Anexa 11

Facultatea de Inginerie Chimica si Biotehnologii
Catedra Chimie Analitica si Ingineria Mediului
Teza de abilitare

Domeniul: Inginerie Chimica

LISTA DE LUCRĂRI

Candidat: **NECHIFOR F. Aurelia Cristina**

I. TEZA(-E) DE DOCTORAT (T)

T1. *Sinteza, caracterizarea si aplicatiile particulelor magnetice si ale ferofluidelor,* sustinuta la 9.08.2005-UPB

II. CĂRŢI PUBLICATE (C)
Ca 1

AUTORI: Elena Ruse, **A.C. Nechifor**,

TITLU: ***Chimie Analitica***

Editura PRINTECH, 2005, **ISBN 973-718 - 213 -8,** ***240 pagini***
Capitole in carti;

Ca 2

AUTORI: **A.C. Nechifor**, G. Nechifor (G.L. Radu coordonator)

TITLU: ***Membrane si materiale*** *(cap. 6; p. 235-278) in „Tendinte actuale in bioanaliza"*

Editura PRINTECH, 2003, **ISBN 973-652 - 882 -0,** ***278 pagini***

Ca3.

AUTORI: **A.C. Nechifor**,..... (G. Nechifor, G.L. Radu coordonatori;)
TITLU: ***Tehnici axperimentale in analiza chimica****;* Editura PRINTECH, 2004, **ISBN 973-652-923-1, 506 pagini**

Capitolele:

1. *PRELEVAREA PROBELOR*; *AURELIA CRISTINA NECHIFOR, GABRIEL LUCIAN RADU;pg. 1-53*
2. *TEHNICI DE SEPARARE CU MEMBRANE LICHIDE*; *AURELIA CRISTINA NECHIFOR, OANA POPESCU, BOGDAN ŞERBAN; pg. 126-183*
3. *STRATEGII DE SINTEZĂ ALE COMPLEXANŢILOR MACROCICLICI*; *BOGDAN ŞERBAN, AURELIA CRISTINA NECHIFOR, GHEORGHE NECHIFOR; pg. 184-342*
4. *SPECTROSCOPIE ATOMICĂ*; *EUGENIA TOTU, AURELIA CRISTINA NECHIFOR, pg.* 403-477

Ca4

AUTORI: S.I. Voicu,.**A.C. Nechifor**, G. L. Radu, G. Nechifor (G.L. Radu coordonator)

TITLU: *Polimeri imprentati. Noi materiale membranare (cap. 4; p. 128-181) in* ***„Tehnici experimentale in bioanaliza"***

Editura PRINTECH, 2007, **ISBN 978-973-718-666-9,** ***215 pagini***

Ca5

AUTORI: **A.C. Nechifor**

TITLU: *Membrane Polimerice*

Editura PRINTECH, 2007, **ISBN 978-606-521-427-9,** ***200 pagini***

Cb - Cărţi de specialitate publicate în edituri recunoscute (autor, coautor, editor).
Cc - Cărţi publicate în alte edituri, cu ISBN.

III. ALTE MATERIALE PUBLICATE (I,D)
I - Culegeri şi Îndrumare publicate (separate în edituri cu ISBN şi în tipografii locale/de instituţii sau de uz intern).

I.1
Aurelia Cristina NECHIFOR, Bogdan SERBAN**,** Gh. NECHIFOR, G. RADU, **CONTROLUL ANALITIC AL CALITATII MEDIULUI SI AL PRODUSELOR ,** Indrumar de Laborator, Editura Printech, 2002, ISBN 973-652-522-8, 208 pagini

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcţionale etc.

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)
Ris - Reviste de specialitate de circulaţie internaţională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta). *Se mentioneaza la fiecare lucrare includerea in Baza ISI [ultimul Factor Impact, ISSN] si/sau denumirea altei (altor) BDI.*

Ris 1

.**Improved Biomineralization Using Cellulose Acetate/Magnetic Nanoparticles Composite Membranes**
Oprea, M (Oprea, Madalina) [1] , [2] ; Pandele, AM (Pandele, Andreea Madalina) [1] , [2] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [2] ; Nicoara, AI (Nicoara, Adrian Ionut) [3] ; Antoniac, IV (Antoniac, Iulian Vasile) [4] , [5] ; Semenescu, A (Semenescu, Augustin) [4] , [5] ; Voicu, SI (Voicu, Stefan Ioan) [1] , [2] ; Enachescu, CI (Enachescu, Catalin Ionel) [6] ; Fratila, AM (Fratila, Anca Maria) [7] , [8]
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POLYMERS
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17
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2,
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209
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T3D5J

Ris 2

Thorium Recovery with Crown Ether-Polymer Composite Membranes
Nechifor, AC (Nechifor, Aurelia Cristina) [1] ; Albu, PC (Albu, Paul Constantin) [2] ; Motelica, L (Motelica, Ludmila) [3] ; Man, GT (Man, Geani Teodor) [1] , [4] ; Grosu, AR (Grosu, Alexandra Raluca) [1] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [5] ; Grosu, VA (Grosu, Vlad-Alexandru) [6] ; Marinescu, VE (Marinescu, Virgil Emanuel) [7] ; Nechifor, G (Nechifor, Gheorghe) [1]
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Article
Language

English
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WOS:001351125100001
eISSN
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IDS Number
L5L2G

