Curriculum vitae Europass

Informaţii personale

Nume / Prenume	**VARGA RICHARD ATTILA**
Adresă(e)	Universitatea ''Babeş-Bolyai'' Facultatea de Chimie şi Inginerie Chimică Str. Arany Janos, Nr. 11, RO-400028 Cluj-Napoca, Romania
Phone (work)	00-40-264-593833/5724
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Experienţa profesională

Perioada	2014-prezent
Funcţia sau postul ocupat	Conferențiar
Numele şi adresa angajatorului	Facultatea de Chimie și Inginerie Chimică, Universitatea ''Babeş-Bolyai''
Activităţi şi responsabilităţi principale	Didactic: curs, seminar și laborator de Chimie Generală (secțiile de Fizica, Biologie și respectiv Chimie pentru seminar și laborator); curs, seminar și laborator de Chimie Coordinativă și Organometalică; curs și seminar de Difracție de raze x pe monocristal; laborator de Chimie Anorganică Cercetare în Chimie Anorganică și Organometalică, difracție de raze X pe monocristal

Perioada	2007-2014
Funcţia sau postul ocupat	Lector
Numele şi adresa angajatorului	Facultatea de Chimie și Inginerie Chimică, Universitatea ''Babeş-Bolyai''
Activităţi şi responsabilităţi principale	Didactic: curs, seminar și laborator de Chimie Generală; curs de Chimie Coordinativă și Organometalică (lb. maghiara) și de Difractie de raze x pe monocristal; laborator de Chimie Anorganică Cercetare în Chimie Anorganică și Organometalică, difracție de raze X pe monocristal

Perioada	2004-2007
Funcţia sau postul ocupat	Asistent
Numele şi adresa angajatorului	Facultatea de Chimie şi Inginerie Chimică, Universitatea ''Babeş-Bolyai''
Activităţi şi responsabilităţi principale	Didactic: curs, seminar și laborator de Chimie Generală; curs de Chimie Coordinativă și Organometalică (lb. maghiara si engleza); laborator de Chimie Anorganică Cercetare în Chimie Anorganică și Organometalică, difracție de raze X pe monocristal

Perioada	2003-2004
Funcţia sau postul ocupat	Asistent cercetare
Numele şi adresa angajatorului	Facultatea de Chimie și Inginerie Chimică, Universitatea ''Babeş-Bolyai''
Activităţi şi responsabilităţi principale	Cercetare în Chimie Anorganică și Organometalică, difracție de raze X pe monocristal

Perioada	2001-prezent
Funcţia sau postul ocupat	cristalograf
Numele şi adresa angajatorului	Facultatea de Chimie și Inginerie Chimică, Universitatea ''Babeş-Bolyai''
Activităţi şi responsabilităţi principale	Determinare de structuri prin difracție de raze X pe monocristal

Educaţie şi formare

Perioada	2024
Calificarea / diploma obţinută	Abilitare în Chimie
Numele şi tipul instituţiei de învăţământ	Facultatea de Chimie și Inginerie Chimică, Universitatea ‘’Babeş-Bolyai’’
Perioada	1998-2003
Calificarea / diploma obţinută	Doctorat în Chimie Titlul teze: Hypervalent Tin and Lead Compounds
Numele şi tipul instituţiei de învăţământ	Facultatea de Chimie și Inginerie Chimică, Universitatea ‘’Babeş-Bolyai’’
Perioada	1997-1998
Calificarea / diploma obţinută	Master în Chimie Coordinativă și Organometalică Titlul teze: Lead Compounds with Organophosphorus Ligands
Numele şi tipul instituţiei de învăţământ	Facultatea de Chimie și Inginerie Chimică, Universitatea ‘’Babeş-Bolyai’’
Perioada	1992-1998
Calificarea / diploma obţinută	Licență în Chimie
Numele şi tipul instituţiei de învăţământ	Facultatea de Chimie și Inginerie Chimică, Universitatea ‘’Babeş-Bolyai’’

Aptitudini şi competenţe personale

Limba(i) străină(e) cunoscută(e)

