



## EXPERIENȚA PROFESIONALĂ

27/11/2019 – ÎN CURS – Bacău, România

**ASISTENT MANAGER – SC PRODRILLING CONSTRUCT SRL**

28/05/2016 – 30/09/2016

**DIRECTOR DEPARTAMENT ADMINISTRAȚIE – SC ANGEL SMILE SRL**

01/06/2015 – 27/05/2016 – Bacău, România

**ASISTENT MANAGER – SC ANGEL SMILE SRL**

## EDUCAȚIE ȘI FORMARE PROFESIONALĂ

03/10/2016 – ÎN CURS

**DOCTOR ÎN INGINERIA MEDIULUI – Universitatea "Vasile Alecsandri" din Bacău**

### Domeniul (domeniile) de studiu

- Ingineria Mediului

**Lucrarea de diplomă:** CONTRIBUȚII PRIVIND UTILIZAREA UNOR MATERIALE PE BAZĂ DE ARGILĂ ÎN REALIZAREA CATALIZATORILOR PENTRU DEPOLUAREA APELOR INDUSTRIALE

01/10/2021 – ÎN CURS

**DIPLOMĂ DE CONTABIL – Universitatea "Vasile Alecsandri" din Bacău**

### Domeniul (domeniile) de studiu

- Contabilitate

01/10/2016 – 01/06/2018

**CERTIFICAT DE COMPETENȚE PEDAGOGICE NIVEL II – Universitatea "Vasile Alecsandri" din Bacău**

01/10/2014 – 01/06/2016

**CERTIFICAT DE COMPETENȚE PEDAGOGICE NIVEL I – Universitatea "Vasile Alecsandri" din Bacău**

01/10/2013 – 01/06/2015

**DIPLOMĂ DE MASTER – Universitatea "Vasile Alecsandri" din Bacău**

### Domeniul (domeniile) de studiu

- Inginerie chimică

**Domeniul (domeniile) de studiu**

- Ingineria Produselor Alimentare

Onești, România

**DIPLOMĂ DE BACALAUREAT** – Colegiul Tehnic Gheorghe Asachi Onești

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● **COMPETENȚE LINGVISTICE**

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Limbă(i) maternă(e): **ROMÂNĂ**

Altă limbă (Alte limbi):

	COMPREHENSIVNE		VORBIT		SCRIS
	Comprehensiune orală	Citit	Exprimare scrisă	Conversație	
<b>ENGLEZA</b>	C1	C1	C1	C1	C1
<b>FRANCEZĂ</b>	B1	B1	B1	B1	B1

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*Niveluri: A1 și A2 Utilizator de bază B1 și B2 Utilizator independent C1 și C2 Utilizator experimentat*

● **PUBLICAȚII**

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**1. Capitol de carte: ADVANCES IN THE OXIDATIVE DEGRADATION OF ORGANIC POLLUTANTS: PROSPECTS FOR CATALYZED OXIDATION PROCESSES AND TARGETING TOTAL MINERALIZATION**, Editura Nova Publishers;

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2018

<https://novapublishers.com/shop/advances-in-chemistry-research-volume-49/>

**ACTIVATED ADSORPTION ON CLAY OF MICROPOLLUTANTS FROM PAPER PRINTING INDUSTRY**, Scientific Study & Research, Chemistry & Chemical Engineering, Biotechnology, Food Industry;

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2018

file:///C:/Users/PEAQ/Downloads/CSCC6201801V01S01A0007%20(2).pdf

**TOTAL MINERALIZATION OF MALACHITE GREEN DYE BY ADVANCED OXIDATION PROCESSES**, ACTA CHEMICA IASI

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2018

doi: 10.2478/achi-2018-0017

**ACID-TREATED CLAY CATALYSTS FOR ORGANIC DYE OZONATION- THOROUGH MINERALIZATION THROUGH OPTIMUM CATALYST BASICITY AND HYDROPHILIC CHARACTER**, Journal of hazardous materials

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2019

doi.org/10.1016/j.jhazmat.2018.09.070

## Organic Dye Ozonation Catalyzed by Chemically Modified Montmorillonite K10– Role of Surface Basicity and Hydrophilic Character; Ozone: Science & Engineering

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2020  
[doi.org/10.1080/01919512.2020.1727727](https://doi.org/10.1080/01919512.2020.1727727)

## High Pollution with Heavy Metals NATURA 2000 Protected Area in Bacau County, Eastern Romania; Revista de Chimie București