Ris 3 **Reduction in Olfactory Discomfort in Inhabited Premises from Areas with Mofettas through Cellulosic Derivative-Polypropylene Hollow Fiber Composite Membranes**
Albu, PC (Albu, Paul Constantin) [1] ; Pîrtac, A (Pirtac, Andreia) [2] ; Motelica, L (Motelica, Ludmila) [3] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [2] ; Man, GT (Man, Geani Teodor) [2] , [4] ; Grosu, AR (Grosu, Alexandra Raluca) [2] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [5] ; Grosu, VA (Grosu, Vlad-Alexandru) [6] ; Nechifor, G (Nechifor, Gheorghe) [3]
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Ris 4 **Emulsion Liquid Membranes Based on Os-NP/n-Decanol or n-Dodecanol Nanodispersions for p-Nitrophenol Reduction**
Pirtac, A (Pirtac, Andreia) [1] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [1] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [2] ; Oprea, OC (Oprea, Ovidiu Cristian) [3] , [4] , [5] , [6] ; Grosu, AR (Grosu, Alexandra Raluca) [1] ; Matei, C (Matei, Cristian) [7] ; Grosu, VA (Grosu, Vlad-Alexandru) [8] ; Vasile, BS (Vasile, Bogdan Stefan) [3] ; Albu, PC (Albu, Paul Constantin) [9] ; Nechifor, G (Nechifor, Gheorghe) [1]
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eISSN
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IDS Number
OX4T9
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Index Medicus

Ris 5 **Simultaneously Recovery of Thorium and Tungsten through Hybrid Electrolysis-Nanofiltration Processes**
Man, GT (Man, Geani Teodor) [1] , [2] ; Albu, PC (Albu, Paul Constantin) [3] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [1] ; Grosu, AR (Grosu, Alexandra Raluca) [1] ; Popescu, DI (Popescu (Stegarus), Diana Ionela) [2] ; Grosu, VA (Grosu, Vlad-Alexandru) [4] ; Marinescu, VE (Marinescu, Virgil Emanuel) [5] ; Nechifor, G (Nechifor, Gheorghe) [1]
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English
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PubMed ID
38393198
eISSN
2305-6304
IDS Number
JJ0W8

Ris 6 **THORIUM RECOVERY FROM THE TUNGSTEN WELDING ELECTRODES BY ELECTROLYSIS AND NANOFILTRATION**
Man, GT (Man, Geani Teodor) [1] , [2] ; Albu, PC (Albu, Paul Constantin) [3] ; Popescu, DI (Popescu (Stegarus), Diana Ionela) [2] ; Niculescu, VC (Niculescu, Violeta-Carolina) [2] , [4] ; Marinescu, VE (Marinescu, Virgil Emanuel) [2] , [4] ; **Nechifor, AC (Nechifor, Aurelia Cristina) [1]**
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Ris 7 **Thorium Removal, Recovery and Recycling: A Membrane Challenge for Urban Mining**
Man, GT (Man, Geani Teodor) [1] , [2] ; Albu, PC (Albu, Paul Constantin) [3] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [1] ; Grosu, AR (Grosu, Alexandra Raluca) [1] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [4] ; Grosu, VA (Grosu, Vlad-Alexandru) [5] ; Ioan, MR (Ioan, Mihail-Razvan) [3] ; Nechifor, G (Nechifor, Gheorghe) [1, MEMBRANES, Volume13 Issue9, 2023-10-19, DOI10.3390/membranes13090765, **WOS:001078749300001**

Ris 8 **Chitosan-sEPDM and Melatonin-Chitosan-sEPDM Composite Membranes for Melatonin Transport and Release,**
Pancescu, FM (Pancescu, Florentina Mihaela) [1] ; Rikabi, AAKK (Rikabi, Abbas Abdul Kadhim Klaif) [1] , [2] ; Oprea, OC (Oprea, Ovidiu Cristian) [3] ; Grosu, AR (Grosu, Alexandra Raluca) [1] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [1] ; Grosu, VA (Grosu, Vlad-Alexandru) [4] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [5] ; Dumitru, F (Dumitru, Florina) [3] ; Nechifor, G (Nechifor, Gheorghe) [1] ; Bungau, SG (Bungau, Simona Gabriela) [6],
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WOS:000959183600001

Ris 9 **Hydrogen Sulphide Sequestration with Metallic Ions in Acidic Media Based on Chitosan/sEPDM/Polypropylene Composites Hollow Fiber Membranes System,**
Pascu, D (Pascu, Dumitru) [1] **; Nechifor, AC (Nechifor, Aurelia Cristina)** [1] ; Grosu, VA (Grosu, Vlad-Alexandru) [2] ; Oprea, OC (Oprea, Ovidiu Cristian) [3] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [4] ; Man, GT (Man, Geani Teodor) [1] ; Dumitru, F (Dumitru, Florina) [3] ; Grosu, AR (Grosu, Alexandra Raluca) [1] ; Nechifor, G (Nechifor, Gheorghe) [1],
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Ris 10 **LEAD-CADMIUM IONS RECUPERATIVE SEPARATION BY CHITOSAN-sEPDM-POLYPROPYLENE HOLLOW FIBER**
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Goran, A (Goran, Alexandru) [1] ; Al-Ani, HNA (Al-Ani, Hussam Nadum Abdalraheem) [1] , [2] ; Grosu, AR (Grosu, Alexandra-Raluca) [1] ; Man, GT (Man, Geani Teodor) [1] , [3] ; Grosu, VA (Grosu, Vlad-Alexandru) [4] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [1],Volume68Issue2Page193-206,
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10.24193/subbchem.2023.2.13
Published
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DOI10.24193/subbchem.2023.2.13**, WOS:001032276300013**

