

Universitatea Națională de Știință și Tehnologie POLITEHNICA București
 Facultatea: Inginerie Chimica și Biotehnologii
 Departamentul: Chimie Analitică și Ingineria Mediului
 Nume Prenume: Stefan Daniela Simina
 Gradul didactic: Prof. Habil.Dr. Ing.

LISTA DE LUCRĂRILOR PUBLICATE

Daniela Simina ȘTEFAN

A. TEZA DE DOCTORAT, TEZE DE POSTDOCTORAT

A.1. Teza de DOCTORAT:

1. "*Influența compușilor organici asupra îndepărtării ionilor metalici din diverse ape industriale*" Universitatea POLITEHNICA București, 15 iulie 2005,

A.2. Teze POSTDOCTORAT

1. Postdoctorat, în cadrul proiectului "*Biotehnologii Aplicate*" cu impact în economia românească, postdru /89/1.5/S/52432; Domeniul Biotehnologii industriale și medicale; Titlul proiectului: *Identificarea unor biotehnologii de biodegradare a deșeurilor rezultate din industria pielăriei, 2011*

2. Postdoctorat, în cadrul proiectului "Școala Postdoctorală de Biodiversitate Zootehnică și Biotehnologii Alimentare pe Baza Economiei și Bioeconomiei Necesare Ecosanogenezei", Postdru/89/15/S/nr. 63258, 2015-2016, Academia Romana –Institutul Național de Cercetari Economice "Costin Chirișescu" Centrul de Studii și Cercetari pentru Biodiversitate Agrosilvică „Academia David Davidescu”, Titlul proiectului: "Studii postdoctorale privind influența unor parametri chimici asupra ecosanogenezei lacului Snagov"

3. Teza de abilitare - Studii și cercetări privind ingineria mediului și schimbările climatice/ Studies and Researches on Environmental Engineering and Climate Change, 08.04.2019, Atestat de abilitare în domeniul de studii universitare de doctorat de Ingineria Mediului, obținut prin Ordinul de ministru nr 4630/30.07.2019

B. CĂRȚI PUBLICATE

B.1. La edituri internaționale

1. Mircea Stefan, Daniela Simina Stefan, Adriana Bors, Retention of Heavy Metal Ions on the Clays, Lambert Academy Publisher, ISBN 978-613-9-86427-0, 02.07.2018, 104 pages.

2. Daniela Simina Stefan and Cristina Serbanescu, *Plants biosensors for monitoring the heavy metals from urban pollution*, Éditions Universitaires Européennes, ISBN, 978-3-639-56066-4, 92 pag, ianuarie, 2017. <https://www.amazon.com/Plants-biosensors-monitoring-metals-pollution/dp/3639560663>,

3. Daniela Simina Stefan and Mircea Stefan, chapter 2. *Water Stress Induced by Enrichment of Nutrient and Climate Change Factors*, in Environmental Sciences, "Water Stress in Plants", book edited by Ismail Md. Mofizur Rahman, Zinnat Ara Begum and Hiroshi Hasegawa, ISBN 978-953-51-2621-8, IntechOpen Print ISBN 978-953-51-2620-1, 38 pag, Published: August 24, 2016 under CC BY 3.0 license. ©, DOI: 10.5772/64665.

B.2. La edituri naționale

4. Lesnic Mihai, Iuliana Gabriela Pietroreanu, **Daniela Simina Ștefan**, Reabilitarea Sistemelor de alimentare cu apă, Ed Matrix, 291 pag, 2023, ISBN 978-606-25-0818-0
5. Mircea Ștefan, **Daniela Simina Ștefan**, Chimie Analitică- Baze Teoretice, Ed Printech București, 2022, 162 pag, ISBN: 978-606-23-1334-0.
6. Lesnic Mihai, Gabriela Pietroreanu, **Daniela Simina Ștefan**, *Epurarea Convențională și Avansată a Apelor Uzate*, Ed Matrix, 436 pag, 2018.
7. **Daniela Simina Ștefan**, Cristina Serbănescu, *Chimia Mediului, Chimia Geosferei, vol III*, Editura Electra, ISBN General, 978-606-507-066-0, 350 pag., 2013.
8. **Daniela Simina Ștefan**, „*Chimia Mediului, Chimia Atmosferei, vol. II*”, Editura Electra, ISBN General, 978-606-507-066-0, 235 pag, 2012.
9. **Daniela Simina Ștefan**, „*Chimia Mediului, Chimia Mediului acvatic vol I*” Editura Electra, ISBN General, 978-606-507-054-7, ISBN, vol I, 978-606-507-055-4, 229 pag, 2011.
10. Radu Alexandru Macovei, Mircea Ștefan, Maria Cristina Șerban, Cosmin Adrian Șerban, Mihail Silviu Tudose, **Daniela Simina Ștefan**, *Toxicodependența - Impact social. Aspecte Medicale. Consecințe juridice*, Editura PRINTECH, ISBN 978-606-521-347-0, 304 pag., 2009.
11. **Daniela Simina Ștefan**, „*Biochimia Mediului*”, editura POLITEHNICA PRESS, ISBN 978-606-515-030-0, 274 pag, 2009.
12. Mircea Ștefan, **Daniela Simina Ștefan**, Cicerone Nicolae Marinescu, „*Securitatea Mediului și Mediul de Securitate*”, editura PRINTECH, ISBN 978-606-521-041-, 154 pag., 2008.
13. Mircea Ștefan, **Daniela Simina Ștefan**, Andreea Ioana Marinescu, „*Indrumar pentru Realizarea Studiilor de Impact și a Bilanțurilor de Mediu*”, Editura PRINTECH, ISBN 978-973-718-796-6, 180 pag., 2008.
14. Rodica Stănescu, M. Belcu, Cristina Costache, **Daniela Simina Ștefan**, S.Lanyi, I. Constantinescu, „*Dinamica poluanților în mediu*”, Editura PRINTECH, ISBN 973-652-136-2, 234 pag., 2000.

3. Culegeri și Indrumare publicate în edituri cu ISBN

- II. **Daniela Simina Ștefan**, Mihaela Nicolae, Andreea Ioana Marinescu, „*Analize microbiologice pentru caracterizarea apelor*” Indrumar de laborator, Editura POLITEHNICA PRESS, ISBN: 978-973-7838-91-9, 128 pag., 2008.
- II. Mitshuharu Ogaki, Rodica Stănescu –coordonatori – I. Untea, Marilena Pleșca, Annette Madelene Dăncilă, Cristina Michaela Costache, Cristina Modrogan, Oanemari Daniela Butucea, Liliana Bobirică, **Daniela Simina Ștefan**, C. Onose, D. G. Apostol, C. Bobirică, „*Controlul calității mediului*” - *Lucrări practice de laborator*, Editura Cartea Universală, ISBN 973-7956-43-6, 304 pag., 2003.
- III. Rodica Stănescu, **Daniela Simina Ștefan**, A. Drost, G. Apostol, Cristina Costache, I. Constantinescu, „*Protecția calității solului*”- *Indrumar de laborator*, editura PRINTECH, ISBN 973-652-137-0, 100 pag., 2001.