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2020  
[doi.org/10.37358/RC.20.6.8180](https://doi.org/10.37358/RC.20.6.8180)

## Oxidative study of Acid Yellow 23 using K10-Montmorillonite chemically modified, Journal of Engineering Sciences and Innovation

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2021  
[https://jesi.astr.ro/wp-content/uploads/2021/06/6\\_DIANA-CARMEN-MIRILA.pdf](https://jesi.astr.ro/wp-content/uploads/2021/06/6_DIANA-CARMEN-MIRILA.pdf)

## ● CONFERINȚE INTERNAȚIONALE ȘI NAȚIONALE

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2016  
**The 7th International Conference for Students “STUDENT IN BUCOVINA”**

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1. *Synthesis and characterization of nanomaterials clay used for wastewater remediation*  
[http://fia-old.usv.ro/www/pagini/stud\\_bucovina\\_2016/program.pdf](http://fia-old.usv.ro/www/pagini/stud_bucovina_2016/program.pdf)

2017  
**Le cinquième colloque francophone PLUridisciplinaire sur les Matériaux, l'Environnement et l'Electronique (PLUMEE 2017)**

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1. *Application du champ electromagnetique dans la deppolution de l'air*  
2. *Nanocomposites - hydroxydes doubles lamellaires utilisés dans la protection de l'environnemen*  
<http://plumee.ub.ro/2017/>

2018  
**The 8th International Conference for Students “STUDENT IN BUCOVINA**

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1. *Chemically modified cationic clays and their uses in food dyes removal -by Advanced Oxidation Processes*  
2. *Porous materials based on cationic clays – characterization and synthesis*  
<http://fia-old.usv.ro/www/pagini/Student in Bucovina 2018 Abstracts.pdf>;

2018  
**International Symposium of Chemical Engineering and Materials (SICHEM)**

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1. *Retention of anthracene on functionalized anionic clays – layered double hydroxides in wastewater treatment processes*  
2. *Uses of composite materials of the smectite type in catalytic ozonation*  
[http://sacr.ro/wp-content/uploads/2019/02/SICHEM\\_2018\\_Program\\_Desfasurare\\_Final.pdf](http://sacr.ro/wp-content/uploads/2019/02/SICHEM_2018_Program_Desfasurare_Final.pdf);

2018  
**International Conference MODERN TECHNOLOGIES IN THE FOOD INDUSTRY (MTFI)-2018**

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1. *Advanced oxidation processes used in food dyes removal*  
2. *Retention de polluants sur des matrices a base d'argile anionique dans les eaux usees de l'industrie alimentaire pour rehabilitation environnementale*

2018

### **Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA-2018)**

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1. *Etude concernant la retention des encres papeteries sur des argiles*

<https://cofroca.ub.ro/>

2019

### **International Conference of Applied Sciences**

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1. *Removal of persistent organic pollutants by adsorption*
2. *Intercalation of cationic clays with  $\beta$ -cyclodextrine and their uses in Oenology*
3. *Removal of persistent pollutants using unconventional materials*
4. *Bioaccumulation of heavy metals in water, sediments and fish tissues*
5. *Chemically modified cationic clay used for the removal of food dye – Sunset Yellow FCF*

<https://cisaconf.ub.ro/>

2019

### **International Conference ACHIEVEMENTS AND PERSPECTIVES OF MODERN CHEMISTRY ICICH60**

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1. *Catalytic ozonation of Malachite Green dye using Montmorillonite K10 chemically modified with Copper and Zinc*
2. *Oenology mycotoxins removal using cationic clays*

<http://www.chem.asm.md/icich60/index.html>

2021

### **16th International Conference of Constructive Design and Technological Optimization in Machine Building**

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1. *Synthesis of silver nanoparticle embedded cationic clay as an efficient catalyst of dyes and its antibacterial activity*
2. *Identification of the polyphenolic level of young white wines by treatment with various inorganic and organic materials*

<https://oproteh.ub.ro/>

2021

### **4th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi**

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1. *Synthesis of CoO – NiO coated on K10-montmorillonite used for catalytic ozonation of Tartrazine (E102)*
2. *The effect of thioglycerol groups on different inorganic materials and their applications*

<http://www.csd2021.tuiasi.ro/>

2021

### **Conferința Tehnico-Științifică a Studenților, Masteranzilor și Doctoranzilor**

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1. *Ozonarea catalitică a Tartrazinei (E102) folosind K10-Montmorillonite modificat chimic*