Autoevaluare	**Înţelegere**				**Vorbire**				**Scriere**	
Nivel european (*)	Ascultare		Citire		Participare la conversaţie		Discurs oral		Exprimare scrisă	
Engleza	C2	utilizator experimentat	C2	utilizator experimentat	C2	utilizator experimentat	C2	utilizator experimentat	C2	utilizator experimentat
Maghiara	C2	utilizator experimentat	C2	utilizator experimentat	C2	utilizator experimentat	C2	utilizator experimentat	C2	utilizator experimentat
Germana	B2	utilizator independent	B2	utilizator independent	B1	utilizator independent	B1	utilizator independent	A2	utilizator elementar

(*) Nivelul Cadrului European Comun de Referinţă Pentru Limbi Străine

Competenţe şi aptitudini tehnice	Chimie coordinativă și organometalică preparativă – sinteza de compuși coordinativi / organometalici ai staniului și plumbului în atmosfera deschisă sau inertă, utilizând precursori anorganici și organici specifici; design de compuși (organo)metalici cu activitate biologică. Analiza spectrala – investigarea structurală a precursorilor și a noilor compuși cu: FT-IR, RMN multinuclear (^{1}H, ^{13}C, ^{19}F, ^{31}P, ^{119}Sn), spectroscopie de masă. Analiză structurală – investigarea structurii moleculare prin difracție de raze X pe monocristal utilizând difractometrul de raze X Smart APEX CCD și D8 Venture; rezolvarea, rafinarea și procesarea grafică a structurilor de raze X cu programele specifice. **Publicații:** Autor al unei cărți publicate la o editura din străinătate și a unui capitol de carte 103 de articole științifice (103 in reviste cotate ISI) 48 de conferințe naționale și internaționale index Hirsch = 18 Număr total de citații = 1,115 (924 fără autocitări la data de 2.07.2025) http://www.researcherid.com/rid/A-3940-2010 ORCiD: 0000-0002-0011-8469 **Membru al asociațiilor profesionale:** Societatea de Chimie din Romania
Competenţe şi aptitudini de utilizare a calculatorului	Microsoft Office (Word, Excel, Power Point, OneNote), PhotoShop, ChemDraw, Mnova, SHELX, WinGX, ORTEP, Diamond, POV-Ray.
Competenţe şi aptitudini organizatorice	Director de proiect la 4 proiecte naționale câștigate prin concurs; Membru în mai mult de 10 proiecte naționale și internaționale Cristalograf la Centrul National de Difractiometrie de Raze X
Stagii în străinatate	- Chemistry Department, Universität Dortmund (Germany) Nov. - Dec. 1999 (2 months – visiting researcher) Feb. - Dec. 2001 (11 months - visiting researcher) Mar. - Apr. 2007 (1 month - visiting researcher) - Chemistry Department, Zaragoza University (Zaragoza), La Rioja University (Logrogno) Spain Oct. – Nov. 2007 (1 month - visiting researcher) - Bruker AXS, Karlsruhe, Germany SMART APEX Sigle Crystal X-ray Diffractometer User Training, 23 - 30 Mar. 2002.
Permis(e) de conducere	B

LISTA DE PUBLICATII

I. CARTI

1. Hypervalent tin and lead compounds. Synthesis and characterization.
R. A. Varga,
LAP LAMBERT Academic Publishing GmbH&Co. KG, Saarbrücken, Germany, **2012**. ISBN-10:**3847337319**; ISBN-13: **978-3847337317**; Publication Date: January 5, 2012

2. C–H Bond Activation Mediated by Inorganic and Organometallic Compounds of Main Group Metals (Chapter 4)
C.I. Raț, A. Soran, R. A. Varga, C. Silvestru,
in *Adv. Organomet. Chem.*, eds. P. J. Pérez, F. G. A. Stone, R. West, Academic Press, **2018**, 70, 233-311.
DOI: 10.1016/bs.adomc.2018.07.003

II. PUBLICATII STIINTIFICE

1. Synthesis and spectroscopic characterization of new organolead(IV) complexes containing organophosphorus ligands,
R. A. Varga, C. Silvestru, I. Haiduc,
Synth. React. Inorg. Met.-Org. Chem., **2000**, *30*, 485-498.