Ris 11 **The Effects of the 'Catabolic Crisis' on Patients' Prolonged Immobility after COVID-19 Infection**
Moga, TD (Moga, Titus David) [1] ; Nistor-Cseppento, CD (Nistor-Cseppento, Carmen Delia) [2] ; Bungau, SG (Bungau, Simona Gabriela) [3] , [4] ; Tit, DM (Tit, Delia Mirela) [3] , [4] ; Sabau, AM (Sabau, Anca Maria) [5] ; Behl, T (Behl, Tapan) [6] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [7] ; Bungau, AF (Bungau, Alexa Florina) [8] ; Negrut, N (Negrut, Nicoleta) [2]
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Ris 12 **Simultaneous Release of Silver Ions and 10-Undecenoic Acid from Silver Iron-Oxide Nanoparticles Impregnated Membranes**
Nechifor, G (Nechifor, Gheorghe) [1] ; Grosu, AR (Grosu, Alexandra Raluca) [1] ; Ferencz, A (Ferencz (Dinu), Andreea) [1] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [2] ; Goran, A (Goran, Alexandru) [1] ; Grosu, VA (Grosu, Vlad-Alexandru) [3] ; Bungau, SG (Bungau, Simona Gabriela) [4] ; Pancescu, FM (Pancescu, Florentina Mihaela) [1] ; Albu, PC (Albu, Paul Constantin) [5] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [1]
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Ris 13 **Non-conventional therapeutical approaches to acne vulgaris related to its association with metabolic disorders**
Bungau, SG (Bungau, Simona Gabriela) [1] , [2] ; Tit, DM (Tit, Delia Mirela) [1] , [2] ; Vesa, CM (Vesa, Cosmin Mihai) [3] ; Abid, A (Abid, Areha) [4] ; Szilagyi, DV (Szilagyi, Denisa-Viola) [2] ; Radu, AF (Radu, Andrei-Flavius) [2] ; Bungau, AF (Bungau, Alexa Florina) [5] ; Tarce, AG (Tarce, Alexandra Georgiana) [5] ; Behl, T (Behl, Tapan) [6] ; Stoicescu, M (Stoicescu, Manuela) [7] ; Brisc, CM (Brisc, Cristina Mihaela) [7] ; Gitea, D (Gitea, Daniela) [1] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [8] ; Endres, L (Endres, Laura) [9] ...Less
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Ris 14 **Therapeutic approaches in the management of knee osteoarthritis (Review)**
Uivaraseanu, B (Uivaraseanu, Bogdan) [1] ; Vesa, CM (Vesa, Cosmin Mihai) [2] , [9] ; Tit, DM (Tit, Delia Mirela) [3] , [8] ; Abid, A (Abid, Areha) [4] ; Maghiar, O (Maghiar, Octavian) [1] ; Maghiar, TA (Maghiar, Teodor Andrei) [1] ; Hozan, C (Hozan, Calin) [1] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [5] ; Behl, T (Behl, Tapan) [6] ; Patrascu, JM (Patrascu, Jenel Marian) [7] ; Bungau, S (Bungau, Simona) [3]
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Ris 15 **pH and Design on n-Alkyl Alcohol Bulk Liquid Membranes for** Improving Phenol Derivative Transport and Separation
Albu, PC (Albu, Paul Constantin) [1] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [2] ; Ferencz, A (Ferencz (Dinu), Andreea) [3] ; Pirtac, A (Pirtac, Andreia) [3] ; Grosu, AR (Grosu, Alexandra Raluca) [3] ; Pascu, D (Pascu, Dumitru) [3] ; Grosu, VA (Grosu, Vlad-Alexandru) [4] ; Bungau, C (Bungau, Constantin) [5] ; **Nechifor, AC (Nechifor, Aurelia Cristina) [3]**
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Ris 16 **Acute coronary syndromes in diabetic patients, outcome, revascularization, and antithrombotic therapy**
Babes, EE (Babes, Elena Emilia) [1] ; Bustea, C (Bustea, Cristiana) [2] ; Behl, T (Behl, Tapan) [3] ; Abdel-Daim, MM (Abdel-Daim, Mohamed M.) [4] , [5] ; **Nechifor, AC (Nechifor, Aurelia Cristina**) [6] ; Stoicescu, M (Stoicescu, Manuela) [8] ; Brisc, CM (Brisc, Cristina Mihaela) [1] ; Moisi, M (Moisi, Madalina) [2] ; Gitea, D (Gitea, Daniela) [7] ; Iovanovici, DC (Iovanovici, Diana Carina) [8] ; Bungau, AF (Bungau, Alexa Florina) [9] ; Tit, DM (Tit, Delia Mirela) [7] , [8] ; Bungau, SG (Bungau, Simona Gabriela) [7] , [8] ...Less
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BIOMEDICINE & PHARMACOTHERAPY
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Ris 17 **A Narrative Review of the Classical and Modern Diagnostic Methods of the No-Reflow Phenomenon**
Pantea-Rosan, LR (Pantea-Rosan, Larisa Renata) [1] ; Bungau, SG (Bungau, Simona Gabriela) [2] , [3] ; Radu, AF (Radu, Andrei-Flavius) [2] , [4] ; Pantea, VA (Pantea, Vlad Alin) [5] ; Moisi, MI (Moisi, Madalina Ioana) [4] ; Vesa, CM (Vesa, Cosmin Mihai) [4] ; Behl, T (Behl, Tapan) [6] **; Nechifor, AC (Nechifor, Aurelia Cristina**) [7] ; Babes, EE (Babes, Elena Emilia) [1] ; Stoicescu, M (Stoicescu, Manuela) [1] ; Gitea, D (Gitea, Daniela) [3] ; Iovanovici, DC (Iovanovici, Diana Carina) [2] ; Bustea, C (Bustea, Cristiana) [4] ..
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Ris 18 **Therapeutic dilemmas in addressing SARS-CoV-2 infection: Favipiravir versus Remdesivir**
Negru, PA (Negru, Paul Andrei) [1] ; Radu, AF (Radu, Andrei-Flavius) [1] ; Vesa, CM (Vesa, Cosmin Mihai) [2] ; Behl, T (Behl, Tapan) [3] ; Abdel-Daim, MM (Abdel-Daim, Mohamed M.) [4] , [5] ; **Nechifor, AC (Nechifor, Aurelia** Cristina) [6] ; Endres, L (Endres, Laura) [7] ; Stoicescu, M (Stoicescu, Manuela) [8] ; Pasca, B (Pasca, Bianca) [1] ; Tit, DM (Tit, Delia Mirela) [1] , [9] ; Bungau, SG (Bungau, Simona Gabriela) [1] , [9] ..
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Review
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Ris 19 **Operational Limits of the Bulk Hybrid Liquid Membranes Based on Dispersion Systems**
Ferencz, A (Ferencz (Dinu), Andreea) [1] ; Grosu, AR (Grosu, Alexandra Raluca) [1] ; Al-Ani, HNA (Al-Ani, Hussam Nadum Abdalraheem) [1] , [2] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [1] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [3] ; Albu, PC (Albu, Paul Constantin) [4] ; Craciun, ME (Craciun, Mihaela Emanuela) [1] ; Ioan, MR (Ioan, Mihail-Razvan) [4] ; Grosu, VA (Grosu, Vlad-Alexandru) [5] ; Nechifor, G (Nechifor, Gheorghe) [1]
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Ris 20 **Osmium Recovery as Membrane Nanomaterials through 10-Undecenoic Acid Reduction Method**
Albu, PC (Albu, Paul Constantin) [1] ; Ferencz, A (Ferencz (Dinu), Andreea) [2] ; Al-Ani, HNA (Abdalraheem Al-Ani, Hussam Nadum) [2] , [3] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [4] ; Oprea, O (Oprea, Ovidiu) [5] ; Grosu, VA (Grosu, Vlad-Alexandru) [6] ; Nechifor, G (Nechifor, Gheorghe) [2] ; Bungau, SG (Bungau, Simona Gabriela) [7] ; Grosu, AR (Grosu, Alexandra Raluca) [2] ; Goran, A (Goran, Alexandru) [2] ; **Nechifor, AC (Nechifor, Aurelia Cristina) [1]**
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Ris 21 **Highlighting the advantages and benefits of cementless total knee arthroplasty (Review)**
Uivaraseanu, B (Uivaraseanu, Bogdan) [1] ; Vesa, CM (Vesa, Cosmin Mihai) [2] ; Tit, DM (Tit, Delia Mirela) [3] ; Maghiar, O (Maghiar, Octavian) [1] ; Maghiar, TA (Maghiar, Teodor Andrei) [1] ; Hozan, C (Hozan, Calin) [1] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [4] ; Behl, T (Behl, Tapan) [5] ; Andronie-Cioara, FL (Andronie-Cioara, Felicia Liana) [6] ; Patrascu, JM (Patrascu, Jenel Marian) [7] ; Bungau, S (Bungau, Simona) [3] .
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Ris22 **Transport and Separation of the Silver Ion with n-decanol Liquid Membranes Based on 10-undecylenic Acid, 10-undecen-1-ol and Magnetic Nanoparticles**
Nechifor, G (Nechifor, Gheorghe) [1] ; Pancescu, FM (Pancescu, Florentina Mihaela) [1] ; Albu, PC (Albu, Paul Constantin) [2] ; Grosu, AR (Grosu, Alexandra Raluca) [1] ; Oprea, O (Oprea, Ovidiu) [3] ; Tanczos, SK (Tanczos, Szidonia-Katalin) [4] ; Bungau, C (Bungau, Constantin) [5] ; Grosu, VA (Grosu, Vlad-Alexandru) [6] ; Ioan, MR (Ioan, Mihail-Razvan) [2] **; Nechifor, AC (Nechifor, Aurelia Cristina)** [1]
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Ris 23 **Comorbidities, Associated Diseases, and Risk Assessment in COVID-19-A Systematic Review**

