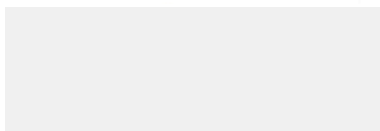


Limba(i) maternă(e)	Română
Limba(i) străină(e) cunoscută(e)	Franceza (C1) Engleza (B2)
Competențe și aptitudini organizatorice	Director de proiect – 3 proiecte nationale de cercetare și 2 proiecte de cercetare cu terți Responsabil de proiect - 3 proiecte de cercetare nationale Director grant ROSE Membru in echipa a 23 de proiecte de cercetare Membru în echipa a 2 proiecte de practica pentru studenti Redactor coordonator al revistei Studia Universitatis Babes-Bolyai, Seria Chemia (2007-2012) Membru in comitetul de organizare al conferintelor MOLMOD edițiile 2007 si 2009 si 2011 si 2014 si BIOREMED, ediția 2007, Chemia Napocensis – 100 (2019).
Competențe și aptitudini tehnice	Sinteza, caracterizarea structurala (metode fizico-chimice) si studiul reactivității derivaților organici ai elementelor p cu una sau mai multe nesaturări; Studiul compușilor coordinativi; Sinteza și caracterizarea metalilenelor; Calcul MO (ab-initio, DFT și metode semiempirice).
Competențe și aptitudini de utilizare a calculatorului	Utilizarea următoarelor programe de editare text sau imagine: Word, Excel, ChemOffice Ultra 2008 ChemWin 6.0 Utilizarea unor programe specifice MO (Spartan, Hyperchem, Gaussian)
Stagii in strainatate	2002 - 2003, Stagiul de cercetare postdoctoral - CNRS, Univ. Paul Sabatier, Toulouse, Franta 2003 - 2004, Bursa NATO postdoc, Institutul de Heterochimie Fundamentala si Aplicata, UPS, Toulouse, Franta iunie - iulie 2005, Bursa AUF pentru mobilitatea cercetatorilor, Institutul de heterochimie fundamentala si aplicata, UPS, Toulouse, Franta mai-august 2006, stagiul de cercetare, Universitatea Paul Sabatier, Toulouse, Franta iulie-august 2011, stagiul de cercetare, Universitatea Paul Sabatier, HFA si LCC Toulouse, Franta
Proiecte de cercetare dezvoltare	Proiect UEFISCDI PN-III-P4-ID-PCE-2016-0351, Derivati stabili ai metalilenelor. De la design la aplicatii (PCMetallylene), 2017-2019 (director de proiect). Proiect CNCSIS PCCE 129, NanoBioFun, Nanoparticule biofuncționale pentru dezvoltarea unor noi metode de imagistică, diagnostic și terapie în medii biologice, 2010-2012 (responsabil Partener P4) Proiect CNCSIS PCCE-140-Metallomics, Aplicații biomedicale a derivaților metalici, 2010-2012 (Resonsabil partener P1) Proiect CNCSIS CEEX ET 49, Evaluarea capacității de coordinare a sistemelor heteroalenice de tipul E=C=E la fragmente organometalice, 2006-2008 (director de proiect)

	Proiect CNCSIS AT 45, Heteroalene și heterocumulene conținând elemente grele din grupele 13-15, precursori de polimeri organometalici 2004-2006 (director de proiect) Contract Nr. 118728/02.04.2014, Identificarea și caracterizarea substanțelor cu efect psihoactiv din etnobotanice, finanțat din bugetul local, Primăria Cluj-Napoca, 2014 (director contract) Contract nr. 5604/18.04.2016, Studii privind variația solubilității îngrășămintelor chimice în funcție de temperatură și studiul stabilității în mediu apos, finanțat de AZOMURES S.A., 2016, (director contract).
Alte mențiuni (premii, distincții, etc.)	Premiul Fundatiei “Reghina & Engelbert Stukenborg” pe anul 2002 Premiul Comenius acordat de Universitatea Babes-Bolyai, 2010 Premiul pentru reprezentativitate acordat de Universitatea Babes-Bolyai, 2011 Diploma de onoare, pentru contributii la activitatile SChR de promovare a chimiei in Romania, acordat de Societatea de Chimie din Romania, 2015 Premiul Academiei Române „Gheorghe Spacu”, pentru anul 2016, pentru Contribuții în chimia organometalică a metalelor și semimetalelor (tetrel-staniu, germaniu) (în colectiv). Medalia „Gheorghe Spacu” și Diploma de onoare, Acordate de Societatea de Chimie din România, pentru contributii deosebite la promovarea chimiei, cu ocazia aniversarii a 100 de ani de la infiintare, 2019. Membru al Societatii Romane de Chimie
Lucrări Științifice	Articole publicate: 79 Prezentari în conferințe naționale și internaționale: peste 70 Capitole în cărți: 1 Carti: 1 ORCID: 0000-0003-4031-594X



LISTA DE PUBLICAȚII

GABRIELA-NICOLETA NEMEȘ (n. CREȚIU)

Facultatea de Chimie și Inginerie Chimică,
Universitatea Babeș-Bolyai, Cluj-Napoca

Teza de doctorat

Sinteza, structura și reactivitatea derivaților organici ai elementelor din blocul p.
Conducător științific, prof.dr. Ioan Silaghi-Dumitrescu, doctorat în chimie, **2001**.

