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Gradul didactic: s.l. dr. ing.

Instituția unde este titular: Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Inginerie Chimică și Biotehnologii

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## L I S T A

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat

1. Doctor în domeniul fundamental Științe Inginerești, domeniul Inginerie Chimică, Nr. 156 din 14.06.2011, “**Studii și cercetări privind modelarea proceselor din sol în vederea protecției calității solului**” conducător științific: prof.dr.ing. Ionel Constantinescu.

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**D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți  
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**- Reviste**

**- Selecție cu maximum 20 lucrări în volume de conferințe**

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  19. Oanamari Daniela Orbuleț, Cristina Orbeci, Constantin Bobirică, Cristina Modroga, Dăncilă Madelene, Liliana Bobirică, Phosphate Removal from Aqueous Solution using Nanosized Zerovalent Iron Supported by Anionic Exchange Resin, 21<sup>st</sup> Romanian International Conference on Chemistry and Chemical Engineering, S5\_193, Constanta - Romania, 2019
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  21. Mădălina Andrei, Ciprian Oprescu, Diana Goicea, Constantin Bobirică, Oanamari Daniela Orbuleț, Liliana Bobirică, Cristina Modroga GREEN BIOCIDES FOR MITIGATION OF MICROBIOLOGICALLY INFLUENCED CORROSION OF OILFIELD EQUIPMENT, 12<sup>th</sup> International Conference on Materials Science & Engineering, Transilvania University of Brasov – Romania, 2022
  22. Radu Gabriel Stan, Cristina Modroga, Denisa Nicoleta Airinei, Annette Madelene Dăncilă, Adina Alexandra Scarlat, Oanamari Daniela Orbuleț, Simona Căprărescu, Photocatalytic degradation of Indigo Carmine dye from a simulated wastewater using modified magnetite, 22<sup>st</sup> Romanian International Conference on Chemistry and Chemical Engineering, S5\_170, Sinaia- Romania, 2022
  23. Oanamari Daniela Orbuleț, Cristina Modroga, Constantin Bobirică, Madelene Annette Dăncilă, Liliana Bobirică, Cristina Orbeci, Simona Căprărescu Adsorption of Phosphates from

- Aqueous Solutions using LDH-Type Materials, 22<sup>st</sup> Romanian International Conference on Chemistry and Chemical Engineering, S5\_029, Sinaia- Romania, 2022
24. Liliana Bobirică, Cristina Orbeci, Constantin Bobirică, Oanamari Daniela Orbuleț, Cristina Modrogan, Kinetics of photocatalytic degradation of chlorophenols from aqueous solutions, 22<sup>st</sup> Romanian International Conference on Chemistry and Chemical Engineering, S5\_074, Sinaia-Romania, 2022
25. Sorin Nidelea, Annette Madelene Dăncilă, Daniela Oanamari Orbuleț, Cristina Modrogan, Eugeniu Vasile, Simona Căprărescu, Preparation and characterization of mixed oxide sorbent for H<sub>2</sub>S retain by HTDG processes, 22<sup>st</sup> Romanian International Conference on Chemistry and Chemical Engineering, S5\_133, Sinaia- Romania, 2022
26. S. Căprărescu, V. Purcar, C. Modrogan, A. M. Dăncilă, O. D. Orbuleț, *Synthesis and characterization of cellulose acetate-TiO<sub>2</sub> polymeric membrane for water and wastewater treatment*, 7<sup>th</sup> International Colloquium “Physics of Materials” PM-7, November 10-11, 2022, Bucharest, Romania, p. 16, oral presentation
27. Raluca Elena Cârjilă (Mihalache), *Cristina Modrogan*, Annette Madelene Dăncilă, Oanamari Daniela Orbuleț, Simona Căprărescu, Preparation and characterization of nanoparticles doped with the plant extract for the wastewater treatment, 23<sup>rd</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Mamaia - Constanța, ROMANIA, from 4 to 7 September, 2024
28. *Cristina Modrogan*, Oanamari Daniela Orbuleț, Simona Căprărescu, Raluca Elena Carjila, Annette Madelene Dăncilă Preparation and Characterization of Adsorbents from Solid Waste, 23<sup>rd</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Mamaia - Constanța, ROMANIA, from 4 to 7 September, 2024
29. Aliona Olari, Annette Madelene Dăncilă, Oanamari Daniela Orbuleț, *Cristina Modrogan*, Simona Căprărescu Comparative Analysis of the Efficiency of Potential Materials Used in the Adsorption Process of Sulfur Dioxide, 23<sup>rd</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Mamaia - Constanța, ROMANIA, from 4 to 7 September, 2024
30. Constantin BOBIRICĂ, Cristina ORBECI, Liliana BOBIRICĂ, Giovanina - Iuliana IONICĂ, Oanamari Daniela ORBULEȚ, Kinetic Modelling of the Photocatalytic Mineralisation of Endocrine Disruptors in Aqueous Solutions, 23<sup>rd</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Mamaia - Constanța, ROMANIA, from 4 to 7 September, 2024
31. Oanamari Daniela Orbuleț, *Cristina Modrogan*, Constantin Bobirică, Annette Madelene Dăncilă, Liliana Bobirică, Dynamics of Nitrate Ion Migration Processes in Soil Columns Using Permeable Reactive Barriers, 23<sup>rd</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Mamaia - Constanța, ROMANIA, from 4 to 7 September, 2024

#### **E. Brevete obținute în întreaga activitate**

#### **F. Contracte și rapoarte de cercetare (experiența acumulată - inclusiv experiența managerială, în alte programe/proiecte naționale/internaționale):**

#### **Coautor**

1. Contract: nr. 557/09.02.2004, Analiza calității unor surse de apă din foraje și a celor din

- rețeaua de alimentare aferentă; beneficiar S.C. Petrom Service SA, (colaborator)
2. Contract CERES 4-126/2004, Obținerea și caracterizarea straturilor subțiri foto și electroluminiscente
  3. Relansin 1911/2004 (UPB 43-04-05) – Fertilizanți foliari ecologici cu înaltă eficiență agrochimică – ecofertilizanți
  4. Relansin 2090/2004 (UPB 43-04-06) Reconversia fertilizanților ecologici aplicabili în sivicultură și pomicultură – supergranule
  5. Contract CEEEX 138/2006, Tehnologie și instalație de tratare a deșeurilor solide petroliere (foraj și bataluri)
  6. Contract CEEEX -Creșterea performanței de conversie a gazelor acide din gazele de ardere industriale, prin tratament combinat cu EA și MU PNII 21-025/2007/CH 390709
  7. Contract de cercetare Internațional - HACH LANGE GmbH, Germania “Comparative Chemical Analyses of Drinking and Waste Water Performed according to HANG LANGE Cuvette Test and BDS”/ 2008
  8. UPB – Granturi interne de Cercetare - GEX 2017 “Metode inovative de tratare ape”, Contract nr. 78/22.09.2017 nr. 136, sept. 2017 - oct. 2018
  9. Proiect ROSE - Hai în Centru: Strategii de învățare și de dezvoltare personală pentru reducerea abandonului școlar – SIDPERA; Acord de grant nr. 77/SGU/CI/I, 2018-2021

## **Director**

1. UPB – Granturi interne de Cercetare - Granturi naționale (GNaC 2018 ARUT) “Metode de depoluare a apelor subterane contaminate cu nutrienți folosind bariere reactive permeabile”, Contract nr. 01/15.10.2018 nr.32/CH37-18-01, oct.2018- dec.2019