Fitero, A (Fitero, Andreea) [1] ; Bungau, SG (Bungau, Simona Gabriela) [1] , [2] ; Tit, DM (Tit, Delia Mirela) [1] , [2] ; Endres, L (Endres, Laura) [3] ; Khan, SA (Khan, Shamim Ahmad) [4] ; Bungau, AF (Bungau, Alexa Florina) [4] ; Romanul, I (Romanul, Ioana) [5] ; Vesa, CM (Vesa, Cosmin Mihai) [6] ; Radu, AF (Radu, Andrei-Flavius) [2] , [6] ; Tarce, AG (Tarce, Alexandra Georgiana) [4] ; **Nechifor, AC (Nechifor, Aurelia Cristina)** [1]
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Ris 24 **Obtaining and Characterizing the Osmium Nanoparticles/*n*-Decanol Bulk Membrane Used for the *p*-Nitrophenol Reduction and Separation System**
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Ris 25 **Characterization of the Toxicological Impact of Heavy Metals on Human Health in Conjunction with Modern Analytical Methods**
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Ris 26 **Osmium Nanoparticles-Polypropylene Hollow Fiber Membranes Applied in Redox Processes**
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Ris 27 **Reactional Processes on Osmium-Polymeric Membranes for 5-Nitrobenzimidazole Reduction**
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Urducea, CB (Urducea, Cristina Bardaca) 1**Nechifor, AC (Nechifor, Aurelia Cristina**) 1Dimulescu, IA (Dimulescu, Ioana Alina) 1Oprea, O (Oprea, Ovidiu) 2Nechifor, G (Nechifor, Gheorghe) 1Totu, EE (Totu, Eugenia Eftimie) 1Isildak, I (Isildak, Ibrahim) 3Albu, PC (Albu, Paul Constantin) 4Bungau, SG (Bungau, Simona Gabriela) 5
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Nechifor, G (Nechifor, Gheorghe) 1Totu, EE (Totu, Eugenia Eftimie) 1**Nechifor, AC (Nechifor, Aurelia Cristina)** 1Constantin, L (Constantin, Lucian) 2Constantin, AM (Constantin, Alina Mirela) 2Carausu, ME (Carausu, Mihaela Elena) 3Isildak, I (Isildak, Ibrahim) 4
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Bodor, Z (Bodor, Zsolt) 1Lanyi, S (Lanyi, Szabolcs) 1, 2Albert, B (Albert, Beata) 1Bodor, K (Bodor, Katalin) 2, 3**Nechifor, AC (Nechifor, Aurelia Cristina)** 4Miklossy, I (Miklossy, Ildiko) 1
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Ris 45 **Non-Resorbable Nanocomposite Membranes for Guided Bone Regeneration Based on Polysulfone-Quartz Fiber Grafted with Nano-TiO2**
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Ris 46 **Removal of Dyes from Wastewater by Ceramic Membrane**
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Ris 126 **Synthesis and characterization of a novel functionalized conductive beta-cyclodextrine-doped polyaniline**
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Ris 127 **Membrane materials. III. Ferrofluid and magnetic particles**
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Ris 129 **Calixarene-carriers in liquid membranes. III. The transport of P2+ cations through liquid membranes with thiocalix[4]arene**
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Rns 1