2. Inorganic chelate rings in organolead(IV) derivatives of organophosphorus ligands. From 6-membered to 16-membered rings,
R. A. Varga, J. E. Drake, C. Silvestru,
Phosphorus, Sulfur & Silicon, **2001**, *169*, 47-50.

3. Hypervalent organotin(IV) derivatives containing [2-(Me_2NCH_2)C_6H_4]Sn moieties. Competition between nitrogen and chalcogen atoms for coordination to the metal center,
R. A. Varga, M. Schuermann, C. Silvestru,
J. Organomet. Chem., **2001**, *623*, 161-167.
DOI:10.1016/S0022-328X(00)00871-8

4. Dibenzyltin(IV) derivatives of tetraphenyldichalcogenoimidodiphosphinato ligands. X-Ray molecular structures of $(C_6H_5CH_2)_2Sn[(OPPh_2)_2N]_2$ and $(C_6H_5CH_2)_2Sn[(OPPh_2)(SPPh_2)N]_2 \cdot C_6H_6$,
R. A. Varga, J. E. Drake, M. Venter, K. C. Molloy, C. Silvestru,
Rev. Roum. Chim., **2002**, *47*, 1067-1073.

5. Organolead(IV) derivatives of oxophosphorus ligands. X-Ray structures of monomeric $R_2Pb[(OPPh_2)_2N]_2$ (R = Me, Ph) and tetrameric $[Me_3Pb(O_2PPh_2)]_4$,
R. A. Varga, J. E. Drake, C. Silvestru,
J. Organomet. Chem., **2003**, *675*, 48-56.
DOI: 10.1016/S0022-328X(03)00229-8

6. Crystal and molecular structure of bis(tetraphenylmonothioimidodiphosphinato)dibutyltin(IV), $Bu_2Sn[(OPPh_2)(SPPh_2)N]_2$ - *trans* versus *cis*-$C_2SnO_2S_2$ octahedral cores,
R. A. Varga, C. Silvestru,
Rev. Roum. Chim., **2004**, *49(3-4)*, 247-255.

7. New inorganic mercury(II) derivatives of asymmetric tetraorganodichalcogenoimidodiphosphinato ligands. Crystal and molecular structure of $Hg[(XPMe_2)(SPPh_2)N]_2\cdot$(X = O, S).
O. Bumbu, R. A. Varga, Anca Silvestru
Rev. Roum. Chim., **2004**, *49(3-4)*, 269-278.

8. Design and synthesis of new macrocyclic cyclophanes using 1,3-dioxane units as bridges: a molecular "rocking chair",
M. Balog, I. Grosu, G. Plé, Y. Ramondenc, E. Condamine, R. A. Varga,
J. Org. Chem., **2004**, *69*, 1339-1345.
DOI: 10.1021/jo0353987

9. Crystal Structure of *N*-3-Pyridinylmethanesulfonamide and *trans*-Diiodobis(*N*-3-pyridinyl-methanesulfonamide)platinum(II),
N. I. Dodoff, R. A. Varga, D. Kovala-Demertzi,
Z. Naturforsch., **2004**, *59b,* 1070-1076.

10. Synthesis, solution behaviour and X-ray structures of $[2\text{-}(Me_2NCH_2)C_6H_4]SnCl_3$ and $[2\text{-}(Me_2NCH_2)C_6H_4]SnCl_3\cdot$DMSO
R. A. Varga, C. Silvestru, C. Deleanu,
Appl. Organomet. Chem., **2005**, *19*, 153-160.
DOI: 10.1002/aoc.817

11. Synthese und Kristallstruktur von *meso*-R(Ph)Sb-Sb(Ph)R [R = $(Me_3Si)_2CH$]
L. Balazs, H. J. Breunig, C. Silvestru, R. A. Varga,
Z. Naturforsch., **2005**, *60b*, 1321-1323.