Cărți și capitole în cărți

1. Theoretical aspects of main group multiple bonded systems, Ioan Silaghi-Dumitrescu, Petronela M. Petrar, Gabriela Nemeș, Robert Bruce King, *Computational Inorganic and Bioinorganic Chemistry*, Edward I. Solomon (Editor), Robert A. Scott (Co-Editor), Robert Bruce King (Co-Editor), John Wiley & Sons, **2009**. ISBN: 978-0-470-69997-3 (capitol).
2. Aplicații ale teoriei grupurilor în chimie, Gabriela-Nicoleta Nemeș, Editura Presa Universitară Clujeana, **2013**, ISBN 978-973-595-619-6.

Articole publicate

79. In-Depth Theoretical Investigations of Borazine's Aromaticity: Tailoring Electron Delocalization through Substituent Effects, Alex-Cristian Tomut, Ionut-Tudor Moraru*, Gabriela Nemes*, *Molecules* **2024**, 29, 4902. [https:// doi.org/10.3390/molecules29204902](https://doi.org/10.3390/molecules29204902). (AIS Q2)
78. New Quinazolin-4(3H)-One Derivatives Incorporating Isoxazole Moiety as Antioxidant Agents: Synthesis, Structural Characterization, and Theoretical DFT Mechanistic Study, Yassine Rhazi,* Riham Sghyar, Noemi Deak, Bouchra Es-Sounni, Bouchra Rossafi, Albert Soran, Mustapha Laghmari, Azize Arzine, Asmae Nakkabi, Khalil Hammani, Samir Chtita, Mohammed M. Alanazi, Gabriela Nemes, Mohamed El. Yazidi*, *Pharmaceuticals*, **2024**, 17, 1390. <https://doi.org/10.3390/ph17101390>. (AIS Q2)
77. Investigation of the catalytic activity of hybrid decavanadate materials, Noemi Deak, Meryem Idboumlik, Albert Soran, Mohammed Lachkar, Brahim El Bali, Gabriela Nemes*, *Studia UBB Chemia*, **2024**, 69 (3) 7-23, DOI:10.24193/subbchem.2024.3.01. (AIS Q4)
76. Coordination ability of phosphavinyl(oxo and thioxo)phosphoranes (P=C-P=X; X = O,S) toward transition metals, Iulia-Andrea Aghion, Raluca Septelea *, Alex-Cristian Tomut, Ionut-Tudor Moraru, Albert Soran, Gabriela Nemes *, *Organometallics*, **2024**, doi.org/10.1021/acs.organomet.4c00270 (AIS Q1)
75. In silico modelling of chelate stabilized tetrylene derivatives, Alex-Cristian Tomut, Iulia-Andreea Aghion, Raluca Septelea, Ioan-Dan Porumb, Ionut-Tudor Moraru* and Gabriela Nemes*, *RSC Advances*, **2024**, 14, 10161 – 10171, DOI: 10.1039/d4ra01515k. (AIS Q2)

74. Offsets between hyperconjugations, p-d donations and Pauli repulsions impact the bonding of E–O–E systems. Case study on elements of Group 14, Ionut-Tudor Moraru, * Florin Teleanu, Luminita Silaghi-Dumitrescu, Gabriela Nemes *, *Phys.Chem.Chem.Phys*, **2022**, 24, 13217-13228, DOI: 10.1039/d2cp00869f ([AIS Q2](#))
73. Novel coordination compounds featuring 9-chloro-9-phosphaalkenylchloro-9-germafluorene ligands, Noemi Deak, Raluca Septelean, Lavinia Buta , Ionut-Tudor Moraru , Iulia Andreea Cretoiu , Albert Soran*, Gabriela Nemes *, *Polyhedron*, **2022**, 15, 115866, DOI: 10.1016/j.poly.2022.115866. ([AIS Q3](#))
72. The modulation of 9-Chloro-9-Phosphaalkenylchloro-9-Germafluorene reactivity through organolithium reagents, Lavinia Buta, Raluca Septelean, Albert Soran, Iulia-Andreea Aghion, Ionut-Tudor Moraru, Gabriela Nemes, *Polyhedron*, **2021**, doi.org/10.1016/j.poly.2021.115505. ([AIS Q3](#))
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64. A DFT investigation of a polycyclic stannylene model; structural characterization and stability assessment, Ionut Moraru, Gabriela Nemes*, *Studia Universitatis Babeş-Bolyai Chemia*, **2019**, 2(II), 435-446, DOI: 10.24193/subbchem.2019.2.37. ([AIS Q4](#))
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52. Novel stable phosphastannapropene derivatives. Synthesis and characterization, Petronela M. Petrar*, Raluca Septelean, Heinz Gornitska, Gabriela Nemes, *Journal of Organometallic Chemistry*, **2015**, 787, 14-18, DOI: 10.1016/j.organchem.2015.03.030. ([AIS Q3](#))