AUTORII: S.I. VOICU, **A.C. NECHIFOR**, A.SARBU, C.L. NISTOR, G.NECHIFOR
TITLU: *Chemically Modified Polymers. II. Chloromethylated polymers*
REV.: Romanian Biological Sciences, 2006, Vol.IV, 1-2, p. 57-67, ISSN 1584-0158

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AUTORII: S.I. VOICU, **A.C. NECHIFOR**, C.L. NISTOR, A. SARBU, G.NECHIFOR
TITLU: Chemically Modified Polymers. I. Formilated aromatic polymers
REV.: *Romanian Biological Sciences*, 2006, Vol.IV, *1-2, p. 7-18,* ISSN 1584-0158

Rns 3

AUTORII: **A.C. Nechifor,** E. Andronescu, G-L. Radu, G.Nechifor
TITLU: *MAGNETIC NANOCOMPOSITE PARTICLES. I. MAGNETIC NANOCOMPOSITE SUPPORT AS FERROFLUIDS*
REV.: Romanian Biological Sciences, 2005, Vol.III, No.1-2, p. 13-24; ISSN 1584-0158

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AUTORII: **A.C. Nechifor,** E. Andronescu, G-L. Radu, G.Nechifor
TITLU: *MAGNETIC NANOCOMPOSITE PARTICLES. II. NANOPARTICULE MAGNETICE COMPOZITE*
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AUTORII: **A.C. Nechifor,** G-L. Radu, G.Nechifor
TITLU: *MAGNETIC NANOCOMPOSITE PARTICLES. III. COMPLEXANT MAGNETIC NANOCOMPOSITE PARTICLES*
REV.: *Romanian Biological Sciences*, **2005,** Vol.III, No.3-4, p. 28-38; ISSN 1584-0158

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AUTORII: G.Nechifor , F.D. Balacianu, **A.C. Nechifor**
TITLU: *MAGNETIC NANOCOMPOSITE PARTICLES. IV. ALKYLAMINOSILANISED MAGNETIC NANOPARTICLES*
REV.: Romanian Biological Sciences, **2005,** Vol.III, No.3-4, p. 39-47; ISSN 1584-0158

Rns 7

AUTORII: E. Neagu, E. Teodor, G-L. Radu, **A.C. Nechifor,** G.Nechifor
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REV.: Romanian Biological Sciences, **2005,** Vol.III, No.3-4, p. 1-9: ISSN 1584-0158

Rno - Alte reviste de specialitate de circulaţie naţională.