12. Hypercoordinated organotin(IV) halides containing 2-$(Me_2NCH_2)C_6H_4$ groups: $[2\text{-}(Me_2NCH_2)C_6H_4]_2SnX_2$ (X = F, Cl, Br, I) and $[2\text{-}(Me_2NCH_2)C_6H_4]R_2SnX$ (R = Me, Ph; X = F, Cl, Br, I) – solution behaviour and solid state hydrogen bonding-based supramolecular architecture
R. A. Varga, A. Rotar, M. Schuermann, K. Jurkschat, C. Silvestru,
Eur. J. Inorg. Chem., **2006**, 1475-1486.
DOI: 10.1002/ejic.200501018

13. μ-Hydroxo-bis{[2-(dimethylaminomethyl)phenyl]dimethyltin(IV)} iodide
R. A. Varga, C. Silvestru,
Acta Cryst. E, **2006**, *E62*, m1964–m1965.
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14. Crystal and density functional theory molecular structure of the cyclobutanone resulted from the cycloaddition of T-butylcyanoketene (Moore's ketene) with indene
L. Parvulescu, A. Marton, C. Draghici, R. A. Varga, M. D. Gheorghiu
Rev. Roum. Chim., **2006**, *51(7-8),* 615-622.

15. Crystal structure of diphenyltin(IV) bis(tetraphenylimidodiphosphinate)
R. A. Varga, C. Silvestru,
Main Group Met. Chem., **2006**, *29(5),* 285-286.

16. Hydrogen bonding in dibromo[2-(dimethylaminomethyl)phenyl][2-(dimethylammonio-methyl)phenyl]tin(IV) tetrabromo[2-(dimethylaminomethyl)phenyl]tin(IV)
R. A. Varga, C. Silvestru,
Acta Cryst. C, **2007**, *C63*, m48–m50.
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17. 4-Benzylmorpholin-4-ium chloride
D. Copolovici, C. Silvestru, R. A. Varga
Acta Cryst. E, **2007**, *E36*, o2465.
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18. Bismuth(III) complexes of tetraorganodichalcogenoimidodiphospninic acids. Crystal and molecular structure of $Bi[(SPMe_2)(SPPh_2)N]_3$ and $Bi[(OPPh_2)_2N]_2[(OPPh_2)(SPPh_2)N]$.
M. Nema, M. Jönsson, R. A. Varga, A. Silvestru, C. Silvestru.
Rev. Roum. Chim., **2007**, *52(1-2),* 51-58.

19. New copper(I) and copper(II) tetraorganodichalcogenoimidodiphosphinates. Crystal and molecular structure of the first monothioimidodiphosphinato copper(I) complex, $Cu_4[(OPMe_2)(SPPh_2)N]_4 \cdot 6CH_2Cl_2$,
A. Rotar, O. Moldovan, S. I. Farcas, R. A. Varga, C. Silvestru, A. Silvestru,
Studia Univ. "Babes-Bolyai", Chemia, **2007**, *52(1)*, 81-90.

20. Intramolecular interactions in μ-oxido-bis{bis[2-(dimethylaminomethyl)phenyl]stannol}
A. Rotar, R. A. Varga, C. Silvestru,
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21. Hydrogen bonding in (2-bromobenzyl)dimethylammonium bromide
R. A. Varga, C. Silvestru,
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22. Iodidomesityltellurium(II) iodido-trimesitylditellurium(II)(Te-Te)
L. Copolovici, C. Silvestru, V. Lippolis, R. A. Varga,
Acta Cryst. C, **2007**, *C63,* o528-o529.
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23. Hydrogen bis(tetraphenylimidodiphospinic acid) triiodide
L. Copolovici, R. A. Varga, C. Silvestru, V. Lippolis,
Acta Cryst. E, **2007**, *E63,* o4206–o4207.
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24. 3,6-Diaminoacridinium perchlorate
R. A. Varga, A. Rus, M. M. Venter, T. Negreanu-Pirjol, C. Guran
Acta Cryst. E, **2007**, *E63,* o4317.
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25. 1-Bromo-2,6-bis(4-methylpiperazin-1-ylmethyl)benzene
L. Copolovici, V. Bojan, C. Silvestru, R. A. Varga,
Acta Cryst. E, **2007**, *E63,* o4323.
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26. Tetrakis[2-(dimethylaminomethyl)phenyl]-1κC,2κC,3κC,4κC-hexa-μ-sulfido-1:2κ^4S:S;1,4κ^2S:S;2:3κ^2S:S;3:4κ^4S:S-tetratin(IV) chloroform solvate
R. A. Varga, C. Silvestru
Acta Cryst. E, **2007**, *E63,* m2789.
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27. *N*-(2-Bromobenzyl)-2,6-diisopropylaniline
A. Cristea, R. A. Varga, C. Silvestru
Acta Cryst. E, **2007**, *E63,* o4528–o4529.
DOI: 10.1107/S1600536807052907