IV.:ARTICOLE/STUDII IN EXTENSO PUBLICATE (R, V):

1.Ris, Reviste de specialitate de circulație internațională recunoscute (cotate/indexate ISI Thomson Reuters sau indexate în alte baze de date internaționale - BDI specifice domeniului care fac un proces de selecție a revistelor pe baza unor criterii de performanță). Se menționează la fiecare lucrare includerea în Baza ISI [ultimul Factor de Impact, ISSN] și/sau denumirea altei(alte baze de date) BDI, ISI proceeding-uri

Articole cotate ISI cu factor de impact

- Ris1.** Zaineb Mchich, **Daniela Simina Ștefan (CA)**, Rachid Mamouni, Nabil Saffaj and Magdalena Bosomoiu, **Eco-Friendly Hydrogel Beads from Seashell Waste for Efficient**

Removal of Heavy Metals from Water, *Polymers* 2024, **16**, 3257. FI=4.7, Q1, <https://doi.org/10.3390/polym16233257>

Ris2.Thaaer Hameed Abed, **Daniela Simina Ștefan(CA)**, Mircea Ștefan; Preliminary Studies of the Laboratory Treatment of Some Underground Waters, *Scientific Bulletin, Seria B, Chemistry and Materials Science*, ISSN 1454-2331, **2024**, **86(1)**, **46-58**, WOS:001196525500004, FI 0.3, Q4.

Ris3. Thaaer Hameed Abed, **Daniela Simina Ștefan(CA)**, Gheorghe Pauna, Mircea Ștefan, **Study Of The Effectiveness of Membrane Aeration Systems on the Removal of Ammonium Ions from Natural Waters**, *Scientific Bulletin, Seria B, Chemistry And Materials Science*, ISSN 1454-2331, **2024**, **86(3)**, **57-66**, FI 0.3, Q4, WOS:001301114000016

Ri4. Thaaer Hameed Abed, **Daniela Simina Ștefan(CA)**, Daniela Cristina Berger, Nicolaie Cicerone Marinescu and Mircea Ștefan, Evaluation of the Performance of Romanian Zeolite, A Sustainable Material, for Removing the Ammonium Ions from Waters, *Sustainability, Special Issue Sustainable Water Management*, 2024, **16(18)**, 7888; <https://doi.org/10.3390/su16187888>, Fi 3.3, Q1,

Ris5. Ana-Maria Nicoleta Codreanu (Manea), **Daniela Simina Ștefan (CA)**, Lidia Kim and Mircea Ștefan, *Depollution of Polymeric Leather Waste by Applying the Most Current Methods of Chromium Extraction*, *Polymers* 2024, **16**, 1546. <https://doi.org/10.3390/polym16111546>, WOS:001246651300001, FI=4.7, Q1.

Ris6 Serban E.A. Ștefan DS.(CA) , Peticila, A.; Rau, I., Bosomoiu, M., *Comparative Study of the Bioaccumulation of Heavy Metals in Lavender Plants*, Sci Bul. Seria B, University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry And Materials Scienc, 2023, **85(4)**, 145-156, Wos:001126670800021, Q4.

Ris7. Charnella Stevine Dibandjo Ndankou, **Daniela Simina Ștefan**, Ndi Julius Nsami, Kouotou Daouda, and Magdalena Bosomoiu, Evaluation of Phenobarbital Adsorption Efficiency on Biosorbents or Activated Carbon Obtained from Adansonia Digitata Shells, *Materials*, 2024, **17(7)**, 1591; WOS:001201218500001, <https://doi.org/10.3390/ma17071591>, Fi=3.1, Q1.

Ris8. Rachid Aziam, **Daniela Simina Ștefan**, Safa Nouaa, Mohamed Chiban and Magdalena Bosomoiu, *Adsorption of Metal Ions from Single and Binary Aqueous Systems on Bio-Nanocomposite, Alginate-Clay*, *Nanomaterials* **2024**, **14**, 362, WOS:001172315500001 Q1, <https://doi.org/10.3390/nano14040362>.

Ris9. Rachid Aziam, **Daniela Simina Ștefan (CA)**, Abdelali Aboussabek, Mohamed Chiban, and Alexa-Maria Croitoru, *Alginate–Moroccan Clay, New Bio-Nanocomposite for Removal of $H_2PO_4^-$, HPO_4^{2-} , and NO_3^- Ions from Aqueous Solutions*, *Polymers* **2023**, **15**, 4666, Q1, FI=4.7, WOS:001137812400001, <https://doi.org/10.3390/polym15244666>,

Ris10. **Daniela Simina Ștefan**, Magdalena Bosomoiu and Georgeta Teodorescu, *The Behavior of Polymeric Pipes in Drinking Water Distribution System—Comparison with Other Pipe Materials*, *Polymers* 2023, **15**, 3872, Q1, FI=4.7, WOS:001119405000001, <https://doi.org/10.3390/polym15193872>,

Ris11 Alina Marilena Dura, **Daniela Simina Ștefan(CA)**, Florentina Laura Chiriac, Roxana Trusca, Adrian Ionut Nicoara and Mircea Ștefan, *Clinoptilolite—A Sustainable Material for the Removal of Bisphenol A from Water*, *Sustainability, Special Issue "Innovative Treatments for Wastewater and Natural Water: Towards a Modern and Sustainable World"*,

2023, 15(17), Q1 (FI=3.9) 13253; <https://doi.org/10.3390/su151713253>, WOS:001060609400001

