

UNIVERSITATEA TEHNICĂ „GHEORGHE ASACHI” DIN IAȘI
FACULTATEA DE INGINERIE CHIMICĂ ȘI PROTECȚIA MEDIULUI ”Cristofor Simionescu”
DEPARTAMENTUL: INGINERIE CHIMICĂ

Lista de lucrări în domeniul de studii universitare de licență / master
INGINERIE CHIMICĂ
Conferențiar univ. dr. ing. Liliana LAZĂR

Programe de studii:

Licență: Ingineria Substanțelor Anorganice și Protecția Mediului (ISAPM)

Inginerie Chimică (IC)

Discipline:

Ingineria proceselor chimice (DI-DS / ISAPM + IC)
Ingineria proceselor electrochimice (DI-DS / ISAPM)
Ingineria produselor anorganice, 1 (DI-DS / ISAPM)
Cataliză și tehnologii catalitice în industria chimică (DO-DS1 / ISAPM)
(sau) Tehnologii de reducere a poluării în industria chimică (DO-DS2 / ISAPM)

Master: Ingineria Procedeelor Nepoluante (IPN)

Discipline:

Procedee catalitice eterogene (ISAPM + IC)
Procedee electrochimice (ISAPM)
Protecție anticorrosivă și decorativă (ISAPM)

Teza de doctorat

Titlul tezei	Purificarea aerului de compuși organici volatili
Instituție	Universitatea Tehnică ”Gheorghe Asachi” din Iași (TUIASI)
Domeniu	Inginerie chimică
Perioada	01.11.1998 – 20.10.2006
Conducător științific	Prof. univ. dr.ing. Ion Balasanian
Data susținerii publice	20.10.2006
Titlul științific	Doctor (conform Ordinului M.E.C. nr. 632 /21.03.2007)
Diploma:	Diplomă de DOCTOR (seria E nr. 0001021, eliberată de TUIASI cu nr. 933/23.04.2007)

Cărți & Capitoale carte (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

- Igor Cretescu, Zsofia Kovacs, **Liliana Lazăr**, Adrian Burada, Madalina Sbarcea, Liliana Teodorof, Dan Padure, Gabriela Soreanu, *Danube Delta: Water Management on the Sulina Channel in the Frame of Environmental Sustainability*, River Deltas-Recent Advances, Editor IntechOpen, **2021** (open acces peer-reviewed capther: <https://www.intechopen.com/chapters/77075>; DOI: 10.5772/intechopen.97877).
- Poroch-Serișan M., Buculei A., Amariei S., Gutt G., **Lazăr L.**, Crețescu I., *The content of heavy metals in packaging materials, an environmental issue and a food safety concerns*, (Redakcja naukowa: Krystyna A. Skibniewska, Leszek F. Korzeniowski), in POSTĘP W INŻYNIERII BEZPIECZEŃSTWA II, Editura Wydawnictwo UWM Olsztyn, Poland, **2017**, pp. 160-179, ISBN 978-83-8100-113-7 (în engleză).

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- Lazăr Liliana**, Balasanian Ion, *Poluarea atmosferei* (vol. I + vol. II), Editura Ecozone, **2019**, ISBN general 978-606-8625-02-7; 785 pagini, vol. I – 436 pagini, ISBN vol.1: 978-606-8625-03-4 și vol II – 345 pagini, ISBN vol 2: 978-606-8625-19-5.
- Liliana Lazăr**, *Ingineria proceselor electrochimice*, Editura Ecozone, Iași, **2016**, ISBN 978-606-8625-11-9; 250 pagini.
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- Lazăr Liliana**, Balasanian Ion, *Cuptoare în industria materialelor oxidice (vol. I – Producerea și schimbul de căldură)*, Editura Ecozone, Iași, **2007**, ISBN 978-973-86848-8-1 (gen.), 978-973-7645-18-0 (vol.I); 250 pagini.
- Bandrabur F., **Lazăr Liliana**, Apostolescu N., *Prelucrarea Materialelor și Finisarea Suprafețelor*, Editura Societății Academice Matei-Teiu Botez, Iași, **2005**, ISBN 973-7962-74-5; 205 pagini.

