
4. 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. 3.196/2021 – Q3)
5. **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)
6. **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)
7. **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)
8. 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. 2.727/2021 – Q3)
9. **Popa, S.**; Pop, M.; Lupea A.X.; Turcus, V., Colour Study in CIELAB Space on Natural Colorants from *Vaccinium Vitis - Idaeae* Fruits, *Revista de Chimie*, **2008**, 59(10) 1160-1163, WOS:000261428800020; <https://doi.org/10.37358/RC.08.10.1989>; (F.I. 0.693/2008– Q3)
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Teza de doctorat

Simona POPA, *Contribuții la Eficiența de separare prin transfer de masă - Eficiența coloanelor cu barbotare asupra proceselor chimice* (Coordonator științific prof.dr.ing. Vasile JĂȘCANU), Universitatea „Lucian Blaga” Sibiu (IOD), Ramura de știință „Tehnică”, **1999**, (Diplomă de Doctor seria R, nr. 0002497).

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1. **Simona Popa**, Rodica Deatcu, Patent no.100221/**1989**, *Procedeu de obținere a plăcilor cu efect de sidefare pe bază de polimeri acrilici*
2. **Simona Popa**, Dorin Jurcău, Patent no. 118877B/**2004**, *Compoziție pe bază de polimeri acrilici și procedeu de obținere a acesteia*

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1. **Simona Popa**, *Organic dyes – Students book*, Ed. Politehnica Timișoara, **2021**, 103 pp., ISBN 978-606-35-0414-3
2. **Simona Popa**, *Utilaje in industria chimică organică*, Ed. Politehnica Timișoara, **2017**, 120 pp., ISBN 978-606-35-0185-2
3. Sorina Boran, **Simona Popa**, *Fenomene de transfer, operații unitare și utilaje în ingineria chimică*, Ed. Politehnica Timișoara, **2017**, 218 pp., ISBN 978-606-35-0185-2
4. **Simona Popa**, Sorina Boran, *Politici și strategii globale de securitate alimentară*, Ed. Politehnica Timișoara, **2014**, 212 pp., ISBN 978-606-554-143-6
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6. **Simona Popa**, *Fundamente și aplicații pentru industria de sinteză organică fină și de procesare a produselor naturale. Vol.II.*, Ed. Politehnica Timișoara, **2013**, 183 pp., ISBN 978-606-554-462-8; 978-606-554-702-5
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8. **Simona Popa**, Jurcău Dorin, Pleșu Nicoleta, Turtureanu Adrian, Laslău Gheorghe, Gherdan Mircea, Ormenișan Laura, Jurcău Daniel, Palkovacs Stefan, Serenciuc Vasile, *Pigmenți organici. Volumul II. Structură, Proprietăți și utilizări*, Ed. Eurostampa Timișoara, **2008**, 480 pp., ISBN 973-638-192-7
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1. **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>, WOS:000630515100013 (ISI 4.379/2021 – Q1)
2. Mosoarca, G., Vancea, C., **Popa, S.**, Gheju, M., Boran, S., *Syringa vulgaris* leaves powder a novel low-cost adsorbent for methylene blue removal: isotherms, kinetics, thermodynamic and optimization by Taguchi method, *Scientific Reports*, **2020**, 10: 17676, <https://doi.org/10.1038/s41598-020-74819-x>, WOS:000585197800006 (ISI 4.379/2021 – Q1)
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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)
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2. **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)
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1. Plesu, N., Rad, R., Manovicu, I., **Popa, S.**, Synthesis of polyaniline doped with phenylphosphinic acid, *4th International Conference of the Chemical Societies of the South-East European Countries on Chemical Sciences in Changing Times: Visions, Challenges and Solutions*, Belgrade, July 18-21, **2004**, p. 61
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Granturi

Director

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