- Ris12.** Alina Marilena Pahontu(Dura), **Daniela Simina Stefan(CA)**, Florentina Laura Chiriac, Ioan Calinescu, Annette Madelene Dancila and Mircea Stefan, *Enhanced degradation of Bisphenol A via ultrasound assisted by chemical treatment*, *Sustainability*, Special Issue "Innovative Treatments for Wastewater and Natural Water: Towards a Modern and Sustainable World", 2023, 15(17), 13253; WOS:001159286900001, <https://doi.org/10.3390/su151713253>, Q1, FI=3,3
- Ris13.** Carolina Constantin, **Daniela Simina Stefan**, Ana-Maria Manea-Saghin and Irina Meghea, *Innovative collagen based biopolymers tested as fertilizers for poor soils amendment*, 2023, *Polymers* 15(9):2085, Q1, DOI:[10.3390/polym15092085](https://doi.org/10.3390/polym15092085), WOS:000987405900001, Q1, FI=4.7.
- Ris14.** Georgica Pandelea (Voicu), Mirela Florina Calinescu, Ivona Cristina Mazilu, **Daniela Simina Stefan**, and Camelia Ungureanu, *Enhancing Red Currant Berry Quality through Fertilization Compost from Municipal Sludge and from Vegetal Waste*, 2023, *Agronomy*, 3, 1363. ISSN 2073-4395, <https://doi.org/10.3390/agronomy13051363>, WOS:000995075400001, Q1, FI=3,3
- Ris15.** Alina Pahontu (Dura), Magdalena Bosomoiu, Rosana Draganescu **Daniela-Simina Stefan (CA)**, Mircea Stefan, **Preliminary Study Regarding the Influence of BFA on the Some Microorganisms**, *Scientific Bulletin, Seria B, Chemistry And Materials Science*, 2022, 84, ISS. 4.,73-82, FI 0.5, WOS:000897670000006,
- Ris16.** **Daniela Simina Stefan**, Mariana, Popescu, Cristina-Mihaela Luntraru, Alexandru Suci, Mihai Belcu, Viorel Ordeanu, Mihaela Popescu, Petrica Iancu, Mircea Stefan, **"Comparative Study of Useful Compounds Extraction From Lophanthus Anisatus by Distillation and By Supercritical Fluids"**, *Molecules*, 2022, 27(22), FI(4.2) 7737; <https://doi.org/10.3390/molecules27227737> , WOS:000887411900001
- Ris17.** **Daniela Simina Stefan**, Magdalena Bosomoiu And Mircea Stefan, *Methods For Natural And Synthetic Polymers Recovery From Textile Waste*, *Polymers* 2022, 14(16), Fi 4.7, Doi 10.3390/Polym14193939, Wos:000867217500001
- Ris18.** **Daniela Simina Stefan**, Ana-Maria Manea-Saghin, Irene – Eva Triantaphyllidou· Ioanna Tzoumani and Irina Meghea, **Advanced collagen-based composites as fertilizers obtained by recycling leather waste**, *Polymers*, 2022, 14(15), 3169; Fi = 5.0, <https://doi.org/10.3390/polym14153169>, WOS:000839095100001
- Ris19.** **Daniela Simina Stefan**, Magdalena Bosomoiu, Annette Madelene Dancila, and Mircea Stefan, *Review Soil Quality Improvement using Biopolymers from Leather Waste*, *Polymers* 2022, 14(9):1928, doi: 10.3390/polym14091928, FI = 5, WOS:000796166700001
- Ris20.** **Daniela Simina Stefan**, Magdalena Bosomoiu, Rodica Roxana Constantinescu, Madalina Ignat, *Composite Polymers from Leather Waste to Produce*, *Smart Fertilizers*, *Polymers*, 2021, 13(24), 4351. <https://doi.org/10.3390/polym13244351>, FI= 4.1, WOS:000737469500001
- Ris21.** Mircea Stefan, Ioana Stefan, Ioana-Alexandra Negoita, Viorel Ordeanu, and **Daniela Simina Stefan*(CA)**, *Influence of Internal Structure of the Sorbents on Diazepam Sorption from Simulated Intestinal Fluid*, *Applied Sciences*, 2021, 11, 1158, FI= 2,5, <https://doi.org/10.3390/app11031158>, WOS:000614959200001
- Ris22.** Georgica PANDELEA (VOICU), Mirela Florina CALINESCU, Ivona Cristina ENESCU (MAZILU), **Daniela-Simina STEFAN(CA)**, *The Influence of Some Composts on the Growth And Fruiting Processes In The Species Aronia Melanoocarpa (Michx.) Elliot*, *U.P.B. Sci. Bull., Series B*, ISSN 1454-2331, Vol. 83, Iss. 1, 2021, WOS:000627764100009

- Ris23.** Mihai LESNIC, **Daniela Simina ȘTEFAN(CA)**, Ioana Corina MOGA, Mircea ȘTEFAN, *Uncompressive Requirements for Drinking Water Hardness: Conservation Indicators*, **International Journal of Conservation Science**, ISSN 2067-533X, 12(2), 2021, 641-646, WOS:000661881100024
- Ris24.** **Daniela Simina Stefan**, Gabriel Zainescu, Carolina Constantin, Ana-Maria Manea-Saghin, Irene – Eva Triantaphyllidou, Ioanna Tzoumani, Triantafyllos I. Tatoulis, George T. Syriopoulos, Aurelia Meghea, *Collagen-based hydrogels composites from hide waste as smart fertilizers for poor soil amendment*, 2020, **Materials**, 2020 Oct 1;13(19): E4396 DOI: 10.3390/ma13194396, FI 3.1., WOS:000586397600001
- Ris25.** Mircea Stefan, **Daniela Simina Stefan(CA)**, Madalina Hrubaru, Cicerone Marinescu, Ioana Stefan, *Sorption of Phenobarbital and Amobarbital on Na-montmorillonite*, Rev. Chim., 71 (3), 2020, 59-68, <https://doi.org/10.37358/RC.20.3.7974> , WOS:000475860100040
- Ris26.** Ioanna Tzoumani, Georgia Ch. Lainioti, Alexios Aletras, Gabriel Zainescu, **Simina Stefan**, Aurelia Meghea, Joannis K. Kallitsis, *Modification of collagen derivatives with water soluble polymers for the development of cross-linked hydrogel for controlled release*, 2019, **Materials**, 12(24), 4067;FI 3.1, <https://doi.org/10.3390/ma12244067>, WOS:000507308200045
- Ris27.** Sinziana Adina Scarlatescu, Ioana Suciuc, Irina Maria Gheorghiu, Paula Perlea, Bogdan Dimitriu, Lacramioara Daniela Iacomi, Daina Georgeta Lucia, Gratiela G Pircalabioru, Ruxandra Bartok, **Daniela Simina Stefan**, *Comparative analysis of the temporary obturation materials applied to M-O-D cavities in endodontically treated teeth*, Roman. Biotechnol Lett. 2019; 24(2): 280-285, ISSN 2248-3942, FI=0, doi: 10.25083/rbl/24.2/280.285, WOS:000466974000010
- Ris28.** **Daniela Simina Stefan**, Cristina Orbeci, Mircea Stefan, *Optimizing Enzymatic Biodegradation of Skins Waste using Response Surface Methodology*, REV.CHIM.(Bucharest), 70(6), 2019, 0034-7752, WOS:000475860100040, pp 2087-2090
- Ris29.** **Daniela Simina Stefan**, Nicoleta Neacsu, Mircea Stefan, Roxana Sandulovici, Cristina Serbanescu, *Distribution of metals in water, sediments, aquatic plants and fish from Snagov Lake*, Romania, Environmental Engineering and Management Journal, ISSN 1582-9596, 2019, 18(6), ISSN: 1582-9596, pp 1207-1218, FI 0.9, WOS: 000477948700005;
- Ris30.** Cristina Ghițulică, **Simina Ștefan**, Otilia Ruxandra Vasile, Roxana Trușcă, Ionela Andreea Neacșu, Bogdan Ștefan Vasile, *Porous Ceramic Support Embedded with Microorganisms Used in Water Purification*, Revista Română de Materiale / Romanian Journal of Materials 2019, 49 (1), 33 – 41, FI=0.48, WOS:000461413500004
- Ris31.** Mircea Stefan, Adriana Bors, **Daniela Simina Stefan**, Ionut Alexandru Savu Radu, Cicerone Marinescu, *Sorption of Heavy Metal on Natural Clay*, REV.CHIM.(Bucharest), 68, No. 12, 2017, 2804-2807. WOS:000423261900015
- Ris32.** **Daniela Simina Stefan**, Nicoleta Neacsu, Cristina Serbanescu, Luoana Florentina Pascu, Mircea Stefan, *Assessment of heavy metals pollution of Snagov Lake*, Revista de Chimie, ISSN 0034-7752, 2017, 68(2), 233-236, WOS:000397043100004.
- Ris33.** **Daniela Simina Stefan**, Nicoleta Neacsu, Irina Pincovschi, Mircea Stefan, *Water quality and self-purification capacity assessment of Snagov Lake*, Revista de Chimie, ISSN 0034-7752, 2017, 68(1), 60-64, WOS:000395499200014
- Ris34.** Raluca Diodiu, Toma Galaon, Elena Bucur, **Daniela Simina Stefan**, Luoana Florentina Pascu, *Aldehydes, Acetone, Formic and Acetic Acids in Indoor Air of an Building*, Revista de Chimie, ISSN 0034-7752, 2016, 67(12), 2396-2401, WOS:000393230400003
- Ris35.** **Daniela Simina Stefan**, Rodica Roxana Constantinescu, Aurelia Meghea, Rodica Anghel, Mircea Stefan, Mihail Silviu Tudosie, *Obtaining of Biofertilisers Using Pelt Skin*