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7. Balasanian I., **Lazăr Liliana**, *Eliminarea și tratarea poluanților gaze și vapori / Cap 6.2. în "Managementul deșeurilor"*, Editori coordonatori: Vasile Oros, Camelia Drăghici, Editura Universității Transilvania, Brașov, **2002**, Seria EnvEdu, pp. 150-171, ISSN 1584-0506, ISBN 973-635-090-8.

Manuale, îndrumare etc. publicate , la edituri recunoscute CNCIS sau pe plan local

1. Tataru-Fărnuș R.-E., Harja M., **Lazăr L.**, Apostolescu N., *Ingineria produselor fertilizante anorganice (îndrumar de laborator)*. Editura Ecozone, **2018**, ISBN 978-606-8625-13-3; 263 pagini.
2. Harja M., **Lazăr Liliana**, Apostolescu N., Szep A., *Ingineria produselor anorganice – Săruri anorganice (îndrumar de laborator)*. Editura Ecozone, Iași, **2013**, ISBN 978-973-7645-93-7; 210 pagini.
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4. Bandrabur F., Balasanian I., **Lazăr Liliana**, *Coroziune. Protecție activă și pasivă. Tehnologii electrochimice (îndrumar de aplicații practice)*, Rotaprint Universitatea Tehnică "Gheorghe Asachi", Iași, **2000**, 190 pagini

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1. Mardare G., **Lazar L.***, Malutan T., [Potential application of invasive plant species *Datura Innoxia* for the scopolamine extracts of the plant organs and analysis using UV-VIS spectrophotometry](#), *Forests*, 13(10), **2022**, article no. 1555 (15 pag.); Open Access (DOI 10.3390/f13101555).
2. **Lazar L.***, Koeser H., Balasanian I., [Comparative kinetics study of the catalytic oxidation of benzene and its monohalogenated derivatives over V₂O₅-WO₃/TiO₂ catalyst](#), *Comptes Rendus Chimie*, **25**, **2022**, 109-117; Open Access (DOI 10.5802/crchim.174).
3. Mardare (Balusescu) G., **Lazar L.***, Malutan T., [Spectroscopic investigation and chemical fingerprint of *Datura innoxia* dry biomass](#), *Comptes Rendus Chimie*, **25**, **2022**, 227-235; Open Access (DOI 10.5802/crchim.169).
4. Harja M., Tataru-Fărnuș R., Droniuc Hultuana E., Gómez de Castro C., Ciobanu G., **Lazar L.**, [Influence of ethylenediamine content over performance of CO₂ absorption into potassium carbonate solutions](#), *Environmental Engineering and Management Journal*, 20(4), **2021**, pp. 507-516.
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10. Cohl Maria, **Lazar Liliana***, Cretescu, I., Balasanian I., [Trihalomethanes issues drinking water after chlorination treatment](#), *Revista de Chimie*, București, 66(9), **2015**, pp. 1282-1287.
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13. **Lazar Liliana***, B. Bandrabur, R.-E. Tataru-Fărnuș, M. Drobotă, L. Bulgariu, Gheorghe Gutt, [FTIR analysis of ion exchange resins with application in permanent hard water softening](#), *Environmental Engineering and Management Journal*, 13(9), **2014**, pp. 2145-2152.
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15. Fechete I., Ersen O., Garin F., **Lazar Liliana**, Rach, A., [Catalytic behavior of MnMCM-48 and WMnMCM-48 ordered mesoporous catalysts in a reductive environment: a study of the conversion of methylcyclopentane](#), *Catalysis Science and Technology*, 3(2), **2013**, pp. 444-453.
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 21. **Lazăr Liliana***, Balasanian I., [Valorization of plaster molds waste from fine ceramic industry](#), *Environmental Engineering and Management Journal*, 9(1), 2010, pp. 141-146.
 22. **Lazăr Liliana***, Balasanian I., Bandrabur F., [Researches on possibility to recover and reuse the iron\(II\) sulphate from etching of rolled steels](#), *Environmental Engineering and Management Journal*, 8(3), 2009, pp. 541-547.
 23. **Lazăr Liliana***, Balasanian I., Bandrabur F., [Environmental pollution with vocs and possibilities for emission treatment](#), *Environmental Engineering and Management Journal*, 6(6), 2007, pp. 529-535.
 24. **Lazăr Liliana***, Köser, H. Balasanian I., Bandrabur F., [Study of the non-catalytic and catalytic oxidative destruction of VOCs](#), *Environmental Engineering and Management Journal*, 6(5), 2007, pp. 441-449.
 25. Caliman Anca Florentina, Berberidou Chrysanthi, **Lazăr Liliana**, Poullos Ioannis, Macoveanu Matei, [Degradation of Alcian Blue 8 GX by heterogeneous and homogeneous photocatalytic processes](#), *Environmental Engineering and Management Journal*, 6(2), 2007, pp. 85-93.
 26. **Lazăr Liliana***, Köser H., Balasanian I., Bandrabur F., [Catalytic destruction of aromatic VOCs on SCR-DeNOx commercial catalyst](#), *Environmental Engineering and Management Journal*, 6(1), 2007, pp. 13-20.
 27. Szép Alexandru, **Lazăr Liliana**, Bandrabur F., Mânea Ioniță, [A stoichiometric method for establishing the water transport in the electrolytic cells with ion exchange membranes](#), *Revista de Chimie*, București, 2006, 57(1), pp. 36-41.