28. 1-Bromo-2,6-bis(*N*-morpholinylmethyl)benzene
L. Copolovici, V. Bojan, C. Silvestru, R. A. Varga,
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29. *N,N*-Bis(2-bromobenzyl)-2,6-diisopropylaniline
C. Comsa, C. Silvestru, R. A. Varga
Acta Cryst. E, **2007**, *E63,* o4714.
DOI: 10.1107/S160053680705670X

30. Crystal structure of triphenyltin(IV) diphenyldithiophosphinate,
R. A. Varga, C. Silvestru,
Main Group Met. Chem., **2007**, *30(4)*, 199-202.

31. Substitutional disorder in a hypervalent diorganotin(IV) dihalide
A. Rotar, R. A. Varga, C. Silvestru,
Acta Cryst. E, **2008**, *E64,* m45.
DOI: 10.1107/S1600536807063386

32. *N,N*-Bis(2-bromoethyl)aniline
R. Vilma Bojan, R. A. Varga, C. Silvestru
Acta Cryst. E, **2008**, *E64,* o86.
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33. Tris[2-(morpholin-4-ylmethyl)phenyl-κ^2C^1,*N*]antimony(III)
D. Copolovici, R. A. Varga, C. Silvestru
Acta Cryst. C, **2008**, *C64,* m37-m39.
DOI: 10.1107/S0108270107061896

34. Solid-state structure and behaviour in solution of hypercoordinated organotin(IV) derivatives containing 2-(Me_2NCH_2)C_6H_4 moieties
R. A. Varga, K. Jurkschat, C. Silvestru,
Eur. J. Inorg. Chem., **2008**, 708–716.
DOI: 10.1002/ejic.200701044

35. X-ray, ^{1}H NMR and DFT study on 5-para-X-benzylidene-thiazolidine derivatives with X=Br,F
V. Chiş, A. Pîrnău, M. Vasilescu, R. A. Varga, O. Oniga
J. Mol. Struct.: THEOCHEM, **2008**, *851*, 63-74.
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36. Hypervalent organobismuth(III) carbonate, chalcogenides and halides with the pendant arm ligands 2-(Me_2NCH_2)C_6H_4 and 2,6-(Me_2NCH_2)$_2C_6H_3$
H. J. Breunig, L. Königsmann, E. Lork, M. Nema, N. Philipp, C. Silvestru, A. Soran, R. A. Varga, R. Wagner
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37. Crystal and molecular structure of [2,6-(Me_2NCH_2)$_2C_6H_3$]$_2SnF_2$, an intramolecularly coordinated diorganotin difluoride
A. Rotar, M. Schürmann, R. A. Varga, C. Silvestru, K. Jurkschat,
Z. Anorg. Allg. Chem., **2008**, *634 (9),* 1533-1536.
DOI: 10.1002/zaac.200800002

38. Di-μ-chlorido-bis{[2-(morpholinomethyl)phenyl-κ^2C^1,N]palladium(II)}
D. Copolovici, C. Silvestru, F. Isaia, R. A. Varga
Acta Cryst. E, **2008**, *E64*, m1057-m1058.
DOI:10.1107/S1600536808022575

39. 4-Benzylpiperazin-1-ium chloride chloroform solvate
M. G. Nema, C. Silvestru, R. A. Varga, H. J. Breunig
Acta Cryst. E, **2008**, *E64*, o1585.
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40. Synthesis and Antimalarial Activity of New Amino Analogues of Amodiaquine
E. Paunescu, S. Susplugas, E. Boll, R. A. Varga, E. Mouray, P. Grellier, P. Melnyk
Med. Chem., **2008**, *4(5)*, 407-425.