- Wastes*, Revista de Chimie, ISSN 0034-7752, 2016, 67(7), 1401-1405, WOS:000385513000035.
- Ris36.** M. Belcu, **Daniela Simina Stefan, (CA)**, M. Stefan, I. Untea & Annette Madelene Dancila, *Climate change: some insights from mean surface temperature statistics*, International Journal of Sustainable Development & World Ecology, Volume 22, Issue 5, 2015, pages 437-444, DOI: 10.1080/13504509.2015.1084065, FI 6.5, WOS:000361463600007.
- Ris37.** **Daniela - Simina Stefan**, Jacobus Frederick van Staden, Eugeniu Vasile, Otilia - Ruxandra Vasile and Madelene Dancila, *Influence of Sulfates and Nitrates Uptake, From Aqueous Solutions on Purolite A 520 E Surface Exchange*, Comptes Rendus Chimie, ISSN: 1631-0748, 2014, Volume 17, Issue 7, pg. 738-745, FI 1.2, DOI 10.1016/j.crci.2014.01.005, WOS:000342037400019.
- Ris38.** **Daniela Simina Stefan**, Irina Meghea, *Mechanism of Simultaneous Removal of Ca^{2+} , Ni^{2+} , Pb^{2+} and Al^{3+} Ions from Aqueous Solutions Using S 930 Ion Exchange Resin*, Comptes Rendus Chimie, ISSN: 1631-0748, 2014, 17(5), pp 496-502, DOI 10.1016/j.cric.2013.09.010, FI 1.2, WOS: 000335290700014.
- Ris39.** Mirela Pantazi, **Daniela Simina Stefan (CA)**, Roxana Constantinescu, Rodica Anghel, Aurelia Meghea, Ana Maria Vasilescu, *A comparative study of the enzymatic biodegradation of synthetic and tanned leather wastes with chromium and natural tannin*, Revista de Chimie, ISSN 0034-7752, 65(2), 2014, pp. 233-236, WOS: 000333577400023.
- Ris40.** Irina Pincovschi, **Daniela Simina Stefan: (CA)**, *Effect of temperature and sulphur dioxide partial pressure on natural water pollution*, Revista de Chimie, ISSN 0034-7752, 64(9), 2013, pp. 1021-1023, WOS:000326855900020.
- Ris41.** **Daniela Simina Stefan**, Irina Pincovschi, *Adsorption of Chlorinated Phenolic Derivates from Wastewater Using Active Carbon*, Revista de Chimie, ISSN 0034-7752, 64(11), 2013, pp. 1207-1210, WOS:000330914400003.
- Ris42.** **Daniela Simina Stefan**, Irina Pincovschi, *Adsorption of phenol and its chlorinated derivatives from waste waters using hypercrosslinked polymers*, Revista de Chimie, ISSN 0034-7752, 64(12), 2013, pp. 1381-1384, WOS:000328441600001.
- Ris43.** Mihail Silviu Tudosie, Rucsandra Dănciulescu Miulescu, V. Negulescu, Mihai Ionică, **Simina Daniela Stefan**, George Corlan, R. Macovei, *Evaluation and Modeling of pharmacokinetics of Copper Ion During Hemodialysis*, Farmacia, FI=1.4, ISSN 0014-8237, 61(1), 2013, pp.53-65, WOS:000315306500006.
- Ris44.** **Daniela Simina Stefan**, Romulus Dima, Mirela Pantazi, Mariana Ferdes and Aurelia Meghea, *Identifying Microorganisms Able to Perform Biodegradation of Leather Industry Waste*, Molecular Crystals and Liquid Crystals, ISSN: 1542-1406, 555(1), 2012, pp.301-308, DOI:10.1080/15421406.2012.635983, FI=0.7, WOS:000302301500025.
- Ris45** Maria Mihaly, Gabriela Nicolae, **Daniela Simina Ștefan**, Aurelia Meghea, *Transfer and Translocation of Polycyclic Aromatic Hydrocarbons within some Aquaculture Biosystems in Romania*, Revista de Chimie, ISSN 0034-7752, 61(11), 2010, pp. 1009-1016, WOS:000286571600001.
- Ris46.** Cristina Orbeci, Ion Untea, Madelene Dancila, **Daniela Simina Stefan**, *Kinetics considerations concerning the oxidative degradation by Photo-Fenton process of some antibiotics*, Environmental Engineering and Management Journal, ISSN 1582-9596, 9(1), 2010, pp 1-5, FI=0.9, WOS:000275701800001.
- Ris47.** **Daniela Simina Stefan**, Mihai Belcu, Mircea Stefan and Ioana Andreea Marinescu, *Sorption of Hg^{2+} and Pb^{2+} ions from aqueous solutions on corn cobs biomaterials. Study of*

- sorption equilibrium of Hg²⁺ and Pb²⁺ cations on corn cob*, Revista de chimie, ISSN 0034-7752, 61(1), 2010, pp 31-35, WOS:000275350200008.
- Ris48. Daniela Simina Stefan**, Cristina Costache, Viorica Ruxandu, Monica Balas, Mircea Stefan, *Comparative study on surface water treatment using as coagulant aluminium sulphate and polyaluminium chlorides as coagulants*, Environmental Engineering and Management Journal, ISSN 1582-9596, 8(4), 2009, pp 859-863, FI=0.9, WOS:000269811500039.
- Ris49.** Mircea Stefan, **Daniela Simina Stefan(CA)**, *Study of Cadmium sorption on Na-Montmorillonite*, Revista de chimie, ISSN 0034-7752, 60(11),2009, pp 1169-1174, WOS:000273802400013.
- Ris50. Daniela Simina Ștefan**, Anca-Ileana Penu, Mircea Ștefan, *Treatment and management of distillery fermented fruit spent marc. I. Processing into compacted solid*, Environmental Engineering and Management Journal, ISSN 1582-9596, 8(2), 2009, pp 273-276, FI=0.9, WOS: 000285523600013.
- Ris51. Daniela Simina Ștefan**, Mircea Ștefan, Anca-Ileana Penu, *Treatment and management of distillery fermented fruit spent marc. II. Processing into composting*, Environmental Engineering and Management Journal, ISSN 1582-9596, 8(3), 2009, pp. 595-599, FI=0.9, WOS:000267917400033.
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Rno2. M. Ștefan, Daniela Simina Ștefan, D.I. Văireanu, “Kinetics of heavy metals sorption on Na-montmorillonite”, Science and Technology of Environmental Protection, ISSN 1221-6909, 12(2), 2005, pp. 64-77.