Vis- Volumele unor manifestări ştiinţifice internaţionale recunoscute, organizate in ţară şi străinătate, indexate ISI Thomson Reuters sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a publicatiilor pe baza unor criterii de performanta. *Se mentioneaza la fiecare lucrare includerea in Baza ISI [ISI Proceedings, ISSN] si/sau denumirea altei (altor) BDI.*

Vis 1

Polysulfone-Doped polyaniline composite membranes. Synthesis and electrochemical characteristics
Voicu, S.I., Stanciu, N.D., **Nechifor, A.C.**, Vaireanu, D.I., Nechifor, G. , 2008, Proceedings of the International Semiconductor Conference, CAS 2 , art. no. 4703392 , pp. 245-248 , **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-2004-9**

Vis 2

Polysulfone-polypyrrole ionic conductive composite membranes synthesized by phase inversion with chemical reaction

Muscalu, C., David, R., Garea, S.A., **Nechifor, A.C.,** Vaireanu, D.I., Voicu, S.I., Nechifor, G. , 2009, Proceedings of the International Semiconductor Conference, CAS 2 , art. no. 5336648 , pp. 557-560, **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-4413-7**

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Luntraru, V.I., Ghindeanu, L., Vasile, E., **Nechifor, A.C.** , 2011, Proceedings of the International Semiconductor Conference, CAS 2 , art. no. 6095778 , pp. 229-232, **SCOPUS, ISSN 1545-827X**

Vis 4
Covalent enzyme immobilization onto carbon nanotubes using a membrane reactor , Voicu, S.I., **Nechifor, A.C.,** Gales, O., Nechifor, G. 2011, Proceedings of SPIE - The International Society for Optical Engineering 8068 , art. no. 80680Y, **ISI, 10.1117/12.888780**

Vis 5
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Vis 7
New method for TiO2 covalent-ionic functionalization with different molecules for induced properties , Sava, S., Iarca, L., Trisca-Rusu, C., **Nechifor, A.C.,** Voicu, S.I., Nechifor, G. , 2010, Proceedings of the International Semiconductor Conference, CAS 2 , art. no. 5650685 , pp. 321-324 , **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-5781-6**

Vis 8
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Vis 9
Covalently immobilized crown ethers onto polysulfone membranes as materials for sensors , Trisca-Rusu, C., **Nechifor, A.C.,** Voicu, S.I., Nechifor, G. , 2010, Proceedings of the International Semiconductor Conference, CAS 1 , art. no. 5649081 , pp. 205-208 , **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-5781-6**

Vis 10
Invertase immobilization onto dispersed magnetic particles. Synthesis and characterization , Luntraru, V.I., Danciulescu, V., **Nechifor, A.C.,** Voicu, S.I., Nechifor, G. , 2010, Proceedings of the International Semiconductor Conference, CAS 2 , art. no. 5650721 , pp. 309-312 , **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-5781-6**

Vis 11
Polysulfone-functionalized multiwalled carbon nanotubes composite membranes for potential sensing applications
Trisca-Rusu, C., **Nechifor, A.C.**, Mihai, S., Parvu, C., Voicu, S.I., Nechifor, G.
2009, Proceedings of the International Semiconductor Conference, CAS 1 , art. no. 5336545 , pp. 285-288 , **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-4413-7**

Vis 12
Polysulfone-polypyrrole ionic conductive composite membranes synthesized by phase inversion with chemical reaction
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Vi 13
Simulation of membrane processes with applications in transport and adsorption of nitrate ions
DanielaElena Pascu, Oana Tatiana Nedelcu, **Aurelia Cristina Nechifor**, Mircea Segarceanu, 2014, Proceedings of the International Semiconductor Conference, CAS,pp. 229-302, **SCOPUS, IEEE ISBN 978-1-4799-3916-9/14/31.00**

V1 14
The use of adsorption isotherms for modeling the nitrite and sulphite anions removal from aqueous solutions on a composite membraneD.E.Pascu, M.Neagu, G.A.Traistaru,**A.C.Nechifor**, A.R.MironThe 5th International Conference ,, Advanced Composite Materials Engineering,, and The 3 rd International Conference ,, Research and Innovation in Engineering,, COMAT 20144, 16-17 october, 2014, Brasov, Romania, pp. 81-87, **ISBN 978-606-19-0411-2**

Vi - Volumele unor manifestări ştiinţifice internaţionale recunoscute, organizate in ţară şi străinătate;

Vi1

Separation of Co^{2+} using n-alkilic alcohols based liquid membranes, Recent Researches in Energy, Environment and Landscape Architecture 2011, ISBN 978-1-61804-052-7,p.71-76
Aurelia Cristina Nechifor[1, 2], Lacramioara Naftanila[2], Andreea Raducu[2], Valeriu Danciulescu[2], Stefan Ioan Voicu[2], Eugenia Eftimie Totu[2]

Vi2

Separation of Co^{2+} from basic source phases with n-alcohol membranes, Recent Researches in Energy, Environment and Landscape Architecture 2011, ISBN 978-1-61804-052-7,p.66-70, **Aurelia Cristina Nechifor[1, 2]**, Ludmila Iarca[2] , Loreta Costache [2], Octavian Dorca [2], Cristiana Olteanu [2], Carmen Lica[2]

Vi3

Composite PSF-PANI Membranes for Proteins Recovery , Recent Researches in Environment and Biomedicine 2012, Atena, ISBN 978-1-61804-075-6, p. 126-131*,* **Aurelia Cristina Nechifor[1, 2]**, Ionela Veronica Panait[2], Szidónia Katalin Tánczos[2] , Mihaela Neagu[2], Daniela Pascu[2], Adriana Cuciureanu

Vi4

Synthesis of cellulosic microsystems with magnetic inclusions, **Aurelia Cristina Nechifor[1, 2]**, Danut-Lucian Ghindeanu[2],Lacramioara Naftanaila[2], Alina Cristea[2], Eugenia Eftimie Totu[2], Recent Advances in Engineering, ISBN: 978-1-61804-137-1, p.40-45, Paris, 2012