41. Hydrogen bonding in substitutionally disordered di-μ-hydroxido-bis{aquatri[bromido/chlorido(1/2)]tin(IV)}acetone disolvate
I. Barbul, R. A. Varga, C. Silvestru
Acta Cryst. E, **2009**, *E65*, m39.
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42. Replacement of the 4'-hydroxy group of amodiaquine and amopyroquine by aromatic and aliphatic substituents: synthesis and antimalarial activity
E. Paunescu, S. Susplugas, E. Boll, R. A. Varga, E. Mouray, I. Grosu, P. Grellier, P. Melnyk
ChemMedChem, **2009**, *4*, 549–561.
DOI:10.1002/cmdc.200800318

43. Synthesis and characterization of hypervalent organoantimony(III) compounds containing the [2-(Me_2NCH_2)C_6H_4]$_2$Sb fragment
L. M. Opris, A. M. Preda, R. A. Varga, H. J. Breunig, C. Silvestru
Eur. J. Inorg. Chem., **2009**, 1187–1193.
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44. Diorganotin(IV) compounds containing 2-(Et_2NCH_2)C_6H_4 moieties. Configurational stability in solution and solid state structures
A. Rotar, R. A. Varga, K. Jurkschat, C. Silvestru,
J. Organomet. Chem., **2009**, *694*, 1385–1392.
DOI:10.1016/j.jorganchem.2008.12.023

45. Experimental and theoretical investigation of 5-para-nitro-benzylidene-thiazolidine-2-thione-4-one molecule
A. Pîrnău, V. Chiş, L. Szabo, O. Cozar, M. Vasilescu, O. Oniga, R. A. Varga,
J. Mol. Struct., **2009**, *924-926*, 361-370.
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46. H-bond-driven supramolecular architectures of the *syn* and *anti* isomers of the dioxime of bicyclo[3.3.1]nonane-3,7-dione,
N. Tosa, A. Bende, R. A. Varga, A. Terec, I. Bratu, I. Grosu,
J. Org. Chem., **2009**, *74(10)*, 3944-3947.
DOI:10.1021/jo900484v

47. Reaction of Moore's ketene (*t*-Butylcyanoketene) with 1,3-cyclopentadiene and 1,3-cyclohexadiene. Is periselectivity controlled by the dynamic of trajectories at the bifurcation point?
A. Marton, L. Pârvulescu, C. Drăghici, R. A. Varga**,** M. D. Gheorghiu**,**
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48. A versatile synthesis of a new bisiminophosphorane
A. Micle, N. Miklášova, R. A. Varga, A. Pascariu, N. Pleşu, M. Petric, G. Ilia,
Tetrahedron Lett., **2009**, *50*, 5622–5624.
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49. Bis[2-(morpholinomethyl)phenyl]phenylphosphane
A. Covaci, R. A. Varga, C. Silvestru
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50. Synthesis, Structural Analysis, and Chiral Investigations of Some Atropisomers with EE-Tetrahalogeno-1,3-butadiene Core
F. Piron, N. Vanthuyne, B. Joulin, J.-V.Naubron, C. Cisma, A. Terec, R. A. Varga,
C. Roussel, J. Roncali, I. Grosu
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51. Organotin meclofenamic complexes: Synthesis, crystal structures and antiproliferative activity of the first complexes of meclofenamic acid – Novel anti-tuberculosis agents,
D. Kovala-Demertzi, V. Dokorou, A. Primikiri, R. Varga, C. Silvestru, U Russo, M. A. Demertzis,
J. Inorg. Biochem., **2009**, *103*, 738-744.

52. 6,6-dimethyl- and 6,6-diphenylfulvene as cycloaddents in reaction with Moore's ketene
L. Pârvulescu, A. Marton, M. Mihai, C. Drăghici, R. A. Varga**,** M. D. Gheorghiu,
Rev. Roum. Chim., **2009**, *54*(11-12), 895–902

53. [2,6-bis(dimethylaminomethyl)phenyl]selenium bromide monohydrate
R. A. Varga, M. Kulcsar, A. Silvestru
Acta Cryst. E, **2010**, *E66*, o771.
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2.7.2024

Conf. Dr. Richard A. Varga