Rno3. M. Ștefan, **Daniela Simina Ștefan**, R. Popescu, “*Echilibrium of heavy metals sorption on Na-Montmorillonite*“, Science and Tehnology of Environmental Protection, ISSN 1221-6909, 11(1), 2004, pp 71-80.

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3.Vi, Articole publicate in volumele unor manifestări științifice internaționale recunoscute (cu ISSN sau ISBN) din țară și din străinătate

Vi1 Ecaterina Anca Serban, **Daniela Simina Ștefan**, Ileana Rau, Annette Madelene Dancila, Adrian Peticila, Gabriela Geanina Vasile, Anda Tenea, **The Influence of Environmental Pollution on the Quality of Lavender,**”, *E-SIMI 2022, BOOK OF ABSTRACTS*, DOI: <http://doi.org/10.21698/simi.2022.ab34>

Vi2. **Daniela Simina Ștefan**, Lesnic Mihai, Magdalena Bosomoiu, Adrian Peticila, Mircea Ștefan, Florica Stoica, *Nouvelles perspectives européennes dans le traitement de l'eau, Séminaire d'étude: L'eau, l'énergie et l'électrification dans les pays en développement, CLICHY les 9 et 10 novembre 2021, Assemblée des directeurs d'IUT*

Vi3. Constantinescu R. R., Zainescu G., **Ștefan D. S.**, Meghea A., Sirbu C, Voicu P. „*Research on Obtaining Nutritional Substrates from Protein Biocomposites*“, ICAMS 2014, The 5th International Conference on Advanced Materials and Systems, Bucharest, Romania, 23-25 octombrie, 2014, publicat in volumul conferinței la capitolul Biomaterials, pag. 177-183.

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Vi5. Ganea Ancuta, Neacsu Nicoleta, **Ștefan Daniela Simina**, *Selectivity of S 930 ion exchange resin regarding Ca^{2+} and Ni^{2+} ions from aqueous solutions*, International Symposium: The Environmental and Industry” –SIMI, National Research and Development Institute of Industrial ecology, INCD ECOIND, Bucuresti, 15-19 noiembrie 2011, ISSN 1843-5831, vol 1, pag. 275-281.

Vi6. Ilioiu Raluca, **Ștefan Daniela Simina**, *Study of influence of Carbon/Nitrogen ration on Compost of cellulosic waste*, International Symposium: The Environmental and Industry” – SIMI, National Research and Development Institute of Industrial Ecology, INCD ECOIND, Bucuresti, 15-19 noiembrie 2011, ISSN 1843-5831, vol 1, pag 229-235.

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Vi9. **Daniela Simina Ștefan**, Cristina Costache, Mihai Belcu, Aurelia Meghea, „*The study of biodegradability of some plastic packages from romanian market*”, 16th Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, România, 9-12 Septembrie 2009, în cadrul Workshop Development of strategic academia-industry partnership for Knowledge management in environmental friendly technologies, ISSN: 2066-8341, pp 45-51.

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- Vi17. Daniela Simina Ștefan**, M Ștefan, Cristina Costache, Rodica Stănescu, “*Removal of Heavy Metals ions from Wastewaters of Natural Cellulosic Waste*”, 13th Romanian International Conference on Chemistry and Chemical Engineering, București, România, Septembrie **2003**, pp. 48-53.
- Vi18. M. Ștefan, Daniela Simina Ștefan**, Liliana Bobirică, “*Effect of Interlayer Cation on Metals Cation Sorption to Clay from Waste Water*”, 13th Romanian International Conference on Chemistry and Chemical Engineering, București, România, Septembrie **2003**, pp.152-157.
- Vi19. Daniela Simina Ștefan**, Cristina Lăzăroiu, Cristina Costache, I. Constantinescu, Rodica Stănescu, “*Preliminary test of Sorption Properties of Natural Cellulosic Wastes for Heavy Metals Removal from Waters*”, 12th Romanian International Conference on Chemistry and Chemical Engineering (RICEE), București, România, Septembrie **2001**, pp 250-256.
- Vi20. A. Drost, G. Apostol, Ruxandra Govoreanu, Daniela Simina Ștefan**, Rodica Stănescu, Cristina Costache, Sz. Lanyi, I. Constantinescu “*Potassium Ion Dynamics in Sandy Soils*” 11th Romanian International Conference on Chemistry and Chemical Engineering, București, Septembrie **1999**, România, pp 95-100.
- Vi21. Ruxandra Govoreanu, G. Apostol, Daniela Simina Ștefan**, Cristina Costache, Rodica Stănescu, Sz. Lanyi, I. Constantinescu “*Studiul optimizării procesului de coagulare floclare pe baza unor modele empirice*” 11th Romanian International Conference on Chemistry and Chemical Engineering (RICEE), București, Septembrie **1999**, România, pp 115-120.

V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

B. - Brevete de invenție acordate

B1. Daniela Simina Stefan, Mihai Popescu, Mircea Stefan, Mihaela Oprescu, Brevet invenție, RO 131972 B1 -2017-06-30, Instalatie pentru obtinerea biogazului, Plant for Biogas Production, data depunerii cererii 15.02.2017, data acordarii brevetului 28.10.2022.

B.- Cereri de brevete de invenție

B2 Daniela-Simina Stefan, Mihai Lesnic, Corina Moga, Mircea Stefan, Gabriel Petrescu, Brevet Invenție, A/00467/06.08.2021, Tehnologie și Instalatie de Tratare a Apei,

B3 Daniela-Simina Stefan, Mihai Lesnic, Corina Moga, Mircea Stefan, Gabriel Petrescu, Brevet Invenție, A/00367/25.06.2021, Instalatie de Aerare a Apei cu Dispozitiv de Dispersie cu Taler Reglabil.

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P, E)

1. Proiecte de cercetare-dezvoltare-inovare obtinute prin competitie, pe bază de contract/grant în țara în calitate de responsabil (Pna.i) și elaborator (Pnb.i)

Pnb1. *Echipament performant pentru dezinfectia ecologică a apelor*”, prin contractul de finanțare nr. 6PTE (CAMP 2501) între I.C.P.E. BISTRITA S.A. și Universitatea Națională de Știință și Tehnologie POLITEHNICA București, PN-IV-P7-7.1-PTE-2024-0106, **Program 5.7 - Parteneriate pentru Inovare**, Proiect de transfer la operatorul economic - Competiția 2024, Responsabil de proiect .

Pnb2*Oportunitati de dezvoltare profesionala in cadrul procesului educational din Facultatea de Chimie Aplicata si Stiinta Materialelor-ODECHIM –ROSE, AG 148 / SGU / NC / II / 10.09.2019, 2019-2022, in calitate de tutore-cadru didactic*

Pnb3. *Sustinerea cresterii capacitatii institutionale de cercetare a Universitatii Politehnica*

Bucuresti, CRESCDI, 25PFE/17.10.2018, 2018-2020, in calitate de expert colectare date CDI.