Vi5

Applications of cellulosic microsystems with magnetic inclusions
Aurelia Cristina Nechifor[1, 2], Szidonia Katalin Tanczos[2],Veronica Ionela Panait[2], Eugenia Eftimie-Totu[2], Recent Advances in Engineering, ISBN: 978-1-61804-137-1, p.34-39,Paris, 2012

Vi6

A.C. Nechifor[1, 2], V.I. Luntraru[1], S.I. Voicu[1], C. Trisca-Rusu[1, 2], I.Antoniac[1], G. Nechifor[1] ,,*Magnetic particles functionalized with different enzymes for biomedical applications*,, International Conference ,,Biomaterials, Tissue Engineering and Medical Devices,, Sinaia, 2010

Vi7

S.I.Voicu[1],**A.C.Nechifor[1,2]**,C.Baicea[1],C.Trisca-Rusu[1,2],I.Antoniac[1],G. Nechifor[1],,*Polysulfone-polianiline-salen composite membrane as material for artificial lung,,* International Conference ,,Biomaterials, Tissue Engineering and Medical Devices,, Sinaia, 2010

Vi8

M. Ghimpusan, G. Nechifor, **A. C. Nechifor** and P. Passeri -Application of hollow fibre membrane MBR separation processes instead of GAC filtration in the physical-chemical industrial wastewater treatment – EuCheMs 31 august- 4 september 2014, Istanbul, Turcia;

Vi9

M. Ghimpusan, G. Nechifor, **A. C. Nechifor** and P. Passeri - Lab scale evaluation for conversion of CO2 result from digestion tank for nitrogen removal from a piggery wastewater - ELSEDIMA 2014 International Conference, Cluj-Napoca, Romania, 18-19 September 2014.

Vi10

Eugenia Eftimie Totu, **Aurelia Cristina Nechifor**, Electrical Characteristics of Polymeric Membranes with Nanocarriers used in Bioanalytical Applications,pp. 145, BIO ENG 2014, Bioengineering Conference Proceeding, ISBN 978-605-5120-95-5

Vi11

Eugenia Eftimie Totu , **Aurelia Cristina Nechifor** , Alexandra Maier , Catalina Spatarelu , Rares Girdea , Selective devices based on membranes with magnetic inclusions for applications in environmental protection, Conference: *EUROANALYSIS* XVII Warsaw, Poland, 25-29 August *2013*

Vn - Volumele unor manifestări ştiinţifice naţionale.

V. BREVETE DE INVENŢIE / INOVAŢII (B,A)

B - Brevete de invenţie.

PROCESS FOR PREPARING A POLYMERIC MEMBRANE OF DILUTED SOLUTIONS , RO125959 (A0) — 2011-01-28 ALDEA FLORIAN [RO]; VOICU STEFAN IOAN [RO]; **NECHIFOR AURELIA CRISTINA** [RO]; NECHIFOR GHEORGHE

NANO-COMPOSITE MATERIAL USED FOR MAKING DENTAL PROSTHESIS BY STEREOLITHOGRAPHY, COMPRISES POLY(METHYL METHACRYLATE) AND TITANIUM DIOXIDE NANOPARTICLES AND HAS UNIFORM MORPHOLOGICAL STRUCTURE AND ANTIBACTERIAL ACTION WITHOUT CYTOTOXICITY, Patent Number(s): RO132968-A0, Inventor(s): CRISTACHE C M, TOTU E, NECHIFOR G, DIDILESCU A C, **NECHIFOR A C**, Patent Assignee Name(s) and Code(s): UNIV MEDICINA SI FARM DAVILA CAROL (UYME-Non-standard), UNIV POLITEHNICA DIN BUCURESTI (UYPO-Non-standard) , DDX EUROPA SRL (DDXE-Non-standard), Derwent Primary Accession Number: 2019-413957

A - Inovaţii şi alte creaţii.

VI. CONTRACTE ŞI RAPOARTE ŞTIINŢIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, in tara/strainatate (**Pn** – nationale, **Pi** - internationale).

PROIECTE NATIONALE DE CERCETARE STIINŢIFICĂ
(**ca responsabil al colectivului de lucru**)

Pn 1

Nanocompozite cu proprietati electrice si magnetice destinate proceselor separative de inalta selectivitate (NEMSEPSEL), PN2-Parteneriate, 71-034, ***2007-2010 –Director proiect***

Pn 2

*MEMBRANE COMPOSITE SELECTIVE PE BAZA DE MATERIALE FUNCTIONALIZATE SI POLIMERI IMPRENTATI (**SECOFIM**) **CEEX-TE-146, 2005-2007, Director proiect***

Pn 3

SINTEZA SI PROPRIETATILE PARTICULELOR MAGNETICE SI ALE FEROFLUIDELOR, Grant CNCSIS, TD-440, ***2004-2005, Director Grant***

Pn 4

"SUBSTITUENTI DE MIELINA PE BAZA DE PROTEINE STRUCURATE, UTILIZATI IN CONSTRUCTIA DE NERVI PERIFERICI DIN TRAUMATOLOGIA NEUROCHIRURGICALA", Contract VIASAN 214/2003*'' c*are face obiectul contractului de cercetare stiintifica nr. 51-01-04/2004 incheiat intre Universitatea Politehnica Bucuresti, Facultatea de Chimie Industrială şi INSTITUTUL NATIONAL PENTRU STIINTE BIOLOGICE, **Responsabil contract**