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28. Roman C., Delgado M.Á., **Lazar L.**, García-Morales M., [Computational design applied to equilibrium-staged and rate-based absorption processes](#), *Revista de Chimie*, 71(7), 2020, pp. 88-96 (open access).
29. Mardare G., Malutan T., **Lazar L.**, [Determination of scopolamine by gas chromatography from different parts of the datura innoxia biomass](#), *Revista de Chimie*, 71(7), 2020, pp. 126-136 (open access).
30. **Lazar L.***, Koeser H., Fechete I., Balasanian I., [A modelling approach of the catalytic oxidation of volatile organic compounds in the SCR-DeNOx monolithic reactor](#), *Revista de Chimie*, 71(7), 2020, pp. 79-87(open access).
31. Ciuperca O.T., Tebrencu C.E., **Lazar L.***, Volf I.*., [Kinetic study on solid-liquid extraction of condensed tannins from rosa canina branches and stems](#), *Revista de Chimie*, 71(7), 2020, pp. 153-161 (open access).
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33. Stolle R., Bierögel S., **Lazăr L.**, Baltin G., Köser H., [VOC-Abbau in Halogenwasserstoffhaltigen Abgasen an Kommerziellen SCR-DeNOx-Katalysatoren](#), in VDI Berichte 1893, 2005, pp. 79-93.
34. **Lazăr Liliana***, Ion Balasanian, Florin Bandrabur, [Conversion of chlorinated aromatic derivatives on metallic oxides catalysts](#) (review), *Environmental Engineering and Management Journal*, 4(1), 2005, pp. 25-40.

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1. Igor Cretescu, Ruslan Borodaev, Doina Lutic, Gabriela Soreanu, **Liliana Lazar**, Joakim Gitlestad, Elena Zubcov, *Redox state assessment for the Danube water in the Sulina channel using a mobile water quality monitoring station*, Annals of "Dunarea De Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fasc. II, XIV(XLV), 2022, no. 2, pp. 122-125, (DOI: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2022.2.13>), ISSN 1221-4531.
2. Nica-Badea D., **Lazăr L.**, Slușer B.M., Crețescu I., *Anthropogenic Pollution Due to Emission of Heavy Metals Generated from a Lignite Thermal Power Plant in Romania*, Bul. Inst. Polit., Iași, seria Chimie și Ing.chimică, Tom. 64(68), Fasc. 2, 2018, pp. 43-57.
3. **Lazăr Liliana***, Bandrabur B., Tataru-Fărmuș R-E, *Comparative study of water softening with new zeolite and ion exchange resins*, Bul. Inst. Polit., Iași, seria Chimie și Ing.chimică, Tom. LXI(LXV), Fasc. 3-4, 2015, pp. 9-20.
4. Bandrabur B., **Lazăr L.***, Tataru-Fărmuș R-E, Gutt G., *Cationic exchange capacity of pure PC200FD resin in food industry water softening process*, Food and Environment Safety, 11(2), 2012, pp. 97-102.
5. Bandrabur B., **Lazăr L.***, Tataru-Fărmuș R-E, Bulgariu L., Gutt G., *Permanent hard water softening using different cation exchange resins*, Bul. Inst. Polit., Iași, seria Chimie și Ing.chimică, Tom. LVIII(LXII), Fasc. 3, 2012, pp. 141-150.
6. Bandrabur B., Tataru-Fărmuș R.-E., **Lazăr Liliana***, Gutt G., *Application of a strong acid resin as ion exchange material for water softening – Equilibrium and thermodynamic analysis*, Scientific study & Research – Chemistry & Chemical Engineering, Biotechnology, Food Industry, 13(4), 2012, pp. 361-370.
7. Bandrabur B., Tataru-Fărmuș R.-E., **Lazăr Liliana***, Bulgariu L., Gutt G., *Use of strong acid resin Purolite C100E for removing permanent hardness of water – Factors affecting cationic exchange capacity*, Scientific study & Research –