Pnb4. *ECO-Nanotehnologii de epurare a apelor si valorificarea deșeurilor*”, A1 - A1.2.3. - G – 2015-2021, Parteneriate cu Transfer de Cunoștințe, Program Operațional Competitivitate (POC), Parteneri: UPB, DFR Systems, 2015-2020, CONTRACT TIP D Nr. 7223/27.05.2020, responsabil de proiect.

Pnb5. *ECO-Nanotehnologii de epurare a apelor si valorificarea deșeurilor*”, A1 - A1.2.3. - G – 2015-2021, Parteneriate cu Transfer de Cunoștințe, Program Operațional Competitivitate (POC), Parteneri: UPB, ECOAQUA SA, 2015-2020, SMIS: 105558, CONTRACT TIP C. Nr. 4070/09.03.2018, responsabil de proiect.

Pnb6. *ECO-Nanotehnologii de epurare a apelor si valorificarea deșeurilor*”, A1 - A1.2.3. - G – 2015-2021, Parteneriate cu Transfer de Cunoștințe, Program Operațional Competitivitate (POC), Parteneri: UPB, ECOAQUA SA, 2015-2020, ID: P_40_253; SMIS: 105558, Proiect de tip A, Membru in echipa de lucru

Pnb7 *Collagen-based composites obtained by pelt waste processing for smart biofertilizers*, AGRO-SMARTGEL, INCOMERA, Parteneri: UPB, S.C. PIELOREX SA – Jilava-Ilfov , INCDTP, *FORTH/ICE-HT* – Patras, SIRMET S.A. ,Grecia 2018-2010, membru in echipa de lucru;

Pnb8. *ECO-Nanotehnologie integrata pentru indepartarea colorantilor din ape reziduale*, PN3-P3-301/02.05.2017, 2017-2019, membru in echipa de lucru

Pnb9. "Biotehnologii aplicate" cu impact in economia romaneasca-postdru /89/1.5/S/52432; **Domeniul Biotehnologii industriale și medicale**, expert pe termen scurt, **expert pe termen scurt**, ETS, 2012-2013.

Pnb10. Sistem suport Tehnico-Decizional pentru Managementul Durabil al Apei, PNC Dezvoltare –Inovare II, Nr. 32125/2008, Universitatea Tehnica "Gh. Asachi - coordonator, Iași, UP București, UP Timișoara, Universitatea Transilvania Brașov, **membru echipă**.

Pnb11. Tehnologie avansata de diminuare a pulberilor (inclusiv nanoparticule) existente in termocentrale in vederea reducerii riscului la expuneri profesionale si a imbunatatirii sanatatii si sigurantei la locurile de munca - NANOHEALTH, PN II Nr. 22-090/2008, UPB – coordonator, Filiala Inst. de Cercetari si Modernizari Energetice - ICEMENERG Bucuresti – Partener, Inst. Nat. de Cercetare Dezv. pentru Fizica Laserilor, Plasmei si Radiatie, Inst. Nat. de Cercetare Dezv. in Domeniul Patologiei si Stiintelor Biomedicale V. Babes, S.C. Electrocentrale Deva S.A., **membru echipă**.

Pnb12. Sechestrarea CO₂ prin legare chimica in compusi minerali utili in scopul reducerii emisiilor de gaze cu efect de sera, PN II -PROGRAMUL 4, Nr. 22116 /2008 – SQCARBMIN, Universitatea București- coordonator de proiect, UPB, **membru echipă**.

Pnb13. Evaluarea a condițiilor de producție din fermele românești de acvacultură în sistemul de siguranță alimentară prin abordarea principiilor HACCP, Acronim: CIPRINAQUASIG, Nr. t: 51-0742007, Perioada de derulare: 2007-2011 Parteneri: UPB, Fac Dunarea de Jos si Universitatea de ingineria Mediului Iasi, **membru echipă**.

Pnb14. Sisteme fotocatalitice complexe pentru epurarea avansata a apelor rezultate din industria textila, Acronim: FOTOCOMPLEX, Nr. contract: 71-047/2007, Perioada de derulare: 2007-2011, **membru echipă**.

2. Alte lucrari de cercetare/dezvoltare în calitate de responsabil/director (Fa.i) si elaborator (Fb.i)

Fa1 " Servicii de consultanță externă în ape uzate, pentru elaborarea de liste de valori limită de emisie pentru activitățile industriale și agro-zootehnice din România", Beneficiar Final Ministerul Mediului, Apelor și Pădurilor, Partener **Ramboll South East Europe S.R.L** ,**membru in echipa de lucru**

Fa2. Instruire cu privire la tematica: Tehnologii si Materiale Noi in Sistemele de Alimentare cu Apă ale Centrelor Populate, Contract de Prestari Servicii nr. 1571 din data 04.10.2021, numar intern UPB: T-CH 432101, **director proiect**

Fa3 Eficientizare statii de tratare ape - Contractul cu terti, nr. **11014 / 08.07.2019/nr.intern UPB : T-CH 43.19.01, RAJA CONSTANTA, director proiect**

Fa4. Evaluarea factorilor care determina corodarea de incalzire din aluminiu" Contract CH 370604/19.12 2006, 2007, **director proiect**,

Fa5. "Verificarea calitații apei la intrarea și ieșirea din instalații de încălzire", Contract CH 37050/21.01 2005; 2005-2006; **director proiect**

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- Fb3.** *“Municipal Solid/Industrial Waste Management”*, în cadrul “Romania-Italy Cooperation in the Field of Environmental Protection and Sustainable Development Bucharest - Ilfov County”, **Daniela Simina Stefan**-membru în colectivul de lucru, realizat cu participarea Ministerului Mediului si Dezvoltarii Durabile –Romania, reprezentat de Agenția Regională pentru Protectia Mediului(ARPM) în calitate de coordonator proiect din partea României și Ministerul Ambientului, Teritoriului si Marii din Italia, reprezentat prin GLEN- Global Environment-Italia, proiect Finantat de Guvernul Italiei, 2007-2009; **membru echipă.**
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- Fb7.** Rodica Stănescu- director, **Daniela Simina Ștefan**-*“Coeficienți de dispersie /difuzie în apele subterane”*. Contract nr. 43-20-17/2003 (ICIM A15), 2003, coautor,
- Fb8.** *“Problem based learning through Science Shops in Romania”* – Proiect Matra (international) finantat de Ministerul de Externe al Olandei, 2002-2005, **membru echipă.**
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- Fb10.** *Caracterizarea evoluției spațio- temporale a calității apelor subterane din aria conului aluvionar Mureș și a tendințelor pe termen scurt și mediu”*, Contract nr. 43-20- 06/2002 (ICIM A6). 2002, **membru echipă.**
- Fb11.** *„Studiul privind controlul proceselor de epurare de tip aerob-anaerob”*, ICIM, Contract nr. 43-99-18/1999, 1999 – 2000, **membru echipă.**