<https://utm.md/cts-smd-2021/>

2021

### **International Conference INTELLIGENT VALORISATION OF AGRO-INDUSTRIAL WASTES**

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1. *Silver nanoparticles incorporated in phyllosilicates*
2. *The effect of modified aluminosilicate lamellae on protein and polyphenolic compounds in white wine*
3. *Liquid-solid extraction of La(III) in nitrate medium by XAD-1180 Resin*

#### 4. Depuration of Terbium contaminated water using a liquid membrane supported

<https://intelwastes.utm.md/int-conf-intelwastes/>

2021

#### **INTERNATIONAL SYMPOSIUM "THE ENVIRONMENT AND THE INDUSTRY (SIMI)**

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1. *Silver nanoparticles incorporated in phyllosilicates - synthesis, characterization and application*
2. *Identification of polyphenolic level of young white wines by treatment with various inorganic and organic materials*

<http://www.simiecoind.ro/>

2022

#### **The 7th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY (EEC-2022)**

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1. *Synthesis and applications of a new catalyst based on silver nanoparticles incorporated on cationic clay*

<http://eec-2022.mrda.md/>

2022

#### **17th International Conference of Constructive Design and Technological Optimization in Machine Building**

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1. *Synthesis of new clay-based adsorbents incorporated with silver ions*
2. *The effect of cyclic oligosaccharides on the stability of indigenous wines*

<https://oproteh.ub.ro>

2017

#### **Sesiunea națională de comunicări științifice studențești Ingineria- Profesia viitorului, Ediția I**

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1. *Utilizarea argilelor cationice in industria alimentară*
2. *Aplicații ale argilelor anionice de tip LDH in Biochimie și Medicină*

2017

#### **Ediția a XII a Simpozionului Ecologia și Protecția Ecosistemelor**

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1. *Valorificarea materialelor argiloase de tip smectite*
2. *Layered Double Hydroxides - nanomaterials used for environmental protection*

<https://epe.ub.ro/>

2018

#### **Conferința Facultății de Chimie IașiChem 2018**

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1. *Total mineralization of Malachite Green dye by Advanced Oxidation Processes*
2. *Retention of Pyrene on functionalized anionic clays - layered double hydroxides in wastewater treatment*

<https://www.chem.uaic.ro/ro/manifestari/zu-2018.html>

2019

#### **Conference of the TUIASI Doctoral School**

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1. *A novel catalyst based on smectite clay pillared with silver- characterization, synthesis and application*
2. *Pillaring cationic clays and their uses in the Enology*

<https://icpm.tuiasi.ro/2019/05/conferinta-scolii-doctorale/>

2019

## IasiCHEM 2019, Ediția a III-a

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1. *The use of cationic clays modified with Boltorn-type dendrimers, H20, H30, and H40 in the removal of polyphenolic compounds*
2. *Malachite Green removal through catalytic ozonation using as catalysts: Al - pillared clays supported rare earths and palladium*

<http://www.chem.uaic.ro/ro/manifestari/zu-2019.html>

## ● PREMII

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### Articole - competiția 2019

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PN-III-P1-1.1- PRECISI-2019- 34068

Acid-treated clay catalysts for organic dye ozonation - Thorough mineralization through optimum catalyst basicity and hydrophilic character

2018

### Premiu I

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The 8th International Conference for Students "STUDENT IN BUCOVINA" November, 15<sup>th</sup> - 16<sup>th</sup>, **2018**, Chemically modified cationic clays and their used in food dyes removal – by Advanced Oxidation Processes

### Premiu II

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Conferința Tehnico-Științifică a Studenților, Masteranzilor și Doctoranzilor 23-25 Martie **2021**, Chișinău, Republica Moldova, Ozonarea catalitică a tartrazinei (E102) folosind K10-Montmorillonite modificat chimic

2016

### Premiu III

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The 7th International Conference for Students "STUDENT IN BUCOVINA" November, 10<sup>th</sup> - 11<sup>th</sup>, **2016**, Synthesis and characterization of nanomaterials clay used for wastewater remediation

2018

### Mențiune

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The 8th International Conference for Students "STUDENT IN BUCOVINA" November, 15<sup>th</sup> - 16<sup>th</sup>, **2018**, Porous materials based on cationic clays – characterization and synthesis