- Chemistry & Chemical Engineering, Biotechnology, Food Industry, 13(3), **2012**, pp. 295-304.
8. **Lazăr L.***, Apostolescu N., Bandrabur F., *Kinetic modelling of the cathodic hydrogen release process in acid environments*, Bul. Inst. Polit., Iași, seria Chimie și Ing.chimică, Tom. LVIII(LXII), Fasc. 2, **2012**, pp. 189-199.
 9. Anca Ceică, L. Bulgariu, **Lazăr Liliana***, Igor Crețescu, Balasanian I., *Influence of cations on nitrate removal using Puro-lite resins*, Bul. Inst. Polit., Iași, seria Chimie și Ing. chimică, Tom. LVII(LXI), Fasc. 2, **2011**, pp. 99-107.
 10. **Lazăr Liliana***, Vranceanu Marcel, Balasanian I., Petrescu Stelian, *Contact model influence on the kinetics of convective drying process of α -Al₂O₃ catalytic support*, Bul. Inst. Polit., Iași, seria Chimie și Ing.chimică, Tom. LVII(LXI), Fasc. 1, **2011**, pp. 97-108.
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 12. **Liliana Lazar***, Florin Bandrabur, *The analysis of the voltage balance and of energy consumption in the process of chrome electrodeposition*, Bul. Inst. Polit., Iași, seria Chimie și Ing.chimică, Tom. LVI(LX), Fasc. 3, **2010**, pp. 37-47.
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 15. **Lazar L.***, Bandrabur F., Szép A., *Decorative protection of carbon steel through black finishing at low temperatures 1. Technological parameters*, Bul. Inst. Polit., Iași, seria Chimie și Ing.chimică, Tom. LIV(LVIII), Fasc. 3, **2008**, pp. 47-58.
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 17. **Lazăr Liliana***, Heinz Köser, Ion Balasanian, Florin Bandrabur, *Investigation of the kinetic parameters of the VOCs oxidation process on SCR-DeNOx commercial catalyst. II. Estimation of apparent activation energy*, Bul. Inst. Polit., Iași, seria Chimie și Ing.chimică, Tom. LIII(LVII), Fasc. 3-4, **2007**, pp. 33-42.
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2. Vasiliu Leonid, **Lazar Liliana**, Harja Maria, *Reducing the carbon dioxide footprint of inorganic binders industry*, *Ecology and Safety - Journal of International Scientific Publications*, 17, **2023**, (în curs de publicare) / ISSN 1314-7234, Open access: <https://www.scientific-publications.net/en/open-access-journals/ecology-and-safety/>.
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- Igor Cretescu, Sorina Calin, Elena Niculina Dragoi, **Liliana Lazar**, Gabriela Soreanu, Zsofia Kovacs, Dan Padure, Actual aspects concerning the water quality monitoring on the Sulina channel from the Danube Delta – Romania, *Ecology and Safety - Journal of International Scientific Publications*, 15, **2021**, pp. 21-36 / ISSN 1314-7234, Open access: <https://www.scientific-publications.net/en/article/1002173/>).

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- Lazăr Liliana***, Szép Al. Sándor, *Thermo-kinetic investigation of heavy soda dissolutl*. 14th International Conference of Chemistry (Erdélyi Magyar Műszaki Tudományos Társaság. XIV. Nemzetközi, Vegyészkonferencia, Kolozsvár), Cluj-Napoca, November 13-15, **2008**, pp. 279-282 (EMT, ISSN 1843-6293)
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