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50. Structurally original oxathioethers macrocycles containing an exocyclic double-bond: synthesis, characterization and coordination, Guillaume Carel, Alina Saponar, Nathalie Saffon, Marc Vedrenne, Stéphane Massou, Gabriela Nemes, Ghassoub Rima, David Madec,* Annie Castel, *Tetrahedron*, **2014**, 70, 5650-5668, DOI:10.1016/j.tet.2014.06.082. ([AIS Q2](#))

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40. Chalcogeno[bis(phosphaaalkenyl)] germanium and tin compounds, Tibor-Gabor Kocsor, Dimitri Matioszek, Gabriela Nemes*, Annie Castel*, Jean Escudie, Petronela M. Petrar, Nathalie Saffon-Merceron, Ionel Haiduc, *Inorganic Chemistry*, **2012**, 51, 7782–7787, DOI: 10.1021/ic300810q.

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35. Theoretical study of P(III)=C-P(V) type diphosphapropenes coordinated to transition metals, Raluca Septelean, Petronela M. Petrar, Gabriela Nemes*, *Studia Universitatis Babeş-Bolyai Chemia*, **2011**, 56(4), 131-141.
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32. Synthesis and properties of N,N-diethylacetamido derivatives of p-tert-butyl-calix[n]arene, Alina Saponar*, Elisabeth-Jeanne Popovici, Gabriela Nemes, Nicolae Popovici, Ioana Perhaita, Ioan Silaghi-Dumitrescu, *Revista de Chimie*, **2011**, 62, 596-600.
31. Theoretical study of structural patterns in CH₂OP₂ isomers, Raluca Septelean, Petronela Maria Petrar, Gabriela Nemes*, Jean Escudie, Ioan Silaghi-Dumitrescu, *Journal of Molecular Modelling*, **2011**, 17, 1719-1725, DOI: 10.1007/s00894-010-0872-8.
30. Exploring the structure of arsaallene ylides – a theoretical approach, Petronela Maria Petrar, Gabriela Nemes, Raluca Septelean, Luminita Silaghi-Dumitrescu*, Jean Escudie, *Revue Roumaine de Chimie*, **2010**, 55 (11-12), 1061-1072.
29. A theoretical approach on the structure of arsaallenes –As=C=C< and arsaphosphaallenes –As=C=P-, Petronela M. Petrar*, Gabriela Nemes, Luminita Silaghi-Dumitrescu, *Studia Universitatis Babeş-Bolyai Chemia*, **2010**, 55(2), 25-35.
28. Structural study of new cyclo-1,3-diphosphabutane, Raluca Septelean, Petronela M. Petrar, Iulia Coman, Gabriela Nemes*, *Studia Universitatis Babeş-Bolyai Chemia*, **2010**, 55(3), 223-234.
27. Phosphasilaallenes >Si=C=P- and phosphagermaallenes >Ge=C=P-, Jean Escudié*, Gabriela Nemes*, *Comptes Rendus Chimie*, **2010**, 13, 954-963, DOI: 10.1016/j.crci.2010.03.012.
26. Narrow-rim alkenyl calix[n]arene synthesis and spectral characterization, Alina Saponar*, Elisabeth-Jeanne Popovici, Nicolae Popovici, Ecaterina Bica, Gabriela Nemes, Petronela M. Petrar, Ioan Silaghi-Dumitrescu, *Revista de Chimie*, **2009**, 60, 278-282.
25. An insight into the structure of model germaphosphaallenes, Petronela M. Petrar, Gabriela Nemes, Ioan Silaghi-Dumitrescu*, Jean Escudie, Henri Ranaivonjatovo, *Molecular Physics*, **2009**, 107, 1161-1167, DOI: 10.1080/00268970902780288.
24. vic-Dichlorodiphosphapropanes – synthesis and coordination ability, Raluca Septelean, Gabriela Nemes, Jean Escudie*, Ioan Silaghi-Dumitrescu, Henri Ranaivonjatovo, Petronela Petrar, Heinz Gornitzka, L. Silaghi-Dumitrescu, N. Saffon, *European Journal of Inorganic Chemistry*, **2009**, 628-634, DOI: 10.1002/ejic.200801034.
23. Lower rim silyl substituted calix[8]arenes, Nicola Fleuret, Sebastian Paic, Gabriela Nemes, Raluca Septelean, Petronela M. Petrar, Ioan Silaghi-Dumitrescu, *Studia Universitatis Babeş-Bolyai Chemia*, **2009**, 53, 81-87.

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20. Synthesis and characterization of the first arsanylbis(methylene)phosphorane (Me₃Si)₂C=P(Mes*)=C(Cl)-As(F)Mes*, Petronela Maria Petrar, Gabriela Nemes, Luminița Silaghi-Dumitrescu, Ioan Silaghi-Dumitrescu*, Jean Escudié, Heinz Gornitzka, Henri Ranaivonjatovo, *Revue Roumaine de Chimie*, **2007**, 52, 45-49.
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