Pn 5

"Interacţia albuminei cu membranele. Particule magnetice grefate cu proteine" în cadrul fazei I (unică pe anul 2001)-Tema 18 INCDSBB – MEC [UPB-51-01-07] Incheiat cu Institutul National de Cercetare Dezvoltare pentru Stiinte Biologice Bucuresti, **Responsabil contract**

Pn 6

"Caracterizarea fizico structurala a unor membrane din polietercetone", Contract incheiat de Agentia de Cercetari Militare (ACTTM) 7651/2000 cu UPB- 2000 [U.P.B. 51-20-05], **Responsabil contract**

PROIECTE NATIONALE DE CERCETARE STIINŢIFICĂ
(la care am participat ca membru in colectiuvul de lucru)

Pn 1

Materiale pe baza de aclizxarene cu proprietati dfe recunoastere a unor specii ionice si/sau moleculare de interes biologic si ecologic, PN2-Parteneriate, 71-062, 2007-2010

Pn 2

NANOCOMPOZITE POLISULFONA-POLIANILINA FUNCTIONALIZATE PENTRU BIOANALIZA SI BIOSEPARARI, PN2-Parteneriate, 71-025, 2007-2010

Pn 3

CONVERGENŢA TEHNOLOGIILOR DE VALORIFICARE A SUBSTANŢELOR MINERALE UTILE DIN EFLUENŢI ÎN VEDEREA INTEGRĂRII CERCETĂRII ROMÂNEŞTI ÎN ARIA EUROPEANĂ DE INTEGRARE, ***CEEX-MIII-12628, 2006-2008***

Pn 4

*CARACTERIZARE MORFO-STRUCTURALA A SILICEI NANOPOROASE SI NANOCOMPOZITELOR POLIMERICE HIBRID (NAHANOSCA).****CEEX-MI-AMCSIT 12/2005-2006***

Pn 5

MATERIALE COMPOZITE PE BAZA DE CALIXARENE CU PROPRIETATI MAGNETICE SI/SAU DE COMPLEXARE SELECTIVA A UNOR IONI DE METALE DE INTERES TEHNOLOGIC-CALIXCOM, ***CEEX-MI-AMCSIT 16/2005-2007***

Pn 6

POLIMERI IMPRENTATI MOLECULAR- SUPORT PENTRU CONSTRUCTIA DE BIOSENZORI ENZIMATICI DESTINATI MONITORIZARII UNOR POLUANTI DIN APE, ***CEEX-MI-AMCSIT 22/2005-2007***

Pn 7

MATERIALE MEMBRANARE CU SELECTIVITATE DIRIJATA PRIN SISTEME REDOX (MEMBREDOX), ***CNCSIS 359-58, 2004-2007***

Pn 8

*"NANOCOMPOZITE POLIMER-ANORGANICE OBTINUTE IN DISPERSII APOASE***" NANOEM,** ***CERES nr. 4-23/2004-6***

Pn 9

*SISTEME BIOMIMETICE DE RECUNOASTERE MOLECULARĂ DIRIJATĂ-****BIOMIM***, ***CERES nr. 4-168/2004-6***

Pn 10

DISPERSII CU PROPRIETATI DIRIJATE
U.P.B. 51-03-01 Incheiat cu RELANSIN, Contract 1684 (8369), 2003-2005

Pn 11

CONFERINTA INTERNATIONALA DE CHIMIE SI INGINERIE CHIMICA
U.P.B. 51-03-04 Incheiat cu MECT, Contract 87/5.09.2003 (8369)

Pn 12

CONFERINTA INTERNATIONALA DE CHIMIE SI INGINERIE CHIMICA (CIChChI)
Contract RELANSIN 1400/30.07.2001 (Proiect 6329) – U.P.B. 46-01-08

Pn 13

" SISTEME NECONVENTIONALE DE SEPARARE CU MEMBRANE LICHIDE (SNEML)"
Grant ANSTI –2001 (U.P.B. 51-01-10)

Pn 14

SINTEZA DE COMPLEXANŢI AI METALELOR GRELE PENTRU GREFAREA PE NANOSTRUCTURI,
U.P.B. 51-01-04, 2001, Incheiat cu Centrul de Cercetari pentru Materiale Macromoleculare si Membrane Bucuresti

Pn 15

NANODISPERSII CU APLICABILITATE În tehnică, medicină şi protecţia mediului (napromed)
Contract RELANSIN 759 /13.10.2000-2003 (Proiect 5303) -U.P.B. Nr. 46-20-34

Pn 16

POLIETERCETONE SI POLIETERETERCETONE MODIFICATE CHIMIE (PEK-MC)
Cod A*, numar* 18, UPB-51-01-05 Contract ANSTI OBIECTIV ORIZONT 2000-2001

Pn 17

PRIVIM CĂTRE VIITOR - FORMAREA PROFESIONALĂ A CADRELOR DIDACTICE PENTRU UTILIZAREA RESURSELOR INFORMATICE MODERNE ÎN PREDAREA EFICIENTĂ A CHIMIEI – **e-Chimie**, **Cod Proiect:** POSDRU/87/1.3/S/61839, expert termen lung

VII. COMUNICĂRI ŞTIINŢIFICE NEPUBLICATE (E)

E – Lucrări prezentate la diferite seminarii/expoziţii, conferinţe, etc.

Candidat,

Prof. Dr. Ing. Aurelia Cristina NECHIFOR