

L I S T A D E L U C R Ă R I

1. TEZE DE ABILITARE/DOCTORAT

1. Teză de abilitare, Universitatea „Vasile Alecsandri” din Bacău, Domeniul Ingineria Mediului, 2015.
2. Teză de abilitare (HDR), Université de Lille/Université du Littoral Côte d'Opale, Franța, Domeniul Chimie, 2014.
3. Teza de doctorat, Universitatea Tehnică „Gh. Asachi” Iași, Domeniul Inginerie Chimică, 2004.

2. BREVETE/INVENȚII

1. **Brevet de invenție:** Procedeu de coagulare-floculare la îndepărtarea cationilor de metal din apă, AZZOUZ Abdelkrim, ASSAAD Elias, SAJIN Tudor, NISTOR Ileana Denisa, CRĂCIUN Alexandru, URSU Alina, MIRON Neculai Doru, Ref. No: MD 3566 F1 2008.04.30, An: 01/2008.
2. **Brevet de invenție:** Procedeu de obținere a catalizatorului pentru epurarea apei de compuși organici, AZZOUZ Abdelkrim, ASSAAD Elias, SAJIN Tudor, URSU Alina, NISTOR Ileana Denisa, CRĂCIUN Alexandru, MIRON Neculai Doru, Ref. No: MD 3508 F1 2008.02.29, An: 01/2008.
3. **Brevet de invenție:** Instalație pentru cultivarea bacteriilor lactice, AZZOUZ Abdelkrim, SAJIN Tudor, NISTOR Ileana Denisa, CRĂCIUN Alexandru, Ref. No: MD 3000 F1 2006.03.31, An: 01/2006.
4. **Brevet de invenție:** Procedeu de cultivare a bacteriilor lactice (variante), AZZOUZ Abdelkrim, SAJIN Tudor, NISTOR Ileana Denisa, CRĂCIUN Alexandru, DUCA Gheorghe, Ref. No: MD 2969 F1 2006.02.28, An: 01/2006.
5. **Brevet de invenție:** Instalație pentru cultivarea bacteriilor lactice (variante), AZZOUZ Abdelkrim, SAJIN Tudor, CRĂCIUN Alexandru, NISTOR Ileana Denisa, Ref. No: MD 3021 F1 2006.04.30, An: 01/2006.

3. CĂRȚI ȘI CAPITOLE ÎN CĂRȚI (publicate în edituri recunoscute CNCSIS)

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2. Abdelkrim Azzouz, Diana Mirila, Denisa-Ileana Nistor, Farida Boudissa, Rene Roy, **Chapter 1:** Advances in the Oxidative Degradation of Organic Pollutants: Prospects for Catalyzed Oxidation Processes Targeting Total Mineralization, in book - *Advances in Chemistry Research*, Volume 49, p. 1–64, Editor James C. Taylor, Publicată de Nova Science Publishers, Inc, New York, ISBN 978-1-53614-760-5 (e-Book), ISSN 1940-0950, 2019.
3. Nistor I.D., Muntianu G., Metode moderne de control în ingineria proceselor ecologice. Note de curs, Editura Alma Mater, Bacău, 2016, ISBN 978-606-527-540-9.
4. Nistor I.D., Muntianu G., Biotehnologii de valorificare a subproduselor în industrii ecologice. Note de curs, Editura Alma Mater, Bacău, 2016, ISBN 978-606-527-539-3.
5. Nistor Ileana Denisa, Georgescu Ana-Maria, Tehnologii de diversificare a produselor alimentare ecologice. Note de curs, Editura Alma Mater, Bacău, ISBN 978-606-527-492-1, 2015.
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15. Nistor Ileana Denisa, Georgescu Ana-Maria, Ursu Alina Violeta, Chimia mediului. Tehnici de laborator, Colecția Științe Inginerești, Editura Alma Mater, Bacău, 978-973-8392-90-8, 2007
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4. ARTICOLE/STUDII IN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL

4.1. ARTICOLE PUBLICATE ÎN REVISTE DE SPECIALITATE DE CIRCULAȚIE INTERNAȚIONALĂ (REVISTE ISI)

1. Muntianu, G; Georgescu, AM; Rosu, AM; Platon, N; Arus, VA; Jinescu, CV; Nistor, ID, Ammonia Gas Adsorption in Fixed Bed and Fluidized Bed Using Bentonite Particles, *Applied Sciences-Basel*, Volume 15, Issue 2, 2025, DOI10.3390/app15020832,
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8. Andrei, S., Rati, I.V., Raducanu, D., Ureche, D., Nistor, D.I., Evaluation of the potential for use in agriculture of the soil resulting from unclogging process for two vegetables with great economic importance: beans and tomatos, *Fresenius Environmental Bulletin*, 2022, vol. 31, Issue 4,p. 4132-4142, ISSN: 1018-4619