Contracte cu Terti in ca si inginer proiectant cadrul IPROCHIM SA

1. **Raport la Bilanț de mediu nivel II, Ferma zootehnica S.C. PRESMAR S.R.L, Complex Tămădău Mare, beneficiar PRESMAR S.R.L, in calitate de elaborator lucrare, 2012;**
2. **Studiu de fezabilitate - Realizarea instalatiei de epurare ape menajere – Uzina Ișalnița, beneficiar, Complex Energetic Oltenia S.A, in calitate de tehnolog, 2012;**
3. **Memoriu de prezentare pentru Dezafectare/Demontare instalație de acid sulfuric de pe platforma S.C. Amurco S.R.L. Bacău, beneficiar Amurco S.R.L. Bacău, in calitate de elaborator de lucrare, 2012;**
4. **Documentație dezafectare/demolare Reper 2. Clădiri, Reper 2.3. Documentatie pentru obtinerea acordului de mediu, OMV PETROM S.A. Business Division Chemicals (DOLJCHIM), in calitate de elaborator de lucrare, 2012;**
5. **Analiza comparativă a instalațiilor existente la JACKMORIS DISTRIBUTION S.R.L, La Tararo SRL, EURO CHICKEN SRL cu cele mai bune tehnici disponibile (BAT) în domeniul creșterii intensive a păsărilor, beneficiari: JACKMORIS DISTRIBUTION S.R.L, La Tararo SRL, EURO CHICKEN SRL, in calitatea de elaborator de lucrare, 2013;**
6. **Studiu de fezabilitate – Realizarea unei instalatii de biogaz de capacitate 100 mc biogaz/zi, beneficiar IPROCHIM SA, in calitate de tehnolog, 2015;**

7. *Studiu de fezabilitate – Realizarea unei instalatii de biogaz cu capacitatea de 450mc biogaz /zi cu cogenerare, beneficiar IPROCHIM SA, in calitate de tehnolog, 2015;*
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VII. Comunicări științifice nepublicate conferințe E. Lucrări prezentate la diferite seminarii /expoziții, conferințe, etc.

- E1.** Daniela Simina Stefan, Thaaer Hameed Abed, Magdalena Bosomoiu, Mircea Stefan, **Leather waste valorisation for the obtaining of smart fertilizers**, 22nd Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, ROMANIA - September 7 – 9, 2022.
- E2.** Thaaer Hamed Abed, **Daniela Simina Stefan**, Mircea Stefan, **Hydrogen sulphide, ammonium, and organic compounds removal from natural water**, 22nd Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, ROMANIA - September 7 – 9, 2022.
- E3.** Ecaterina Anca Serban, **Daniela Simina Stefan**, Ileana Rau, Adrian Peticila, Annette Madelene Dancila **Retention of Cd, Pb and Zn metal ions on lavender by biosorption**, 22nd Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, ROMANIA - September 7 – 9, 2022.
- E4.** Georgica PANDELEA (VOICU), Mirela Florina CALINESCU, Ivona Cristina ENESCU (MAZILU), Camelia UNGUREANU, **Daniela-Simina STEFAN**, **Influence of Fertilization with Different Doses Composts on Soil Agrochemical Indicators, after Two Years from Application in the Aronia Plantation in the Field**, 22nd Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, ROMANIA - September 7 – 9, 2022.
- E5.** Alina Dura (Pahontu), **Daniela Simina Stefan**, Rosana Draganescu, Mircea Stefan **Bisfenol A removal from water by different methods**, 22nd Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, ROMANIA - September 7 – 9., 2022
- E6.** Ecaterina Anca Serban, **Daniela Simina Stefan**, Ileana Rau, Annette Madelene Dancila¹, Adrian Peticila³, Gabriela Geanina Vasile², Anda Tenea: **THE INFLUENCE OF ENVIRONMENTAL POLLUTION ON THE QUALITY OF LAVENDER, INTERNATIONAL SYMPOSIUM “THE ENVIRONMENT AND THE INDUSTRY”, SIMI 2022**, Bucharest
- E7.** Ecaterina Anca Serban, Gabriela-Geanina Vasile, Cristina Dinu, Anda-Gabriela Tenea, **Daniela Simina Stefan**, Ileana Rau, **Ultrasensitive method for quantification of tin in water samples using new HG-ICP-EOS equipment**, International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences IC-ANMBES 2022 BOOK OF ABSTRACTS Braşov, 8 th -10th June, 2022
- E8.** Alina DURA (PAHONTU), **Daniela Simina STEFAN**, Mircea STEFAN, Adsorption and degradation methods of Bisphenol A, SICHEM, Bucuresti, 2022

- E9.** Ecaterina Anca ȘERBAN, **Daniela Simina ȘTEFAN**, Ileana RĂU, Magdalena BOSOMOIU, Adrian PETICILĂ, Annette Madelene DĂNCILĂ - The study on the influence of some parameters on the biosorption of heavy metal ions on lavender, , SICHEM, Bucuresti, 2022
- E10.** Georgica VOICU, **Daniela Simina ȘTEFAN**, Camelia UNGUREANU, Mihaela PARASCHIV, Ivona Cristina ENESCU (MAZILU), Mirela Florina CĂLINESCU - *The influence of compost fertilization on Aronia fruit quality* SICHEM, Bucuresti, 2022
- E11.** Georgica Pandelea (Voicu), Mirela Călinescu, Ivona Enescu (Mazilu), Simina Daniela Ștefan, Camelia Ungureanu, **Influence of Two Different Origin Composts on Aronia Melanocarpa and Ribes Rubrum Crop Performance**, 14th International Scientific Symposium 2021, Current Trends In Natural Sciences, **28 – 30 May, Pitesti, Romania, 2021**, <https://natsci.upit.ro/international-symposium/>
- E12.** Alina Pahonțu, Rosana Draganescu, **Daniela Simina Stefan**· **The influence of Bisphenol A on environment life**, 14th International Scientific Symposium 2021, Current Trends in Natural Sciences, **28 – 30 May, Pitesti, Romania, 2021**, <https://natsci.upit.ro/international-symposium/>
- E13.** Georgica PANDELEA (VOICU), **Daniela-Simina ȘTEFAN**, Mirela Florina CALINESCU, Ivona Cristina ENESCU (MAZILU), Camelia UNGUREANU, The Benefits of Applying Compost in Agriculture as *Aronia* Crops Fertilizer, International Symposium PRIOCHEM, “Priorities of Chemistry for a Sustainable Development” October 27-29, 2021, Bucharest, Romania
- E14.** **Daniela Simina Stefan**, Lesnic Mihai, Magdalena Bosomoiu, Adrian Peticila, Mircea Stefan, Florica Stoica· Nouvelles perspectives européennes dans le traitement de l'eau, Séminaire d'étude : L'eau, l'énergie et l'électrification dans les pays en développement, *CLICHY les 9 et 10 novembre 2021, Assemblée des directeurs d'IUT*
- E15.** Ioana Corina MOGA, **Simina Daniela ȘTEFAN**, Mihai LESNIC, Gheorghe PĂUNA, Mircea ȘTEFAN, Alexandru DATCU-MANEA, Andreea Maria MONEA, Gabriel PETRESCU, **Water treatment plant for small domestic applications**, The 13th Edition of Euroinvent, 2021, European Exhibition of Creativity and Innovation, Gold Medal
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- E19.** Ionul Alexandru Savu Radu, **Daniela Simina Stefan**, Vasile Lavric, Mircea Stefan, Comparative Study of the Performance of Adsorbents, Used in Water and Wastewater