9. Platon N., Georgescu A.M., Aruş V.A., Sion I., Silion M., Ursu A.V., Nistor I.D., Valorization of eggshells waste for bread production, **Scientific Study and Research - Chemistry and Chemical Engineering Biotechnology Food Industry**, 2022, Vol., 23, Issue 1, Page 049 – 061, ISSN1582-540X
10. Muntianu, G., Simion, A.I., Grigoras, C.G., Platon, N., Nistor I.D., Jinescu, G., Aluminum pillared bentonite - characterization and synthesis optimization by response surface methodology, **Studia Universitatis Babes - Bolyai Chemia**, 2021, Vol., 66, Issue 1, Page 73-88, ISSN 224-7154,
11. Hortolomeu, A., Scutaru, I., Arseni, A., Sturza, R., Nistor, I.D., Spectrophotometric determination of polyphenolic and protein content of young white wines in the Moldova area, **Scientific Study and Research - Chemistry and Chemical Engineering Biotechnology Food Industry**, Vol., 22, Issue 2, Page 213-225, 2021, ISSN1582-540X
12. Surpateanu, G., Georgescu, A.M., Nistor, D.I., Lungu, N.C., Synthron chemistry: theoretical study on the formation of proline, phenylalanine and tyrosine, **Environmental Engineering and Management Journal**, 2021, Vol., 20, Issue 7, Page 1111-1117, ISSN 1582-9596
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6. PROIECTE DE CERCETARE-DEZVOLTARE-INOVAR PE BAZĂ DE CONTRACT/GRANT, OBȚINUTE PRIN COMPETIȚIE NAȚIONALĂ

1. FDI-0125-SSD-2024, Internaționalizarea sistemului educațional LMD din UBc _ calitate, continuitate si mobilitate - membru
2. CNFIS- FDI_2023-SSD_0132 -Mobilitatea academica - suport al creșterii vizibilității internaționale a IOSUD_UBc - membru
3. Proiect educație antreprenorială-Engineer-a successful entrepreneur (EngSE) - membru
4. CNFIS-FDI-2022-0125 - Internaționalizarea studiilor universitare de master si doctorat – suport al performantei si formarii tinerilor prin si pentru cercetare - membru.
5. CNFIS-FDI-2021-0123 - Internaționalizarea studiilor universitare de master si doctorat – suport al performantei si formarii tinerilor prin si pentru cercetare - membru.
6. CNFIS-FDI-2020-0130 - Internaționalizarea studiilor universitare de master si doctorat – suport al performantei si formarii tinerilor prin si pentru cercetare – membru.
7. CNFIS-FDI - 2019-0453, Acțiuni suport pentru cercetare de excelență, inovare și transfer tehnologic la Universitatea Vasile Alecsandri din Bacău (acronim ACTIS-Bacău), membru.

8. CNFIS-FDI-2019-0087, Internaționalizarea studiilor universitare de master și doctorat – suport al performanței și formării tinerilor prin și pentru cercetare, Universitatea „Vasile Alecsandri” din Bacău, membru.
9. ROSE – 2022 - ”Ingineria o carieră de viitor-ING-UP!”73/SGU/NC/, Acord de Grant nr. 73/SGU/NC/I din data de 13.12.2017, membru
10. ROSE – 2021 - ”Ingineria o carieră de viitor-ING-UP!”73/SGU/NC/, Acord de Grant nr. 73/SGU/NC/I din data de 13.12.2017, membru
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13. AUF-BECO „Organisation de seminaires doctoraux”, N/Ref: CE/FF/124/2016, Consortiu: IOSUD - Universitatea „Vasile Alecsandri” din Bacău, membru.
14. CNFIS-FDI-2016-0130, Internaționalizarea studiilor universitare de doctorat–suport al performanței și formării tinerilor prin și pentru cercetare, Universitatea „Vasile Alecsandri” din Bacău, membru.
15. Colegiul Doctoral francofon, Domeniul Științe și Tehnologii, „BIOTECH”, Coordonator Universitatea “Dunărea de Jos” Galați, Coordonator partener Universitatea “Vasile Alecsandri” din Bacău 2014.
16. PN 21037, 2007-2010 “Tehnologie energetică durabilă, în vederea promovării resurselor minerale uranifere indigene, prin optimizarea procedurii de purificare a uraniului-TEDPUR”, Coordonator INCDMRR-ICPMRR București, P1=Universitatea din Bacău, Coordonator P1, valoare UBc 186.400 lei.
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19. CEEX, Modul III, Nr. 246/01.08.2006 ”Dezvoltarea parteneriatului științific în domeniul sintezei și utilizării de nanomateriale în tehnologii neconvenționale pentru decontaminarea apelor uzate ECONANO”, Coordonator tehnic, valoare 82.500 Lei.
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Data
martie 2025

Semnătura
Prof.univ.dr.ing.habil. NISTOR Ileana-Denisa