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- E26. Daniela Simina Ștefan**, Augustin Ofițeru, Nicolae Sdrula, Corneliu Craiu, *Integration of Biogas Plants Into Existing Energetic Flux Turning in Account Local Bio-Waste Resources*, RoEnergy, Bucharest, 05-11.May 2018
- E27. Daniela Simina Ștefan**, Cristina Orbeci, Maria Mihaly, Mircea Stefan, *Methods to Removal of Hydrogen Sulfide, Ammonium, Manganese, and Iron from Natural Water*, 20th RICCCE, 6-9 september, 2017 Poiana Brasov, Romania, poster
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- E32. Daniela Simina Stefan**, Mircea Stefan, Cristina Orbeci, Nicolae Sdrula, Cristina Serbanescu, *Carbon dioxide stored in trees a simple way to reducing greenhouse*, the XXXIVth Romanian Chemistry Conference, 04 -07 October, 2016, Caciulata, Valcea, Romania, comunicare orală

- E33. Cristina Șerbănescu, Aurelia-Mihaela Oprescu, **Daniela-Simina Ștefan**, Mădălina Hrubaru, *Major technologies for essential oil lavender: a short comparative overview*, SICHEM, 8 - 9 September, 2016, Bucharest, Romania, poster
- E34. **Daniela Simina Ștefan**, Nicolae Sdrula, Cristina Orbeci, Cristina Șerbănescu, *Biogas from algae a new perspective to reducing the natural water pollution and reducing exhausted greenhouses*, SICHEM, 8 - 9 September, 2016, Bucharest, Romania, comunicare orală;
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- E36. Cristina ORBECI, **Daniela Simina ȘTEFAN**, Annette Madelene DĂNCILĂ, *Removal of antibiotics from wastewater using photocatalytic membranes*, Advances on Photocatalysis ADVPhotoCat 2015, International Workshop 1st Edition, July 6-8 Iasi, Romania, comunicare orală;
- E37. Cristina Orbeci, Cristina Modrogan, Annette Madelene Dancilă, **Daniela Simina Ștefan**, *Degradation of Organic Compounds from Industrial Pharmaceutical Effluent Through Advanced Oxidation Processes*, Advances on Photocatalysis ADVPhotoCat 2015, International Workshop 1st Edition, July 6-8 Iasi, Romania, Poster
- E38. Cristina Orbeci, **Daniela Simina Ștefan**, *Hybrid Membrane For Wastewater Treatment*, RICCE – Sibiu 3-5 septembrie, 2015, topics Monitoring & Environmental Protection, poster
- E39. Aurelia Meghea, **Simina Ștefan**, Irina Meghea, Adriana Borș, *Strategies For Smart Management Of Water And Their National Territorial Impact For 2014-2020 Period*, EcoProWater 2015 (International Conference on Ecology and Protection of Marine and Freshwater Environments), Ediția I, 2015, 1-3 Octombrie 2015, Viterbo, Bena, Italia. comunicare orală;
- E40. Nicolae Sdrula, **Daniela Simina Ștefan**, *The biogas – a renewable source of energy- Challenges and perspectives in Romania*, PRIOCHEM 2015 (Prioritățile Chimiei pentru o Dezvoltare Durabilă), Ediția a XI-a, 29-30 Octombrie 2015, București, comunicare orală;
- E41. Nicolae Sdrula, **Daniela Simina Ștefan**, *Aspects of producing and utilization of biogas and biomethane in Romania*, Romania Gas Conference 2015, Ediția a VII-a, 11-12 Noiembrie 2015, București, JW Marriott Bucharest Grand Hotel, comunicare orală;
- E42. Nicolae Sdrula, **Daniela Simina Ștefan**, *“Modele integrate de management al surselor de energie regenerabilă pentru zonele rurale din România”*, RENEXPO® South East Europe 2015, 17-18 Noiembrie 2015, a VII-a Conferință Internațională „Bioenergia în România”, 17 Noiembrie 2015, București, Sala Palatului, comunicare orală.
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- E45. Nicolae Sdrula, **Simina Ștefan**, Mihaela Oprescu, Cristina Șerbănescu, *“Biogazul – o sursă alternativă, promițătoare și nepoluantă de producere energie”*, A XXXIII-a Conferință Națională de Chimie, 1-3 Octombrie, Călimănești-Căciulata, Vâlcea, 2014, comunicare orală;

- E46.** Nicolae Sdrula, **Daniela Simina Ștefan**, *The biogas – a smart prospective solution for renewable energy and environmental protection*, AQUALIRES 2014, 17-18 Ianuarie, INCDPDM, București, comunicare orală;
- E47.** Constantinescu R. R., Zainescu G., **Ștefan D. S.**, Meghea A., Sirbu C, Voicu P. „*Research On Obtaining Nutritional Substrates From Protein Biocomposites*”, Icams 2014, The 5th International Conference on Advanced Materials and Systems, Bucharest, Romania, 23-25 Octombrie, 2014, comunicare orală.
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- E49.** Nicolae Sdrula, **Daniela Simina Ștefan**, Ioan Frășineanu, *Valorization of marine and on shore sources of biomass and wastes for biogas production*, Black Sea 4th Bi-annual Scientific Conference, 28 – 31.10.2013, comunicare orală.
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- E52.** Nicolae Sdrula, Vasile Nikolic, Augustin Ofiteru, **Daniela Simina Ștefan**, *ABR's approach on current and prospective situation in Romania for waste biomass and related*, RENEXPO – Fair for renewable energies – , Bucharest, 21 – 23.11. 2013, comunicare orală.
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- E54.** Ganea Ancuta, Neacsu Nicoleta, **Ștefan Daniela Simina**, *Selectivity of S 930 ion exchange resin regarding Ca^{2+} and Ni^{2+} ions from aqueous solutions*, International Symposium: *The Environmental and Industry*” –SIMI, National Research and Development Institute of Industrial ecology, INCD ECOIND, Bucuresti, 15-19 noiembrie 2011, poster.
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- E60. Daniela Simina Ștefan**, Dumitru Turtoi, Anca Ileana-Penu, Cristina Costache, Cicerone Marinescu, „*The Study of Sawdust and Mark Fruits Biomass Using (capitalisation) by Briquetting*”, International Symposium: The Environmental and Industry” –SIMI-, Bucuresti 28-30 octombrie 2009, poster.
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- E62. I. Untea, Simina Ștefan, M Ștefan, Violeta Neagu, Cornelia Luca**, „*Hg²⁺ from aqueous solutions by sorption on new amide functionalized copolymers. Thermodynamic and kinetics experimental data*”, In Recent Advances in Ion Exchange and Practice, Proceedings of IEX 2008 by Society of Chemical Industry (SCI), World Headquarters, 14/15 Belgrave Square, LONDON, SW1X 8PS, prezentare orală.
- E63. Daniela Simina Ștefan**, Rusu Neguta, Bona Radu, Mircea Ștefan, „*Study of Diesel Oil Sorption On natural and Synthetical Sorbents*”, International Symposium: The Environmental and Industry” –SIMI-, Bucuresti 25-27 octombrie 2007, poster.
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